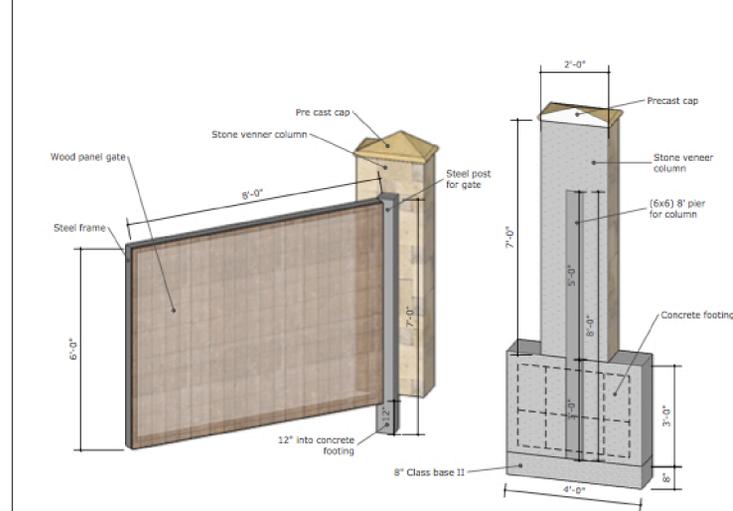




**The Pham Residence**  
 706 North San Antonio Road, Los Altos, CA.

September 2014  
 Scale: 1"=10'0"

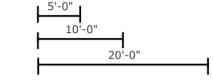


PLAN T LEG END			
Qty	Size	Botanical Name	Common Name
		SHRUBS, VINES & HERBACEOUS	S
	61 gal.	Anigozanthos flavidus	Kangaroo Paw
	65 gal.	Euonymus japonica microphylla 'Var.'	Box Leaf Euonymus
	65 gal.	Loropetalum chinensis 'razzleberri'	Loropetalum
	45 gal.	Myrsine africana	African Box
	415 gal.	Pittosporum tenuifolium	Pittosporum
	25 gal.	Pieris japonica 'Flame of the Forest'	Andromeda
	715 gal.	Prunus caroliniana 'compacta'	Dwarf Carolina Laurel Cherry

GROUNDCOVERS			
Qty	Size	Botanical Name	Common Name
25	1 gal.	Coprosma 'Verde Vista'	Mirror Plant
01 gal.		Erigeron karvinskianus	Santa Barbara Daisy
91 gal.		Heuchera sanguinea	Coral Bell
81 gal.		Verberna peruviana 'Homestead Purple'	Purple Verbena
01 gal.		Vinca minor	Dwarf Periwinkle
95 gal.		GRASSES Calamagrostis arundinacea 'Karl Forrester'	
71 gal.		Festuca 'Elijah Blue'	
45 gal.		Juncus patens	California Rush
81 gal.		Pennisetum setaceum 'Cupreum'	Fountain Grass
85 gal.		Phormium tenax 'Atrorubrum'	New Zealand Flax (purplish-red)
65 gal.		Phormium tenax 'Dwarf New Zealand Flax'	Dwarf New Zealand Flax

