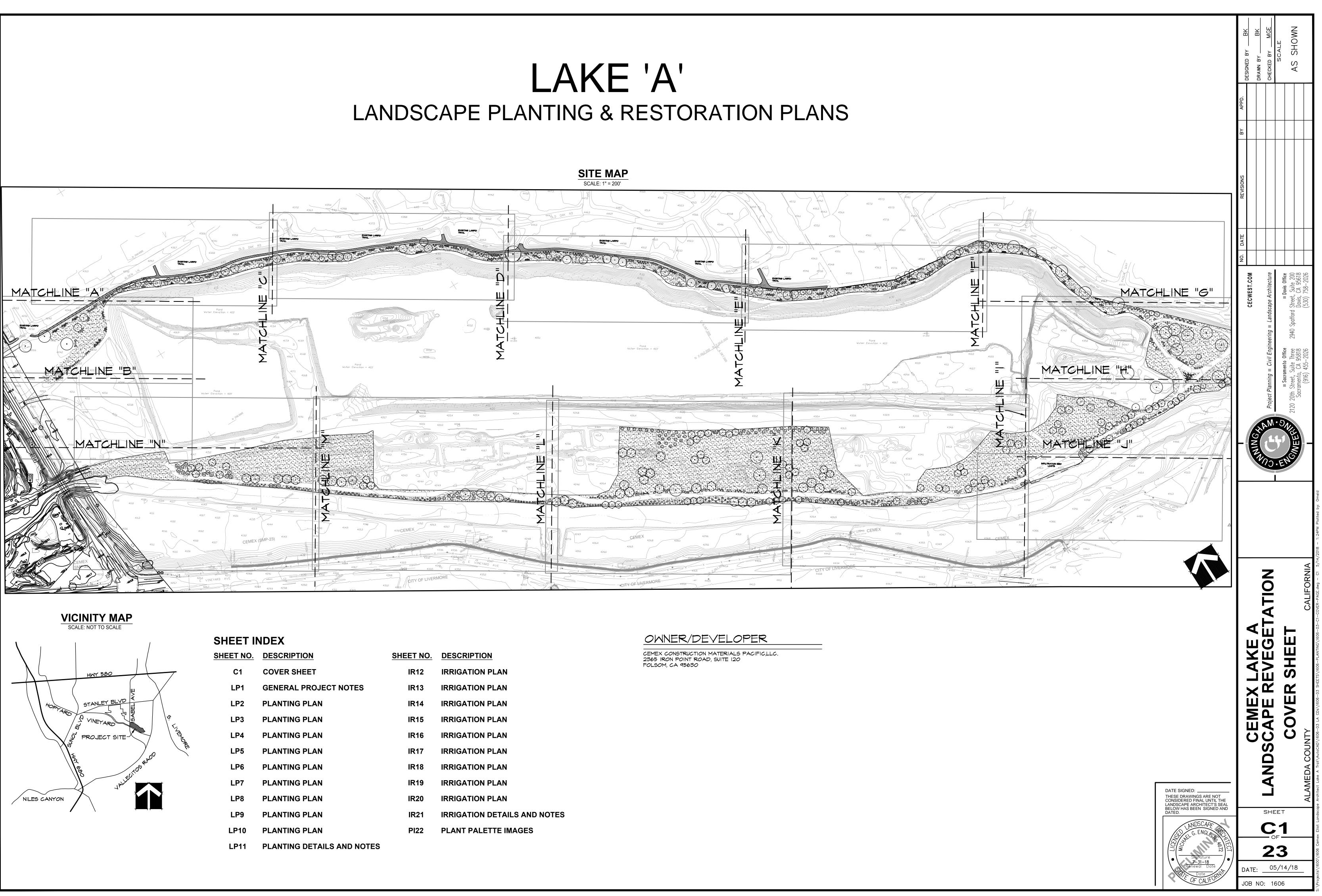
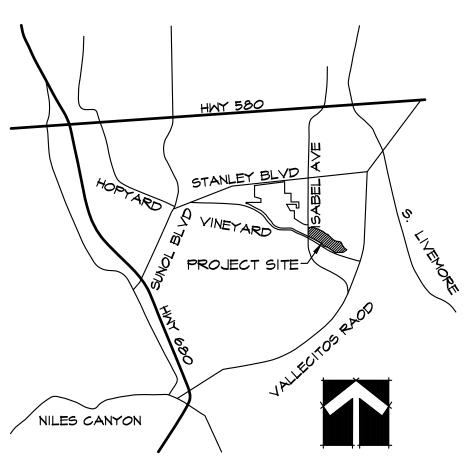




LAKE 'A'





| HEET NO. | DESCRIPTION | SHEET NO. |
|----------|-----------------------|-----------|
| C1 | COVER SHEET | IR12 |
| LP1 | GENERAL PROJECT NOTES | IR13 |
| LP2 | PLANTING PLAN | IR14 |
| LP3 | PLANTING PLAN | IR15 |
| LP4 | PLANTING PLAN | IR16 |
| LP5 | PLANTING PLAN | IR17 |
| LP6 | PLANTING PLAN | IR18 |
| LP7 | PLANTING PLAN | IR19 |
| LP8 | PLANTING PLAN | IR20 |
| LP9 | PLANTING PLAN | IR21 |
| LP10 | PLANTING PLAN | PI22 |
| | | |

GENERAL PLANTING SPECIFICATION

PART 1 GENERAL

1.01 DESCRIPTION

A. This section covers the contract items Treepot Installation, Deepot Installation, Tree Protection.

- 1.02 DEFINITIONS
- A. The terms referenced herein are defined as follows:
- Weeds: Vegetative growth including all invasive grasses, invasive forbs, and other invasive herbaceous plants and invasive woody vegetation that has not been planted and competes for environmental and climatic elements necessary for healthy plant growth of installed plants, such as soil moisture and sunlight.
- 2. Woody Transplants: Woody transplants are plants with a woody structure, not herbaceous, such as tree and shrub species, which contain a viable root structure containing soil around the roots. 3. Herbaceous Transplants: Herbaceous transplants are plugs taken directly from the field along with, at minimum, 6-inch cubes of
- soil with their roots. 4. Friable: Friable soil is soil that is pulverized to the degree it is workable without clumps. It is of such size as to compact around the
- plant's root structure without voids. 5. Pesticides: Pesticides are defined herein as all herbicides, insecticides, fungicides, nematocides, rodenticides, and miticides.
- 1.03 INSPECTIONS A. The Contractor shall notify the Landscape Architect at least (5) five days prior to each anticipated inspection. The following are
- key inspection events: Plant Inspection at Work Site: The Landscape Architect shall inspect the plant material upon delivery at the job site (and prior to installation) for conformity to the ANSI Z60.1 (2004), Nursery Stock. All plants shall have a normal habit of growth and shall be sound, healthy, vigorous and free of insect infestations, plant diseases, sun scalds, fresh abrasions of the bark, excessive abrasions or other objectionable disfigurement. Tree trunks shall be sturdy and have well hardened systems and vigorous and fibrous root systems, which are not root or pot-bound. The size of the plants shall correspond with that normally expected for species of commercially available nursery stock and as specified on the drawings. If sample plants inspected are found to be defective, the Landscape Architect reserves the right to reject the entire lot of plants.
- 2. All plants not conforming to the requirements in these Specifications, shall be considered defective and such plants, whether in place or not shall be marked as rejected and immediately removed from the project site and replaced with conforming plants. Under no conditions shall there be any substitutions of plants or sizes except with the written approval of the Landscape Architect.
- 3. Plant Installation: Plant installation will be inspected by the Landscape Architect for conformance with the plans. 4. Installation Acceptance Inspection: Installation acceptance shall be initiated only after all collective project requirements have been completed, which include, but are not limited to: site preparation, irrigation, hydroseeding, infrastructure, planting, and all other associated work.
 - a. Preliminary Installation Acceptance Inspection: Prior to the completion of the Installation Period, a preliminary inspection will be held by the Landscape Architect. Time for the inspection shall be requested in writing by the Contractor at least 5 working days prior to desired date. The quantity and type of plants installed, clean up requirements and the acceptability of the plants installed, in accordance with the requirements stated herein, shall be determined and noted in writing.
 - b. Final Installation Acceptance Inspection: A final inspection shall be requested in writing by the Contractor at least 5 working days prior to the desired date. At the final inspection, the Landscape Architect will evaluate the deficiencies noted in the preliminary inspection, to ensure they have been corrected for each individual site. Time for the inspection shall be established in writing. An Installation Acceptance will be given after all installation requirements have been satisfactorily completed for each individual site and approved by the Landscape Architect. A written acceptance by the Landscape Architect shall constitute the beginning of the Establishment Period after the sites have been inspected individually and approved by the Landscape Architect.
- 1.04 WARRANTY

A. Plants shall be guaranteed to be healthy and in a vigorous growing condition at the time of Installation Acceptance, as determined by the Landscape Architect.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Delivery:
- 1. The Contractor will provide the Landscape Architect or any other receiving authority 7 days' advance notice of exact date of availability of the Contractor furnished plants.
- 2. Contractor shall load, transport, offload and protect plants from the point of pickup to points of installation. 3. The Contractor and Landscape Architect shall perform a joint inspection and inventory of the condition of the plants at the time the Contractor takes delivery of the plants.
- 4. Plants shall be protected after delivery to prevent desiccation of the plants or damage to the roots or balls. Plants shall be transported in covered vehicles capable of providing protection from sun and wind damage. Branches of plants shall be protected by tying-in the branches and covering exposed branches.
- B. Storage: 1. Container-Grown Plants: Container plants not installed on the day of arrival at the site shall be stored and protected in areas approved by Landscape Architect. Plants shall be protected from exposure to wind and shall be shaded from the sun. Covering that will allow air to circulate and prevent internal heat from building up shall be provided. Plants shall be kept in a moist condition by watering with a fine mist spray until planted.
- Other Materials: Soil amendments shall be stored in dry locations away from contaminants. Storage of materials shall be in areas designated or as approved by the Landscape Architect. C. Handling:
- 1. Care shall be taken to avoid injury to plants. Materials shall not be dropped from vehicles. Container-grown plants shall be handled by the container and by the trunk or stems.
- 1.06 TIMING AND CONDITIONS
- A. Planting operations shall be performed only during periods when beneficial results can be obtained. When excessive moisture, winds, or other unsatisfactory conditions prevail, the work shall be stopped when directed by the Landscape Architect. The Contractor shall schedule planting in the mornings to avoid stressing plants during installation, if the planting schedule calls for installation when the temperature is expected to be 90 degrees Fahrenheit or greater. When special conditions warrant a variance to the planting operations, proposed planting times shall be submitted in writing to, and approved by, the Landscape Architect. The Contractor shall be prepared to install plants at the earliest time when all conditions (weather, moisture, temperature, tides and river flows, etc.) are acceptable.
- B. Installation Period: The Installation Period shall take place as directed by Landscape Architect. The installation period shall continue until all requirements indicated in this specification and accompanying drawings are completed and approved and the Landscape Architect gives a written acceptance.
- PART 2 PRODUCTS

2.01 PLANTS

A. Treepots and deepots.

PART 3 EXECUTION

- 3.01 PLANT MATERIAL INSTALLATION
- A. Site preparation, layout, and irrigation are to be completed prior to planting.
- Treepot Installation: The planting pit for container material shall be dug or augered and shall have a size as shown. Plant pits shall be dug or augered to produce uncompacted vertical sides and bottoms. The pit shall be of a minimum width equal to twice the width of the container. The method of creating the pit shall not cause soil erosion.
- Deepot Installation: The planting pit for container material shall be dug or augered and shall have a size as shown. Plant pits shall be dug or augered to produce uncompacted vertical sides and bottoms. The pit shall be of a minimum width equal to twice the width of the container. The method of creating the pit shall not cause soil erosion.
- 3.02 SETTING, AND BACKFILLING
- A. Setting Container Plants: Provide and remove container plants from their containers without damage to the plant or root system. Place plants as shown in the Drawings. Set plant stock upright in relation to surrounding grade so that the root crown is slightly above the surrounding soil or as shown. Backfill carefully, with existing soil, and work around the rootball. Tamp soil so that the plant is secure and at the proper grade.
- 3.03 TREE PROTECTION
- A. Existing trees with a trunk diameter 4 inches or greater in DBH (Diameter at Breast Height). Trees and shrubs with smaller multiple stems and a combined dbh equal to 4 inches or larger shall count as single trees and shall be protected as described above
- 3.04 MAINTENANCE DURING INSTALLATION PERIOD
- A. General Maintenance: Maintain installed plants in a healthy growing condition. Maintenance shall begin immediately after each plant is installed and continue throughout the Installation Period. The maintenance includes watering, weeding, pruning, straightening, adjusting, repairing, and other necessary operations to ensure each plant is maintained in a healthy growing condition. An 18-inch-radius area immediately around the plant shall be kept free of weeds, grass, and other undesired vegetation. Plants shall be checked for settlement and shall be reset to proper grade as necessary. Run-off, puddling, and wilting shall be prevented and corrected as necessary. Weeds growing through erosion control fabric shall be kept below 3 inches in height. Weeding will include the removal of oats that typically overtake in winter or when newly planted sites are watered. The oats shall be mowed as often as necessary to allow ultraviolet light to reach new plantings as necessary to avoid impact to native grasses or other plantings installed under the contract.
- B. The Contractor is responsible for its operation, damage, and repair for the duration of the Installation and Establishment periods. C. Application Frequency, Rate, and Duration: Water installed plants immediately after planting and continuously until an Installation Acceptance is given in writing by the Landscape Architect.
- 3.05 RESTORATION AND CLEANUP
- A. Access roads, pavements, and facilities that have been damaged from the planting operation shall be restored to original condition at the Contractor's expense. Excess and waste material from the planting operation shall be removed and disposed of off-site according to all federal, State, and local codes. Adjacent paved areas shall be cleared.

ENVIRONMENTAL PROTECTION SPECIFICATION

PART 1 GENERAL

1.01 DESCRIPTION

- responsible for any violations as prescribed by law.
- the work site if ordered.
- environmental protection and/or mitigation measures specified.

1.03 SENSITIVE SPECIES

- of written approval from the Landscape Architect.
- Landscape Architect.
- inches and impacted areas shall be re-seeded with native grass seed mix.

1.04 ENVIRONMENTAL RESTRICTIONS

- A. The following environmental restrictions apply to the work sites:

- disposal site at least weekly by the Contractor. The work sites shall be policed daily by Contractor's personnel and monitored by inspectors or environmental personnel.
- 3. Vehicles and equipment use shall be restricted to existing roads to the maximum extent possible.

1.05 CULTURAL RESOURCES

- recreationalists

1.06 AIR QUALITY CONTROL PLAN

- fuaitive dust.
- C. The Contractor shall control fugitive dust by:
- Enforcing speed limits on project construction areas.

1.07 WATER QUALITY CONTROL PLAN

- do not degrade water quality.
- 3. Minimize erosion during stormy weather at the work site.
- 4. Use methods for post construction erosion control.
- 5. Areas of disturbance with slopes toward a stream or drainage shall be stabilized to reduce erosion potential.
- applicable.

1.08 FIRE PREVENTION AND CONTROL PLAN

- spark arrestors 5. Welding sites shall include fire prevention provisions.
- employees and the Engineer daily.
- 7. Vehicles are restricted to the work site unless otherwise allowed for fire control procedures. shall be utilized to contain the fire or protect a structure from damage.

A. This section describes the requirements for the conservation and protection of environmental resources at the work site during and as the result of construction activities. except as otherwise specified. State and federal environmental statutes, rules, regulations, and policies have been enacted to protect environmental resources by ensuring that significant environmental impacts of projects are identified and adequate avoidance, minimization and mitigation measures are incorporated into the project. Environmental protection affects several resources areas, including biological resources, air quality and water quality. Potential impacts may occur through the generation of dust emissions, discharges of pollutants, disturbances to terrestrial and aquatic areas, additional traffic, and degradation of resources. Construction activities shall be in accordance with environmental and regulatory permits issued for the project, and the Contractor may be held

B. Pursuant to Document 00706 - Control of Work, the Contractor shall be responsible for the sequence and control of construction activities, selection and maintenance of equipment, and the conduct of the Contractor's employees at the work site to ensure that specific mitigation measures to reduce or eliminate identified environmental impacts are implemented.

C. Pursuant to Document 00706 - Control of Work, Contractor's personnel failing or refusing to carry out requirements of this section in the opinion of the Landscape Architect shall be removed from

D. The Contractor shall minimize construction activities causing disturbances to vegetation or wildlife. Construction activities may be affected in various ways that include, but are not limited to, the

A. The construction activities have the potential to impact sensitive biological resources at the work site.

B. No construction shall occur within 1/4 mile of an active Swainson's hawks nest unless specific provisions have been provided by California Department of Fish and Game. C. Native trees 4 inches in DBH (Diameter at Breast Height) or greater shall be protected Trees with multiple stems smaller than 4 inches shall be counted as one tree with a DBH equal to the combined DBH of all stems. If this combined DBH equals to 4 inches or more they shall be protected in the same manner as trees with a single trunk 4 inches or larger. Native trees include but are not limited to oaks, willows, Oregon ash, white alder, boxelder, sycamore, cottonwood, walnut, buttonbush, valley elderberry and others as directed by Engineer or Biological Monitor. D. No vehicles or equipment shall be operated or materials stored within the dripline areas of existing trees to remain. If these activities are necessary for the completion of the work, the Contractor shall place 8'x4'x1 1/8 plywood or 6'x6'x1/2" steel plate over the entire ground area within the tree dripline. Any activity within dripline areas of existing trees to remain shall begin only upon receipt

E. Native shrubs and trees smaller than 4 inches in DBH shall be protected to the maximum extent practicable.

F. Should any tree removal (native or non-native) be necessary for construction access, safety or other reasons, Contractor shall notify Landscape Architect a minimum of 7 calendar days prior to planned tree removal. Contractor shall comply with required protocol for removal of any trees (native and non-native). No trees shall be removed prior to receipt of written approval from

G. Invasive exotic trees and other invasive exotic plants shall be removed with their entire root system and promptly removed from the project site. H. Areas impacted by any activity related to this Project shall be restored to pre-construction condition. As a minimum, soil shall be decompacted by disking or scarifying to a minimum depth of 6

1. No pets, camping, fishing, firearms, or any other use of the work site area will be allowed. Harassment, killing, or destruction of dens or burrows of wildlife species is strictly prohibited. Contractor's employees shall not be allowed at the work site during nonworking hours. 2. Food-related trash, such as wrappers, cans, bottles and scraps, shall be placed in closed containers and removed daily from the work sites. Trash or garbage shall be removed to a county approved

4. Construction-related vehicles shall not exceed 20 mph on straight and level roads, with a 10 mph speed limit in areas of steepness or with curves on the work sites.

