

construction plans for:

McGREGOR PARK

CITY OF CAPITOLA

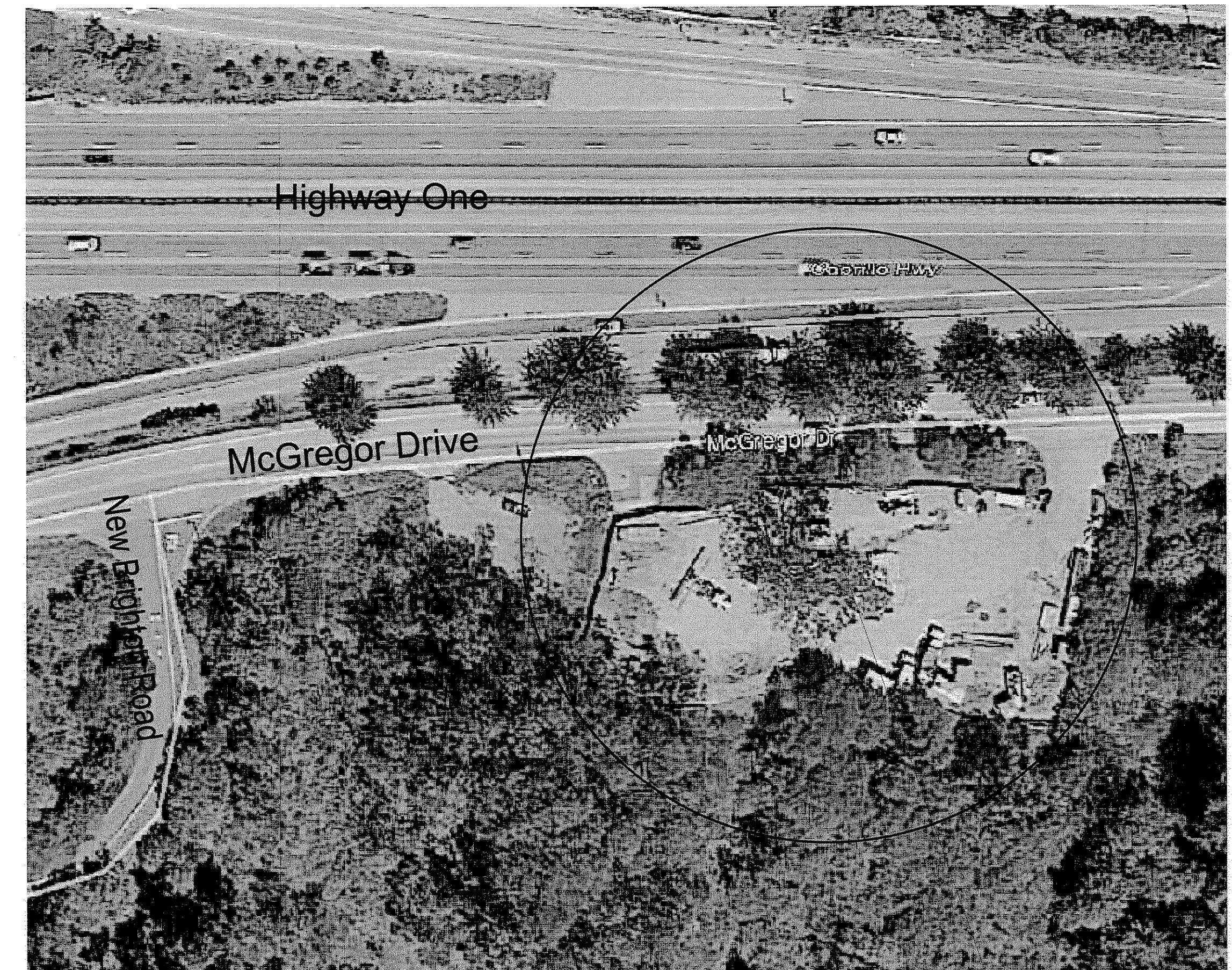
McGREGOR DRIVE, CAPITOLA

April 16, 2014

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L - 4.1	East Irrigation Plan
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Vicinity Map



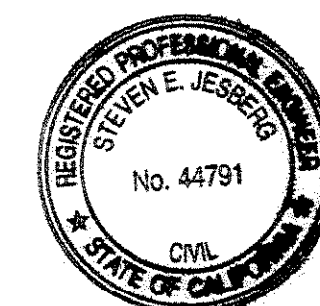
Park Location

Michael Arnone + Associates
LANDSCAPE ARCHITECTURE

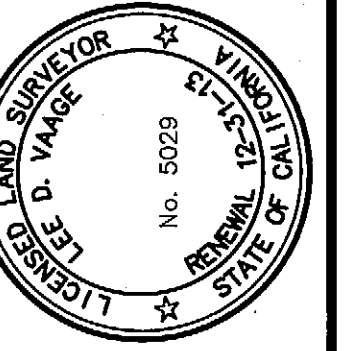
831.462.4988 mike@amonelandscape.com www.arnonelandscape.com

PLAN APPROVAL:

Steven E. Jessberg
STEVEN E. JESBERG
PUBLIC WORKS DIRECTOR
CITY OF CAPITOLA



STATE HIGHWAY ROUTE 1



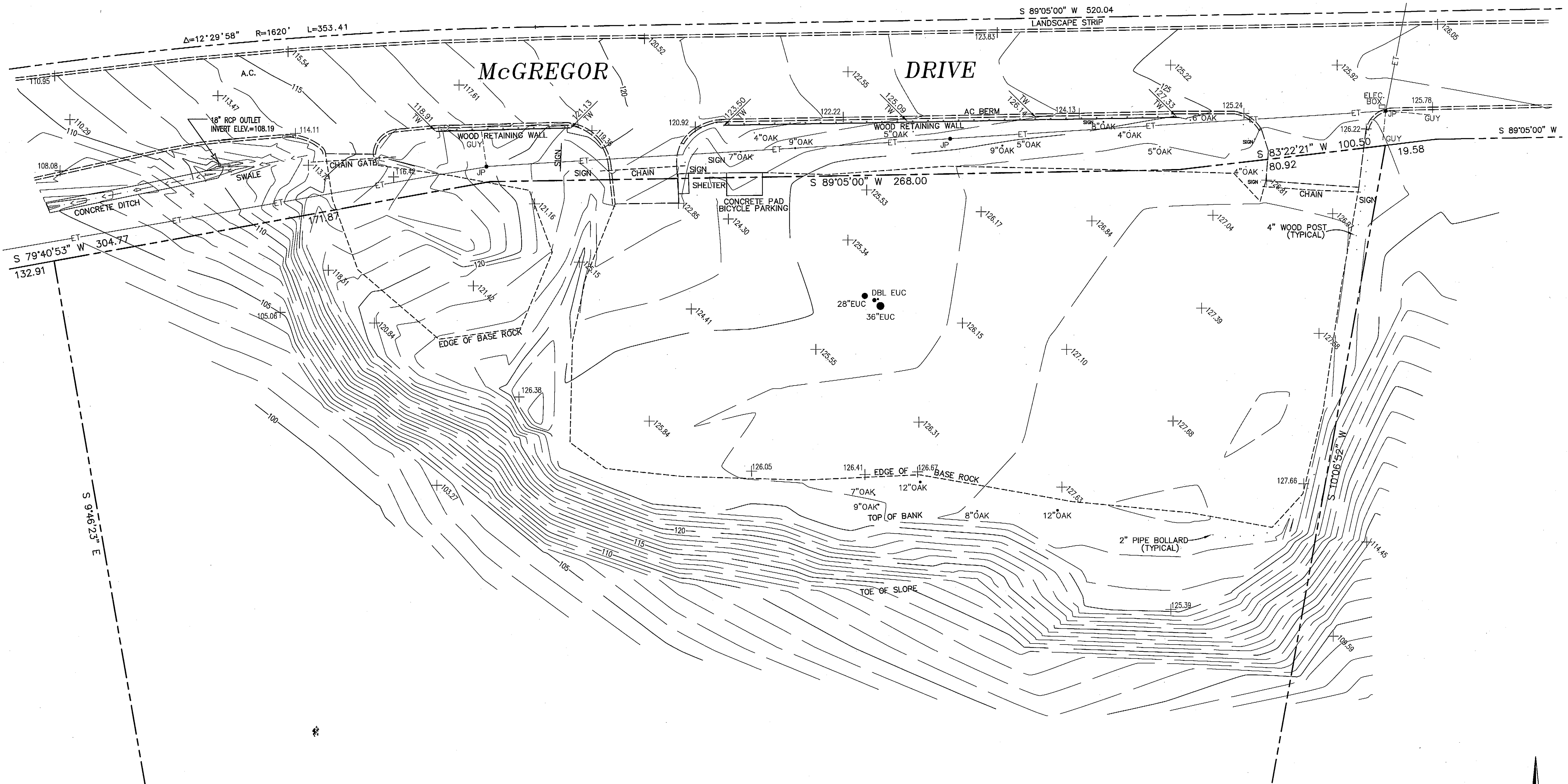
MID COAST ENGINEERS
CIVIL ENGINEERS AND LAND SURVEYORS
 70 PENNY LANE, SUITE A WATSONVILLE, CA 95076 -- (831) 724-2580



TOPOGRAPHIC MAP FOR
CITY OF CAPITOLA
 MCGREGOR DRIVE LOT
 CAPITOLA, CA 95010
 APN 036-341-02
 SANTA CRUZ COUNTY, CALIFORNIA

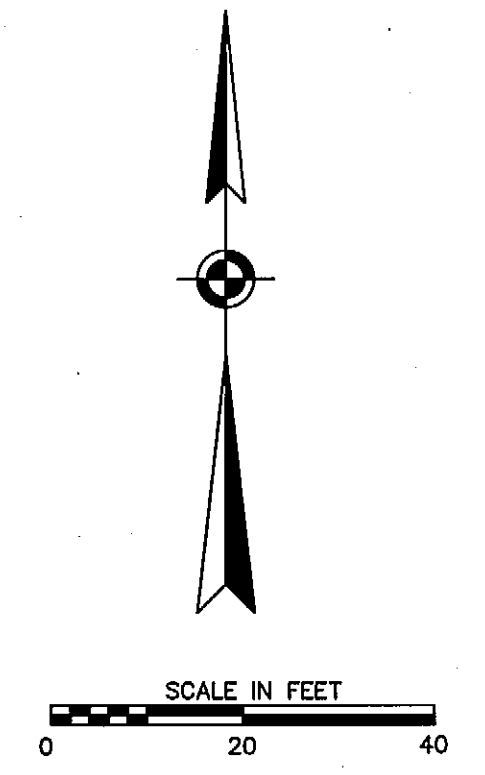
SCALE: 1" = 20'
 DESIGNED BY: LV
 DRAWN BY: MEF
 DATE: 01/17/1997
 REVISED: 08/02/2013
 JOB NO.: 96206
 SHEET

1
 OF 1 SHEETS



- LEGEND**
- WOODEN POST OR PIPE BOLLARD
 - JP JOINT POLE, ELECTRICAL & TELEPHONE
 - TW TOP OF RETAINING WALL
 - +127.25 SPOT ELEVATION (TYPICAL)
 - ET- OVERHEAD ELECTRICAL/TELEPHONE LINE

CONTOUR INTERVAL IS 1 FOOT
 DISTANCES IN FEET AND DECIMALS THEREOF



BENCHMARK IS A SANTA CRUZ COUNTY BRASS TAG NO. 233 OFF MCGREGOR DRIVE, ON THE WING WALL OF A CONCRETE DITCH 30' EAST OF THE NEW BRIGHTON ACCESS, 50' NORTH OF A GAS LINE CROSSING AND 55' WEST OF THE CENTERLINE OF THE SOUTHERN PACIFIC RAILROAD TRACKS. ELEVATION = 64.164, NGVD '29.

NOTE: BOUNDARY DATA SHOWN IS COMPILED FROM THE STATE HIGHWAY RIGHT OF WAY MAP R-44B.3, DATED 6-62. COORDINATE VALUES BASED ON THE CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD 83 WERE DERIVED FROM MONUMENTS GPS-18 AND GPS-37, AS SHOWN ON THE RECORD OF SURVEY FILED IN VOLUME 81 MAPS, PAGE 11. NAD 83 COORDINATES WERE TRANSLATED TO NAD 27 VALUES AS SHOWN ON THE HIGHWAY MAP USING CORPSCON V3.01.