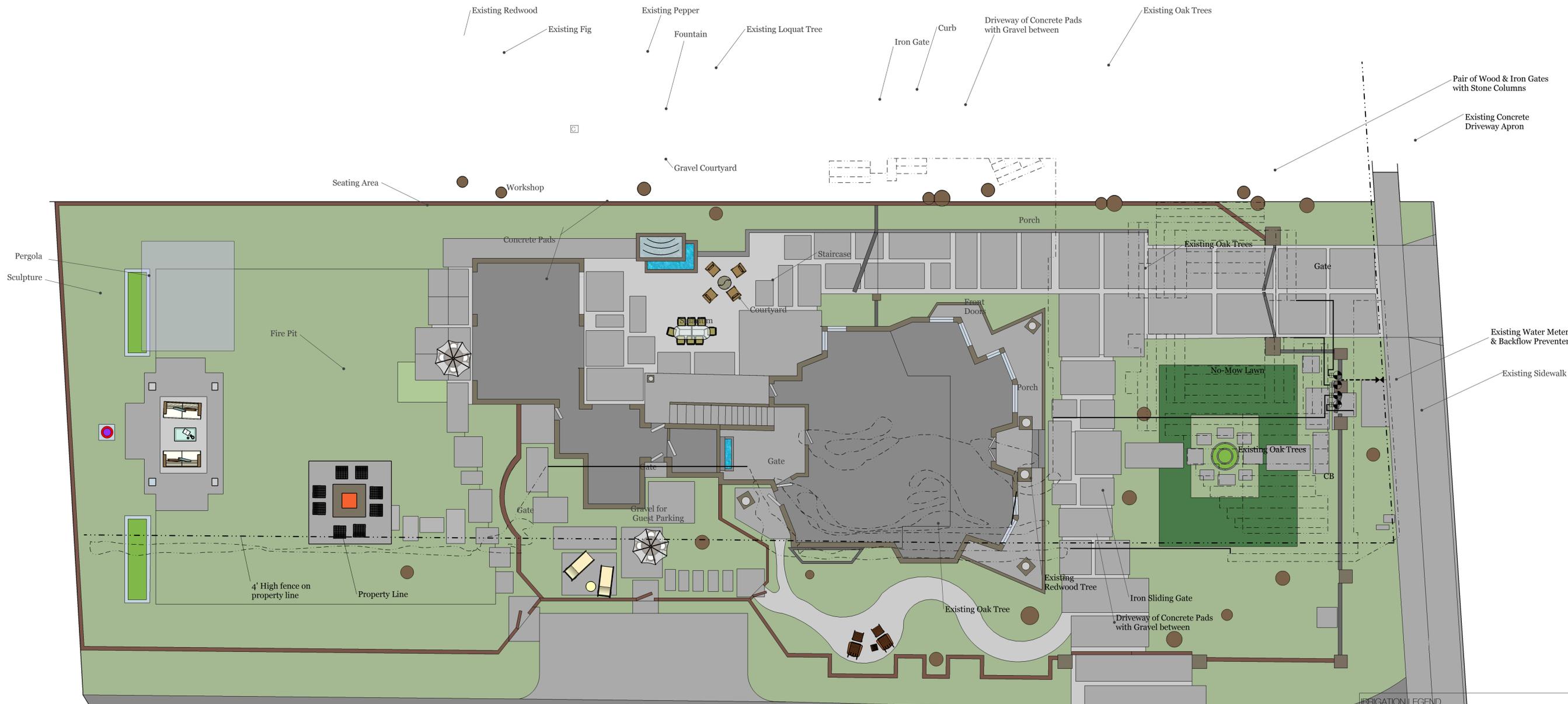


Scale: 1"=10'0"



**Landscape Plan**





**AITKEN & ASSOCIATES**  
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3675 Hecker Pass, Gilroy, CA.  
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**The Pham Residence**  
706 North San Antonio Road, Los Altos, CA.

**IRRIGATION LEGEND**

- Main line SCH 40 2"
- Sleeves SCH 40 4"
- Lateral Line SCH 40 1"
- Backflow FEBC0825V
- Rainbird 1810 series 6" heads
- Rainbird 3510 series 4" headup
- Rainbird Valves F6B or F6S
- Rainbird Drip Valve XCS100-FFP
- Drip Line XFS Sub-surface
- Rainbird Controller 12 station-ESP-SMTe

**RAIN BIRD** Tech Spec

**XFS Dripline With Copper Shield™ Technology**

**XFS SUB-SURFACE**

**Applications**

- Rain Bird XFS Dripline with Copper Shield™ for sub-surface drip irrigation is the latest innovation in the Rain Bird "Verification" Family. Rain Bird's patent-pending Copper Shield™ Technology protects the emitter from root intrusion, creating a long-lasting, low maintenance sub-surface drip irrigation system for use under turf grass or shrub and groundcover areas. XFS Series Dripline with Copper Shield™ is perfect for small, narrow and tight planting areas, as well as areas with tight curves or many switchbacks.

**Reliable**

- XFS emitters are protected from root intrusion by Rain Bird's patent-pending Copper Shield™ Technology resulting in a system that does not require maintenance or replacement of chemicals to prevent root intrusion.
- The pressure-compensating emitter design provides a consistent flow over the entire lateral length ensuring higher uniformity for increased reliability in the pressure range of 8.5 to 60 psi.

**Durable**

- Dual-layered tubing (copper over black) provides unmatched resistance to chemicals, algae growth and UV damage.
- Grit tolerant: Rain Bird's proprietary emitter design resists clogging by use of an extra-wide flow path combined with a self-flushing action.

**Features**

**Simple**

- Rain Bird's patent-pending copper-colored XFS dripline with Copper Shield™ Technology protects the emitter from root intrusion with out requiring EPA-approved handling procedures - unlike some manufacturers who use harsh chemicals or treated filters to protect the emitter from root intrusion.
- Through the use of a proprietary tubing material, the copper-colored XFS Dripline with Copper Shield™ is the most flexible dripline tubing in the industry making it the easiest sub-surface dripline to design with and install.