A. The construction activities could affect cultural resources such as historically significant resources, local land uses, commercial establishments, or the activities of local landowners, residents, or

B. The Contractor shall reduce potential adverse impacts to cultural resources that may be associated with construction by implementing the preservation of culturally significant resources in

accordance with the National Historic Preservation Act of 1966, (16 U.S.C.470).

C. If any potential paleontological, archaeological or historic sites are uncovered, the Landscape Architect and Owner will be notified prior to proceeding with the work affected. If necessary the Landscape Architect will suspend work as specified in Document 00705 - Prosecution of Work, Paragraph 7, Suspension of Work. The Landscape Architect will provide for an initial field evaluation of the site within seventy-two (72) hours after receiving notification of Contractor's discovery.

D. If human remains are exposed, all construction activities shall be halted in the immediate vicinity until the County Coroner has assessed the remains.

A. The construction activities could cause localized, fugitive dust from construction equipment, and trucks for hauling.

B. Fugitive dust shall be minimized by watering, applying chemical suppressant, or implementing other dust control measures as approved and consistent with laws and regulations. One or more of the above control measures shall be used sufficiently to prevent fugitive dust from leaving the work site. Increased application of control measures shall be required whenever conditions cause

1. Minimizing areas cleared to facilitate dismantling and removal, such as storage areas, staging areas, stockpile areas and vehicle parking.

D. Construction emissions occurring within the jurisdictional area of the Bay area shall also be controlled as described in the December 9, 2005 "Bay Area Recommended Mitigation for Reducing Emissions from Heavy-Duty Construction Vehicles" as included in Document 00300 - Information Available.

E. The construction activities have potential for resulting in localized, impacts to water quality due to sediment, silt, fuel or oil leaks or spills at fuel or oil transfer areas, erosion and runoff. F. This plan shall include provisions for water quality protection and for implementing Best Management Practices (BMPs) chosen to mitigate for construction activity pollutants. The Contractor shall implement this plan by providing BMPs and conforming to the following provisions.

1. Settleable solids, oils, concrete wash water, and grease shall be contained to prevent their release into the environment. Flocculents may be used on solids that do not readily settle, as long as they

2. Use methods for controlling erosion on designated roads or any additional access roads or platforms or temporary equipment storage areas.

6. Exposed areas shall be stabilized with temporary mulching, or other erosion control methods during and after land disturbance activities.

7. Contractor shall comply with the terms and conditions of the 401 Water Quality Certification, including requirements for sampling and analysis of turbidity and settleable solids during in-water work, if

1. No fires will be allowed at the work site. Smoking will be allowed only in areas designated for smoking which shall be cleared of vegetation or in enclosed vehicles. Cigarette butts are to be disposed of in car ashtrays or other approved disposal containers and dumped daily in a proper receptacle off the work site. 2. The Contractor shall be responsible for maintaining appropriate fire suppression equipment at the work site including an all-wheel drive water truck or fire truck with a water tank of at least 3,000 gallon capacity. Fire extinguishers, shovels and other fire fighting equipment shall be available at work sites and on construction equipment. Each vehicle on the right of way shall be equipped with a minimum 20 pound (or two 10 pound) fire extinguisher(s) and a minimum of 5 gallons of water in a fire fighting apparatus (e.g., bladder bag). 3. At the work site, a sealed fire toolbox shall be located at a point accessible in the event of fire. This fire toolbox shall contain: one back-pack pump-type extinguisher filled with water, two axes, two McLeod fire tools, and enough shovels so that each employee at the work site can be equipped to fight fire. 4. Gasoline powered construction equipment with catalytic converters shall be equipped with shielding or other acceptable fire prevention features. Internal combustion engines shall be equipped with

6. The Contractor shall maintain contact with local fire fighting agencies throughout the fire season for update on fire conditions, and such fire conditions shall be communicated to the Contractor's

8. Disturbance to the terrestrial or aquatic environment through the use of heavy construction equipment shall be kept to a minimum. If a fire should start, the appropriate fire protection agencies responsible shall be contacted immediately. Hand crews, fire fighting water trucks or other fire control measures may be used as a first defense. Only as required, heavy construction equipment

PLANTING ESTABLISHMENT SPECIFICATION

PART 1 GENERAL

1.01 DESCRIPTION

1.02 REFERENCES

A. American National Standards Institute (ANSI) - ANSI Z60.1 (2004), Nursery Stock.

- 1.03 DEFINITIONS
- A. The terms referenced herein are defined as follows:
- sunlight.
- mowing site for access and fire control and grass seeding.
- 3. Infrastructure: Includes access roads, fences and gates, and signs.
- rodenticides, and miticides.
- 1.04 INSPECTIONS
- inspection may be waived solely at the direction of the owner.
- and coordinated by the Contractor.
- 2. Final Inspection and Acceptance: The final inspection shall consist of a preliminary final and a final.
- Landscape Architect within 30 days following the written Acceptance of Establishment Period.
- 1.05 WARRANTY

1.06 TIMING AND CONDITIONS

- Installation Acceptance has been given in writing by the Landscape Architect. 1.07 INVASIVE WEED CONTROL
- these weedy species, native plants are to be planted on site to increase the diversity of the vegetation on site and increase the habitat value for animals such as deer and birds that frequent the area.
- **1. Identify species of concern:** Contractor shall identify and develop a list of invasive exotic species found on site. 2. Prevent the spread of invasive plants during restoration treatments:
- 3. Prioritize:
- 4. Control invasive species before work begins on the ground: any restoration work begins.
- 5. Don't transfer seeds to the restoration site:
- 7. Promote the growth of native species:

too wet.

- 8. Use weed-free seed when re-seeding after treatment:
- Contractor to verify that the seed mix is certified weed-free.
- Manual/mechanical methods minimizes soil disturbance.
- have more impact by helping to exhaust the resources of the taproot over time. Cutting shall be done during non germination periods as if done while plants are producing seed will promote dispersal. base.
- 11. Chemical control: considered before utilizing herbicides; proper training is also essential. treating the cut stems did not increase the effectiveness of the herbicide. Cutting prior to spraying does not increase the effectiveness of the treatments.

1.08 WATERING

A. This section covers Plant Establishment, which includes maintaining plants, watering, weeding, fertilizing and plant replacement.

1. Weeds: Vegetative growth including invasive grasses, invasive forbs, and other invasive herbaceous plants and non-native woody vegetation that has not been planted and competes for environmental and climatic elements necessary for healthy plant growth of installed plants, such as soil moisture and

2. Weed Control Program: The weed control program shall consist of controlling weeds on the project site. Weeding immediately around installed plants,

4. Pesticides: Pesticide is used herein as a generic term, which most often refers to herbicides, but also includes insecticides, fungicides, nematocide,

A. Inspections of plant establishment shall be accomplished according to the schedule and conducted jointly with the Landscape Architect and the Contractor. Inspections shall be arranged by the Contractor according to the following schedule and shall give at least 14 calendar days notice to the Landscape Architect. Inspections shall be for the purpose of checking adherence to the specifications and to the drawings. Corrections necessitated as a result of the inspections will be put in writing by the Landscape Architect and corrected by the Contractor within 14 calendar days' of such notice. The requirements for

1. Seasonal Inspections: Once per month the Landscape Architect and the Contractor shall make joint periodic inspections to the site(s). Watering deficiencies shall be corrected within 1 calendar day of the inspection. Maintenance work deficiencies shall be corrected by the Contractor within 14 calendar days of the inspection. Plants determined to be dead at these inspections need not be replaced at this time. Periodic inspections will be initiated

a. Preliminary Final Inspection: Prior to the completion of the Establishment Period, a preliminary final inspection shall be held by the Landscape Architect. The quantity and type of plants installed and the acceptability of the plants installed, in accordance with the requirements stated herein, shall be determined and noted in writing. A punch list of items to be corrected by the Contractor prior to the final inspection shall be determined at this time.

b. Final Inspection: The last inspection shall serve as the final inspection. At the final inspection, the Landscape Architect will evaluate the deficiencies noted in the preliminary inspection to determine if they have been satisfactorily corrected. The Contractor shall submit the final report and record to the

c. Acceptance of Establishment Period: After establishment items and cleanup have been satisfactorily completed, as determined by the Landscape Architect, the Landscape Architect will issue an Acceptance of Establishment Period in writing. Partial acceptance of any item or combination of items will not be given. A written acceptance by the Landscape Architect shall constitute the completion of the Establishment Period.

A. Plant material and infrastructure installed under this Contract shall be guaranteed against inferior workmanship or improper establishment, as determined by the Landscape Architect. Identified deficiencies shall be replaced by the Contractor. Acts of Nature (not including normal seasonal inundation) and vandalism will not be the responsibility of the Contactor. In such cases, the Contractor shall notify the Landscape Architect.

A. Maintenance and establishment operations shall be performed only during periods when beneficial results can be obtained. When excessive winds or other unsatisfactory conditions prevail, the work shall be stopped as directed. The Contractor shall schedule resetting and replanting in the mornings to avoid stressing plants during installation if the temperature is expected to be 90 degrees F or greater. When special conditions warrant a variance to the planting operations, proposed planting times shall be submitted in writing to, and approved by, the Landscape Architect. The Contractor shall be prepared to install plants at the earliest time when conditions (weather, moisture, temperature, tides and river flows, etc.) are acceptable.

B. Establishment Period: The Establishment Period begins when items specified in the specifications and shown have been satisfactorily completed and an

A. The Contractor shall develop a long term goal or weed control program for controlling invasive plant species on site using the following guidelines. The long-term goal for controlling invasive plant species will improve habitat diversity with the removal of non-native and invasive species. After removal of

The management plan shall include a survey of species and locations of invasives. Management efforts should focus on preventing and reducing disturbance favorable to further spread. This is a first step in a larger restoration process that will require other actions to favor re-colonization by native species.

Contractor must use precautions to avoid the colonization of invasive, exotic plant species on site during construction activities or planting. Where possible, areas heavily infested with invasive should not undergo restoration treatments until the infestations have been controlled

Where invasive exotics are present on part of a site, thin areas without infestations first, and control existing populations of invasives, otherwise invasives will spread into areas that are currently weed-free. Ensure that heavily trafficked sites, such as roads, staging areas, and log landings, have no invasives

If invasive plants are present in only small numbers in or around the restoration site, it may be feasible and is certainly advisable to eradicate them before

The seeds of many invasive species are easily carried by vehicles, field workers, and animals. Avoid their spread by washing the undercarriage of field vehicles; avoiding carrying mud on vehicles; and having field workers wear gaiters when walking through areas infested with invasive species. 6. Minimize soil disturbance during restoration thinning: Contractor to limit the extent of the area traveled by vehicles and by not working when soils are

Contractor to seed with native species seed mix as per landscape planting plan and planting legend to slow the spread of invasive exotics.

10. Methods of Control: Contractor to determine best method of control after inspection and identifying invasive species.

Contractor may control invasive weed species through manual and mechanical means such as pulling, mowing and mulching. Manual methods are most effective when infestations are light and locally restricted to groups. Digging out individual plants by hand is preferred to plowing or bulldozing because it

Cutting, mowing, and chopping will temporarily reduce the height of plants within a stand to promote native plant growth and establishment, however, intervals between cuts must be short as these techniques leave the roots intact, alive, and ready to support regrowth of shoots. Repeated cuts may

Weeding if done by mowing, shall be used on larger portions of the site, outside the drip line associated with existing trees which will control larger quantities of invasive species. Weed trimming or hand weeding will be required around individual plantings and within existing tree cover to ensure protection of new plantings during establishment. Weeding around individual plant material shall be removed a minimum of 18" radius at each plant

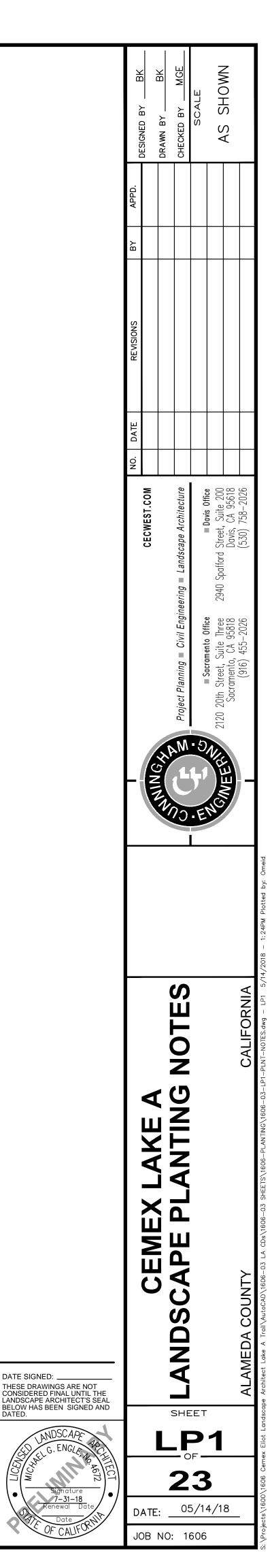
Contractor may consider using herbicides if necessary. Herbicides are not appropriate for all situations, but they can be highly effective in controlling some invasive exotics, particularly if other control methods have failed. A variety of ecological, regulatory, and social concerns must be weighed and

A 95 to 100 percent kill can be achieved when amine and ester formulations of triclopyr (Garlon 3A® and Garlon4®, respectively) were applied in early spring at rates of 6 lbs/100 gallons water (1 lb active ingredient/acre). Lower concentrations (3.0 and 4.5 lbs/100 gallons) of both the amine and ester formulations are less effective, and all treatments will be less effective when administered in late summer rather than early spring. Cutting stands and

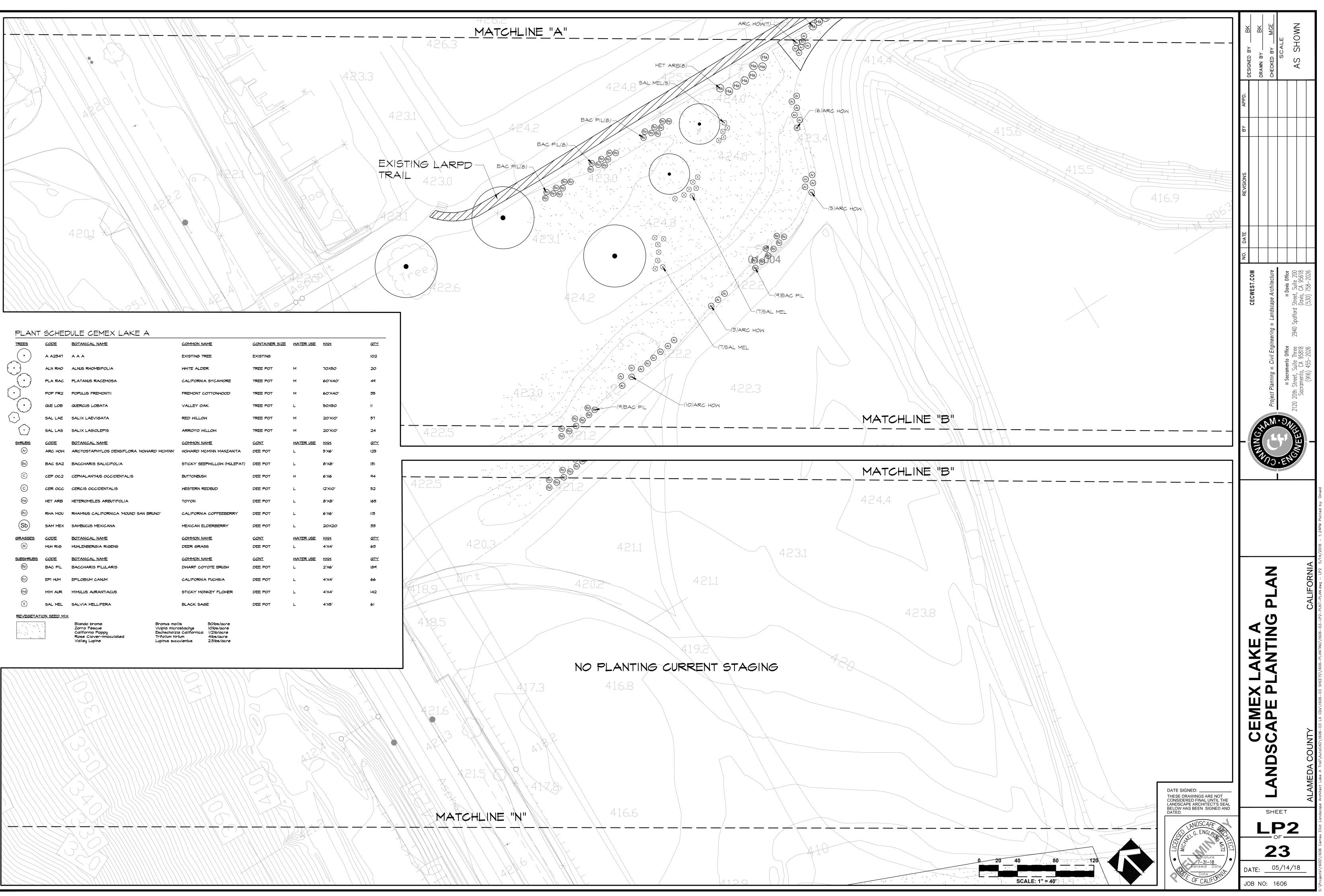
Glyphosate (as Roundup®) sprayed in spring at the manufacturers recommended rate has been recorded to reduced cover 75 to 80 percent.

A. Operation of Irrigation System: The Contractor shall water the plants throughout the Establishment Period.

B. Watering Frequency, Rate, and Duration: The Contractor shall provide and water the newly installed plants during the Establishment Period. Watering shall start at the earliest time during the required months following Installation Acceptance of plants installed under this contract and continue through the duration of the Establishment Period. The Contractor shall be responsible for ensuring the plants receive water during the transition between the Installation and Establishment Periods and during the times specified. Additional applications shall be required during December through February, if a minimum of one-half (0.5) inch of precipitation does not fall on the plants during any 6-week period, with no additional cost to the Landscape Architect. Water shall not be applied at a rate that will cause erosion, damage the plant, or cause runoff. Wet soil to a minimum depth of 18 inches. The following irrigation schedule is intended to be a minimum. The Contractor shall apply sufficient water to keep the installed plants and grasses growing vigorously.