McGREGOR PARK
 CITY OF CAPITOLA
 McGREGOR DRIVE, CAPITOLA

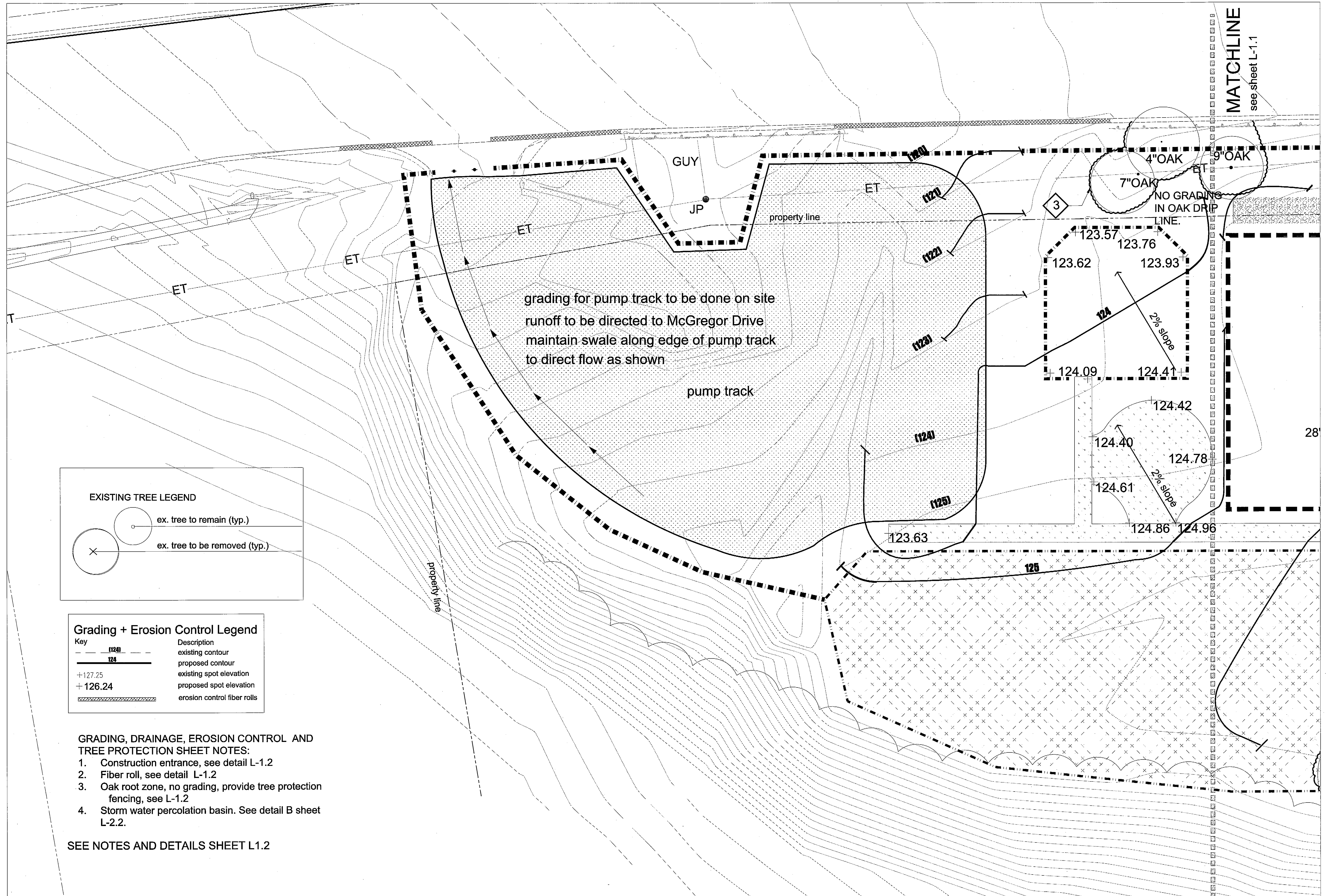


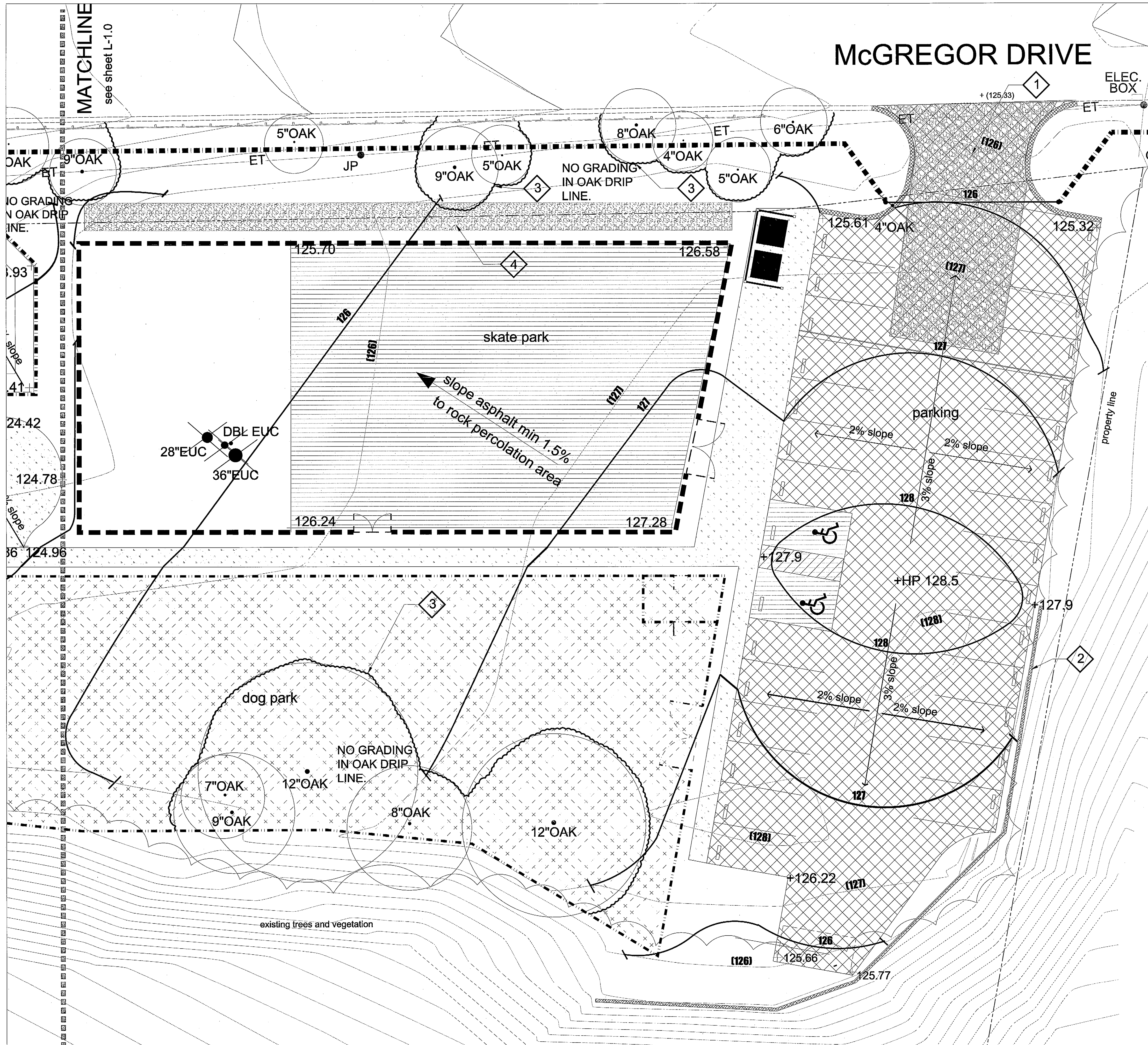
DATE	PURPOSE	BY
1.6.14	planning commission submitted	MAA
2.25.14	pod placement	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
 1" = 10' - 0"

sheet title:
 West Grading +
 Drainage, Erosion
 Control, Tree
 Protection Plan

sheet number:
L-1.0
 of fourteen





McGREGOR DRIVE

EXISTING TREE LEGEND

○ ex. tree to remain (typ.)

⊗ ex. tree to be removed (typ.)

Grading + Erosion Control Legend

Key

(126)	existing contour
126	proposed contour
+127.25	existing spot elevation
+126.24	proposed spot elevation
[hatched pattern]	erosion control fiber rolls

- GRADING, DRAINAGE, EROSION CONTROL AND TREE PROTECTION SHEET NOTES:**
1. Construction entrance, see detail L-1.2
 2. Fiber roll, see detail L-1.2
 3. Oak root zone, no grading, provide tree protection fencing, see L-1.2
 4. Storm water percolation basin. See detail B sheet L-2.2.

SEE NOTES AND DETAILS SHEET L1.2

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McGREGOR PARK

CITY OF CAPITOLA

McGREGOR DRIVE, CAPITOLA



DATE	PURPOSE	BY
1.6.14	planning commission submittal	MAA
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 East Grading +
 Drainage, Erosion
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sheet number:
L - 1.1
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EROSION CONTROL NOTES:

- The intention of the erosion control measures shown on this plan are for interim erosion and sediment control only. All erosion control measures shall conform to California Regional Water Quality Control's Field Manual for Erosion and Sedimentation Control, The California Storm Water Quality Association Best Management Practices Handbook for Construction and the local governing agency for the project.
- No land clearing, grading, or excavation shall be done between October 15th and April 15th.
- The Contractor shall be responsible for implementing and maintaining site erosion control at all times.
- The Contractor shall be responsible for checking and repairing erosion control systems after storm events and in the event of damage from construction processes.
- Measures shall be taken to collect and clean any accumulation of dirt, mud, sand, gravel or rocks on the surface of any street. Removal shall be done with street sweepers or hand sweeping. Water shall not be used to wash sediments into public or private drainage systems.
- Unnecessary grading and disturbing of soil shall be avoided.
- Between October 15th and April 15th exposed soil shall be protected from erosion at all times. Hay bales, fiber berms, silt fences or other means shall be employed to prevent sediment from leaving the site and entering any watercourse.
- During construction, no turbid water shall be permitted to enter the channel or storm drain system. Use of silt or grease traps, filter berms, hay bales or silt fences shall be used to prevent such discharge.
- Construction entrances shall be installed prior to commencement of grading. All construction traffic entering on to the paved roads must cross the stabilized construction entrances. Contractor shall maintain a stabilized entrance at each entrance to a paved street. Any mud or debris tracked onto the public streets shall be removed daily.
- All areas on- and off-site exposed during construction activities, if not permanently landscaped per plan, shall be protected by mulching and/or planting of the following SCS approved erosion control mix at a rate of 35lbs. per acre.

