FOOTHILLS Planting Plan

TREES
- **BOTANICAL NAME**: PLATANUS RACEMOSA
  - **COMMON NAME**: CALIFORNIA SYCAMORE
  - **SIZE**: 15 GAL
  - **SPACING**: MULTI-TRUNK
- **BOTANICAL NAME**: HETEROMELES ARbutifolia
  - **COMMON NAME**: TOYON
  - **SIZE**: 15 GAL
  - **SPACING**: MULTI-TRUNK

VINE
- **BOTANICAL NAME**: MACFADYENA UNGUIS-CATI
  - **COMMON NAME**: YELLOW TRUMPET VINE
  - **SIZE**: 1 GAL

GROUNDCOVERS
- **BOTANICAL NAME**: ACHILLEA MILLEFOLIUM
  - **COMMON NAME**: COMMON YARROW
  - **SIZE**: 4" POT
  - **SPACING**: 12" O.C.
- **BOTANICAL NAME**: ACHILLEA 'MOONSHINE'
  - **COMMON NAME**: MOONSHINE YARROW
  - **SIZE**: 4" POT
  - **SPACING**: 12" O.C.
- **BOTANICAL NAME**: MYOPORUM PARVIFOLIUM
  - **COMMON NAME**: MYOPORUM FLAT
  - **SIZE**: 12" O.C.

MULCH
- **SIZE**: 3" LAYER

PERMEABLE PAVING
- **SIZE**: DECOMPOSED GRANITE

LEGEND

**TREES**
- **BOTANICAL NAME**: PLATANUS RACEMOSA
  - **COMMON NAME**: CALIFORNIA SYCAMORE
  - **SIZE**: 15 GAL
  - **SPACING**: MULTI-TRUNK
- **BOTANICAL NAME**: HETEROMELES ARbutifolia
  - **COMMON NAME**: TOYON
  - **SIZE**: 15 GAL
  - **SPACING**: MULTI-TRUNK

**VINE**
- **BOTANICAL NAME**: MACFADYENA UNGUIS-CATI
  - **COMMON NAME**: YELLOW TRUMPET VINE
  - **SIZE**: 1 GAL

**GROUNDCOVERS**

**SHRUBS**
- **BOTANICAL NAME**: Ceanothus 'Ray Hartman'
  - **COMMON NAME**: RAY HARTMAN CALIFORNIA WILD LILAC
  - **SIZE**: 1 GAL
  - **SPACING**: 96" O.C.
- **BOTANICAL NAME**: Leucophyllum Frutescens
  - **COMMON NAME**: TEXAS RANGER
  - **SIZE**: 1 GAL
  - **SPACING**: 60" O.C.
- **BOTANICAL NAME**: Baccharis pilularis
  - **COMMON NAME**: PIGEON POINT
  - **SIZE**: 1 GAL
  - **SPACING**: 96" O.C.
- **BOTANICAL NAME**: Leymus Condensatus
  - **COMMON NAME**: CANYON PRINCE WILD RYE
  - **SIZE**: 1 GAL
  - **SPACING**: 36" O.C.
- **BOTANICAL NAME**: Verbena Lilacina "De La Mina"
  - **COMMON NAME**: DE LA MINA CEDROS ISLAND VERBENA
  - **SIZE**: 1 GAL
  - **SPACING**: 60" O.C.
- **BOTANICAL NAME**: Salvia greggii 'Furman's Red'
  - **COMMON NAME**: Furman's Red Autumn Sage
  - **SIZE**: 1 GAL
  - **SPACING**: 36" O.C.
- **BOTANICAL NAME**: Cotoneaster Dammeri
  - **COMMON NAME**: BEARBERRY
  - **SIZE**: 1 GAL
  - **SPACING**: 72" O.C.
- **BOTANICAL NAME**: Phlomis fruticosa
  - **COMMON NAME**: JERUSALEM SAGE
  - **SIZE**: 1 GAL
  - **SPACING**: 36" O.C.
- **BOTANICAL NAME**: Ribes viburnifolium
  - **COMMON NAME**: EVERGREEN CURRANT
  - **SIZE**: 1 GAL
  - **SPACING**: 36" O.C.
- **BOTANICAL NAME**: Hesperaloe Parviflora
  - **COMMON NAME**: RED YUCCA
  - **SIZE**: 1 GAL
- **BOTANICAL NAME**: Aloe striata
  - **COMMON NAME**: CORAL ALOE
  - **SIZE**: 1 GAL

* O.C. = ON CENTER SPACING

Click for information on free city mulch.
FOOTHILLS Plant Images & Care Instructions

These plants are widely available at Home Improvement Stores and Nurseries.