DATE SIGNED: _____

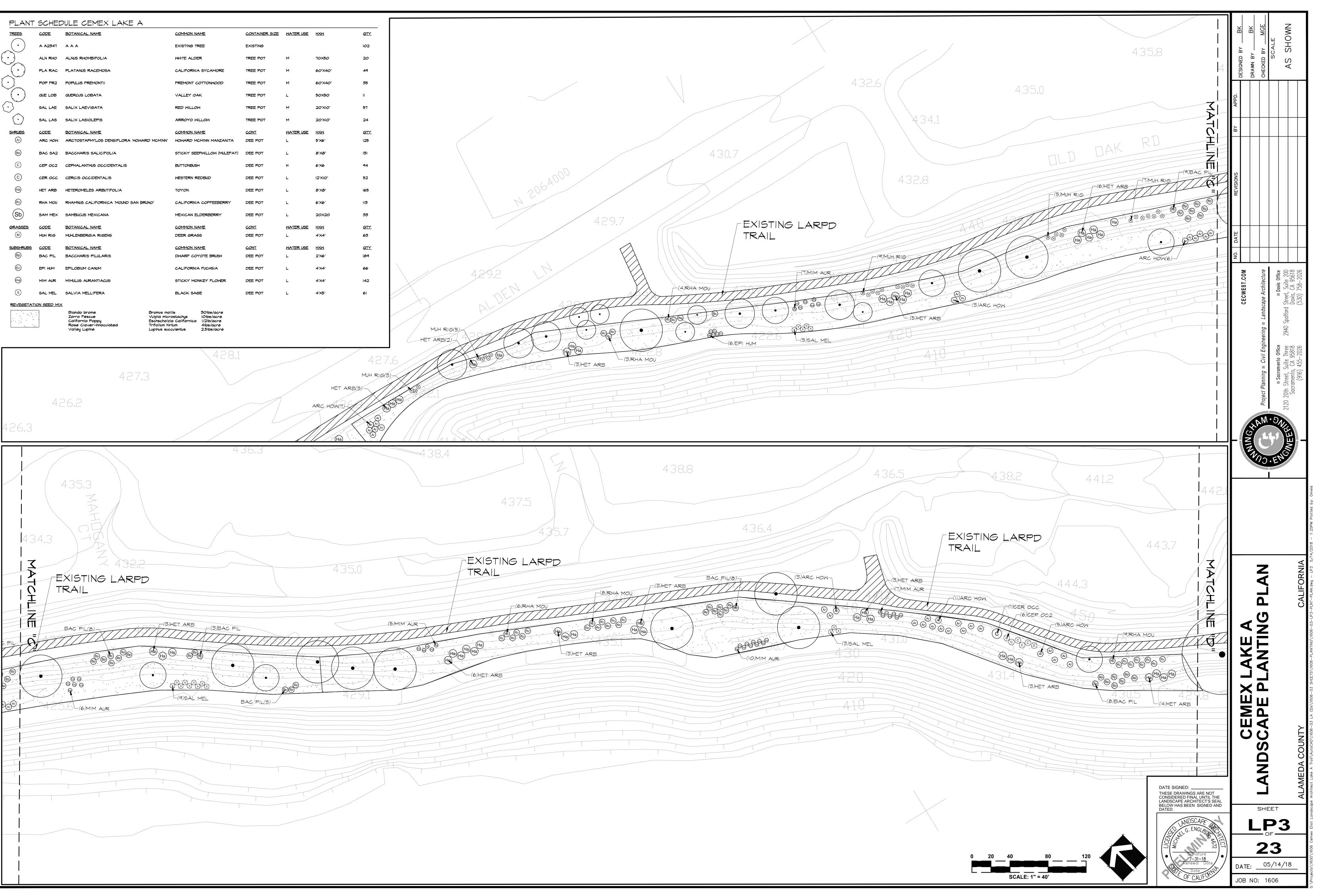


| REES | <u>CODE</u> | BOTANICAL NAME | COMMON NAME | CONTAINER SIZE | WATER USE | HXM | <u>aty</u> |
|------------|-------------|---|-----------------------------|----------------|-----------|---------|------------|
| (\cdot) | A A2347 | AAA | EXISTING TREE | EXISTING | | | 102 |
| } | ALN RHO | ALNUS RHOMBIFOLIA | WHITE ALDER | TREE POT | м | 70X50 | 20 |
| · | PLA RAC | PLATANUS RACEMOSA | CALIFORNIA SYCAMORE | TREE POT | м | 60'X40' | 49 |
| | POP FR2 | POPULUS FREMONTII | FREMONT COTTONWOOD | TREE POT | м | 60'X40' | 35 |
| \cdot | QUE LOB | QUERCUS LOBATA | VALLEY OAK | TREE POT | L | 50×50 | Ш |
| | SAL LAE | SALIX LAEVIGATA | RED WILLOW | TREE POT | м | 20'XIO' | 57 |
| \bigcirc | SAL LAS | SALIX LASIOLEPIS | ARROYO WILLOW | TREE POT | м | 20'XIO' | 24 |
| RUBS | CODE | BOTANICAL NAME | COMMON NAME | CONT | WATER USE | HXM | <u>aty</u> |
| Ar | ARC HOW | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN' | HOWARD MCMINN MANZANITA | DEE POT | L | 5'X6' | 125 |
| Bs | BAC SA2 | BACCHARIS SALICIFOLIA | STICKY SEEPWILLOW (MULEFAT) | DEE POT | L | 8'X8' | 131 |
| © | CEP 0C2 | CEPHALANTHUS OCCIDENTALIS | BUTTONBUSH | DEE POT | н | 6'×6 | 94 |
| C | CER OCC | CERCIS OCCIDENTALIS | WESTERN REDBUD | DEE POT | L | 12'XIO' | 52 |
| Ha | HET ARB | HETEROMELES ARBUTIFOLIA | TOYON | DEE POT | L | 8'×8' | 165 |
| Rc | RHA MOU | RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' | CALIFORNIA COFFEEBERRY | DEE POT | L | 6'X6' | 113 |
| Sb | SAM MEX | SAMBUCUS MEXICANA | MEXICAN ELDERBERRY | DEE POT | L | 20X20 | 33 |
| RASSES | CODE | BOTANICAL NAME | <u>COMMON NAME</u> | CONT | WATER USE | HXM | <u>aty</u> |
| M | MUH RIG | MUHLENBERGIA RIGENS | DEER GRASS | DEE POT | L | 4'X4' | 63 |
| BSHRUBS | CODE | BOTANICAL NAME | COMMON NAME | CONT | WATER USE | HXM | <u>aty</u> |
| Вр | BAC PIL | BACCHARIS PILULARIS | DWARF COYOTE BRUSH | DEE POT | L | 2'X6' | 189 |
| EC | EPI HUM | EPILOBIUM CANUM | CALIFORNIA FUCHSIA | DEE POT | L | 4'X4' | 66 |
| ma | MIM AUR | MIMULUS AURANTIACUS | STICKY MONKEY FLOWER | DEE POT | L | 4'X4' | 142 |
| S | SAL MEL | SALVIA MELLIFERA | BLACK SAGE | DEE POT | L | 4'×5' | 61 |
| EVEGETAT | ION SEED MI | × | | | | | |



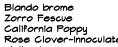
| PLANT | SCHED | DULE CEMEX LAKE A | | | | | | | |
|----------------|-----------------|--|---|-------------------------------|----------------|-----------|---------|------------|-------|
| TREES | CODE | BOTANICAL NAME | COMM | ION NAME | CONTAINER SIZE | MATER USE | HXM | <u>aty</u> | |
| \cdot | A A2347 | AAA | EXISTI | ING TREE | EXISTING | | | 102 | |
| | ALN RHO | ALNUS RHOMBIFOLIA | WHITE | ALDER | TREE POT | м | 70X50 | 20 | |
| | PLA RAC | PLATANUS RACEMOSA | CALIF | ORNIA SYCAMORE | TREE POT | м | 60'X40' | 49 | |
| | POP FR2 | POPULUS FREMONTII | FREM | ONT COTTONWOOD | TREE POT | м | 60'X40' | 35 | |
| | QUE LOB | QUERCUS LOBATA | VALLE | EY OAK | TREE POT | L | 50×50 | II | |
| \odot | SAL LAE | SALIX LAEVIGATA | RED H | NILLOW | TREE POT | м | 20'XIO' | 57 | |
| \bigcirc | SAL LAS | SALIX LASIOLEPIS | ARRO | YO WILLOW | TREE POT | м | 20'XIO' | 24 | |
| SHRUBS | CODE | BOTANICAL NAME | COMM | ION NAME | CONT | WATER USE | HXM | <u>aty</u> | |
| Ar | ARC HOW | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MC | MINN' HOWAI | RD MCMINN MANZANITA | DEE POT | L | 5'×6' | 125 | |
| Bs | BAC SA2 | BACCHARIS SALICIFOLIA | STICK | Y SEEPWILLOW (MULEFAT) | DEE POT | L | 8'X8' | 131 | |
| C | CEP 0C2 | CEPHALANTHUS OCCIDENTALIS | BUTTO | DNBUSH | DEE POT | н | 6'X6 | 94 | |
| C | CER OCC | CERCIS OCCIDENTALIS | WESTE | ERN REDBUD | DEE POT | L | 12'XIO' | 52 | |
| Ha | HET ARB | HETEROMELES ARBUTIFOLIA | TOYO | N | DEE POT | L | 8'X8' | 165 | |
| Rc | RHA MOU | RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' | CALIF | ORNIA COFFEEBERRY | DEE POT | L | 6'×6' | 113 | |
| Sb | SAM MEX | SAMBUCUS MEXICANA | MEXIC | AN ELDERBERRY | DEE POT | L | 20X20 | 33 | |
| <u>GRASSES</u> | CODE | BOTANICAL NAME | <u>COMM</u> | ION NAME | <u>CONT</u> | WATER USE | HXM | <u>QTY</u> | |
| M | MUH RIG | MUHLENBERGIA RIGENS | DEER | GRASS | DEE POT | L | 4'X4' | 63 | |
| SUBSHRUBS | CODE | BOTANICAL NAME | COMM | ION NAME | CONT | WATER USE | HXM | <u>aty</u> | |
| Вр | BAC PIL | BACCHARIS PILULARIS | DWAR | F COYOTE BRUSH | DEE POT | L | 2'X6' | 189 | |
| EC | EPI HUM | EPILOBIUM CANUM | CALIF | ORNIA FUCHSIA | DEE POT | L | 4'X4' | 66 | |
| ma | MIM AUR | MIMULUS AURANTIACUS | STICK | Y MONKEY FLOWER | DEE POT | L | 4'X4' | 142 | |
| S | SAL MEL | SALVIA MELLIFERA | BLAC | K SAGE | DEE POT | L | 4'X5' | 61 | |
| | ION SEED MIX | <u>×</u> | | | | | | | |
| | · · · · · | Zorro Fescue Vulpi California Poppy Esch Rose Clover-Innoculated Trifa | mus mollis Dia microstachys Dicholzia Califor Dium hirtum nus succulentus | rnica 1/2lb/acre 4lbs/acre | | | | | |
| | | | | | | | | / | |
| | | | | $\setminus 4281$ | | / | / / | | ¬ ~ / |

426.2



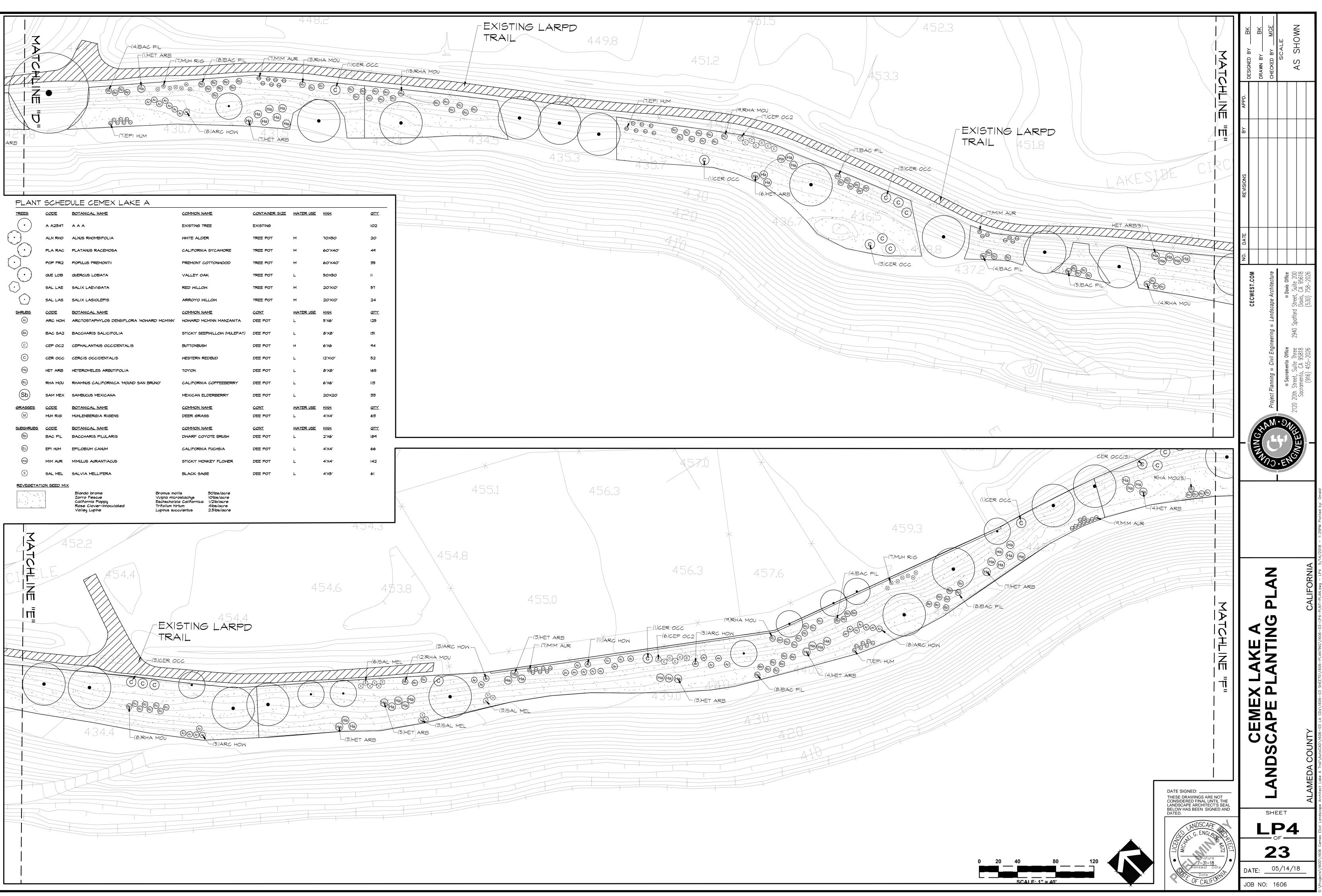
448.2 -(4)BAC PIL B (7)MUH RIG (8)BAC PIL (7)MIM AUR (3)RHA MOU (1)CER OCC -(I)HET ARB BD BD BD BD Z● Ⅲ Ha Ha Ha · • Δ • 430.7 (b)arc how (7)EPI HUM (7)HET ARB ARB