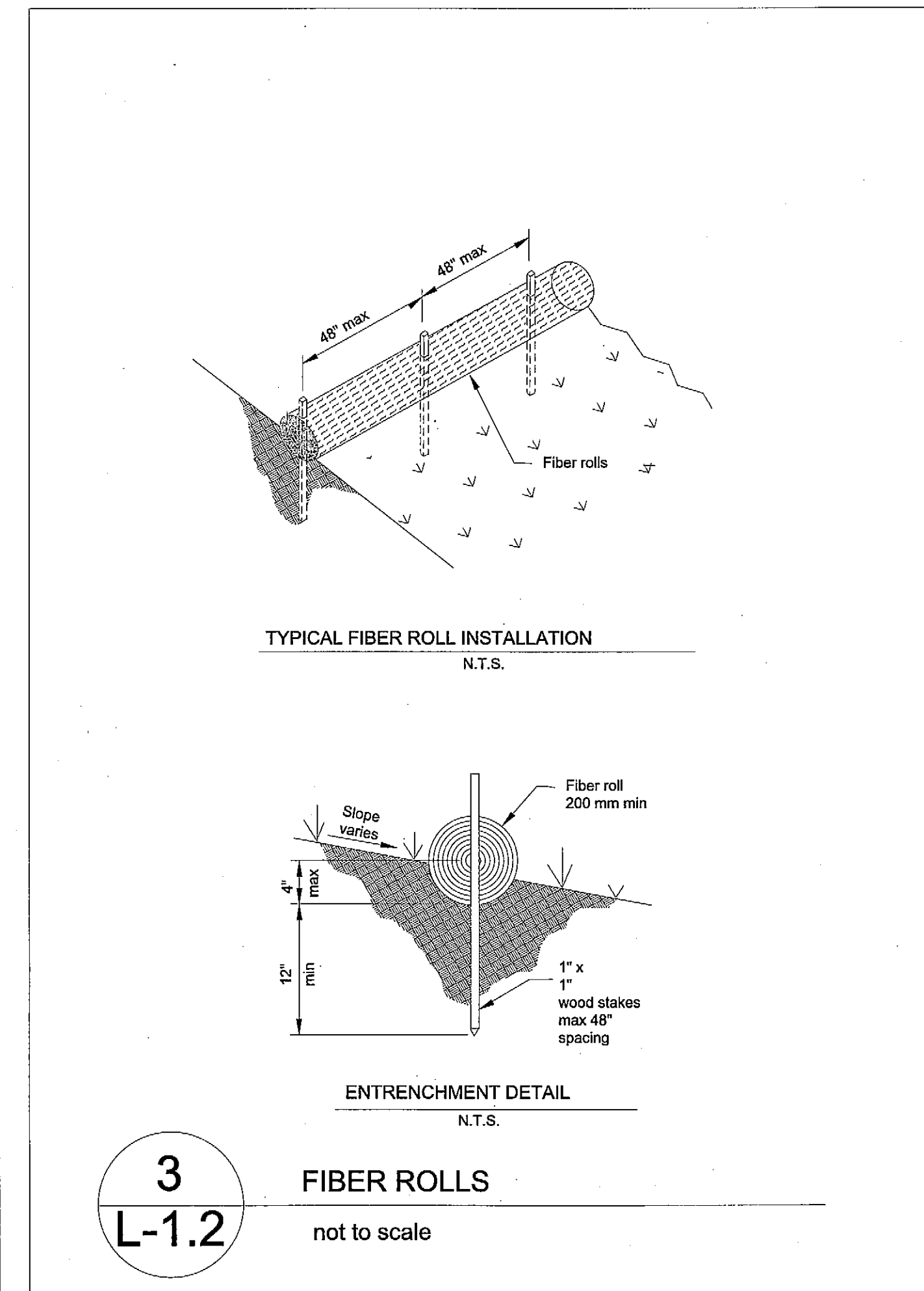
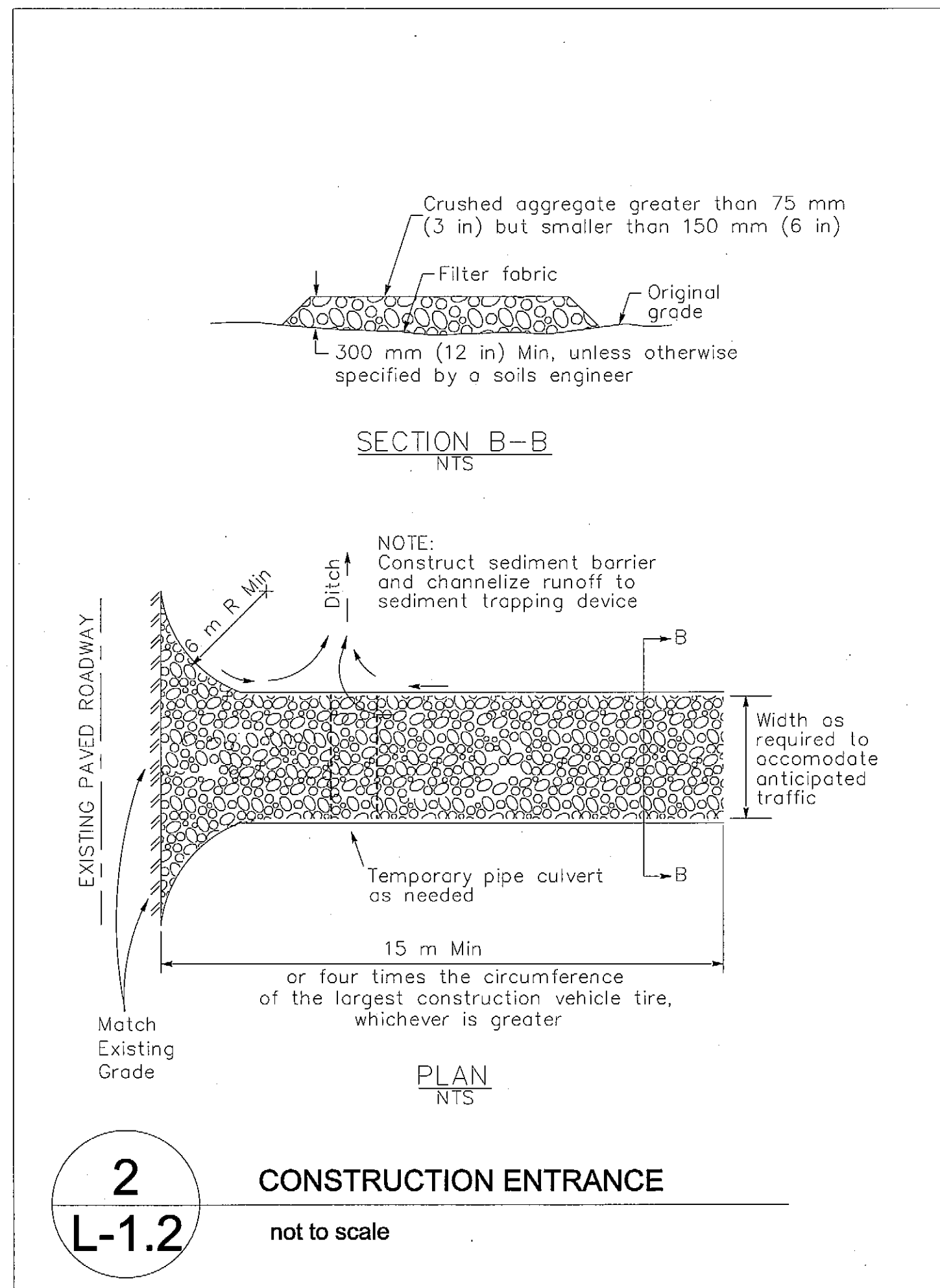
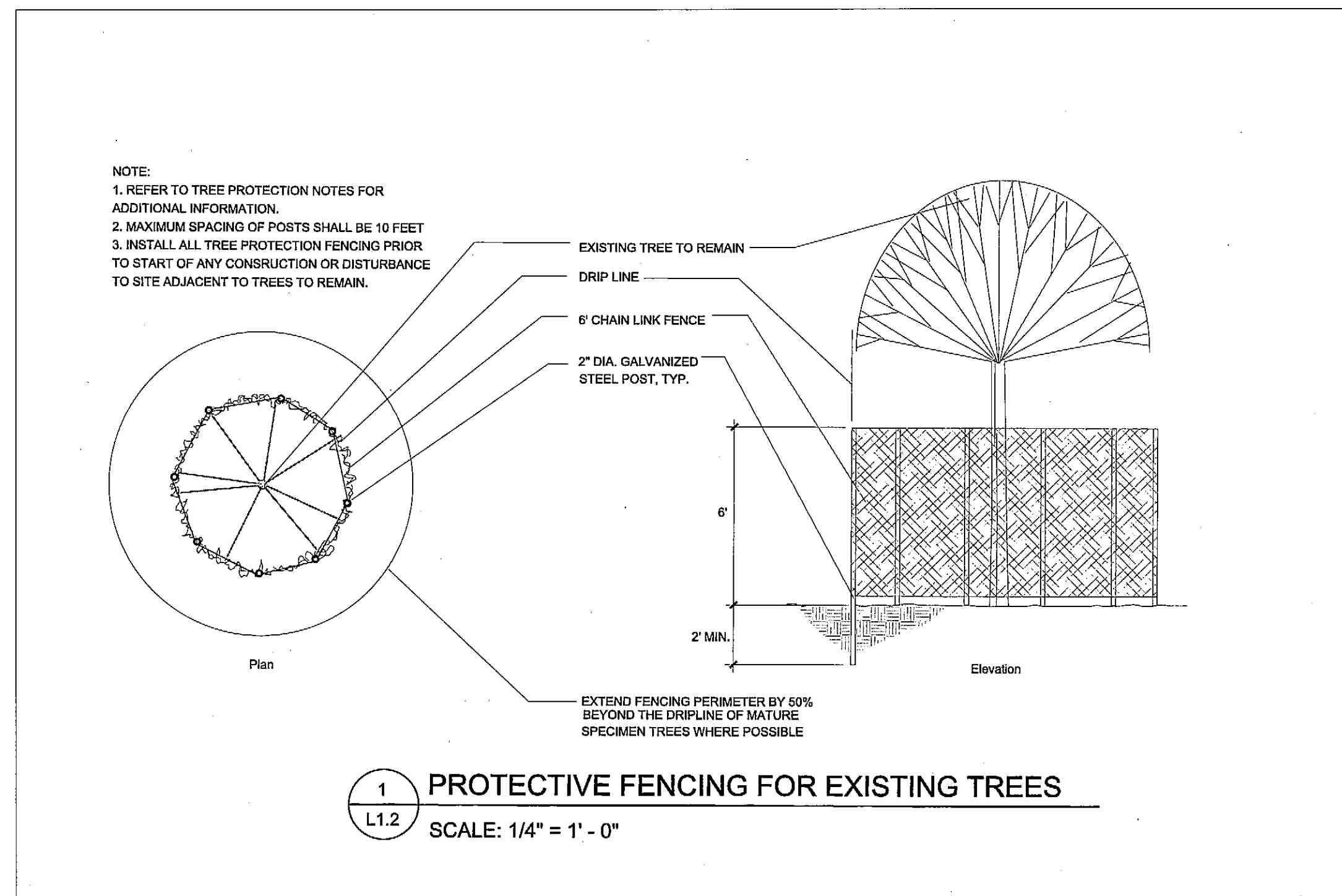
Blando Bromes	50%
Rose Clover (pellet inoculated)	35%
Creeping Red Fescue	15%
Zorro Annual Fescue	Trace
- All excavated material shall be removed to an approved disposal site or disposed of on-site in a manner that will not cause erosion.
- Any material stockpiled on-site shall be covered with plastic during the winter months or during periods of rain.
- Exposed soil on slopes greater than 20% shall be seeded, covered with 2" of straw, and an erosion control blanket. The erosion control blanket shall be staked in place.
- Fiber rolls shall be placed along the top of the down slope perimeter as shown by symbol on plan. Placement shall run with contours and rolls shall be tightly end butted. Contractor shall refer to manufacturers specifications for placement and installation instructions.
- The Contractor shall be responsible for seeing that additional measures necessary to control site erosion and prevent sediment transport off-site are implemented.

TREE PROTECTION NOTES:

- Prior to initiating any construction activity in the area, including grading, temporary fencing shall be installed at each site tree. Fencing shall be located at or beyond the canopy drip line so that 100% of the drip line will be protected by fencing. To reduce soil compaction from equipment, a mulch of 1-2 inch sized wood chips shall be placed at a depth of 4 inches where no excavation is to occur in the vicinity of the trees to be protected.
- The tree protection fence shall be 6' high chain link with immovable posts. The fencing shall form a continuous barrier without entry points around each tree. Any encroachment into the drip line for fencing or construction purposes shall not be permitted.
- Low hanging limbs of saved trees shall be pruned prior to grading, or any equipment mobilization on site. The purpose of this requirement is to avoid tearing limbs by heavy equipment. All limbs to be pruned shall be supervised by the arborist of record for the job.
- This fencing shall serve as a barrier to prevent drip line encroachment of any type of construction activities and equipment. No oils, gas, chemicals, liquid waste, solid waste, construction machinery or construction materials shall be stored or allowed to stand for any period of time within the drip line of the tree. Further, no one shall enter the fence perimeter for any reason except for the purpose of monitoring the health of the tree. Accidental damage to bark, root crown, or limbs may increase the potential for future decline in the health of the tree.
- Contractors and subcontractors shall direct all equipment and personnel to remain outside the fenced area and at all times until the project is complete, and shall instruct employees as to the purpose and importance of fencing.
- A warning sign shall be posted at each tree indicating the purpose of the fencing.
- The arborist of record for the job and or the city arborist shall be responsible for inspection and approval of the fencing prior to any grading operations.
- Fencing must remain in place and shall not be removed until all construction activities are completed. This shall include grading and compaction activities, installation of underground utilities, all construction activities, and any other construction or activity that is scheduled prior to landscape installation.
- Roots of single standing trees often extend up the to three times the distance of the actual drip line and function primarily in the uptake of nutrients and water. The drip line is arbitrarily established as the minimum root area generally required to preserve tree health. As much area around the circumference of the tree should have minimum intrusion to further insure tree survival and health.
- Unauthorized tree removal is subject to in-kind replacement equal to the mature resource lost as determined by the city.
- The contractor is required to water, fertilize and attend to other maintenance needs of existing trees as needed per arborist's recommendations to maintain healthy growth throughout the construction period. Six foot diameter minimum by six inch tall earth berms shall be constructed at the base of each tree to function as temporary watering basins during the construction period. Trees shall be watered according to weather and tree requirements.

GRADING and DRAINAGE NOTES:

- All grading shall be done in conformance with Capitola Municipal Code Chapter 13.16, Storm Water Pollution Prevention and Protection.
- Vegetation, roots and deleterious materials shall be removed from area to be graded prior to grading.
- Cut and fill slopes shall be 3:1 maximum or flatter - no exceptions.
- Dirt, strippings or structural fill will not be allowed to move on or off-site, through public rights-of-way or streets by non-licensed or off-road vehicles.
- Fill shall be compacted to 90% relative compaction unless otherwise noted.
- After grading, spread topsoil from strippings and landscaped areas 3" to 6" deep.



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McGREGOR PARK
 CITY OF CAPITOLA
 McGREGOR DRIVE, CAPITOLA



DATE	PURPOSE	BY
1.6.14	planning commission submittal	MAA
2.25.14	pod placement	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
as noted

sheet title:
 Grading + Drainage,
 Erosion Control, Tree
 Protection Notes and
 Details

sheet number:
L - 1.2
 of fourteen

- LAYOUT AND MATERIALS SHEET NOTES:
- Form and pour new asphalt curbs for new entry.
 - Vehicle gate re-use existing.
 - Portable restroom to be provided by other.
 - 3" High wooden screen; see detail K sheet L-2.2
 - Solar powered LED light; see schedule this sheet
 - Bike racks; see schedule this sheet
 - Trash recycling receptacles; see schedule this sheet
 - Drinking fountain; see schedule this sheet, install as per manufacturer instructions
 - Dog clean-up station; see schedule this sheet
 - Decomposed granite path; see detail A sheet L-2.2
 - Service access gates
 - Benches; see schedule this sheet
 - Kids play area; see detail L sheet L-2.2
 - Two seat game table; see schedule this sheet
 - sleeve under paving (typical)
 - Form and pour new asphalt curb
 - Form and pour new asphalt curb leave opening 13' wide for vehicle at service access gate.
 - Storm water percolation basin. See detail B sheet L-2.2.
 - Openings in fence, 13'-0" wide with removable bollards on west entry, 6" wide on east entry (no bollards). See bollard detail M sheet L-2.2.
 - Donor Sign; see detail H sheet L-2.2
 - Drinking fountain percolation pit: 16" diameter, 3' deep filled with 3/4" drain rock. Connect drain line from fountain to pit.
 - Planned location of recycling pod.