= California Native

Trees

CALIFORNIA SYCAMORE (MULTI-TRUNK)
Platanus racemosa
Full sun, low water

TOYON (MULTI-TRUNK)
Heteromeles arbutifolia
Sun/shade, low water

Shrubs

RAY HARTMAN CALIFORNIA WILD LILAC
Ceanothus 'Ray Hartman'
Full sun, low water

TEXAS RANGER
Leucophyllum frutescens
Full sun, low water

PIGEON POINT DWARF COYOTE BRUSH
Baccharis pilularis 'Pigeon Point'
Full sun, moderate water

CANYON PRINCE WILD RYE
Leymus condensatus 'Canyon Prince'
Full sun, low water

DE LA MINA CEDROS ISLAND VERBENA
Verbena lilacina 'De La Mina'
Cool sun/ light shade, Low water

BEARBERRY COTONEASTER
Cotoneaster dammeri
Full sun, low water

JERUSALEM SAGE
Phlomis fruticosa
Full sun, low water

EVERGREEN CURRANT
Ribes viburnifolium
Sun/shade, low water

RED YUCCA
Hesperaloe parviflora
Full sun, very low water

CORAL ALOE
Aloe striata
Full sun, low water

Groundcovers

COMMON YARROW
Achillea millefolium
Full sun, moderate water

MOONSHINE YARROW
Achillea 'Moonshine'
Full sun, low water

GROUNDCOVER MYOPORUM
Myoporum parvifolium
Sun/shade, low water

Vine

YELLOW TRUMPET VINE
Macfadyena unguis-cati
Full sun, low water

Permeable Paving

DECOMPOSED GRANITE
FOOTHILLS Irrigation Plan

LEGEND

SYMBOL EQUIPMENT DESCRIPTION

EXISTING IRRIGATION MAINLINE CONNECT TO EXISTING IRRIGATION MAINLINE
PVC LATERAL PVC PIPE 3/4" - 1" SCHEDULE 40
PVC SLEEVE PVC PIPE SCHEDULE 40 SLEEVING
VALVE WIRE IRRIGATION CONTROL WIRE #18 UF
SMART CONTROLLER WEATHER BASED CONTROLLER
SENSOR RAIN/TEMPERATURE SENSOR
E N/A ELECTRICAL OUTLET
S SHRUB DRIP VALVE DRIP AUTOMATIC CONTROL VALVE ASSEMBLY
GROUNDCOVER DRIP VALVE DRIP AUTOMATIC CONTROL VALVE ASSEMBLY
ATMOSPHERIC VACUUM BREAKER ADDITIONAL BACKFLOW PREVENTION FOR TERRACE
TREE VALVE AUTOMATIC CONTROL VALVE ASSEMBLY
BLANK DRIPTUBING FOR SHRUB AREAS 1/2" BLANK FLEXIBLE TUBING
GROUND COVER DRIPTUBING INLINE DRIPTUBING WITH BUILT-IN EMITTERS
FLUSH CAP 2 BUBBLERS PER VALVE
BUBBLER FOR TREES BUBBLER

NOTE: LAYOUT SHOWN IS DIAGRAMMATIC. ADJUST TO FIT ACTUAL CONDITIONS.
# Irrigation Installation