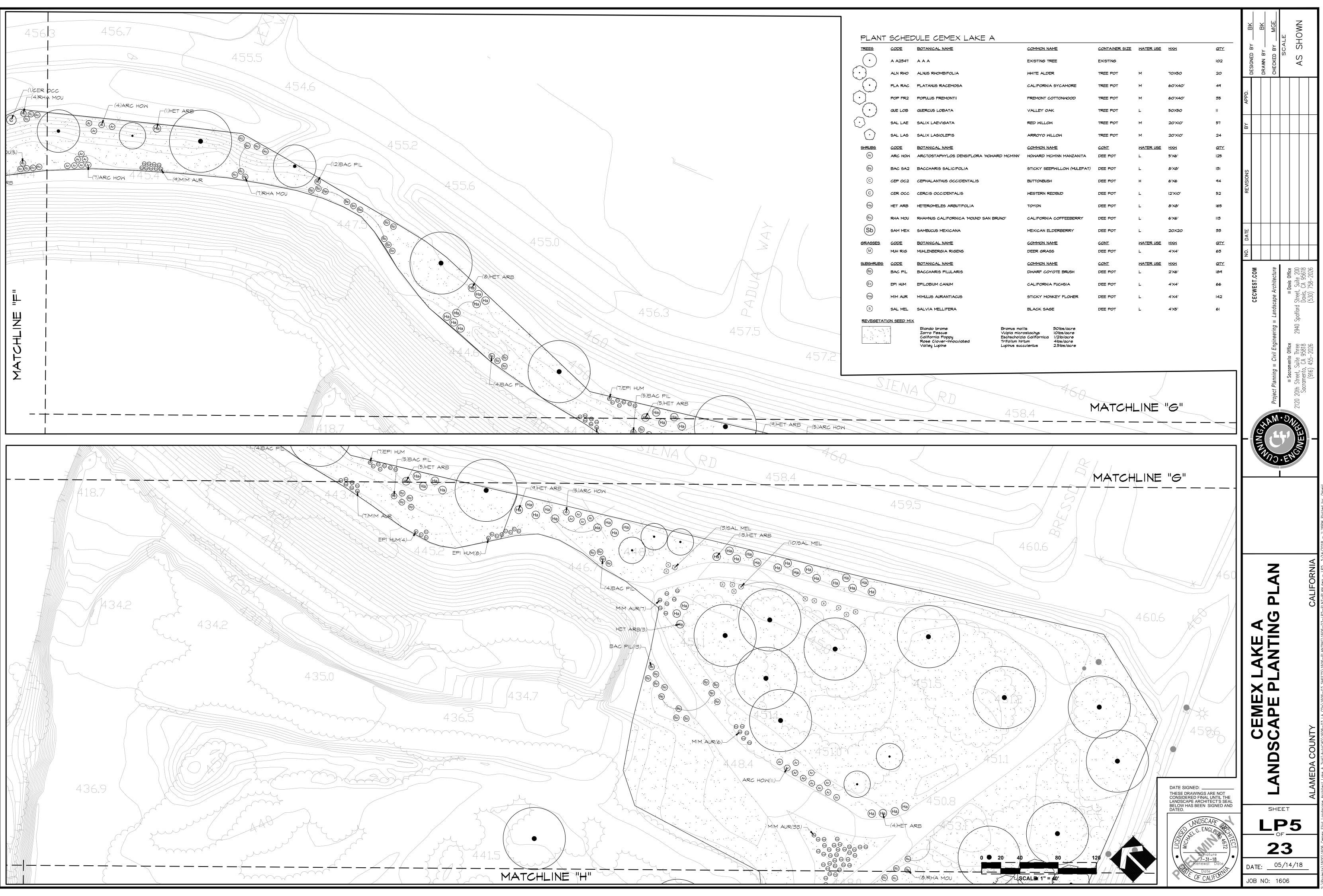
| PLANT | SCHEI | DULE CEMEX LAKE A | | | | | | |
|------------------|--------------|---|-----------------------------|----------------|-----------|---------|------------|---|
| TREES | <u>CODE</u> | BOTANICAL NAME | COMMON NAME | CONTAINER SIZE | MATER USE | HXM | <u>atr</u> | |
| | A A2347 | AAA | EXISTING TREE | EXISTING | | | 102 | |
| · | ALN RHO | ALNUS RHOMBIFOLIA | WHITE ALDER | TREE POT | м | 70X50 | 20 | |
| | PLA RAC | PLATANUS RACEMOSA | CALIFORNIA SYCAMORE | TREE POT | м | 60'X40' | 49 | |
| · | POP FR2 | POPULUS FREMONTII | FREMONT COTTONWOOD | TREE POT | м | 60'X40' | 35 | |
| (\cdot) | QUE LOB | QUERCUS LOBATA | VALLEY OAK | TREE POT | L | 50×50 | П | |
| \cdot | SAL LAE | SALIX LAEVIGATA | RED WILLOW | TREE POT | м | 20'XIO' | 57 | |
| \bigcirc | SAL LAS | SALIX LASIOLEPIS | ARROYO WILLOW | TREE POT | м | 20'XIO' | 24 | |
| SHRUBS | <u>CODE</u> | BOTANICAL NAME | COMMON NAME | CONT | MATER USE | HXM | <u>aty</u> | |
| Ar | ARC HOW | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN' | HOWARD MCMINN MANZANITA | DEE POT | L | 5'X6' | 125 | |
| Bs | BAC SA2 | BACCHARIS SALICIFOLIA | STICKY SEEPWILLOW (MULEFAT) | DEE POT | L | 8'X8' | 131 | |
| C | CEP 0C2 | CEPHALANTHUS OCCIDENTALIS | BUTTONBUSH | DEE POT | н | 6'×6 | 94 | |
| C | CER OCC | CERCIS OCCIDENTALIS | WESTERN REDBUD | DEE POT | L | 12'XIO' | 52 | |
| Ha | HET ARB | HETEROMELES ARBUTIFOLIA | TOYON | DEE POT | L | 8'X8' | 165 | |
| Rc | RHA MOU | RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' | CALIFORNIA COFFEEBERRY | DEE POT | L | 6'×6' | 113 | |
| Sb | SAM MEX | SAMBUCUS MEXICANA | MEXICAN ELDERBERRY | DEE POT | L | 20X20 | 33 | |
| <u>GRASSES</u> | CODE | BOTANICAL NAME | COMMON NAME | <u>CONT</u> | WATER USE | HXM | <u>atr</u> | |
| M | MUH RIG | MUHLENBERGIA RIGENS | DEER GRASS | DEE POT | L | 4'×4' | 63 | |
| <u>SUBSHRUBS</u> | CODE | BOTANICAL NAME | COMMON NAME | <u>CONT</u> | MATER USE | HXM | <u>aty</u> | |
| Вр | BAC PIL | BACCHARIS PILULARIS | DWARF COYOTE BRUSH | DEE POT | L | 2'×6' | 189 | |
| EC | EPI HUM | EPILOBIUM CANUM | CALIFORNIA FUCHSIA | DEE POT | L | 4'X4' | 66 | 7 |
| ma | MIM AUR | MIMULUS AURANTIACUS | STICKY MONKEY FLOWER | DEE POT | L | 4'X4' | 142 | / |
| S | SAL MEL | SALVIA MELLIFERA | BLACK SAGE | DEE POT | L | 4'x5' | 61 | |
| | ION SEED MIX | × | | | | | | |