- CONSTRUCTION NOTES:
- Contractor shall notify Underground Service Alert (USA) at 800.642.2444 to verify the location and depth of all existing utilities prior to any demolition, trenching or excavation.
 - All spoils and debris from the demolition work shall be hauled off site and disposed of in a lawful manner as part of the Contractor's site and demolition work.
 - Contractors shall review all related work required on all other landscape architectural sheets and specifications prior to start of construction.
 - Contractor shall take care not to damage in any way, any existing elements to remain. Such damage is the responsibility of the contractor and shall be replaced or repaired to match the original at no additional cost to the owner.
 - All dimensions and elevations shall be verified in the field and chalked, flagged or string lined prior to any construction. If any discrepancies occur, notify Landscape Architect immediately before proceeding.

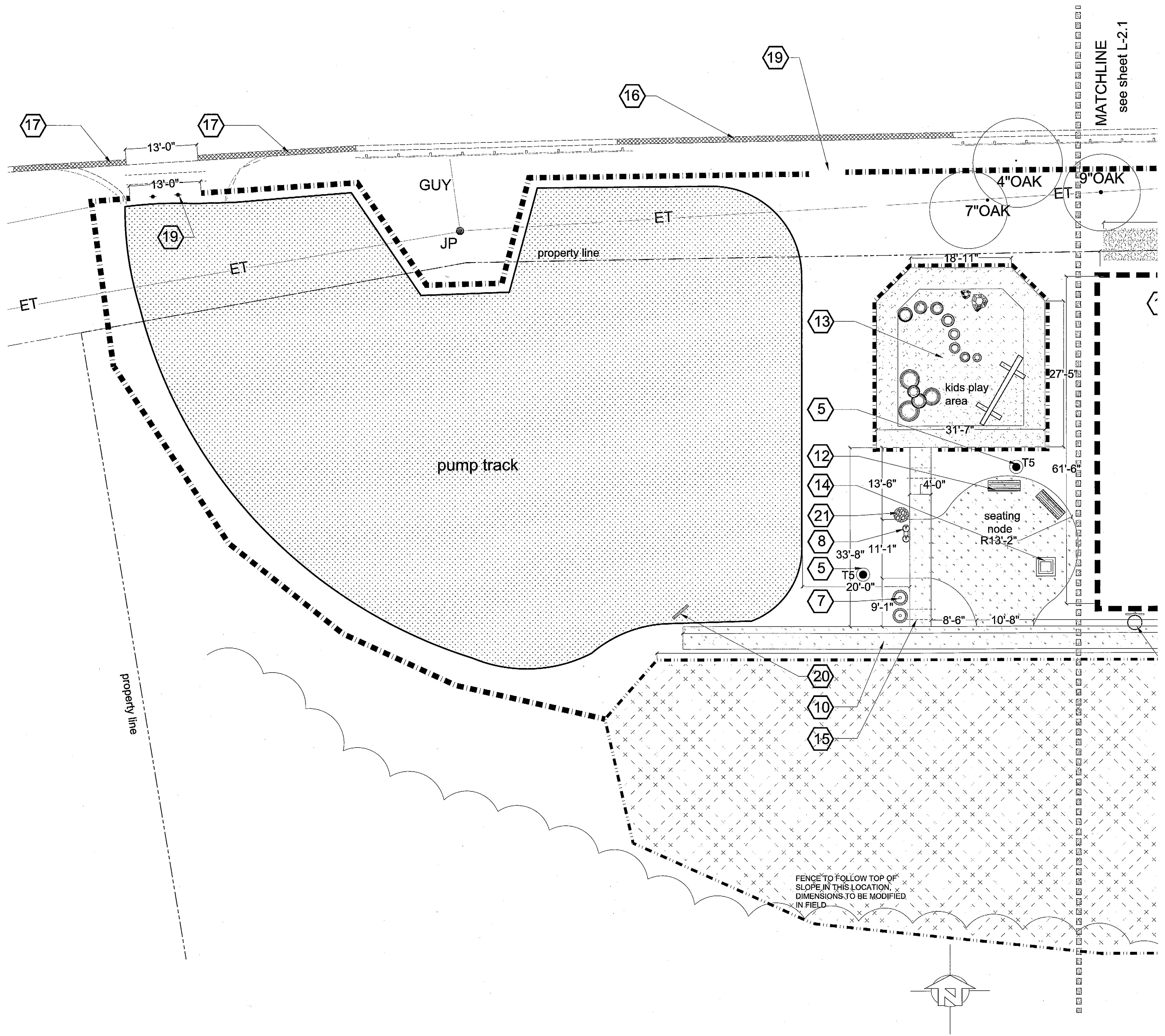
KEY	DESCRIPTION	MANUFACTURER	MODEL #	COLOR/FINISH/MOUNT	QUANTITY	CONTACT
⊖	BIKE RACK SINGLE SIDE ENTRY, 9 OPENINGS	DuMor	81-10	BLACK BOLT TO CONCRETE FOOTING	3	dumor.com casyh@resnec.com
⊖	TRASH RECEPTACLE 32 GALLON W/ LINER & DOME LID	PARK N POOL	11RE-00008 11AC-00022 11RE-00026	GRAY RECEPTACLE & LID ANCHOR TO CONCRETE FOOTING	3	parknpoool.com
⊖	RECYCLING RECEPTACLE 32 GALLON W/ LINER & DOME LID	PARK N POOL	11RE-00008 11AC-00022 11RE-00026	MYSTIC BLUE RECEPTACLE & LID ANCHOR TO CONCRETE FOOTING	3	parknpoool.com
⊖	BENCH RECYCLED PLASTIC W/ BACK	DuMor	BENCH 165 156-802L	HUNTER GREEN AND REDWOOD ANCHOR TO CONCRETE FOOTING	2	dumor.com casyh@resnec.com
⊖	GAME TABLE 2 SEAT RECYCLED PLASTIC	DuMor	TABLE 78 W/ 2 SEATS 78-30PL	HUNTER GREEN AND REDWOOD ANCHOR TO CONCRETE FOOTING	1	dumor.com casyh@resnec.com
⊖	DRINKING FOUNTAIN ADA COMPLIANT W/ DOG BASIN	HAWS	3500 D	CUSTOM BLUE BOLT TO CONCRETE FOOTING SEE MANUFACTURERS DETAIL	2	hawsco.com casyh@resnec.com
⊖	DOG STATION	DOODY CALLS DIRECT	THE GLADIATOR	BLACK ANCHOR TO CONCRETE FOOTING	2	doodycallsdirect.com
⊖	4" DIA. EXTERNAL LOCKING REMOVABLE BOLLARD	CALPIPE	ISPD4040 W/ 18" SLOPE AND 18" BOLLARD COLOR: FOREST GREEN	EXTENDS 18" ABOVE GRADE AND 18" BELOW GROUND SEE DETAIL GL-2.2	2	calpipebollards.com j.pederson@calpipe.com
⊖	SOLAR LED LIGHT FIXTURE ON 12 FOOT POLE	FIRST LIGHT TECHNOLOGIES	FPL SERIES TYPE 3 EMS	BLACK SEE MANUFACTURERS DETAIL	3	firstlighttechnologies.com
⊖	SOLAR LED LIGHT FIXTURE ON 16 FOOT POLE	FIRST LIGHT TECHNOLOGIES	FPL SERIES TYPE 5 EMS	BLACK SEE MANUFACTURERS DETAIL	2	firstlighttechnologies.com

* SEE PRODUCT CUT SHEETS ON L-2.3

KEY	DESCRIPTION	LOCATION	COLOR/FINISH/METHOD	SQUARE FOOTAGE (APPROXIMATE)
⊖	ASPHALT	SKATE PARK	2" THICK ASPHALTIC CONCRETE OVER 6" COMPACTED BASEROCK SUB BASE SEE DETAIL GL-2.2	5,455 SQ FT
⊖	ASPHALT	ADA PARKING	2" THICK ASPHALTIC CONCRETE OVER 6" COMPACTED BASEROCK SUB BASE SEE DETAIL GL-2.2	468 SQ FT
⊖	DECOMPOSED GRANITE w/ STABILIZER	PATHWAYS AND SEATING AREA	2" THICK CAL GOLD COLOR DECOMPOSED GRANITE OVER 4" COMPACTED DRAIN ROCK SEE DETAIL AL-2.2	2,394 SQ FT
⊖	COBBLE	TOP OF PERCOLATION BASIN	2" THICK BED OF SMALL WATER WASHED COBBLE OVER TOP OF PERC. BASIN - SEE DETAIL BK-2.2	840 SQ FT
⊖	BARK MULCH	KIDS PLAY AREA	8" THICK BED OF ENGINEERED FIBER (OR EQUAL)	1,021 SQ FT
⊖	BARE SOIL	DOG PARK PUMP TRACK PHASE I SKATE PARK	CLEAR OF ROOTS AND LARGE ROCKS ROUGH GRADE TO DRAIN TOWARD MC GREGOR DRIVE	27,088 SQ FT
⊖	GRAVEL	MAIN PARKING LOT	6" COMPACTED BASEROCK OVER COMPACTED BASE SEE DETAIL FL-2.2	9795 SQ FT

KEY	DESCRIPTION
⊖	ADA accessible walkway
⊖	4' black vinyl clad chain link fence (skate park)
⊖	42" wood and wire fence (dog park)
⊖	3' high split rail fence (kids play area and street frontage)
⊖	Existing trees to remain
⊖	Existing trees to be removed

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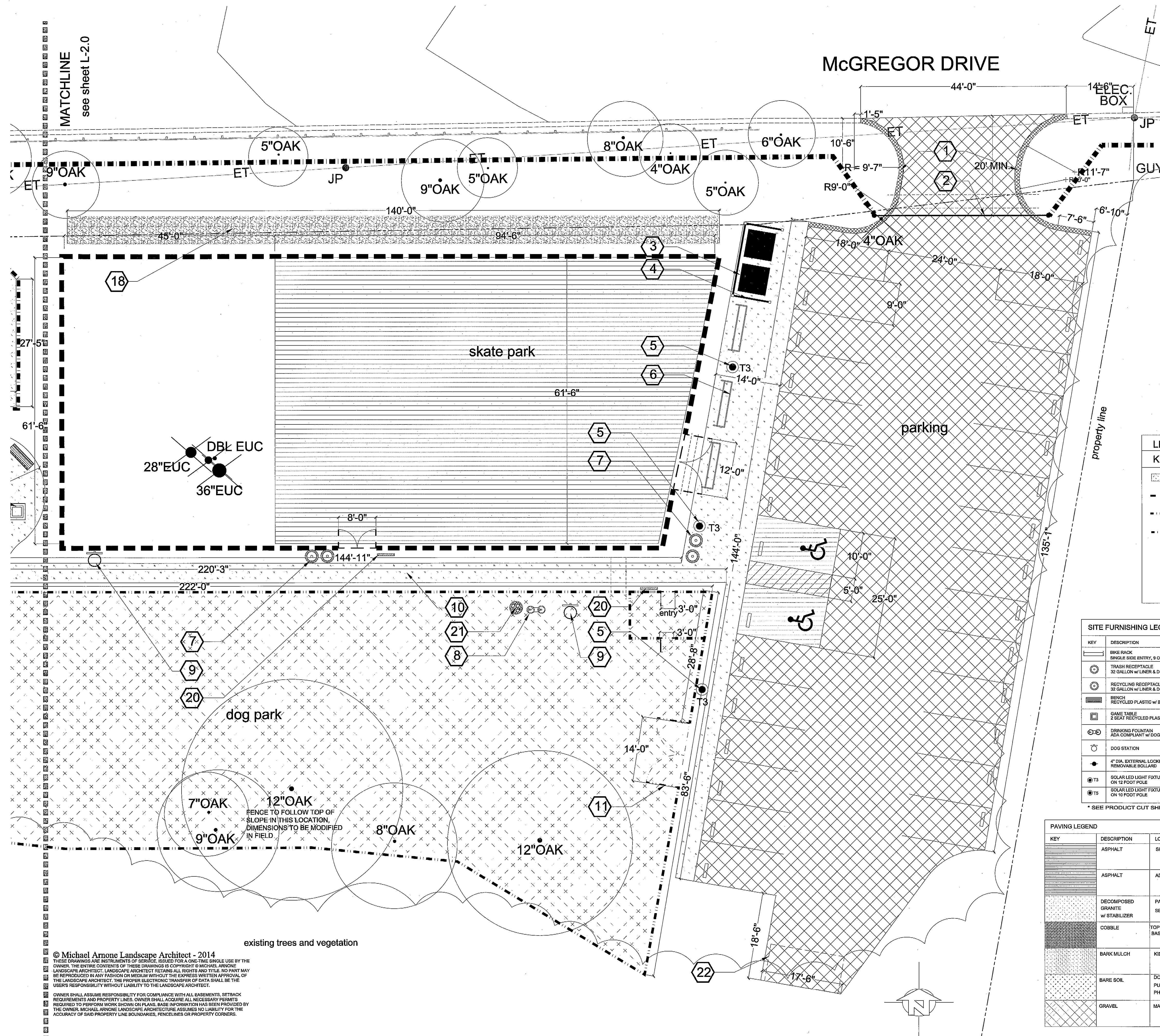


DATE	PURPOSE	BY
1.6.14	planning commission submittal	MAA
2.25.14	pod placement	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
 1" = 10' - 0"

sheet title:
 West Layout and Materials Plan

sheet number:
 L - 2.0
 of fourteen



- LAYOUT AND MATERIALS SHEET NOTES:
- Form and pour new asphalt curbs for new entry.
 - Vehicle gate re-use existing.
 - Portable restroom to be provided by other.
 - 8" High wooden screen: see detail K sheet L-2.2
 - Solar powered LED light: see schedule this sheet
 - Bike racks: see schedule this sheet
 - Trash recycling receptacles: see schedule this sheet
 - Drinking fountain: see schedule this sheet, install as per manufact. instructions
 - Dog clean-up station: see schedule this sheet
 - Decomposed granite path: see detail A sheet L-2.2
 - Service access gates
 - Benches: see schedule this sheet
 - Kids play area: see detail L sheet L-2.2
 - Two seat game table: see schedule this sheet
 - sleeve under paving (typical)
 - Form and pour new asphalt curb.
 - Form and pour new asphalt curb leave opening 13' wide for vehicle at service access gate.
 - Storm water percolation basin. See detail B sheet L-2.2
 - Openings in fence, 13'-0" wide with removable bollards on west entry, 6' wide on east entry (no bollards). See bollard detail M sheet L-2.2.
 - Donor Sign: see detail H sheet L-2.2
 - Drinking fountain percolation pit: 16" diameter, 3' deep filled with 3/4" drain rock. Connect drain line from fountain to pit.
 - Planned location of recycling pod.