**Operating Range**

- Pressure: 8.5 to 60 psi (58 to 4.14 bar)
- Flow rates: 0.6 and 0.9 gph (2.3 ltr and 3.5 ltr/h)
- Temperature: Water: Up to 100°F (37.8°C) Ambient: Up to 122°F (51.7°C)
- Required Filtration: 120 Mesh

**Specifications**

- OD: 0.634"
- ID: 0.536"
- Thickness: 0.049"
- 12' 18" 24" (30.5 cm, 45.7 cm, 61.0 cm) spacing
- Available in 100' and 500' (30.5 m, 76.2 m and 152.4 m) coils
- Coil Color: Copper

**XFS Dripline Models**

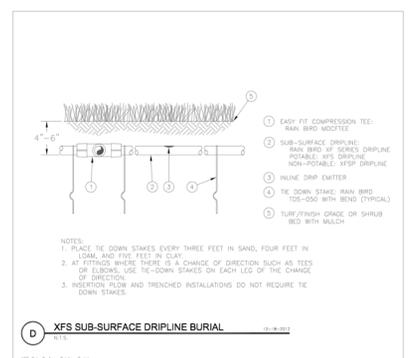
• XFS-06-12-100	• XFS-09-18-100
• XFS-06-12-500	• XFS-09-18-500
• XFS-06-18-100	• XFS-09-24-500
• XFS-06-18-500	• XFS-06-12-500
• XFS-06-24-500	• XFS-06-18-500
• XFS-09-12-100	• XFS-09-12-500
• XFS-09-12-500	• XFS-09-18-500

**How To Specify**

**XFS - 06 - 12 - 100**

Model Flow Rate (G.P.H.) Coil Length (100 Feet) Emitter Spacing (12" inches)

XFS = Purple to indicate models that use non-potable water.



September 2014  
Scale: 1"=10'0"

**Irrigation Plan**



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**RAIN BIRD** Tech Spec

**XFS Dripline With Copper Shield™ Technology**  
Dripline Series

**Specifications**

- It accepts Rain Bird Easy Fit Compression Fittings, XFF Dripline Barbed Insert Fittings and other 17 mm barbed insert fittings.
- Rain Bird's low profile emitter design reduces in-line pressure loss, allowing longer lateral runs, simplifying design and reducing installation time.
- Variety of emitter flow rates, emitter spacing and coil lengths provide design flexibility for other sub-surface turf grass or sub-surface shrub and groundcover applications.

**Reliable**

Rain Bird's XFS Dripline with Copper Shield™ for sub-surface drip irrigation is the latest innovation in the Rain Bird "Navigation" Family. Rain Bird's patent-pending Copper Shield™ Technology protects the emitter from root intrusion, creating a long-lasting, low-maintenance sub-surface drip irrigation system for use under turf grass or shrub and groundcover areas. XFS Series Dripline with Copper Shield™ is perfect for small, narrow and tight planting areas, as well as areas with tight curves or many switchbacks.

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Dual-layered tubing (copper over black) provides unmatched resistance to chemicals, algae growth and UV damage.

**Features**

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- Flow rates: 0.6 and 0.9 gph (2.3 l/hr and 3.5 l/hr)
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- Required Filtration: 120 Mesh

**How To Specify**

**XFS - 06 - 12 - 100**

Model Flow Rate (G.A. GPH) Coil Length (100 feet) Emitter Spacing (12" inches)

XFS = Purple to indicate models that use non-potable water.

**IRRIGATION LEGEND**

- Main line SCH 40 2"
- Sleeves SCH 40 4"
- Lateral Line SCH 40 1"
- Backflow FEBCO825Y
- Rainbird 1800 series 6" heads
- Rainbird 3500 series 4" popups
- Rainbird Valves FFB or PEBs
- Rainbird Drip Valve XCS-100-FFF
- Drip Line XFS Sub-surface
- Rainbird Controller 12 station ESP-SMTe

**IRRIGATION PLAN**

1. PLACE THE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.

2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE THE DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

3. INSERTION POINT AND TRENCHED INSTALLATIONS DO NOT REQUIRE THE DOWN STAKES.

**XFS SUB-SURFACE DRIPLINE BURIAL**

1. EASY FIT COMPRESSION TEE: RAIN BIRD MODELTEE

2. SUB-SURFACE DRIPLINE: RAIN BIRD 1800 SERIES DRIPLINE (POSSIBLE) XFS DRIPLINE (NON-POSSIBLE)

3. MAINLINE DRIPLINE EMITTER

4. TE DOWN STAKE: RAIN BIRD 105-100 WITH BOND (TYPICAL)

5. TURF PHOTO: GRASS OR SHRUB BED WITH MULCH