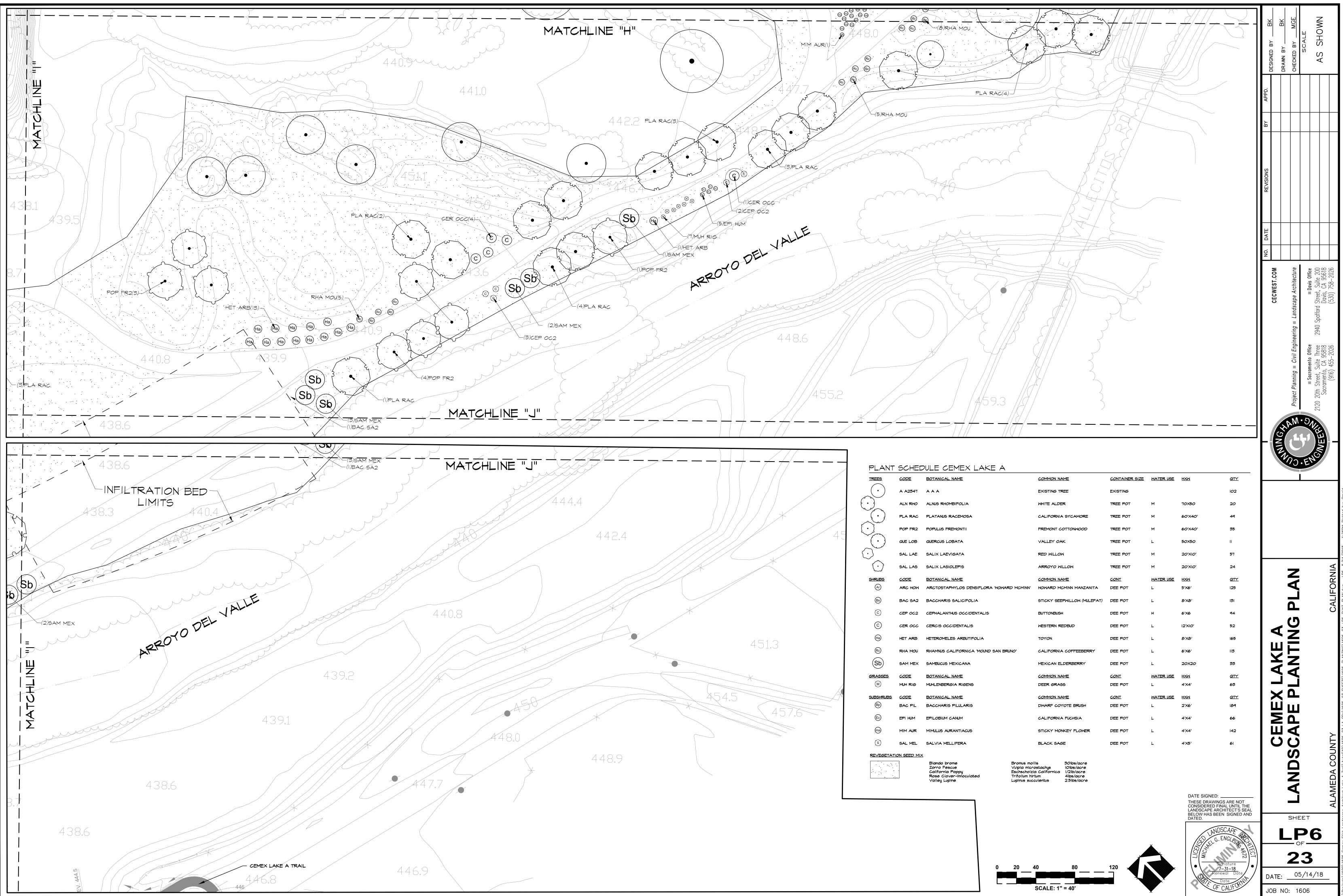


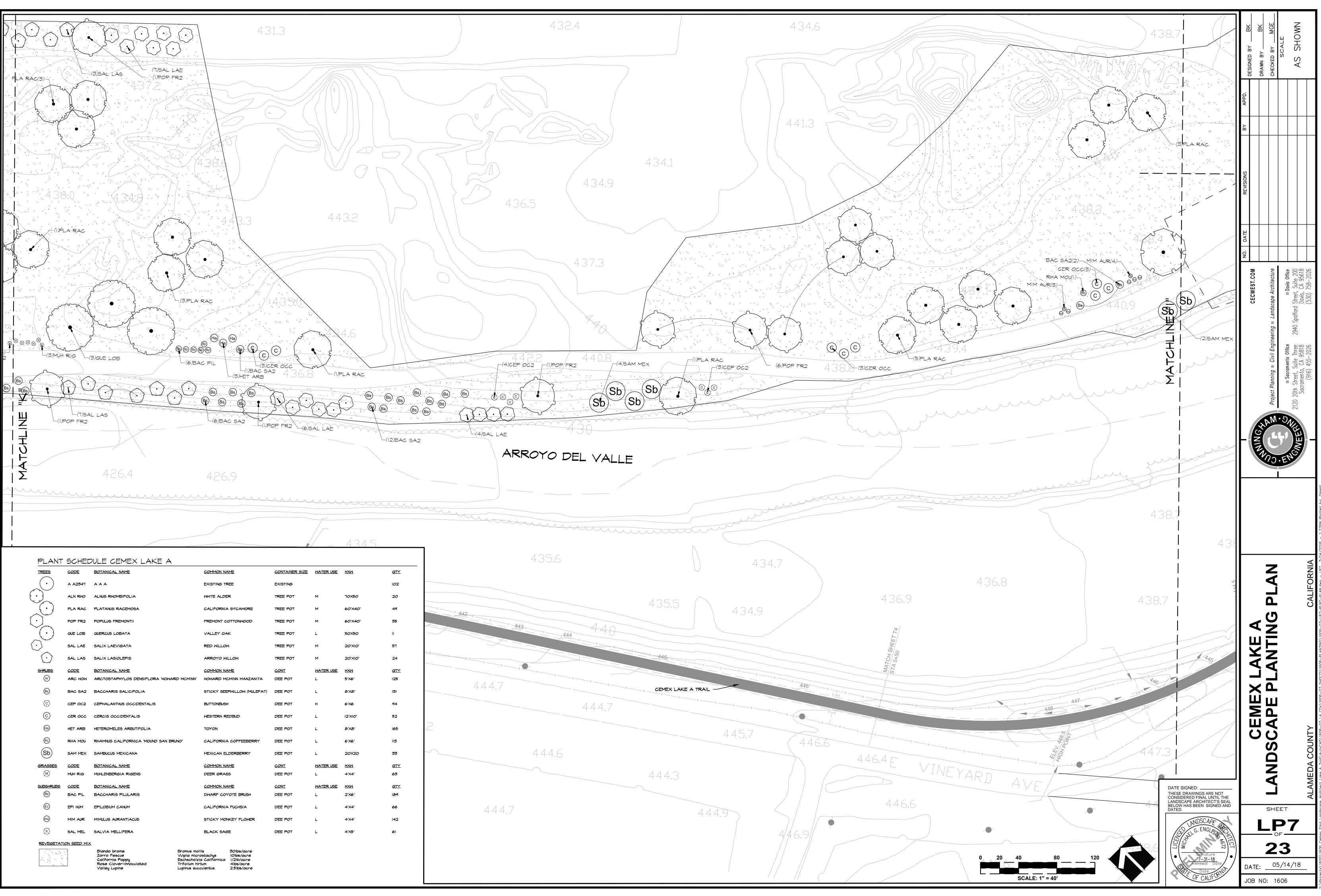




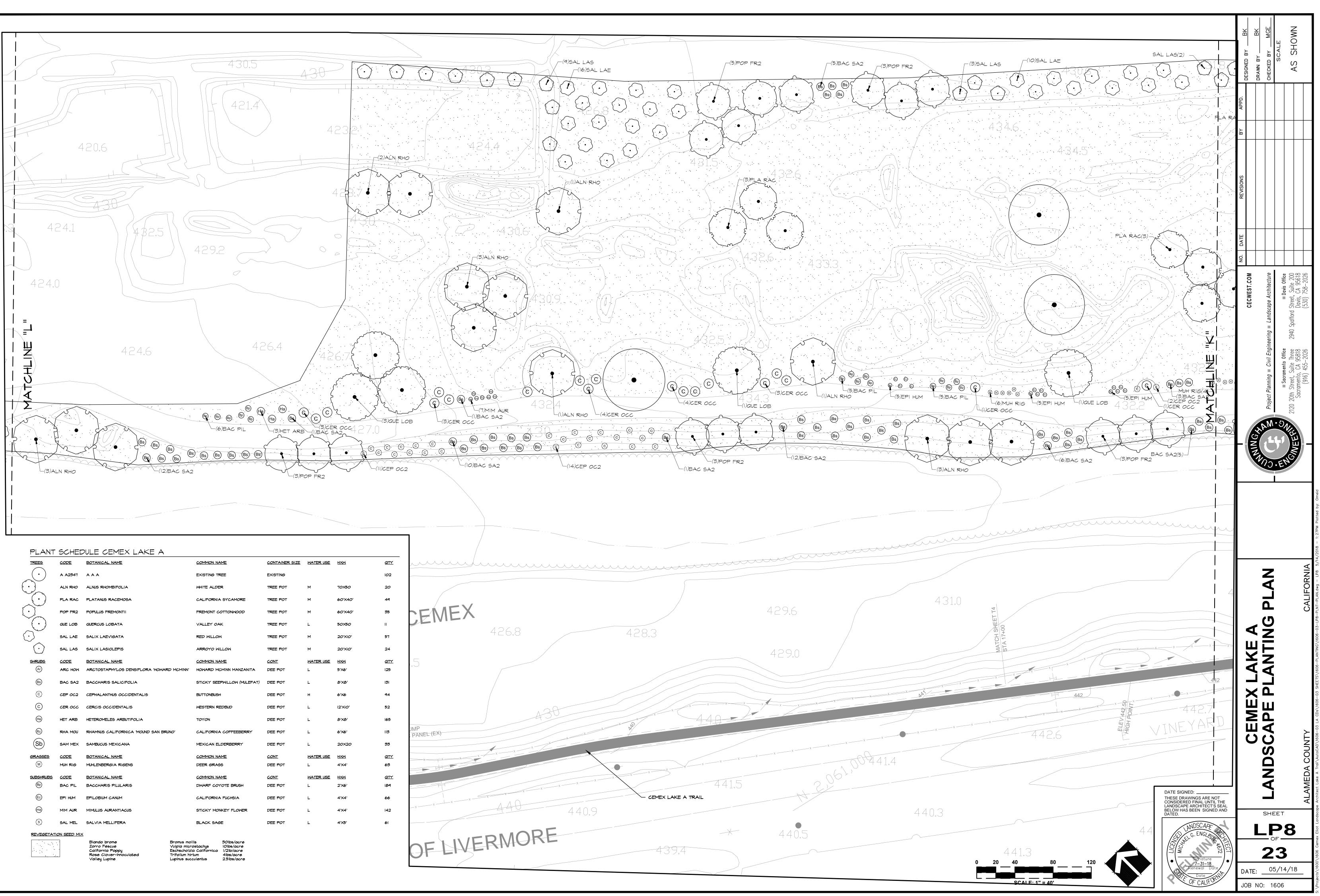




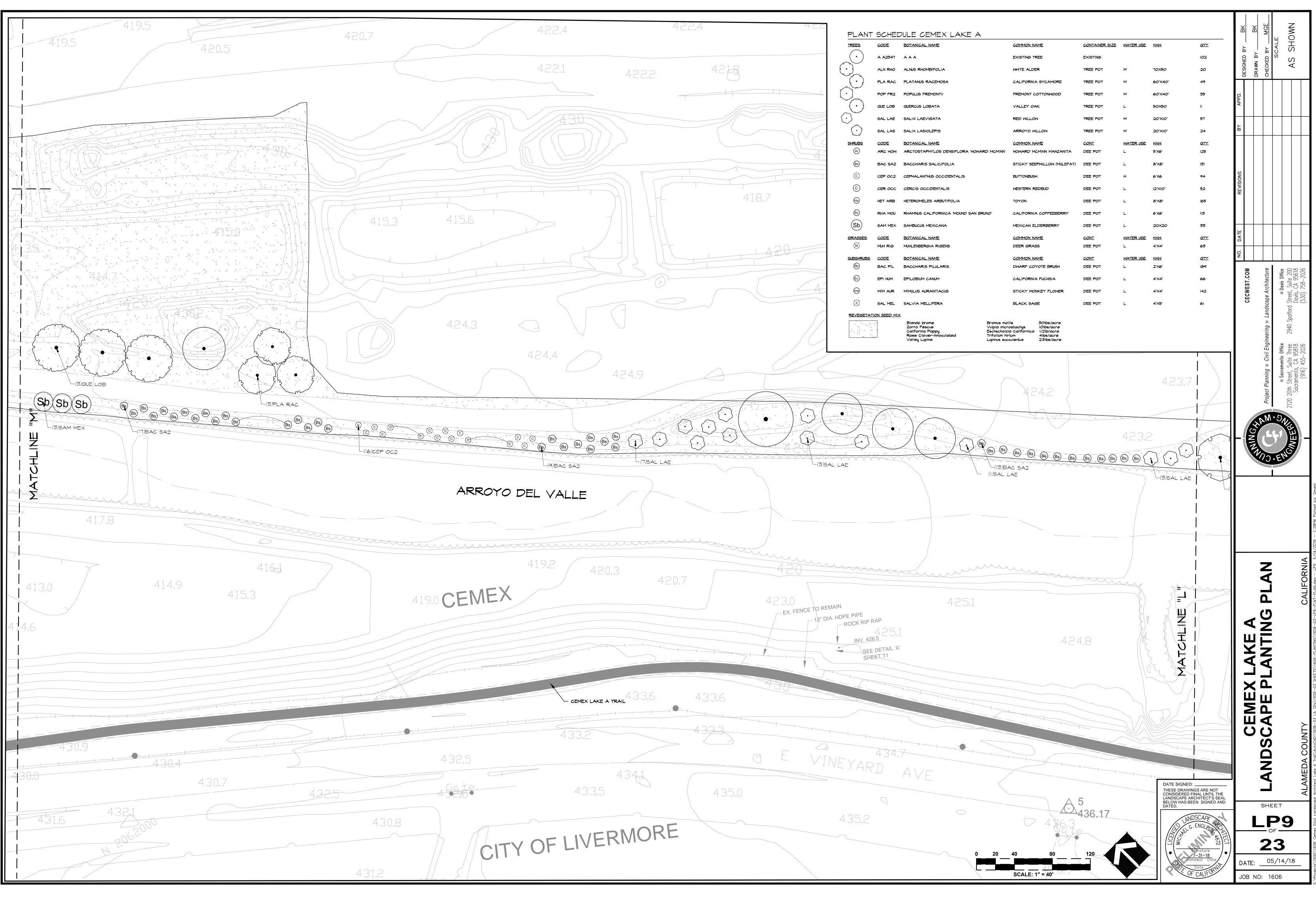


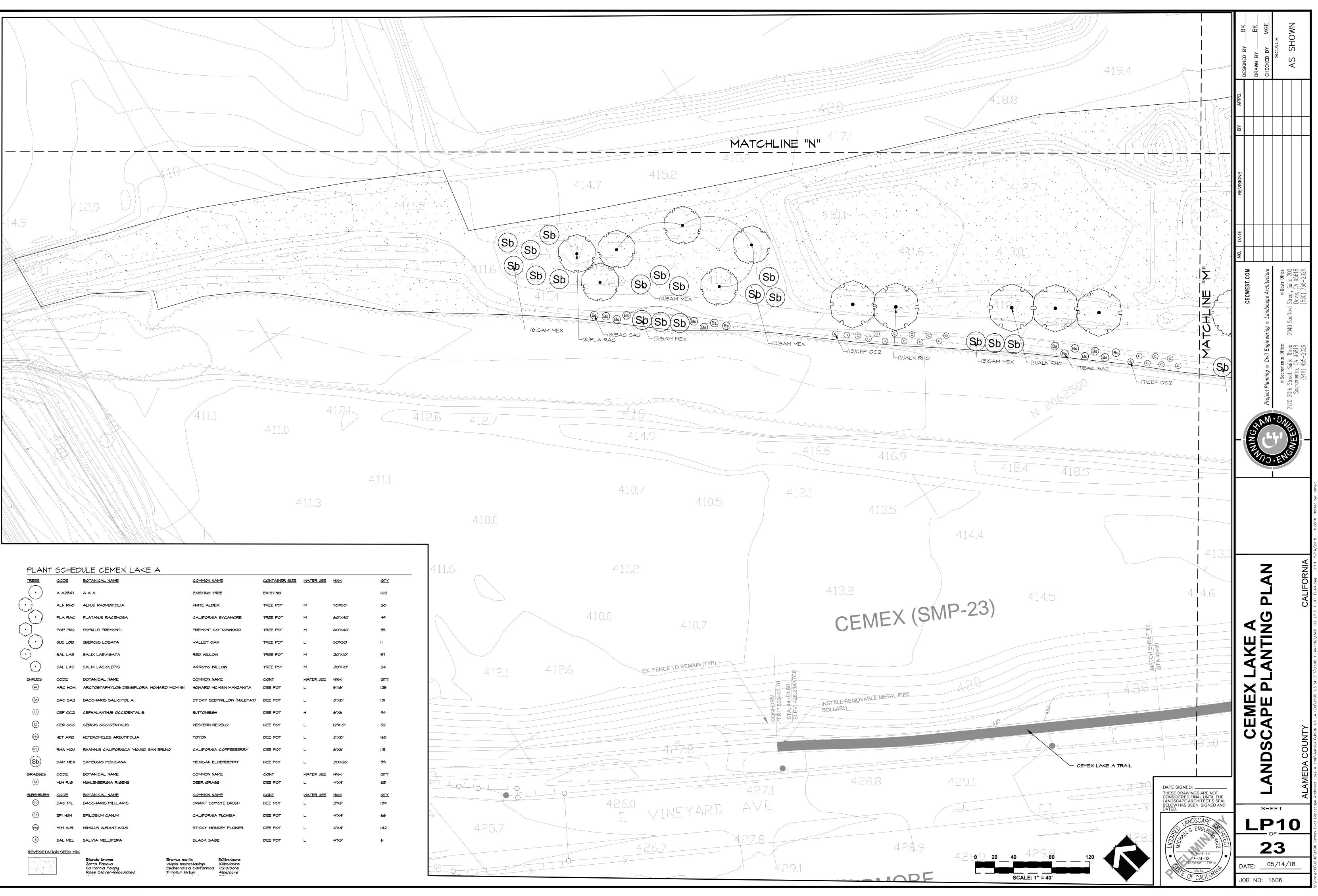


| <u> MLANI</u> | SCHEL | JULE CEMEX LAKE A | | | | | | |
|-----------------------------|--------------|--|-----------------------------|----------------|-----------|---------|------------|---|
| TREES | CODE | BOTANICAL NAME | COMMON NAME | CONTAINER SIZE | MATER USE | HXM | <u>QTY</u> | |
| (\cdot) | A A2347 | A A A | EXISTING TREE | EXISTING | | | 102 | |
| | ALN RHO | ALNUS RHOMBIFOLIA | WHITE ALDER | TREE POT | м | 70×50 | 20 | |
| | PLA RAC | PLATANUS RACEMOSA | CALIFORNIA SYCAMORE | TREE POT | м | 60'X40' | 49 | |
| $\left(\cdot \right)^{-1}$ | POP FR2 | POPULUS FREMONTII | FREMONT COTTONWOOD | TREE POT | м | 60'X40' | 35 | H |
| °(•) | QUE LOB | QUERCUS LOBATA | VALLEY OAK | TREE POT | L | 50X50 | Ш | |
| \odot | SAL LAE | SALIX LAEVIGATA | RED WILLOW | TREE POT | м | 20'XIO' | 57 | |
| \bigcirc | SAL LAS | SALIX LASIOLEPIS | ARROYO WILLOW | TREE POT | м | 20'XIO' | 24 | X |
| SHRUBS | CODE | BOTANICAL NAME | COMMON NAME | <u>CONT</u> | WATER USE | HXM | <u>aty</u> | |
| Ar | ARC HOW | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINI | N' HOWARD MCMINN MANZANITA | DEE POT | L | 5'×6' | 125 | |
| Bs | BAC SA2 | BACCHARIS SALICIFOLIA | STICKY SEEPWILLOW (MULEFAT) | DEE POT | L | 8'X8' | 131 | |
| C | CEP OC2 | CEPHALANTHUS OCCIDENTALIS | BUTTONBUSH | DEE POT | н | 6'X6 | 94 | |
| C | CER OCC | CERCIS OCCIDENTALIS | WESTERN REDBUD | DEE POT | L | 12'XIO' | 52 | |
| Ha | HET ARB | HETEROMELES ARBUTIFOLIA | TOYON | DEE POT | L | 8'X8' | 165 | |
| Rc | RHA MOU | RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' | CALIFORNIA COFFEEBERRY | DEE POT | L | 6'X6' | 113 | |
| Sb | SAM MEX | SAMBUCUS MEXICANA | MEXICAN ELDERBERRY | DEE POT | L | 20X20 | 33 | |
| <u>GRASSES</u> | CODE | BOTANICAL NAME | COMMON NAME | CONT | WATER USE | HXM | <u>aty</u> | |
| (M) | MUH RIG | MUHLENBERGIA RIGENS | DEER GRASS | DEE POT | L | 4'X4' | 63 | |
| <u>SUBSHRUBS</u> | CODE | BOTANICAL NAME | COMMON NAME | <u>CONT</u> | WATER USE | HXM | QTY | |
| Вр | BAC PIL | BACCHARIS PILULARIS | DWARF COYOTE BRUSH | DEE POT | L | 2'X6' | 189 | |
| EC | EPI HUM | EPILOBIUM CANUM | CALIFORNIA FUCHSIA | DEE POT | L | 4'X4' | 66 | |
| ma | MIM AUR | MIMULUS AURANTIACUS | STICKY MONKEY FLOWER | DEE POT | L | 4'X4' | 142 | |
| S | SAL MEL | SALVIA MELLIFERA | BLACK SAGE | DEE POT | L | 4'×5' | 61 | |
| REVEGETAT | ION SEED MIX | 2 | | | | | | |
| | ·.' | Blando brome Bromus i | mollis 30lbs/acre | | | | | 1 |



| <u>ES</u> | <u>CODE</u> | BOTANICAL NAME | COMMON NAME | <u>=</u> | CONTAINER SIZE | WATER USE | HXM | QT |
|--|-------------|---------------------------------------|--------------------|--------------------|----------------|-----------|-----------|-----|
| | A A2347 | AAA | EXISTING TREE | : | EXISTING | | | 102 |
| | ALN RHO | ALNUS RHOMBIFOLIA | WHITE ALDER | | TREE POT | м | 70X50 | 20 |
| en de la composition de la com | PLA RAC | PLATANUS RACEMOSA | CALIFORNIA S | YCAMORE | TREE POT | м | 60'X40' | 49 |
| | POP FR2 | POPULUS FREMONTII | FREMONT COT | TONWOOD | TREE POT | м | 60'X40' | 35 |
| } | QUE LOB | QUERCUS LOBATA | VALLEY OAK | | TREE POT | L | 50X50 | П |
| | SAL LAE | SALIX LAEVIGATA | RED WILLOW | | TREE POT | м | 20'XIO' | 57 |
| } | SAL LAS | SALIX LASIOLEPIS | Arroyo Wille | OW | TREE POT | м | 20'XIO' | 24 |
| 3 | CODE | BOTANICAL NAME | COMMON NAME | = | CONT | WATER USE | HXM | at |
| - | ARC HOW | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MC | MINN' HOWARD MCMI | - INN MANZANITA | DEE POT | L | 5'X6' | 125 |
| | BAC SA2 | BACCHARIS SALICIFOLIA | STICKY SEEPW | IILLOW (MULEFAT) | DEE POT | L | 8'×8' | 131 |
| | CEP 0C2 | CEPHALANTHUS OCCIDENTALIS | BUTTONBUSH | | DEE POT | н | 6'×6 | 94 |
| | CER OCC | CERCIS OCCIDENTALIS | WESTERN REDE | BUD | DEE POT | L | 12'XIO' | 52 |
| | HET ARB | HETEROMELES ARBUTIFOLIA | TOYON | | DEE POT | L | 8'×8' | 165 |
| | RHA MOU | RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' | CALIFORNIA C | OFFEEBERRY | DEE POT | L | 6'X6' | 113 |
|) | SAM MEX | SAMBUCUS MEXICANA | MEXICAN ELDE | RBERRY | DEE POT | L | 20X20 | 33 |
| ES | CODE | BOTANICAL NAME | <u>COMMON NAME</u> | <u>E</u> | CONT | WATER USE | HXM | QI |
| | MUH RIG | MUHLENBERGIA RIGENS | DEER GRASS | | DEE POT | L | 4'X4' | 63 |
| RUBS | <u>CODE</u> | BOTANICAL NAME | COMMON NAME | <u>.</u> | <u>CONT</u> | WATER USE | HXM | a |
| | BAC PIL | BACCHARIS PILULARIS | DWARF COYOT | TE BRUSH | DEE POT | L | 2'×6' | 18 |
| | EPI HUM | EPILOBIUM CANUM | CALIFORNIA FL | UCHSIA | DEE POT | L | 4'X4' | 66 |
| | MIM AUR | MIMULUS AURANTIACUS | STICKY MONKE | ey flower | DEE POT | L | 4'X4' | 14: |
| | SAL MEL | SALVIA MELLIFERA | BLACK SAGE | | DEE POT | L | 4'X5' | 61 |

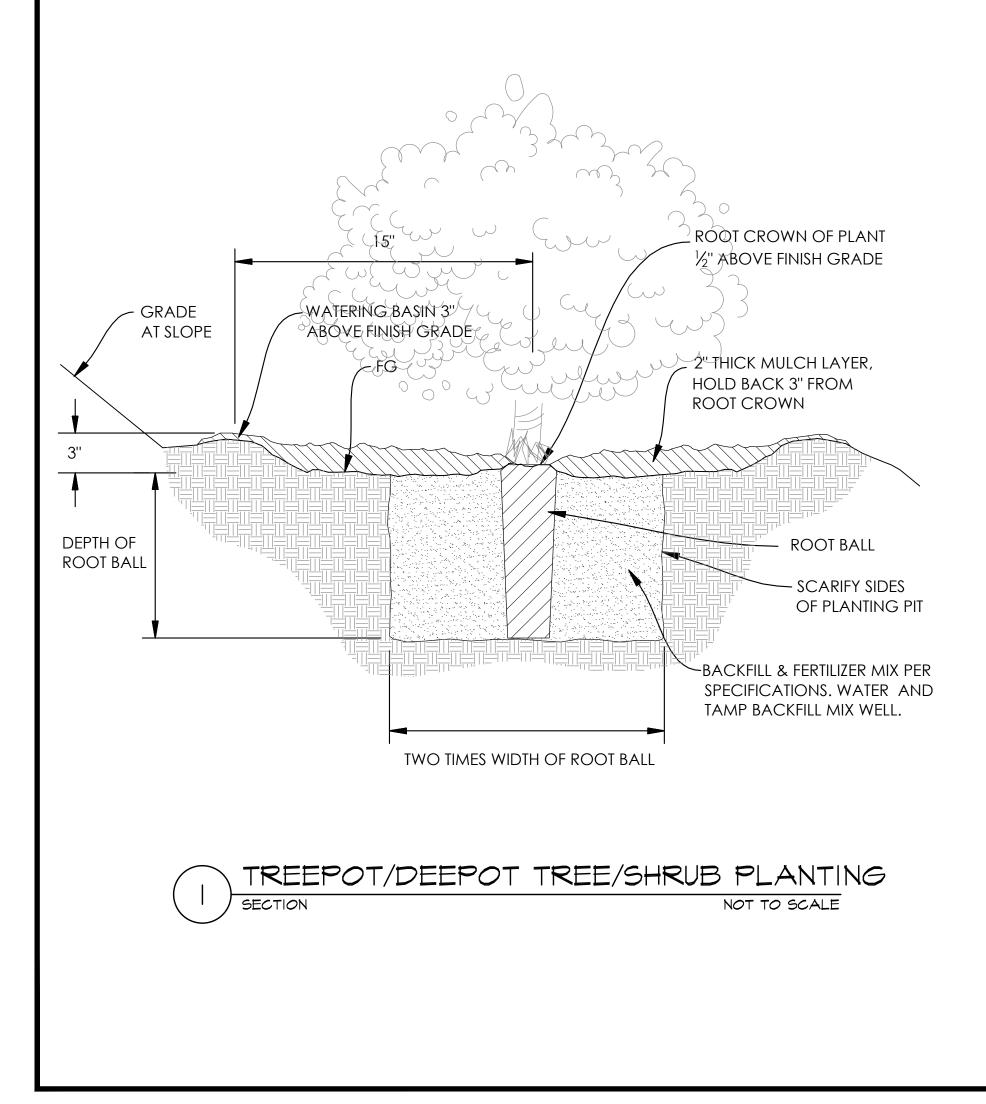




| 5 | <u>CODE</u> | BOTANICAL NAME | COMMON NAME | CONTAINER SIZE | MATER USE | HXM | <u>atr</u> |
|----------------|--------------|---|-----------------------------|----------------|-----------|---------|------------|
| ·) | A A2347 | AAA | EXISTING TREE | EXISTING | | | 102 |
| | ALN RHO | ALNUS RHOMBIFOLIA | WHITE ALDER | TREE POT | м | 70X50 | 20 |
| | PLA RAC | PLATANUS RACEMOSA | CALIFORNIA SYCAMORE | TREE POT | м | 60'X40' | 49 |
| ~ | POP FR2 | POPULUS FREMONTII | FREMONT COTTONWOOD | TREE POT | м | 60'X40' | 35 |
| } | QUE LOB | QUERCUS LOBATA | VALLEY OAK | TREE POT | L | 50×50 | II |
| | SAL LAE | SALIX LAEVIGATA | RED WILLOW | TREE POT | м | 20'XIO' | 57 |
|) | SAL LAS | SALIX LASIOLEPIS | ARROYO WILLOW | TREE POT | м | 20'XIO' | 24 |
| <u>B5</u> | CODE | BOTANICAL NAME | COMMON NAME | CONT | WATER USE | HXM | QTY |
|) | ARC HOW | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN' | HOWARD MCMINN MANZANITA | DEE POT | L | 5'×6' | 125 |
|) | BAC SA2 | BACCHARIS SALICIFOLIA | STICKY SEEPWILLOW (MULEFAT) | DEE POT | L | 8'X8' | 131 |
|) | CEP 0C2 | CEPHALANTHUS OCCIDENTALIS | BUTTONBUSH | DEE POT | н | 6'×6 | 94 |
|) | CER OCC | CERCIS OCCIDENTALIS | WESTERN REDBUD | DEE POT | L | 12'XIO' | 52 |
|) | HET ARB | HETEROMELES ARBUTIFOLIA | TOYON | DEE POT | L | 8'X8' | 165 |
|) | RHA MOU | RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' | CALIFORNIA COFFEEBERRY | DEE POT | L | 6'×6' | 113 |
| \rightarrow | SAM MEX | SAMBUCUS MEXICANA | MEXICAN ELDERBERRY | DEE POT | L | 20X20 | 33 |
| <u>SSES</u> | <u>CODE</u> | BOTANICAL NAME | COMMON NAME | <u>CONT</u> | WATER USE | HXM | <u>aty</u> |
|) | MUH RIG | MUHLENBERGIA RIGENS | DEER GRASS | DEE POT | L | 4'X4' | 63 |
| HRUBS | <u>CODE</u> | BOTANICAL NAME | COMMON NAME | CONT | WATER USE | HXM | <u>atr</u> |
|) | BAC PIL | BACCHARIS PILULARIS | DWARF COYOTE BRUSH | DEE POT | L | 2'×6' | 189 |
|) | EPI HUM | EPILOBIUM CANUM | CALIFORNIA FUCHSIA | DEE POT | L | 4'X4' | 66 |
|) | MIM AUR | MIMULUS AURANTIACUS | STICKY MONKEY FLOWER | DEE POT | L | 4'X4' | 142 |
| Ď | SAL MEL | SALVIA MELLIFERA | BLACK SAGE | DEE POT | L | 4'×5' | 61 |
| <u>:GETATI</u> | ION SEED MIX | <u>×</u> | | | | | |