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 - Contractors shall review all related work required on all other landscape architectural sheets and specifications prior to start of construction.
 - Contractor shall take care not to damage in any way, any existing elements to remain. Such damage is the responsibility of the contractor and shall be replaced or repaired to match the original at no additional cost to the owner.
 - All dimensions and elevations shall be verified in the field and chalked, flagged or string lined prior to any construction. If any discrepancies occur, notify Landscape Architect immediately before proceeding.

KEY	DESCRIPTION
	ADA accessible walkway
	4' black vinyl clad chain link fence (skate park)
	42" wood and wire fence (dog park)
	3' high split rail fence (kids play area and street frontage)
	Existing trees to remain
	Existing trees to be removed

KEY	DESCRIPTION	MANUFACTURER	MODEL #	COLOR/FINISH/METHOD	QUANTITY	CONTACT
	BIKE RACK SINGLE SIDE ENTRY, 9 OPENINGS	DuMor	81-10	BLACK bolt to concrete footing	3	durom.com caseyh@durom.com
	TRASH RECEPTACLE 32 GALLON w/ LINER & DOME LID	PARK N POOL	11RE-00028 14K-00022 11RE-00006	GRAY RECEPTACLE & LID ANCHOR TO CONCRETE FOOTING	3	parknpool.com
	RECYCLING RECEPTACLE 32 GALLON w/ LINER & DOME LID	PARK N POOL	11RE-00028 14K-00022 11RE-00006	MYSTIC BLUE RECEPTACLE & LID ANCHOR TO CONCRETE FOOTING	3	parknpool.com
	BENCH RECYCLED PLASTIC w/ BACK	DuMor	BENCH 165	HUNTER GREEN AND RECYCLED PLASTIC TO CONCRETE FOOTING	2	durom.com caseyh@durom.com
	GAME TABLE 2 SEAT RECYCLED PLASTIC	DuMor	TABLE 76 w/ 2 seats 76-32PL	HUNTER GREEN AND RECYCLED PLASTIC TO CONCRETE FOOTING	1	durom.com caseyh@durom.com
	DRINKING FOUNTAIN ADA COMPLIANT w/ DGG BASIN	HAWS	3500 D	CUSTOM BLUE bolt to concrete footing SEE MANUFACTURERS DETAIL	2	hawso.com caseyh@hawso.com
	DOG STATION	DOODY CALLS DIRECT	THE GLADIATOR	BLACK ANCHOR TO CONCRETE FOOTING	2	doodycallsdirect.com
	4" DIA. EXTERNAL LOCKING REMOVABLE BOLLARD	CALPIPE	BR30040 WITH 1/2\"/>	CUSTOM 27\"/>	2	calpipebollards.com j.pederson@calpipe.com
	SOLAR LED LIGHT FIXTURE ON 10 FOOT POLE	FIRST LIGHT TECHNOLOGIES	IFL SERIES TYPE 3 EMS	BLACK SEE MANUFACTURERS DETAIL	3	firstlighttechnologies.com
	SOLAR LED LIGHT FIXTURE ON 10 FOOT POLE	FIRST LIGHT TECHNOLOGIES	IFL SERIES TYPE 5 EMS	BLACK SEE MANUFACTURERS DETAIL	2	firstlighttechnologies.com

* SEE PRODUCT CUT SHEETS ON L-2.3

KEY	DESCRIPTION	LOCATION	COLOR/FINISH/METHOD	SQUARE FOOTAGE (APPROXIMATE)
	ASPHALT	SKATE PARK	2" THICK ASPHALTIC CONCRETE OVER 8" COMPACTED BASEROCK SUB BASE SEE DETAIL G1-L-2.2 SLOPE TO PERCOLATION BASIN	5,465 SQ FT
	ASPHALT	ADA PARKING	2" THICK ASPHALTIC CONCRETE OVER 8" COMPACTED BASEROCK SUB BASE SEE DETAIL G1-L-2.2 SLOPE TO GRAVEL PARKING LOT	468 SQ FT
	DECOMPOSED GRANITE w/ STABILIZER	PATHWAYS AND SEATING AREA	2" THICK CAL GOLD COLOR DECOMPOSED GRANITE OVER 4" COMPACTED DRAIN ROCK SEE DETAIL A1-L-2.2	2,394 SQ FT
	COBBLE	TOP OF PERCOLATION BASIN	2" THICK BED OF SMALL WATER WASHED COBBLE OVER TOP OF PERC. BASIN - SEE DETAIL B1-L-2.2	840 SQ FT
	BARK MULCH	KIDS PLAY AREA	8" THICK BED OF ENGINEERED FIBAR (OR EQUAL)	1,021 SQ FT
	BARE SOIL	DOG PARK PUMP TRACK PHASE I SKATE PARK	CLEAR OF ROOTS AND LARGE ROCKS ROUGH GRADE TO DRAIN TOWARD MC GREGOR DRIVE ROUGH GRADE TO DRAIN TOWARD PERCOLATION BASIN	27,088 SQ FT
	GRAVEL	MAIN PARKING LOT	8" COMPACTED BASEROCK OVER COMPACTED BASE SEE DETAIL F1-L-2.2	9795 SQ FT

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McGREGOR PARK
 CITY OF CAPITOLA
 McGREGOR DRIVE, CAPITOLA



DATE	PURPOSE	BY
1.6.14	planning commission submittal	MAA
2.25.14	pod placement	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
 1" = 10' - 0"