## Symbol Legend

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Equipment</th>
<th>Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Symbol]</td>
<td><strong>EXISTING IRRIGATION MAINLINE</strong></td>
<td>CONNECT TO EXISTING IRRIGATION MAINLINE BY REPLACING EXISTING SPRINKLER VALVES WITH NEW REDUCED PRESSURE DRIP VALVES (10 GALLONS PER MIN. MAX. FLOW) USING 1&quot; PVC SCHEDULE 40 PIPE. STATIC WATER PRESSURE TO BE 45 POUNDS PER SQUARE INCH TO ACCOMMODATE THIS DESIGN.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>PVC LATERAL</strong></td>
<td>PVC PIPE 3/4&quot; - 1&quot; SCHEDULE 40 LATERAL LINES. 12&quot; BELOW GRADE.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>PVC SLEEVE</strong></td>
<td>PVC PIPE SCHEDULE 40 SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED. PLACE BELOW PAVING.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>VALVE WIRE</strong></td>
<td>IRRIGATION CONTROL WIRE #18UF ALUMINUM WIRE GAUGE DIRECT BURIAL, 6 -WIRE STRAND, BURIED 6&quot; DEEP (U.L. APPROVED).</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>WIRE NUT</strong></td>
<td>WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED).</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>SMART CONTROLLER</strong></td>
<td>WEATHER BASED CONTROLLER UTILIZING PAID WEATHER SUBSCRIPTION, RAIN/TEMPERATURE SENSOR OR WIFI. INTERIOR WALL MOUNT.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>SENSOR</strong></td>
<td>RAIN/TEMPERATURE SENSOR. MOUNT TO EAVE OF ROOF IN FULL SUN EXPOSURE AND WIRE TO CONTROLLER.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>SHRUB DRIP VALVE</strong></td>
<td>1&quot; DRIP AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE, 1&quot; FILTER AND 40 PSI REGULATOR. INSTALL 6&quot; ABOVE HIGHEST POINT. 3/4&quot; DRIP VALVE ASSEMBLIES CAN BE USED FOR FLOWS LESS THAN 5 GALLONS PER MINUTE.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>GROUND COVER DRIP VALVE</strong></td>
<td>1&quot; DRIP AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE, 1&quot; FILTER AND 40 PSI REGULATOR. INSTALL 6&quot; ABOVE HIGHEST POINT. 3/4&quot; DRIP VALVE ASSEMBLIES CAN BE USED FOR FLOWS LESS THAN 5 GALLONS PER MINUTE.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>ATMOSPHERIC VACUUM BREAKER</strong></td>
<td>3/4&quot; ATMOSPHERIC VACUUM BREAKER WITH CHECK VALVE ON DOWNSTREAM SIDE. INSTALL 6&quot; ABOVE THE HIGHEST POINT ON THE TERRACES.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>TREE VALVE</strong></td>
<td>3/4&quot; AUTOMATIC CONTROL VALVE ASSEMBLY W/ ANTI-SIPHON VALVE. INSTALL 6&quot; ABOVE HIGHEST POINT.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>BLANK DRIP TUBING FOR SHRUBS</strong></td>
<td>1/2&quot; BLANK FLEXIBLE TUBING (100' MAX. LENGTH), CONNECTED TO PVC LATERAL LINE WITH 2 MICRO-SPRAY DRIP SPRINKLERS PUNCHED INTO TUBING AT EACH SHRUB INSTALL ON-GRADE BELOW MULCH.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>MICRO-SPRAY DRIP SPRINKLERS FOR SHRUBS</strong></td>
<td>PRESSURE COMPENSATING MICRO-SPRAY DRIP SPRINKLERS (1.0 GALLON PER HOUR). TWO PER SHRUB. 300 SHRUBS CAN BE PLANTED USING A 1&quot; VALVE AT ROUGHLY 10 GALLONS PER MINUTE. 150 SHRUBS CAN BE PLANTED USING A 3/4&quot; VALVE AT ROUGHLY 5 GALLONS PER MINUTE.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>EMITTER STAKE FOR SHRUBS</strong></td>
<td>ONE Emitter Stake per Micro-Spray Drip Sprinkler connected with 6&quot; of 1/4&quot; Tubing to Blank Drip Tubing.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>GROUNDCOVER DRIP TUBING</strong></td>
<td>INLINE DRIP TUBING WITH BUILT-IN EMITTERS EVERY 18&quot; ON CENTER WITH A ROW SPACING OF 18&quot; AND AN EMITTER FLOW OF 0.6 GPH. ALL TUBING SHALL BE INSTALLED ON GRADE BELOW MULCH W/ WIRE STAKES EVERY 5&quot; ON CENTER. 2000 S.F. MAXIMUM AREA TO CREATE A FLOW OF ROUGHLY 10 GALLONS PER MINUTE. 1000 S.F. MAXIMUM AREA TO CREATE A FLOW OF ROUGHLY 5 GALLONS PER MINUTE.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>FLUSH CAP</strong></td>
<td>1/2&quot; BARB X 3/4&quot; THREAD W/ PLASTIC CAP AS A FLUSH POINT. ONE REQUIRED AT THE END OF EACH TUBING LENGTH.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>Drip Fittings</strong></td>
<td>ALL CONNECTIONS BETWEEN DRIPLINE TUBING SHALL BE MADE USING 1/2&quot; BARB X BARB FITTINGS. ALL CONNECTIONS BETWEEN DRIPLINE TUBING AND PVC SHALL BE MADE USING 1/2&quot; BARB X 1/2&quot; THREAD.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td><strong>Bubblers for Trees</strong></td>
<td>Bubbler on PVC Schedule 80 Riser, Two per Tree.</td>
</tr>
</tbody>
</table>

---

**Drip Irrigation Valve Kit comes with the following:**

- Low Flow Anti-siphon Valve—must be 6 inches above the highest drip tubing (this is not a typical sprinkler valve)
- Pressure Regulator (usually set at 30 psi)
- Filter

**Pipes include:**

- Above the ground pipe—PVC schedule 80 or copper
- Below the ground pipe - PVC schedule 40

---

[Click Here for More Information About Irrigation.]