PLANTING NOTES

- I. WORK INCLUDES ALL LABOR, MATERIAL, EQUIPMENT AND APPLIANCES NECESSARY TO COMPLETE SOIL PREPARATION AND WEED CONTROL, FINE GRADING, PLANTING, AND MAINTENANCE PERIOD.
- 2. ALL WORK SHOWN ON PLANTING SHEETS SHALL BE PERFORMED PER DRAWINGS.
- 3. LANDSCAPE CONTRACTOR SHALL VERIFY PLANT QUANTITIES FROM LANDSCAPE PLAN. IF THERE IS A DISCREPANCY BETWEEN THE PLAN & THE LEGEND, THE PLAN SHALL GOVERN. 4. NO PLANTING SHALL BE STARTED UNTIL REMOVAL OF INVASIVE WEED SPECIES HAS OCCURRED.
- 5. LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN THE EVENT OF PLANT UNAVAILABILITY IMMEDIATELY AFTER BID AWARD(S). ANY SUBSTITUTIONS MUST BE REQUESTED IN WRITING AND SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
- 6. ALL PLANT MATERIAL SHALL MEET SIZE SPECIFICATIONS AS SHOWN ON THE PLANT LEGEND, AND SHALL BE CONTAINER GROWN, HEALTHY, FULL, AND SHALL BE OF THE FIRST RATE QUALITY FOR THE SPECIES. CLEARLY LABEL REPRESENTATIVES OF EACH PLANT SPECIES OR CULTIVAR WITH BOTANICAL NAME.
- 7. PRIOR TO PLANTING OR GRADING, ASCERTAIN THE LOCATION OF ALL UNDERGROUND UTILITY LINES. PROMPTLY BRING ANY CONFLICT BETWEEN THE LOCATION OF UNDERGROUND LINES AND PLANT MATERIAL TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR APPROPRIATE ADJUSTMENT.
- 8. ALL PLANTER AREAS SHALL BE GRADED AND PLANTED FOR POSITIVE DRAINAGE AWAY FROM STRUCTURES, WALLS & FENCES.
- 9. SET FINISH SOIL GRADES AS NOTED ON DETAILS FOR SHRUBS & GROUNDCOVER AREAS. AFTER PLANTING, CORRECT ANY DISTURBED GRADES AND RETURN ENTIRE AREA TO FINISH GRADE. IO. CONDUCT PLANTING OPERATIONS UNDER FAVORABLE WEATHER CONDITIONS, EXCEPT WHEN GROUND IS TOO WET, AS DETERMINED BY THE LANDSCAPE ARCHITECT.
- II. THOROUGHLY WATER ALL PLANTS AT TIME OF PLANTING, TAKING CARE NOT TO COVER CROWNS OF PLANTS WITH SOIL. KEEP ROOT BALLS ADEQUATELY MOIST UNTIL TIME OF ACCEPTANCE.
- 12. PROTECT PLANTS FROM DAMAGE OF ANY KIND, INCLUDING HEAT, DESICCATION, AND MAINTAIN PLANTS IN A HEALTHY AND VIGOROUS CONDITION FROM TIME OF ARRIVAL AT SITE THROUGH FINAL ACCEPTANCE. REPLACE ALL DEAD OR DAMAGED PLANTS AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION AS DETERMINED BY THE LANDSCAPE ARCHITECT WITHOUT COST TO THE OWNER AS SOON AS SEASONAL CONDITIONS PERMIT. REPLACE WITH PLANT MATERIAL OF COMPARABLE QUALITY AND SIZE TO THAT WHICH WAS ORIGINALLY INSTALLED.
- 13. UPON INITIAL COMPLETION OF THE WORK, CONTACT THE LANDSCAPE ARCHITECT TO PROVIDE A PRELIMINARY REVIEW OF ALL PLANTING AND A PUNCH LIST OF INCOMPLETE OR UNSATISFACTORY ITEMS. ONLY SATISFACTORY COMPLETION OF WORK AND PUNCH LIST ITEMS AS DETERMINED BY THE LANDSCAPE ARCHITECT SHALL ESTABLISH THE BEGINNING OF THE 90-DAYS MAINTENANCE PERIOD.
- 14. CONTINUOUSLY MAINTAIN ALL AREAS INCLUDED IN THE CONTRACT DURING THE PROGRESS OF THE WORK, THROUGH THE 90-DAYS MAINTENANCE PERIOD, AND UNTIL FINAL ACCEPTANCE OF THE WORK. WATER, PRUNE, WEED CONTROL, CULTIVATE, MULCH, PEST CONTROL, RESET PLANTS TO PROPER GRADES OR UPRIGHT POSITION, RESTORE WATERING BASING, REMOVE DEBRIS AND PROVIDE ALL OTHER CARE NEEDED FOR PROPER GROWTH AND APPEARANCE OF THE PLANTS.
- 15. KEEP ALL WALKS, CURBS, AND GUTTERS CLEAR OF DEBRIS, MUD, DUST, AND STANDING WATER BY SWEEPING, MOPPING OR HOSING DOWN AS REQUIRED TO MAINTAIN CLEANLINESS THROUGHOUT. AT COMPLETION OF MAINTENANCE PERIOD, ALL AREAS INCLUDED IN THE CONTRACT SHALL BE CLEAN AND FREE OF DEBRIS AND WEEDS. ALL PLANT MATERIALS SHALL BE LIVE, HEALTHY, AND FREE OF INFESTATION. IF ANY ITEM OR PORTION OF THE CONTRACT WORK IS NOT ACCEPTABLE TO THE OWNER AT THE TIME OF FINAL REVIEW, MAINTAIN ALL AREAS INCLUDED IN THE CONTRACT FOR ANY ADDITIONAL PERIOD OF TIME AS MAY BE REQUIRED TO REPAIR DEFECTIVE ITEM OR PORTION.
- 16. PLANT SYMBOLS AS SHOWN ON THE PLATING PLANT ARE SIZED AND SPACED BASED ON GROWTH TO MATURE SIZE. CONTRACTOR SHALL ENSURE SPACING/OFFSETS TO OTHER SHRUBS, CONCRETE EDGES, PROPERTY LINES, ETC. ARE PER SPACING GUIDELINES SHOWN IN THE THE PLANTING LEGEND.



TREE PRESERVATION CONSTRUCTION NOTES

- I. NO VEHICLES OR EQUIPMENT SHALL BE OPERATED OR MATERIALS STORED WITHIN THE DRIPL SHALL BEGIN ONLY UPON ENGINEER'S APPROVAL.
- 2. PROTECT NATIVE TREES 4" DBH OR GREATER WITHIN ENTIRE PROJECT AREA. THE DBH OF NATI MAXIMUM EXTENT FEASIBLE.
- 3. HAND DIG TRENCHES PASSING THROUGH TREE ROOT ZONES. ALL TREE ROOTS OVER I" TO BE RESULT OF TREE PRUNING.
- REPRESENTATIVE WILL DO THE APPRAISAL AND SUBMIT A REPORT AS NEEDED.
- EXISTING TREE TRUNK.
- PLANTING SCHEDULE.

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| | DATE SIGNED: THESE DRAWINGS ARE NOT CONSIDERED FINAL UNTIL THE | | | | | | ALAMEDA COUNTY |
| | LANDSCAPE ARCHITECT'S SEAL BELOW HAS BEEN SIGNED AND DATED. | ╀ | | SHE | EET | 1 | ` |
| | G. ENGLE NO. 672 | | | | 3 | | |
| | Signature 7-31-18 Renewal Date Date OF CALIFORMIT | | ATE: | 0 | 5/14/ | ′18 | |
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AREAS OF EX. TREES TO REMAIN. IF THESE ACTIVITIES ARE NECESSARY FOR THE COMPLETIO WORK, WITH APPROVAL, THE CONTRACTOR SHALL PLACE &'X4'X I-1/8" PLYWOOD OVER THE EN GROUND AREA WITHIN THE TREE DRIPLINE. ANY ACTIVITY WITHIN DRIPLINE AREAS OF EX TREE

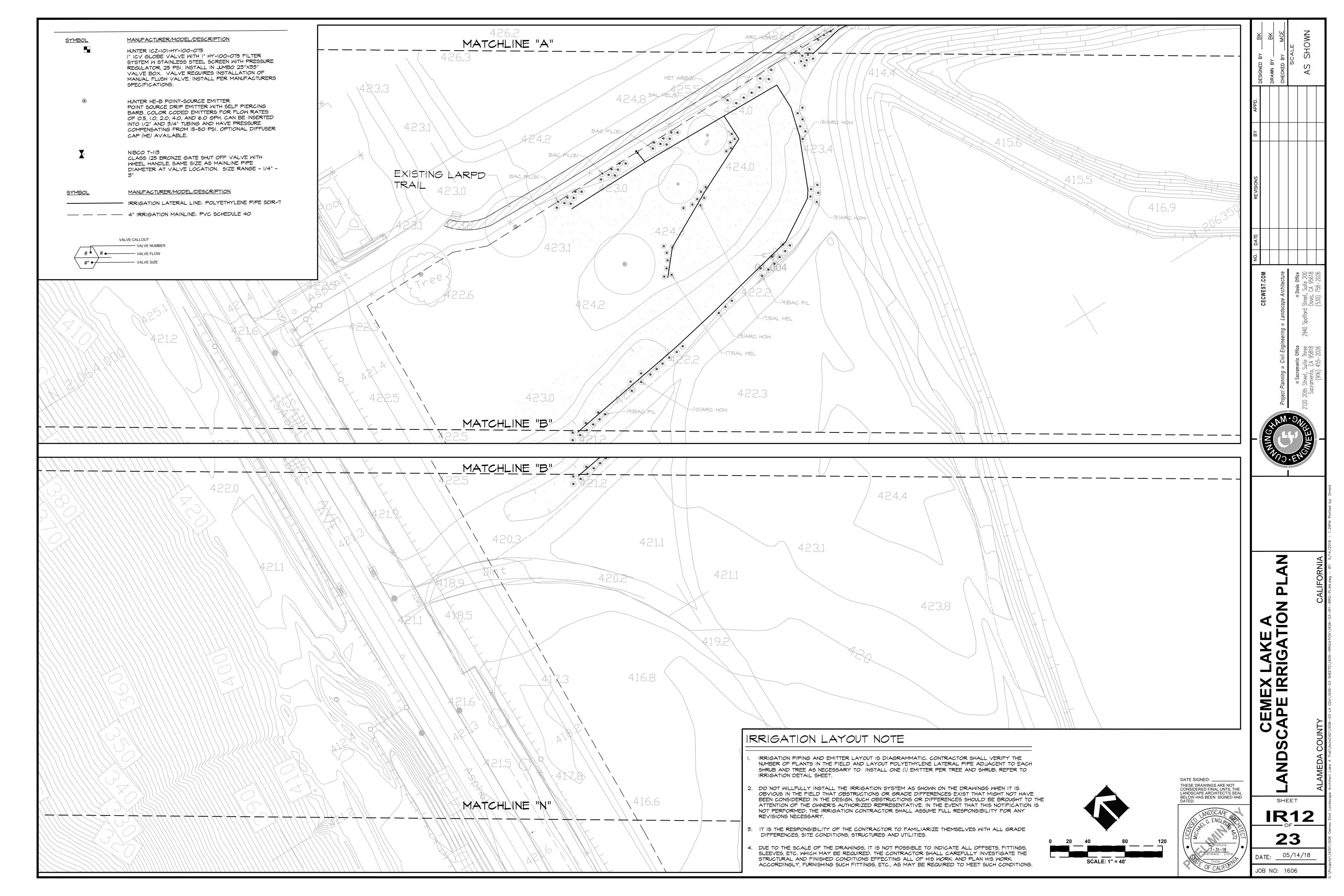
TREES AND SHRUBS WITH MULTIPLE STEMS SHALL BE THE TOTAL OF ALL BRANCHES AT BREAS HEIGHT. CONTRACTOR TO PROTECT ALL SHRUBBY AND HERBACEOUS NATIVE VEGETATION TO

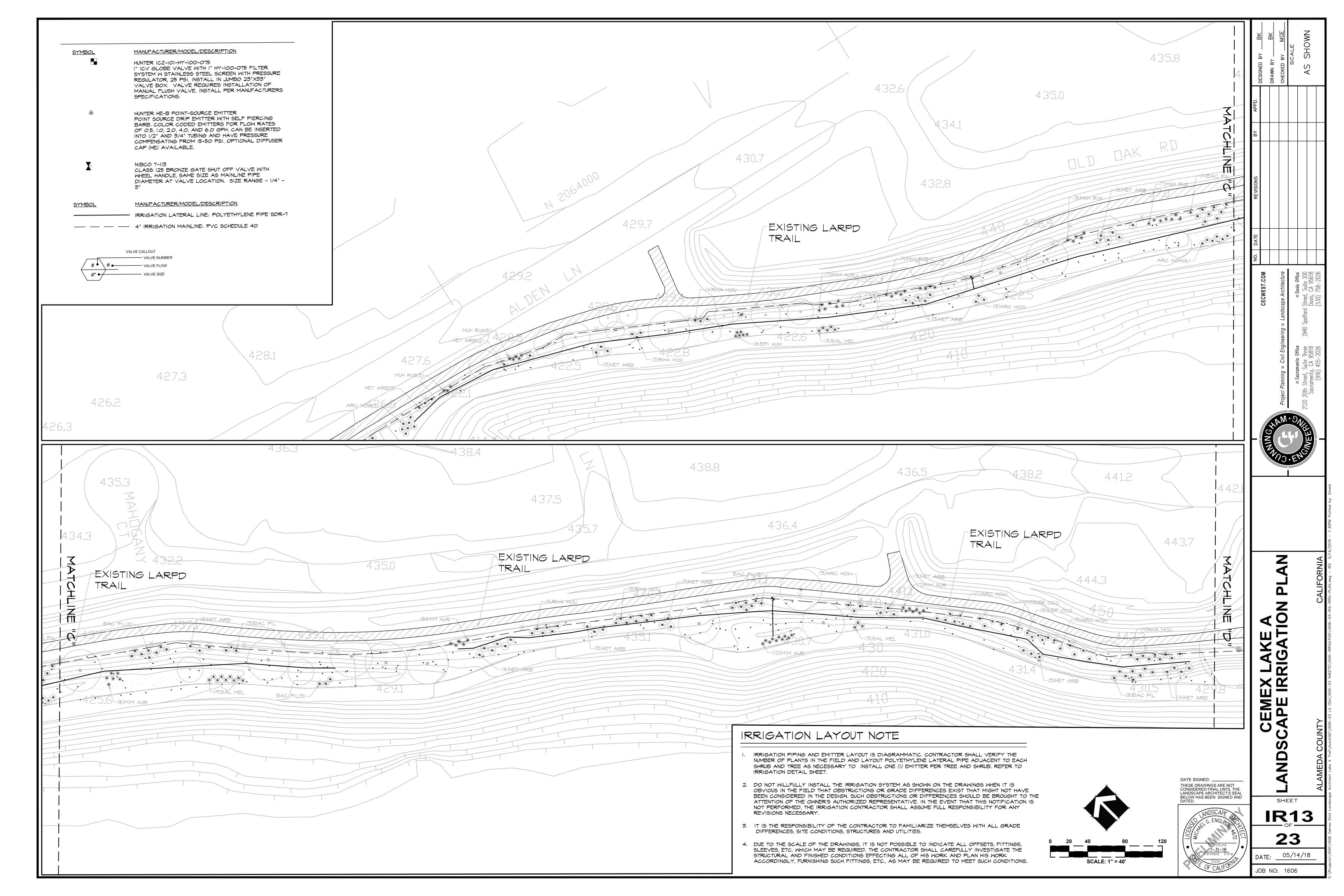
SAVED. ROOTS I" OR SMALLER TO BE CLEAN CUT WITH SHARP, DISINFECTED PRUNING SHEARS DURING EXCAVATION FOR THE PROJECT ANY TREE ROOTS GREATER THAN TWO INCHES IN DIA ARE ENCOUNTERED WORK SHALL STOP IMMEDIATELY UNTIL PROJECT ARBORIST OR OWNER REPRESENTATIVE CAN PERFORM AN ON-SITE INSPECTION. ALL ROOTS SHALL BE CUT CLEAN , THE TREE AFFECTED MAY REQUIRE SUPPLEMENTAL IRRIGATION, FERTILIZATION, AND PRUNING .