sheet title:
 East Layout and Materials Plan

sheet number:
 L - 2.1
 of fourteen

MCGREGOR PARK
CITY OF CAPITOLA
MCGREGOR DRIVE, CAPITOLA

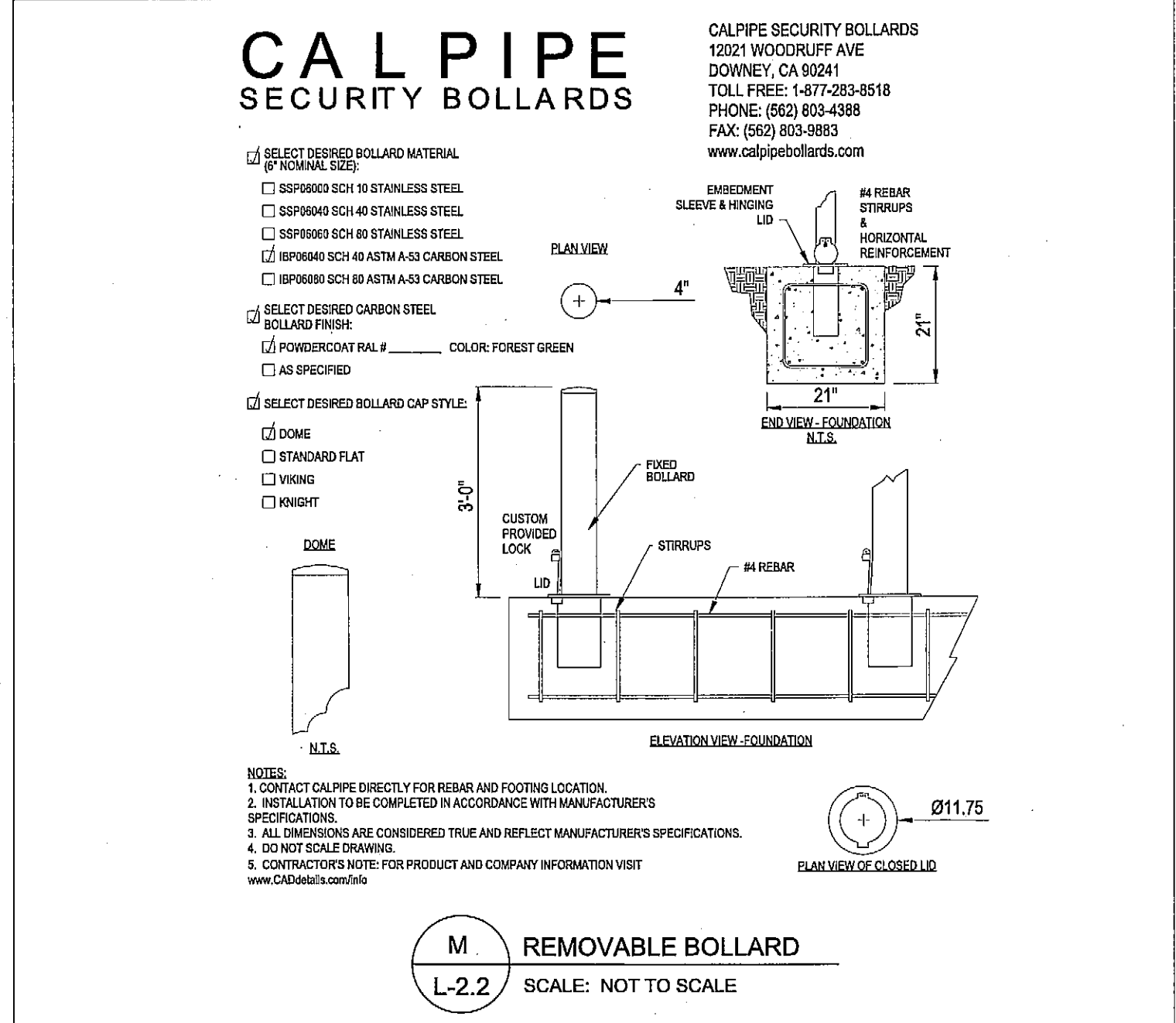
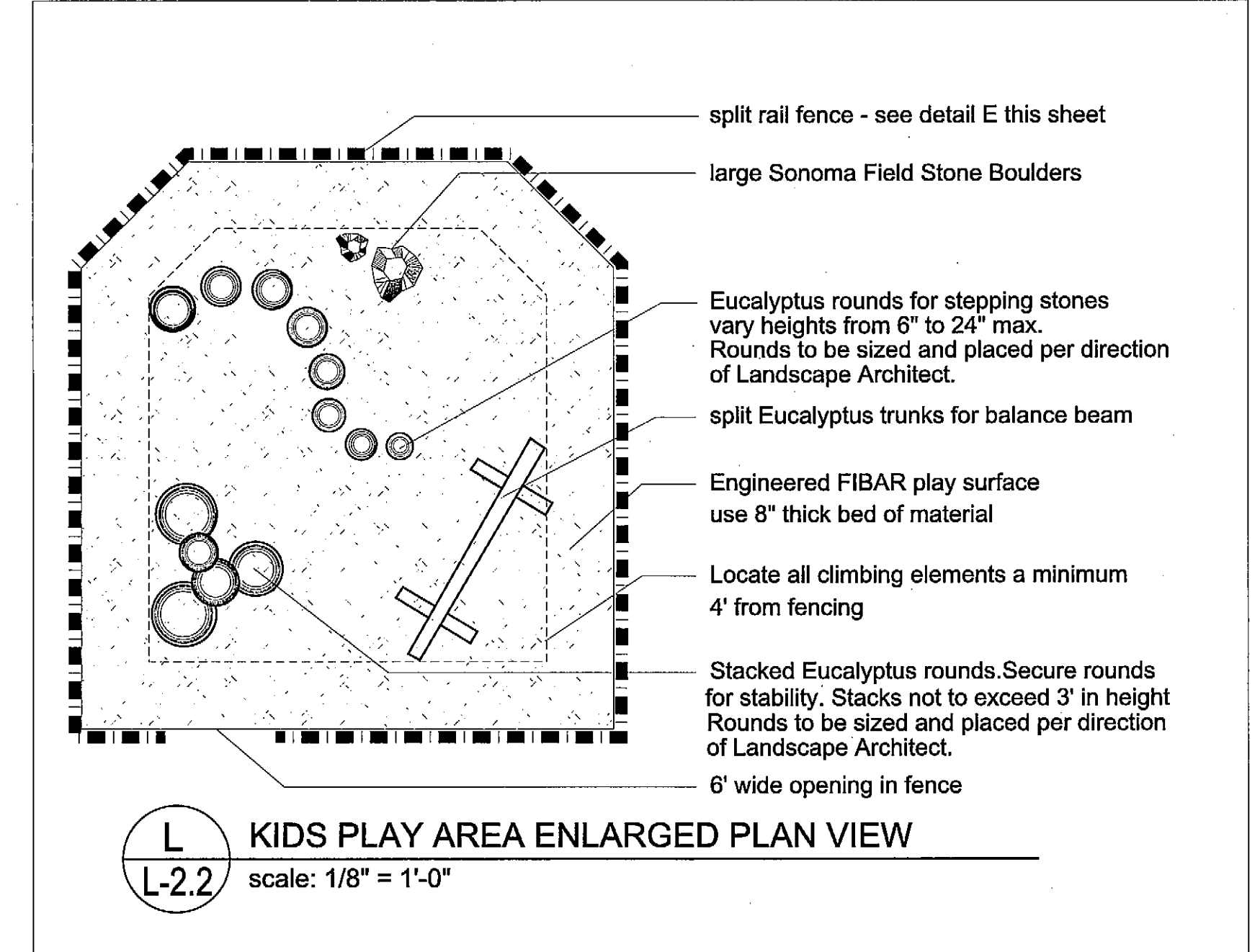
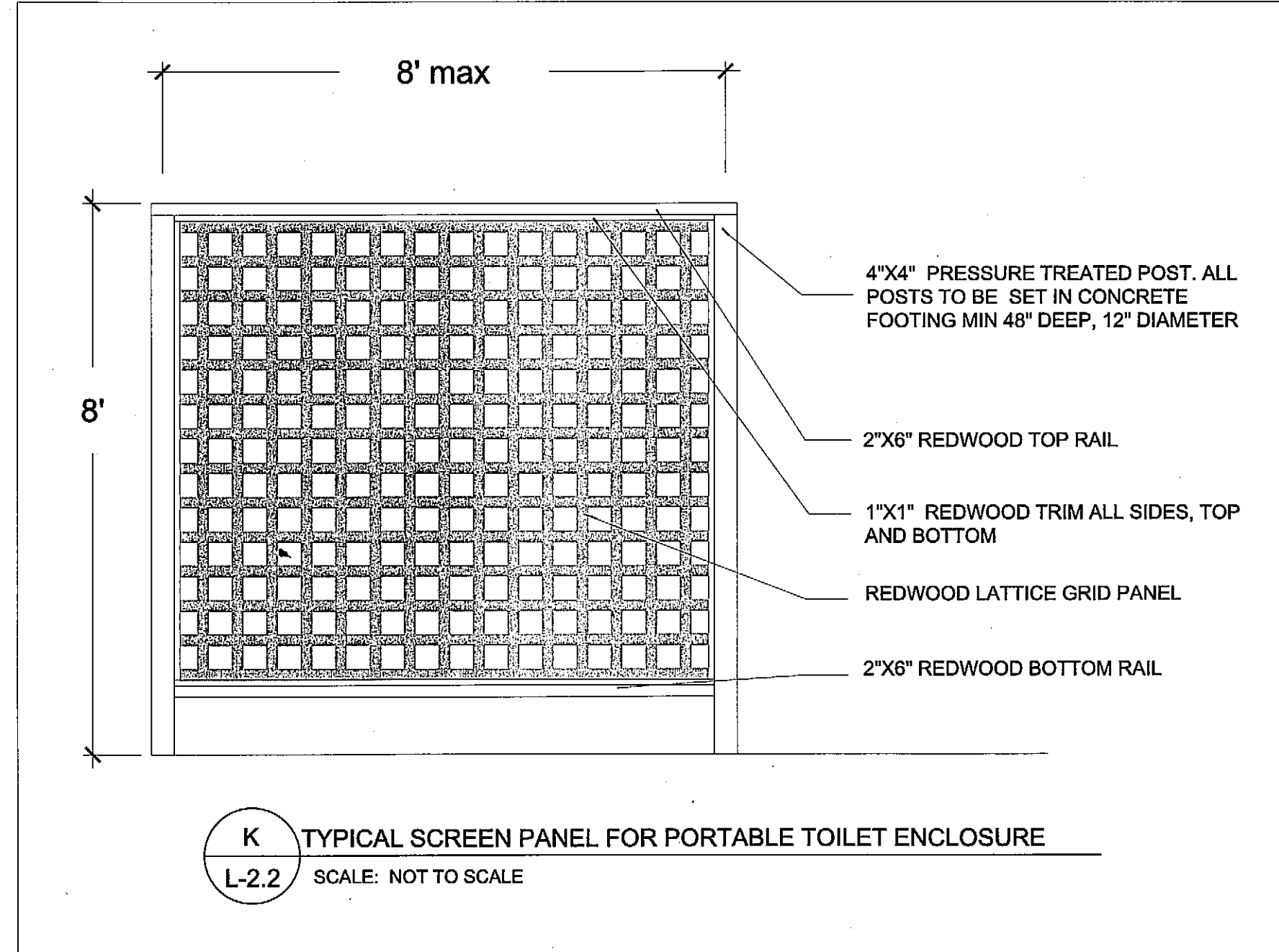
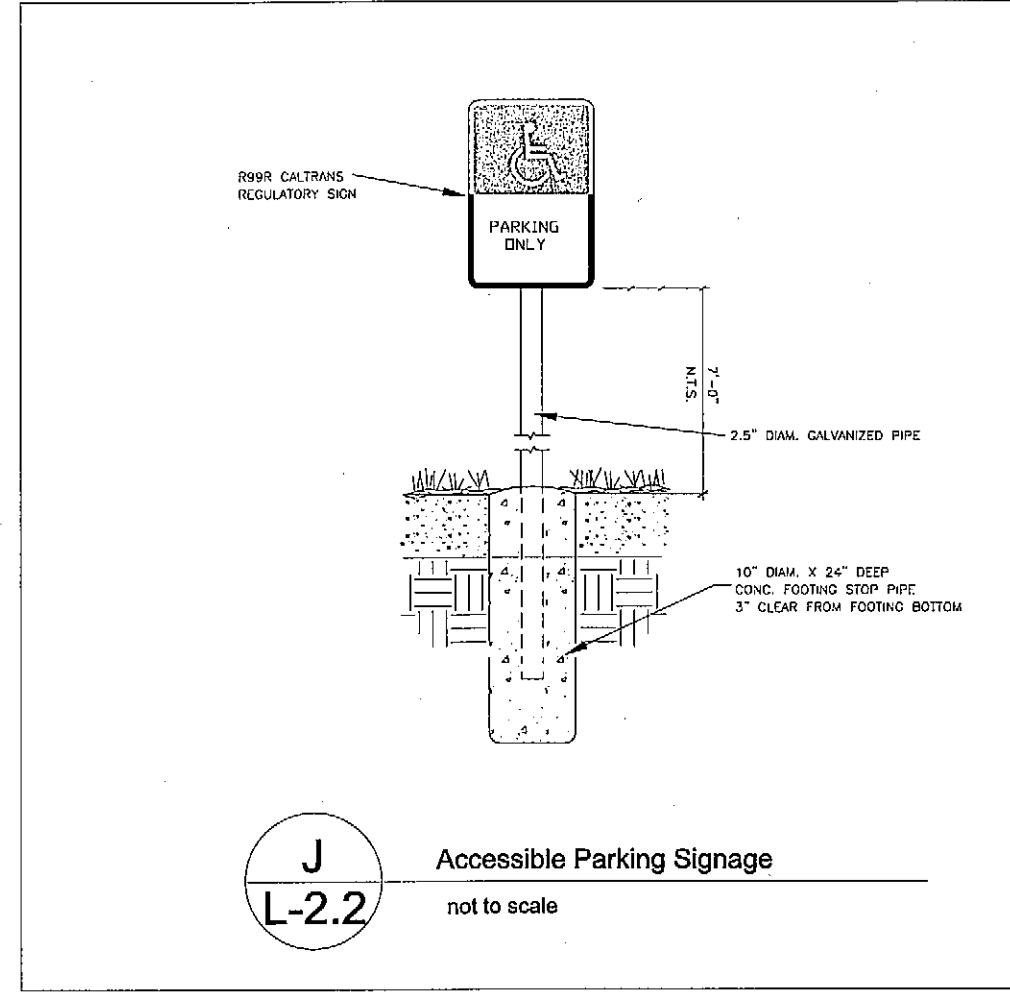
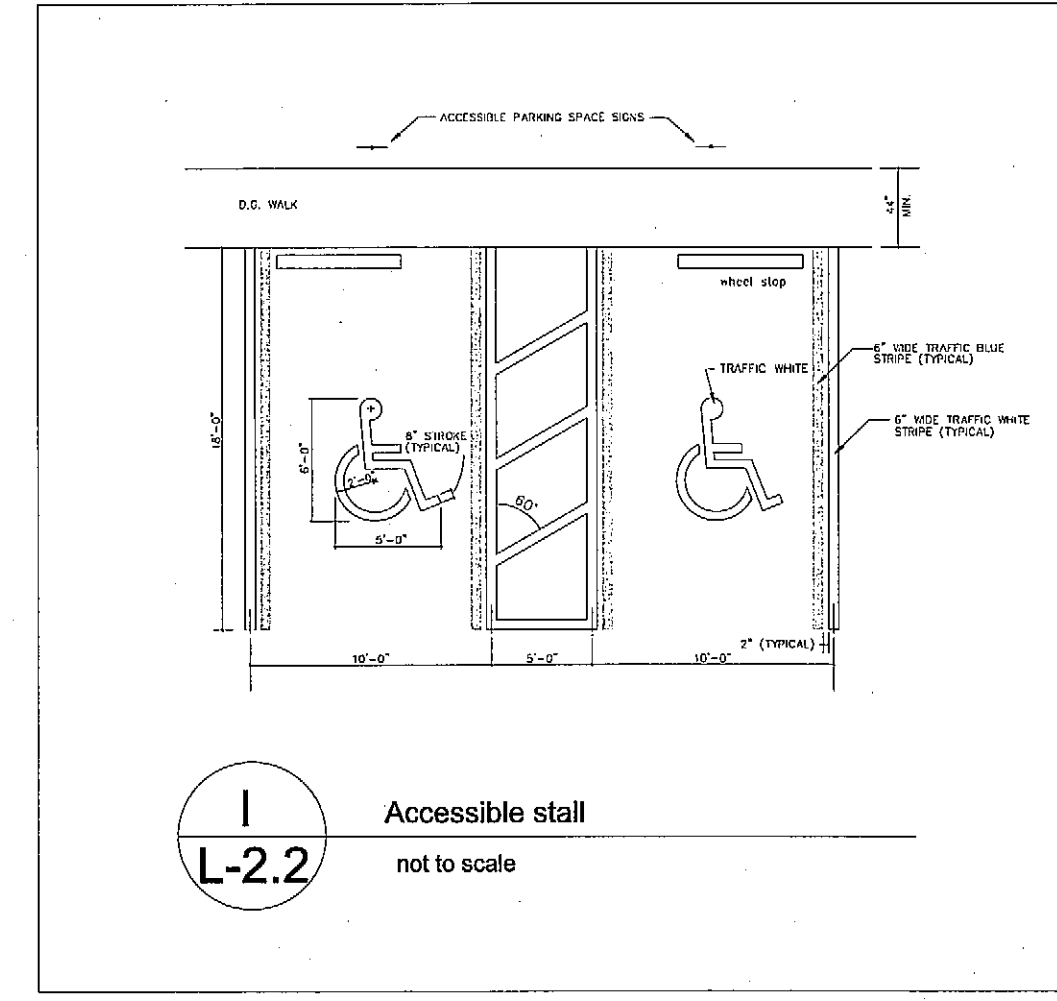
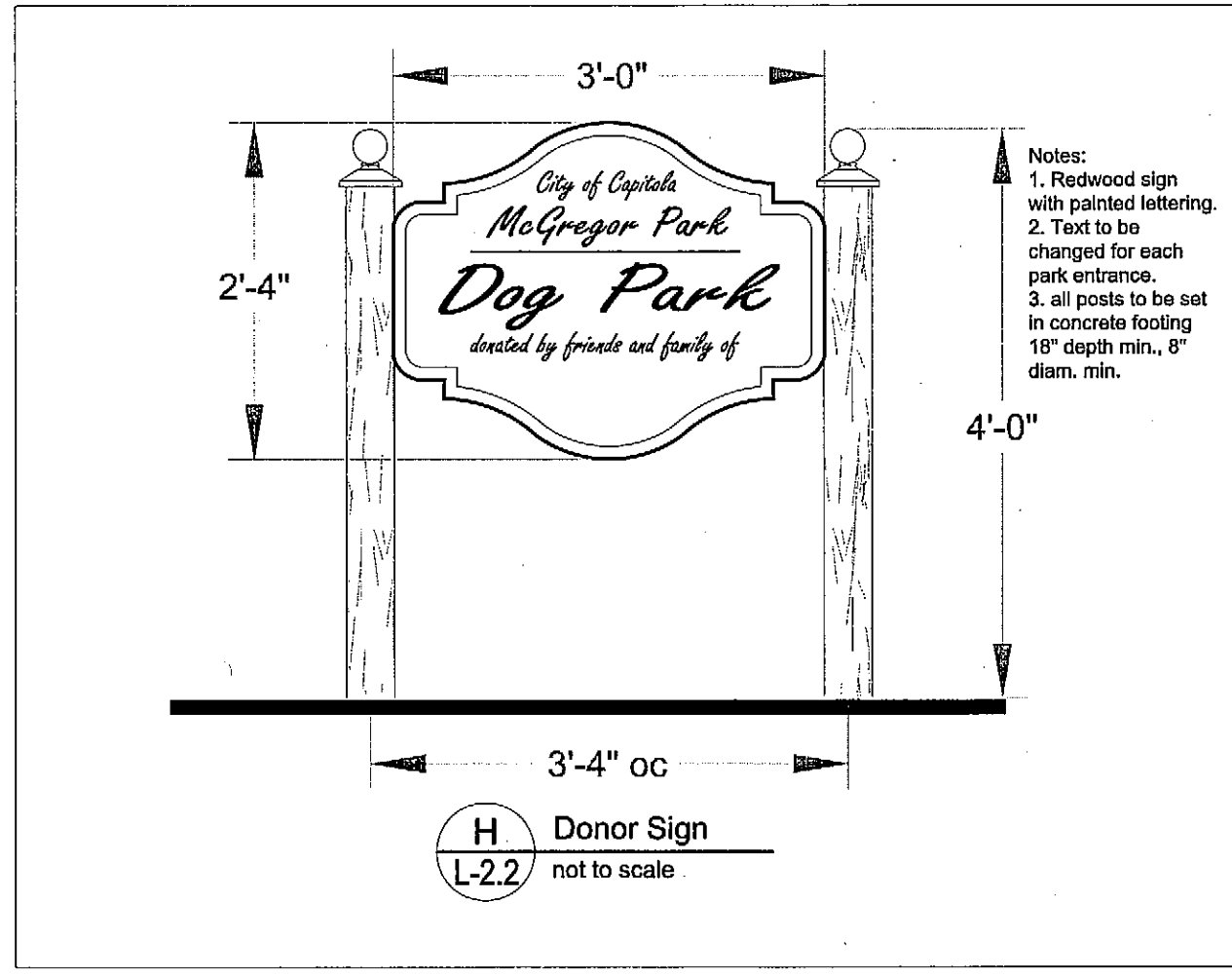
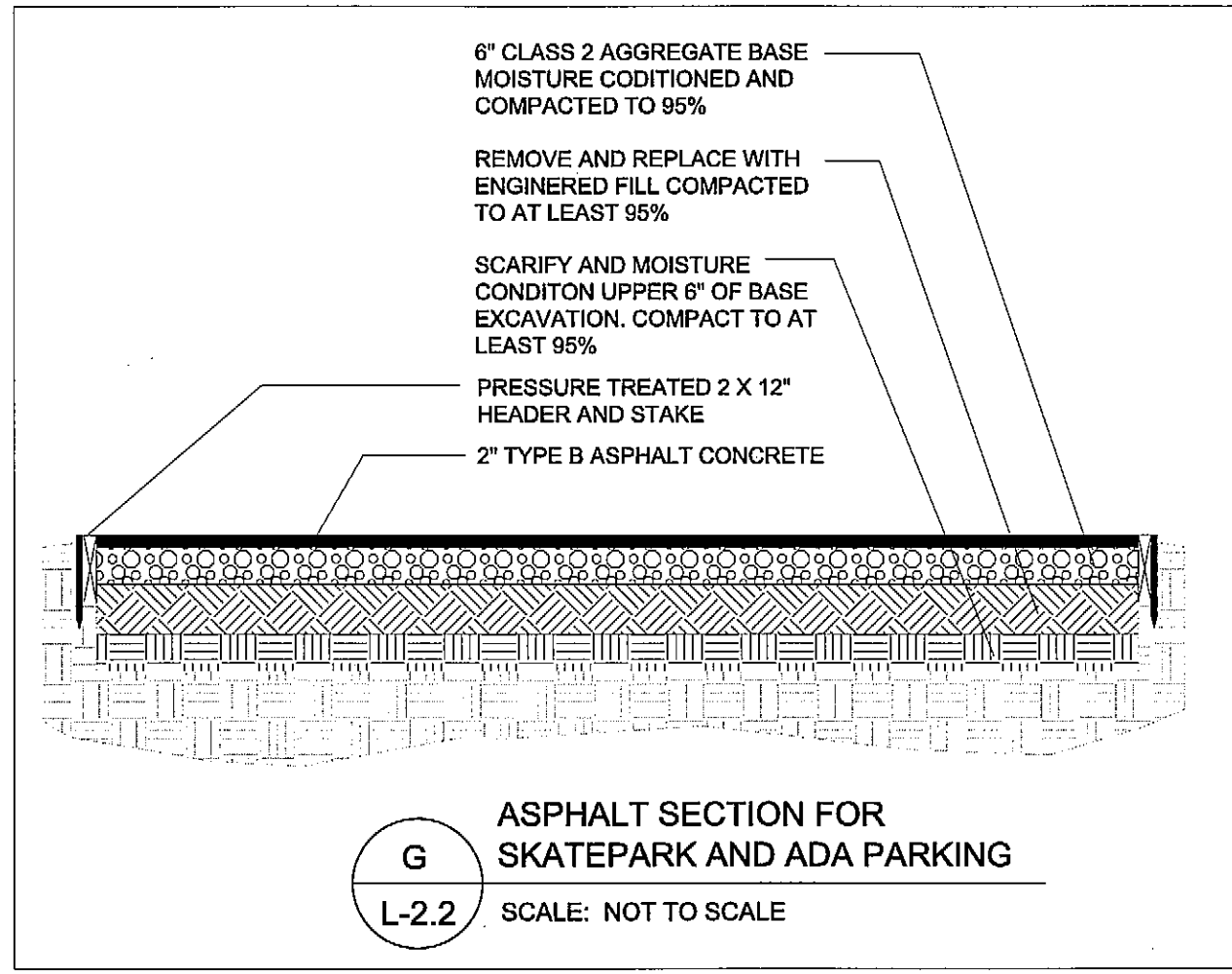
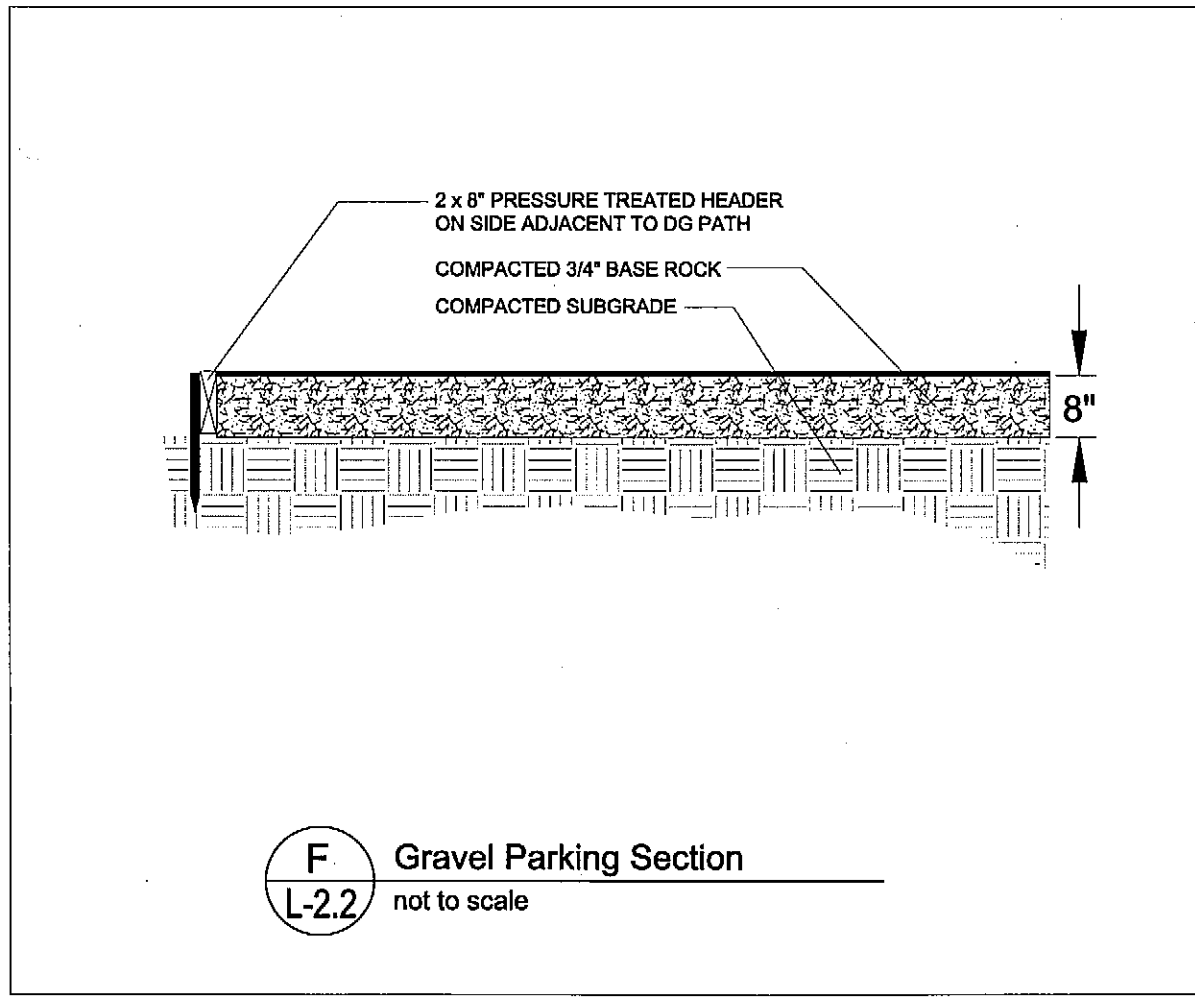
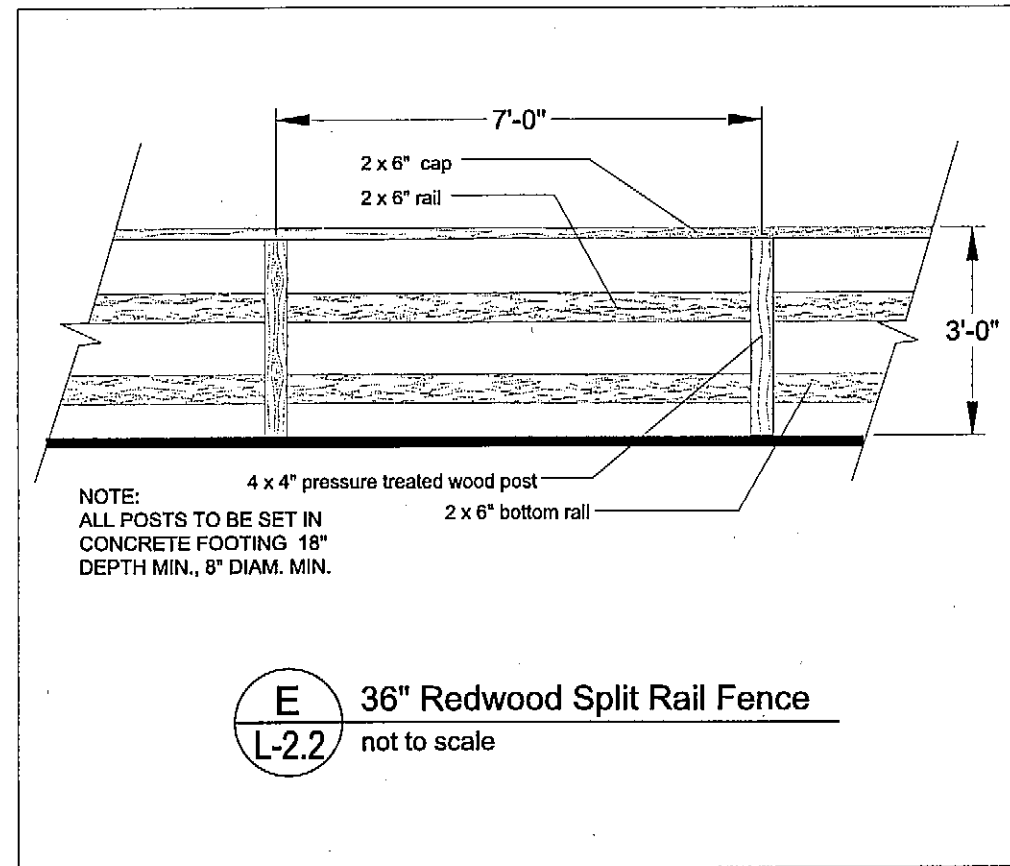
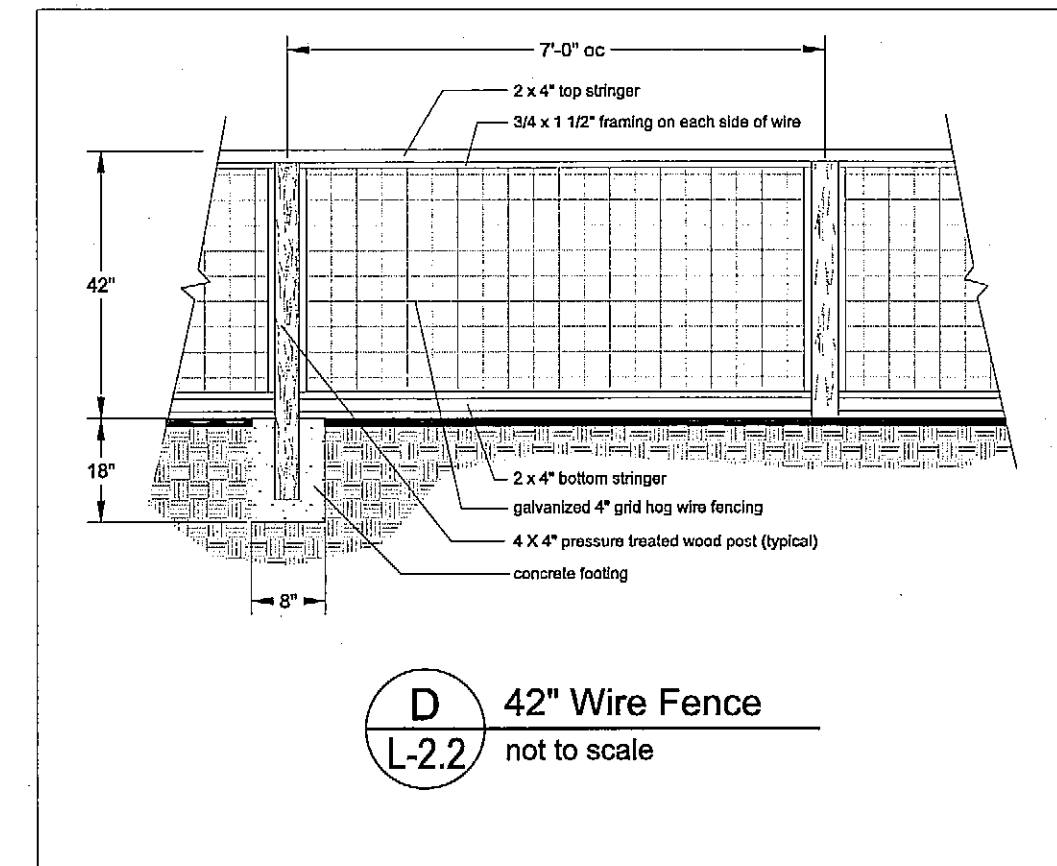
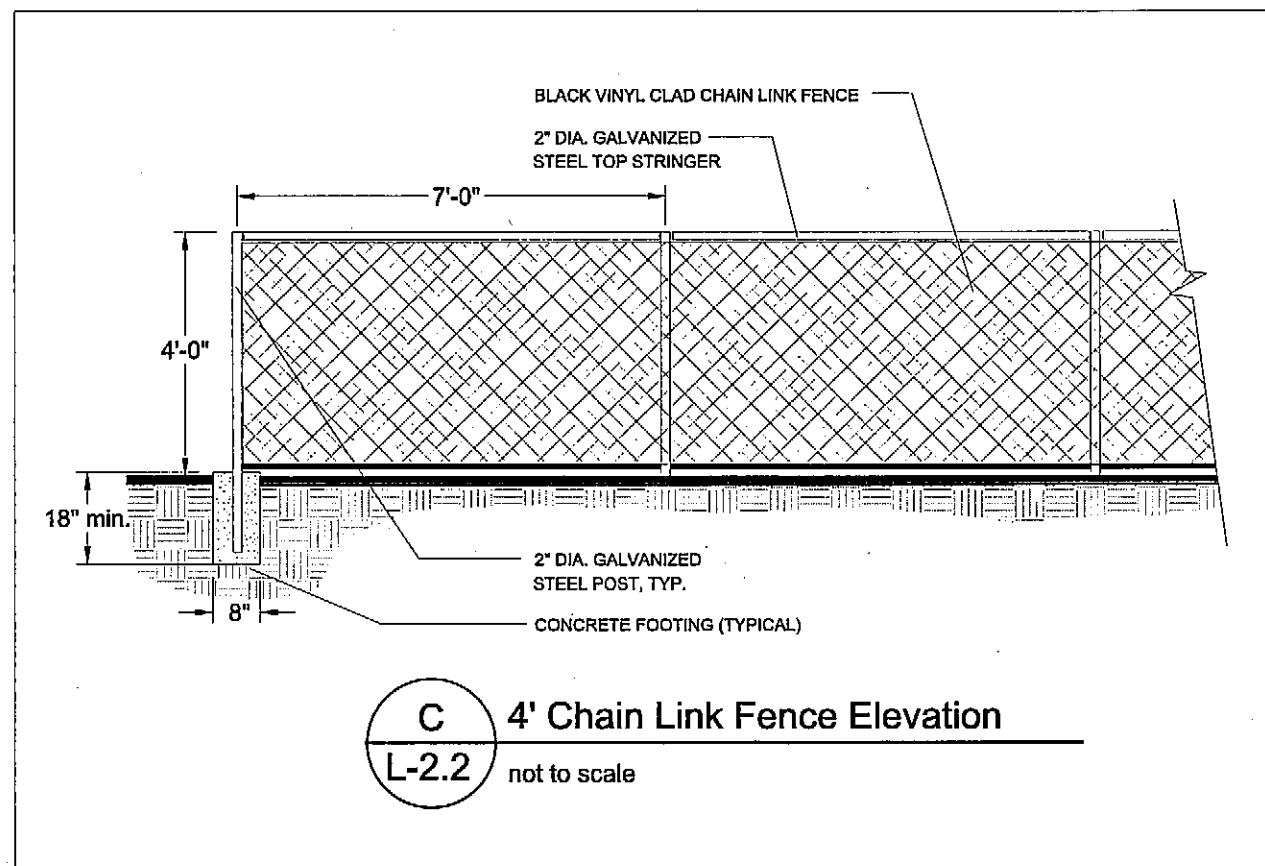