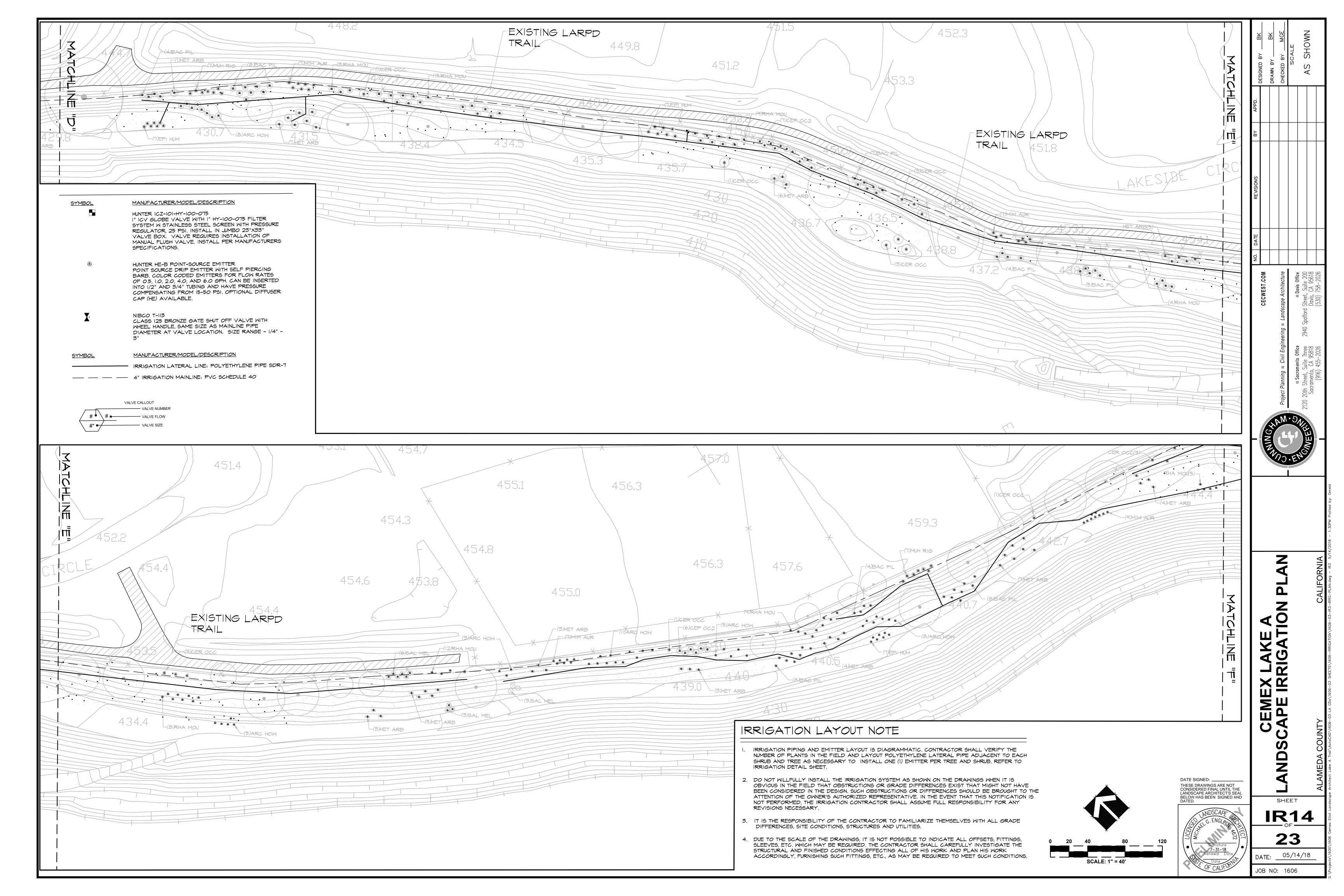
4. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE TO EXISTING TREES I.E. TRUNK I BROKEN LIMB, POURING OF ANY DELETERIOUS MATERIALS, OR WASHING OUT CONCRETE UNDE DRIP LINE OF THE TREE. DAMAGES WILL BE ASSESSED USING THE "GUIDE TO PLANT APPRAIS NINTH EDITION PUBLISHED BY THE ISA & PER SPEC 1530. THE PROJECT ARBORIST OR OWNER

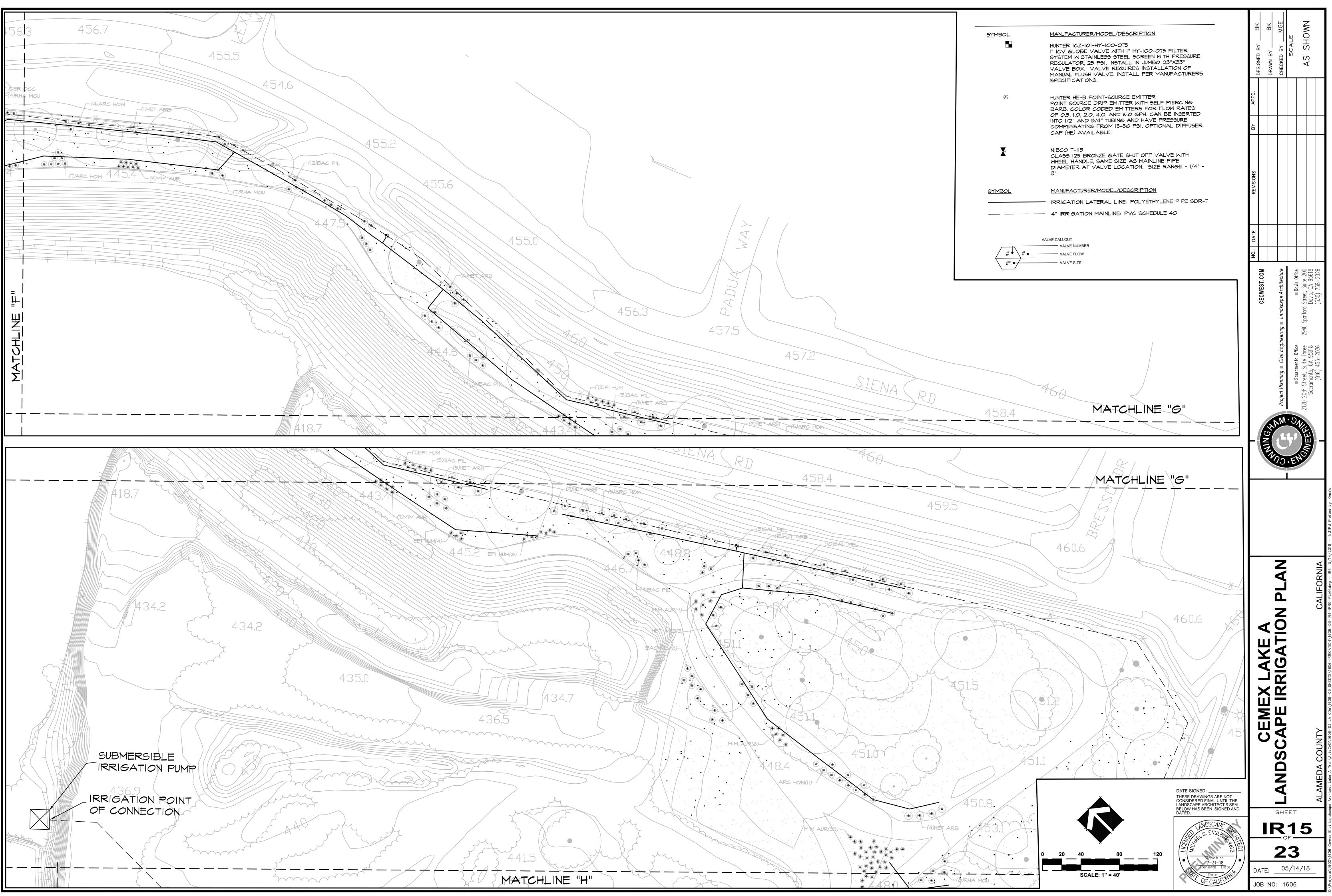
5. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IF GRADE CHANGES EXCEED 6" WITHIN 5' OF

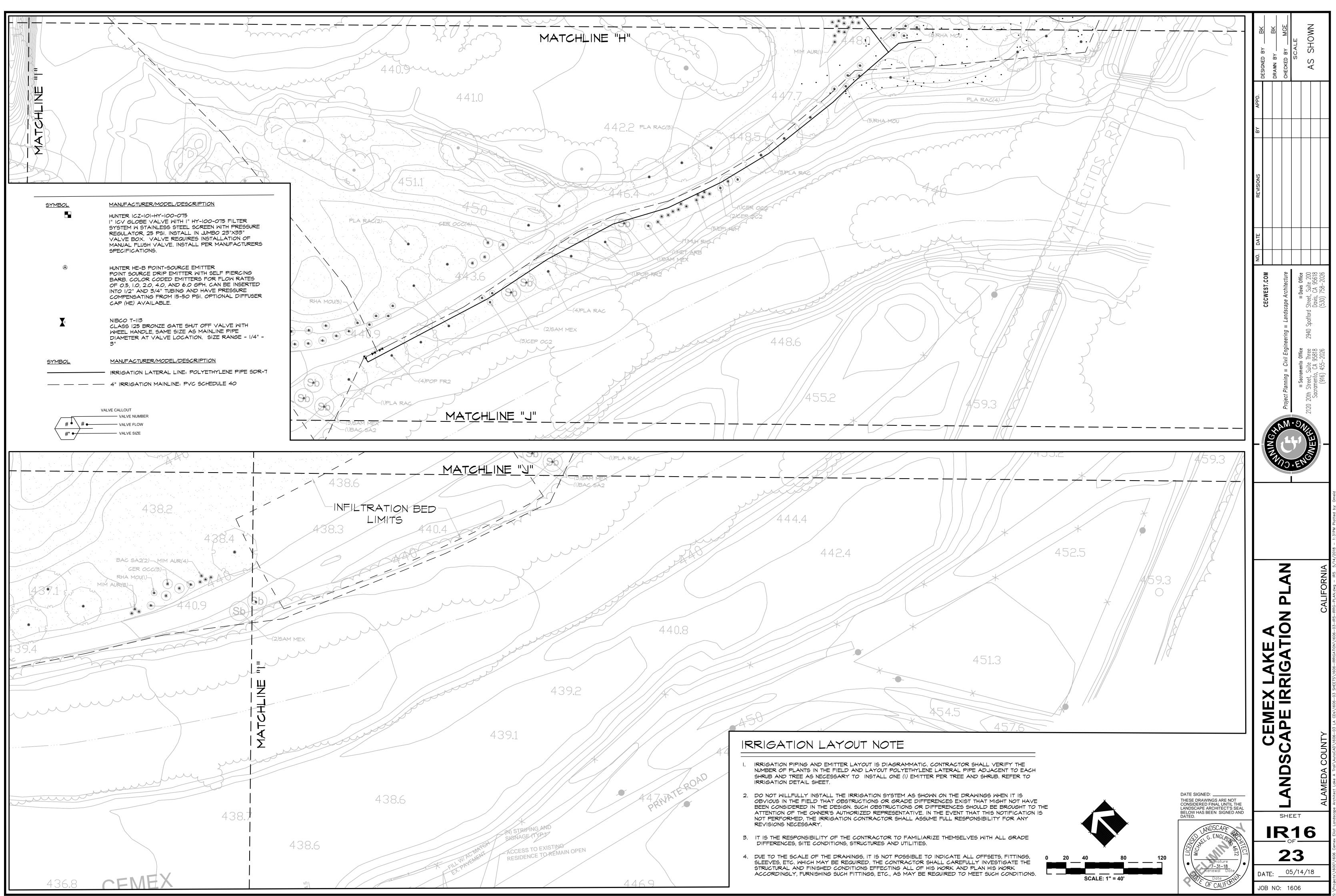
6. RESTORE AREAS IMPACTED BY ANY CONSTRUCTION ACTIVITIES TO PRE-CONSTRUCTION COND AS A MINIMUM, SCARIFY COMPACTED SOIL BY CROSS-RIPPING OR APPROVED METHOD TO 6" MINIMUM AND IO" MAX. DEPTH AND RE-SEED WITH NATIVE GRASS SEED MIX AS SPECIFIED IN 1

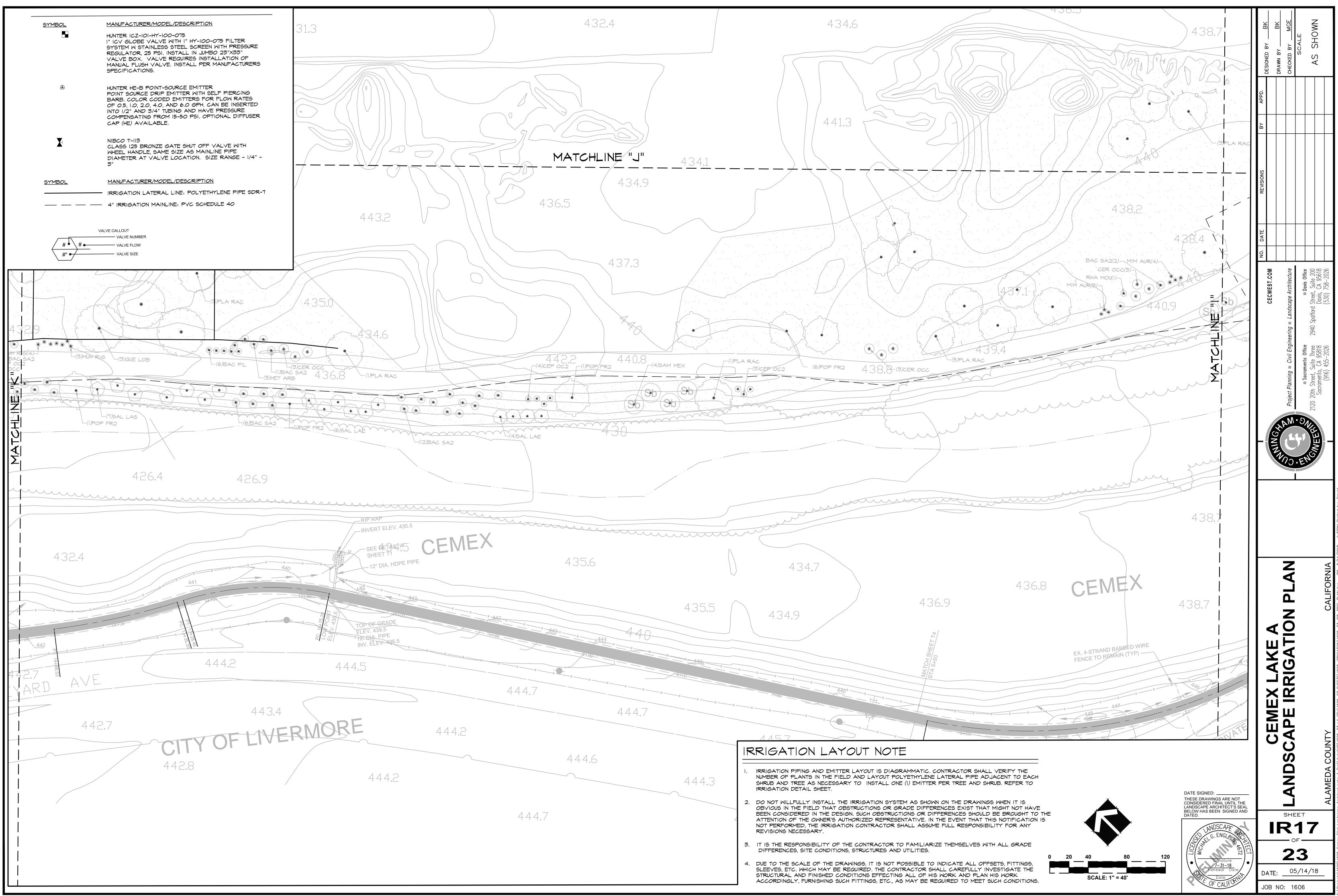




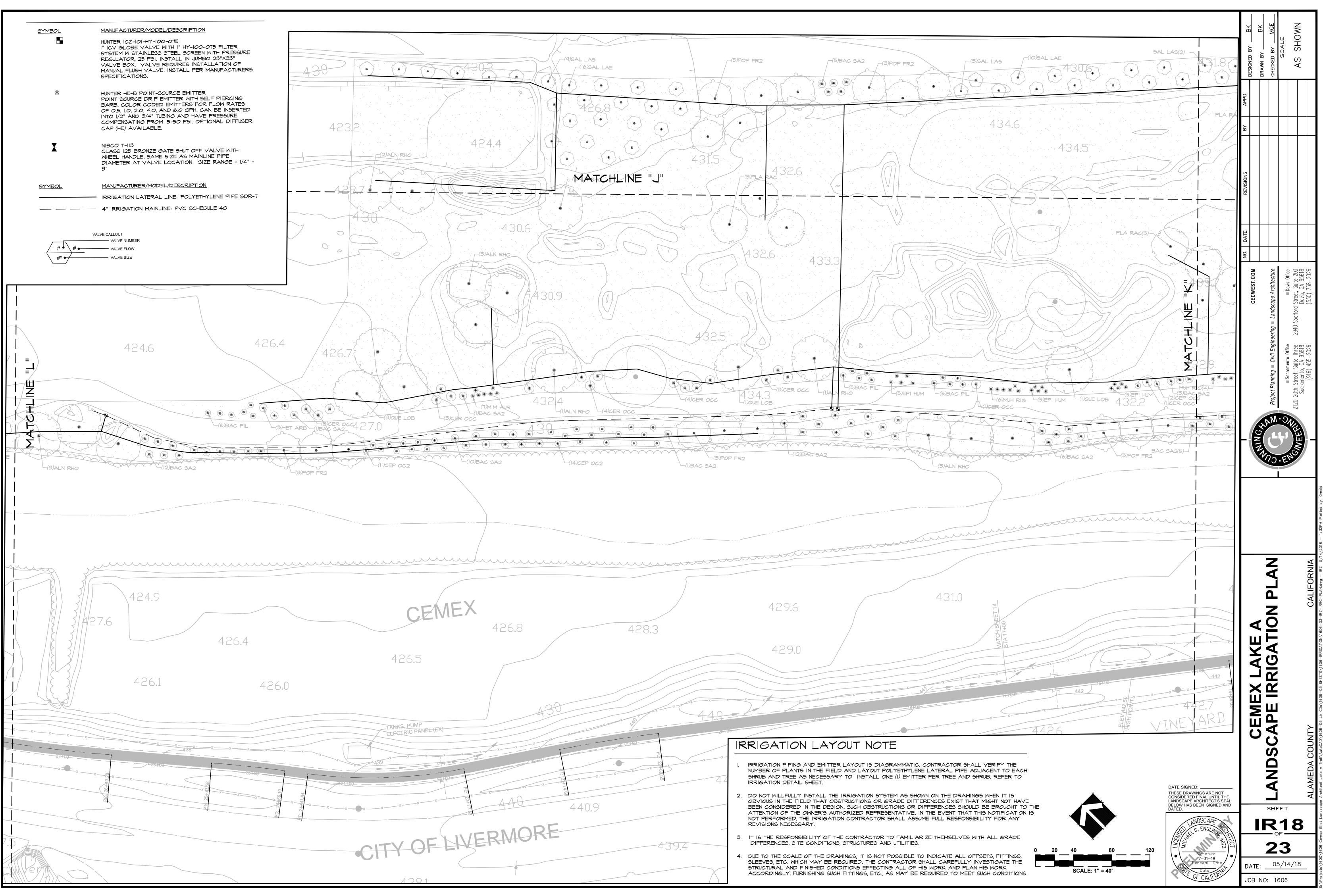


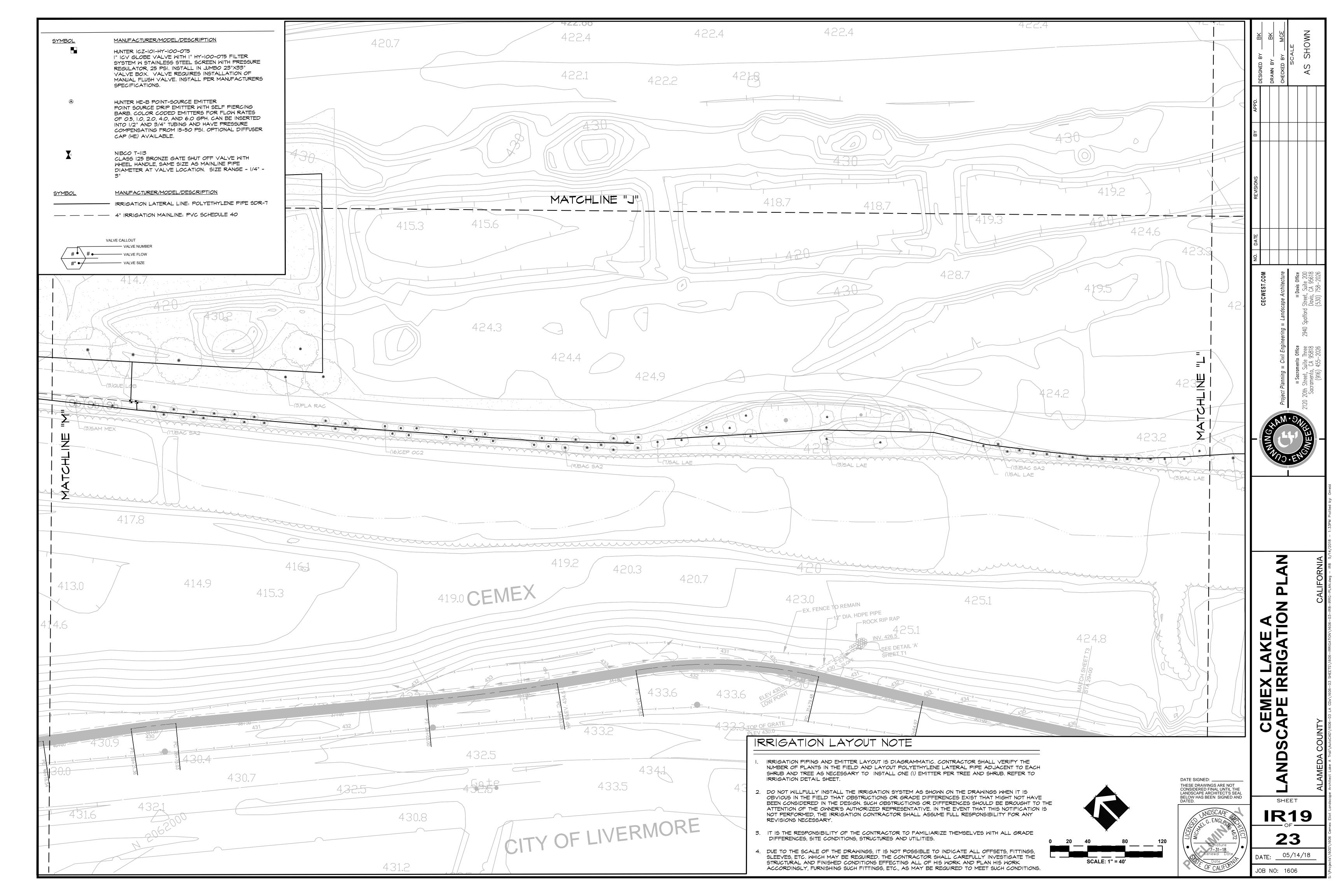


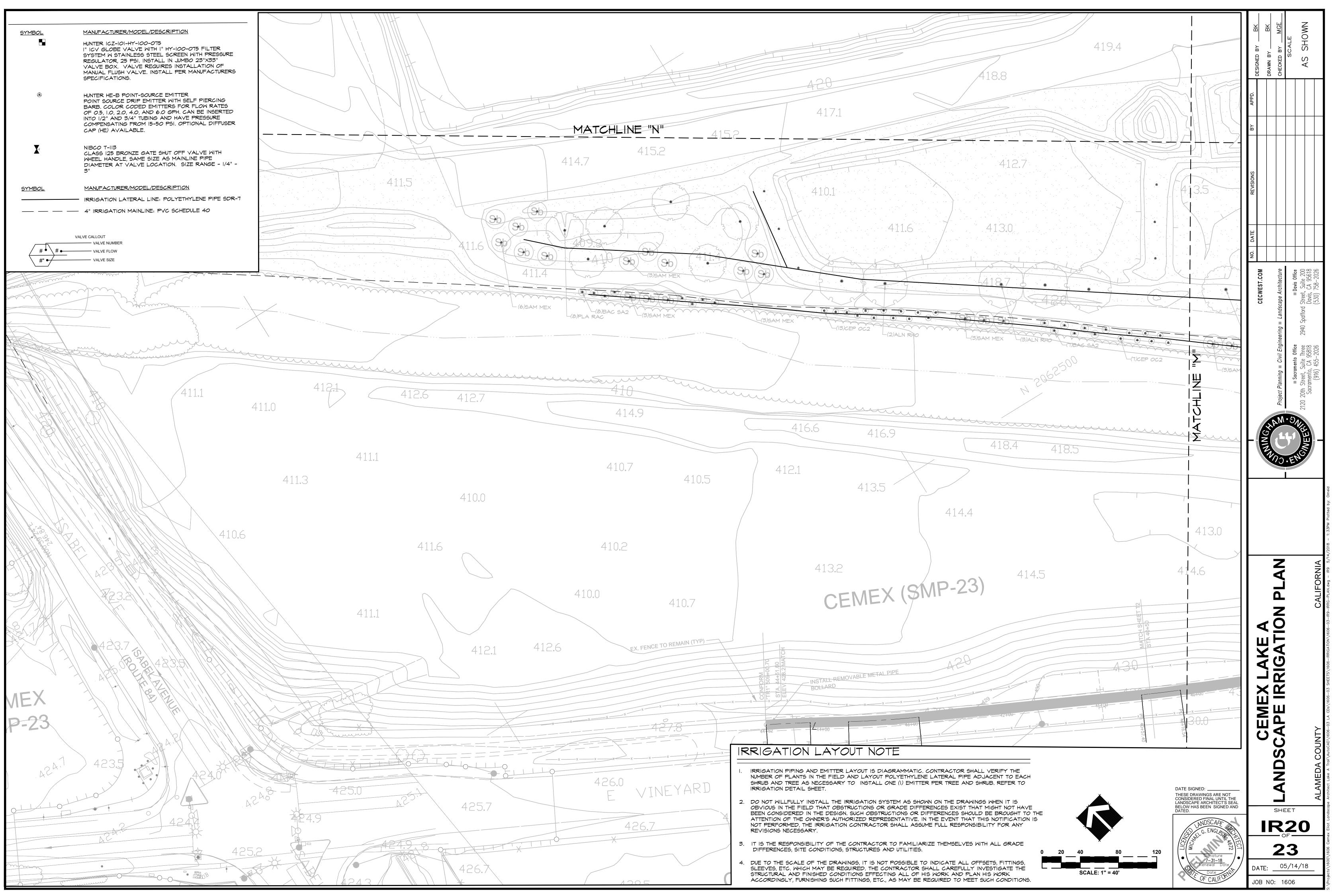




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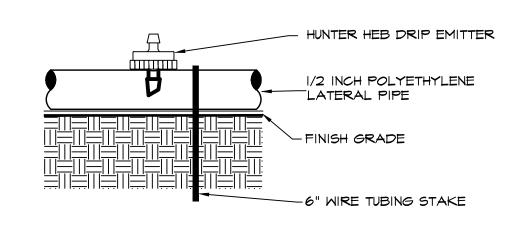






IRRIGATION SYSTEM NOTES

- I. CONTRACTOR SHALL REFER TO NOTES & DETAILS ON PLANS FOR ALL LANDSCAPE INSTALLATION WORK.
- 2. WORK SHALL BE PERFORMED BY PERSONNEL EXPERIENCED IN IRRIGATION INSTALLATION AND UNDER THE SUPERVISION OF A SKILLED FOREMAN.
- CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION OF SLEEVES UNDER PAVING, ETC.
- CONTRACTOR TO PROVIDE SUBMITTALS OF ALL MATERIALS, INCLUDING VALVES, CONTROLLER, IRRIGATION HEADS, AND OTHER EQUIPMENT NEEDED TO COMPLETE THE IRRIGATION INSTALLATION AS DESIGNED. 4. IRRIGATION EQUIPMENT NOT DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN THE MATERIALS AND WORKMANSHIP FOR ONE YEAR AFTER FINAL ACCEPTANCE OF PROJECT, AND SHALL REPLACE ANY DEFECTIVE MATERIAL OR REDO ANY WORK AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS TO VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO PERFORMING ANY EXCAVATIONS. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 FOR UTILITY MARKING. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY, OR DURING THE PERFORMANCE OF HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
- PIPING LAYOUT IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS OR OUTSIDE PROPERTY LINE SHALL BE PLACED IN LANDSCAPE AREAS WITHIN THE PROJECT LIMITS, 24" FROM BACK OF CURB OR 一 7. SIDEWALK, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR CALLING THE PROJECT LANDSCAPE ARCHITECT FOR IRRIGATION INSTALLATION INSPECTIONS. THE CONTRACTOR SHALL CONTACT AUTHORIZED INSPECTOR 72 HOURS IN 8. ADVANCE TO ARRANGE FOR INSPECTIONS. INSPECTIONS WILL NEED TO TAKE PLACE AT THE FOLLOWING POINTS DURING CONSTRUCTION: A. IRRIGATION INSTALLATION (PRIOR TO BACKFILLING),
- B. UPON INSTALLATION OF PLANTING, C. PRE- MAINTENANCE PERIOD,
- D. END OF MAINTENANCE PERIOD (FINAL INSPECTION)
- 9. VALVE BOXES SHALL BE PLACED IN PLANTING AREAS AT FINISH GRADE. ALIGN VALVE BOX WITH ADJACENT PAVING EDGE, WITH 18" OFFSET FROM PAVING EDGE. VALVE BOX TO CONFORM WITH FINISH GRADE (NOT NECESSARILY LEVEL).
- IO. CONTRACTOR SHALL USE SCHEDULE 40 ELECTRICAL PVC CONDUIT FOR CONTROL WIRES PASSING UNDER PAVING. NON-ELECTRICAL SCHEDULE 40 SLEEVES SHALL BE SIZED TWICE THE DIAMETER OF PIPE CARRIED. CONTRACTOR IS TO INSTALL LATERALS AND/OR MAIN TO BE SLEEVED AT THE SAME TIME. ALL SLEEVED LINES UNDER PAVING SHALL HAVE A MINIMUM DEPTH OF 24".
- FOR ALL LOCATIONS OF SLEEVES UNDER SIDEWALKS WITH SCHEDULE 40 SLEEVES, CONTRACTOR SHALL PRE-INSTALL LATERAL LINES AND/OR MAIN LINES WHICH ARE INDICATED ON PLAN AT TIME OF SLEEVE INSTALLATION. TEMPORARY CAPS TO BE PLACED ON ALL PRE-INSTALLED SLEEVES AND LINES.
- 12. TRENCHING IS TO BE OF SUFFICIENT DEPTH TO PROVIDE A MINIMUM 18" OF COVER OVER IRRIGATION MAIN LINES AND CONTROL WIRE, AND 12" OF COVER OVER PVC LATERAL LINES. ALL SLEEVED LINES UNDER PAVING SHALL BE BURIED WITH A MINIMUM DEPTH OF 24" OF COVER.
- 13. HAND DIG TRENCHES PASSING THROUGH TREE ROOT ZONES. ALL TREE ROOTS OVER I" TO BE SAVED. ROOTS I" OR SMALLER TO BE CLEAN CUT WITH SHARP, DISINFECTED PRUNING SHEARS. SEE TREE PRESERVATION CONSTRUCTION NOTES.
- 14. FOR MAIN LINE INSTALLED IN PLANTERS THE CONTRACTOR IS TO INSTALL WARNING TAPE AND COPPER LOCATING WIRE ALONG THE ENTIRE LENGTH OF THE MAIN LINE (TYPICAL).
- 15. AFTER PIPING IS INSTALLED, BEFORE SPRINKLER HEADS ARE INSTALLED AND BACKFILL COMMENCES, OPEN VALVES AND FLUSH SYSTEM WITH FULL HEAD OF WATER.
- PIPES, HEADS, VALVES AND SOIL TO PROPER LEVEL WITHOUT EXTRA COST TO OWNER.
- 17. ALL WIRE SPLICES ARE TO BE MADE WITHIN A VALVE BOX. SPLICES ARE TO BE WIRE NUTTED, SEALED, AND WATER PROOF USING '3M-DBR/Y' SPLICE KITS.
- 18. ALL COMPONENTS OF THE IRRIGATION SYSTEM SHALL BE INSTALLED AND ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND AVOID RUNOFF ONTO THE PAVED AREAS.
- 20. OPERATE IRRIGATION CONTROLLER BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
- 21. DURING 90 DAYS LANDSCAPE MAINTENANCE PERIOD MONITOR AND ADJUST IRRIGATION SYSTEM & CONTROLLER SCHEDULING AS NEEDED TO PROVIDE COMPLETE COVERAGE AND ENSURE THE HEALTH OF THE PLANT MATERIAL.
- 22. CONTRACTOR TO REPAIR OR REPLACE ANY DEFECTS IN MATERIALS OR WORKMANSHIP AND ANY SETTLING OF TRENCHES, AT CONTRACTOR'S EXPENSE.
- 23. CONTRACTOR TO PROVIDE OWNER WITH OPERATION MANUALS, PRODUCT SHEETS, TWO QUICK COUPLER KEYS AND AS-BUILT DRAWINGS.
- 24. CONTRACTOR SHALL PROVIDE LANDSCAPE ARCHITECT WITH AN ACCURATE AS-BUILT SET OF DRAWINGS OF THE IRRIGATION SYSTEM PRIOR TO FINAL ACCEPTANCE OF THE WORK. 25. ANY OVERHEAD SPRAY LOCATED ADJACENT TO AND DRAINING TO IMPERVIOUS SURFACING SHALL NOT BE LOCATED CLOSER THAN 2' TO ANY IMPERVIOUS SURFACING AND NO OVER SPRAY SHALL BE PERMITTED ON TO IMPERVIOUS SURFACES. SEE DETAIL #7 ON SHEET LOG.
- 26. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCE IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL RESUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
- 27. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.
- 28. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAYBE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH AS FITTINGSETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THEN WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- 29. ELECTRICAL CONTRACTOR TO SUPPLY 120 VOLT A.C. (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER.



I. INSTALL ONE EMITTER PER TREE OR SHRUB.

OF 3" AWAY FROM THE CENTER OF THE TRUNK.

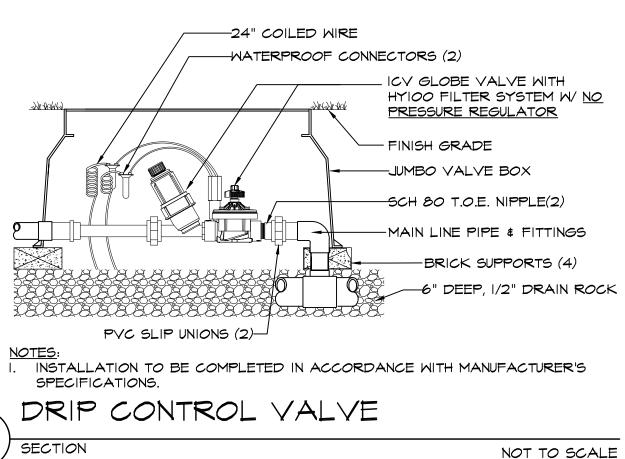


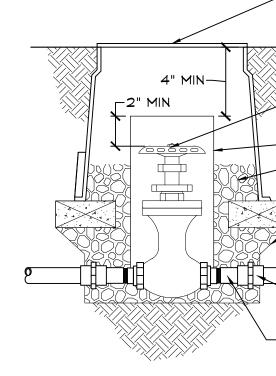
2. EMITTER SHALL BE PLACED WITHIN SHRUB OR TREE ROOT ZONE AND A MINIMUM

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, SITE CONDITIONS, LOCATIONS OF STRUCTURES, AND UTILITIES. HE SHALL COORDINATE WITH GENERAL

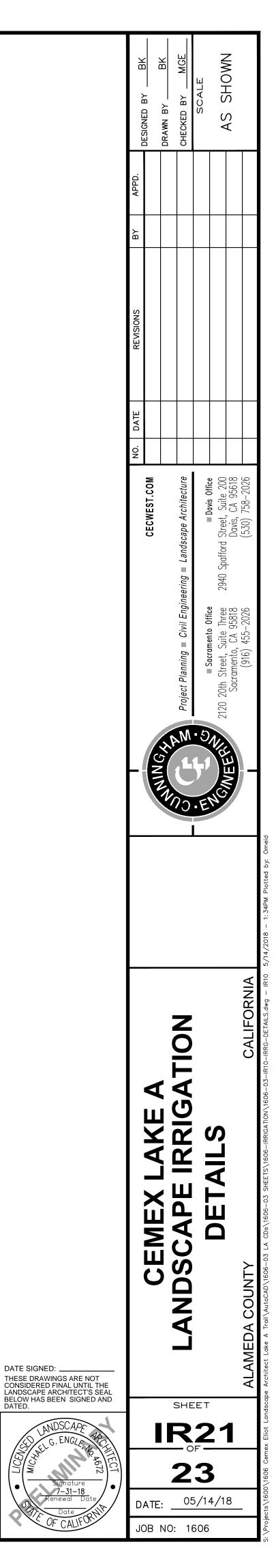
16. AFTER REQUIRED TESTS AND INSPECTIONS, BACKFILL TRENCHES WITH CLEAN SOIL, FREE OF ROCKS AND RUBBISH. COMPACT TO 85% (95% UNDER PAVING) RELATIVE DENSITY. IF SETTLEMENT OCCURS, ADJUST

19. MAKE MINOR ADJUSTMENTS TO ANY PLANT WHERE CONFLICTS WITH UTILITIES OR CLEARANCES OCCURS. ADJUST IRRIGATION AS NEEDED TO PROVIDE ADEQUATE IRRIGATION.









- 10" ROUND VALVE BOX

FINISH GRADE

-6" PVC

MAINLINE.

GATE VALVE, SEE IRRIGATION

- 6' DEEP, 1/2" DRAIN ROCK

PRESSURE SUPPLY LINE

-SCH 40 COUPLING. SIZE PER

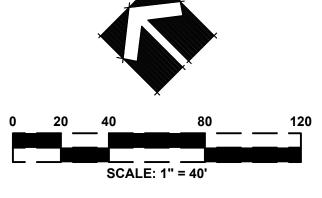
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- BRICK SUPPORT (3).

- LANDSCAPE FABRIC

LEGEND FOR MORE INFORMATION

NOT TO SCALE



DATE SIGNED: ____





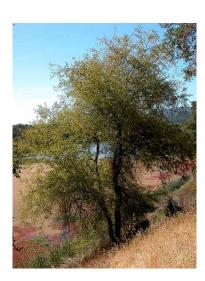
WHITE ALDER



CALIFORNIA SYCAMORE



FREMONT COTTONWOOD





RED WILLOW

ARROYO WILLOW





HOWARD McMINN MANZANITA



MULEFAT



BUTTONBUSH



DWARF COYOTE BRUSH



CALIFORNIA FUCHSIA



STICKY MONKEY FLOWER





DEER GRASS



BLANDO BROME



ZORRO FESCUE



COAST LIVE OAK



VALLEY OAK



WESTERN REDBUD



TOYON



COFFEEBERRY



BLACK SAGE



CALIFORNIA POPPY



ROSE CLOVER



VALLEY LUPINE

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