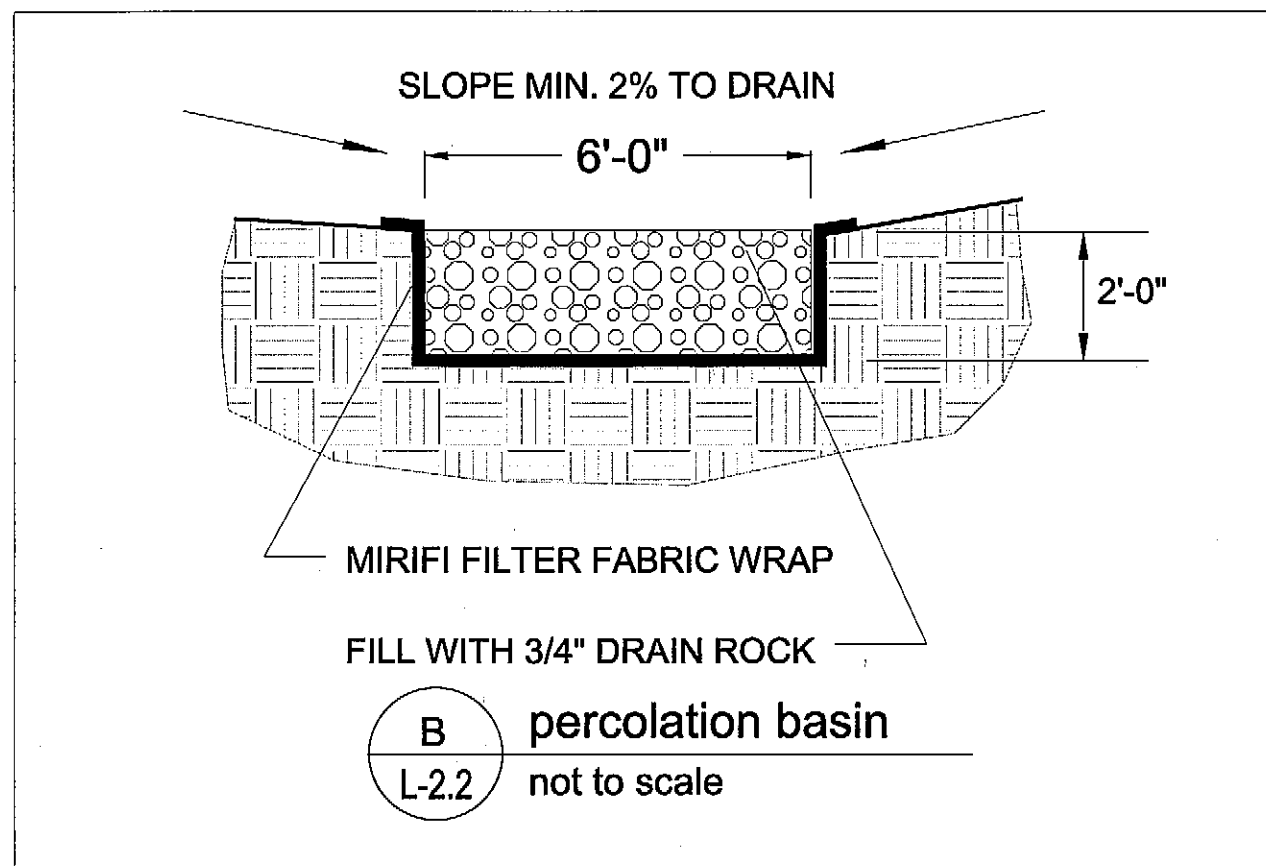
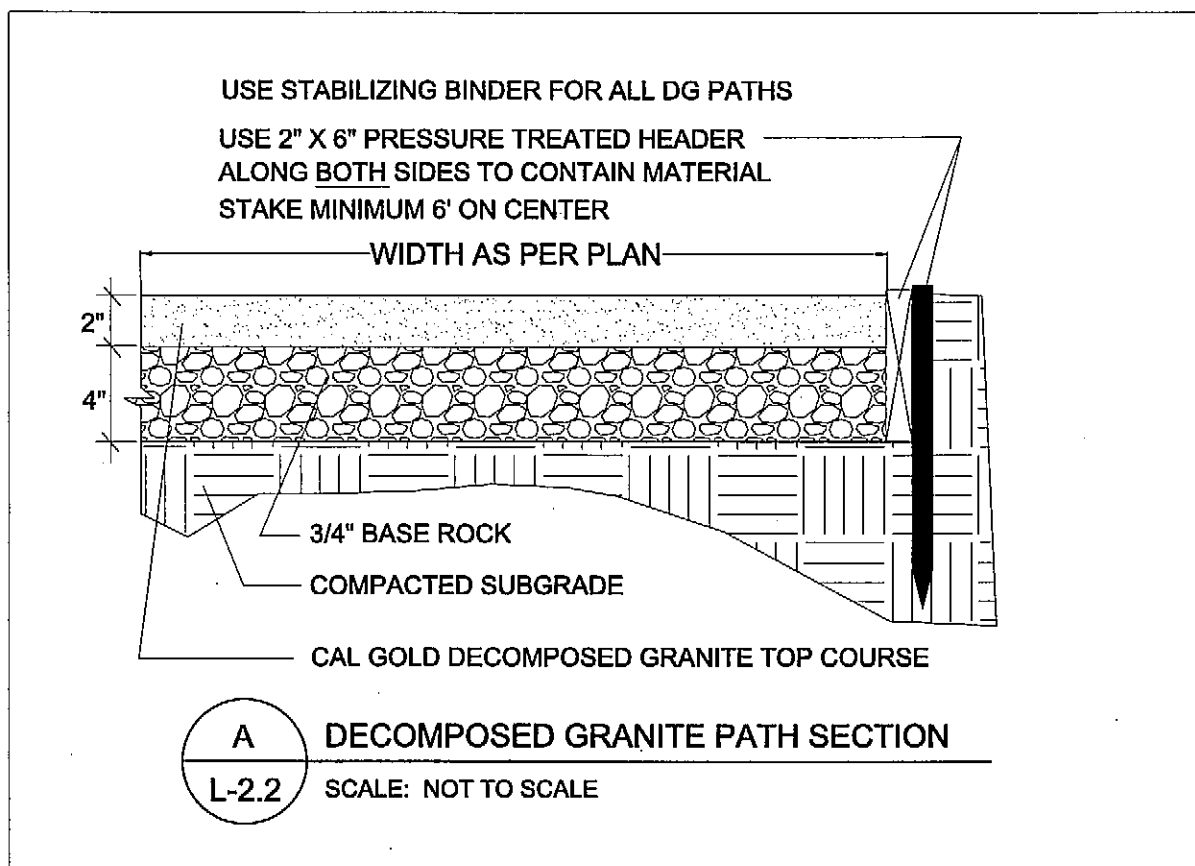


DATE	PURPOSE	BY
1.6.14	planning commission submit	MAA
2.25.14	pod placement	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
as noted

sheet title:
Layout and Materials Details

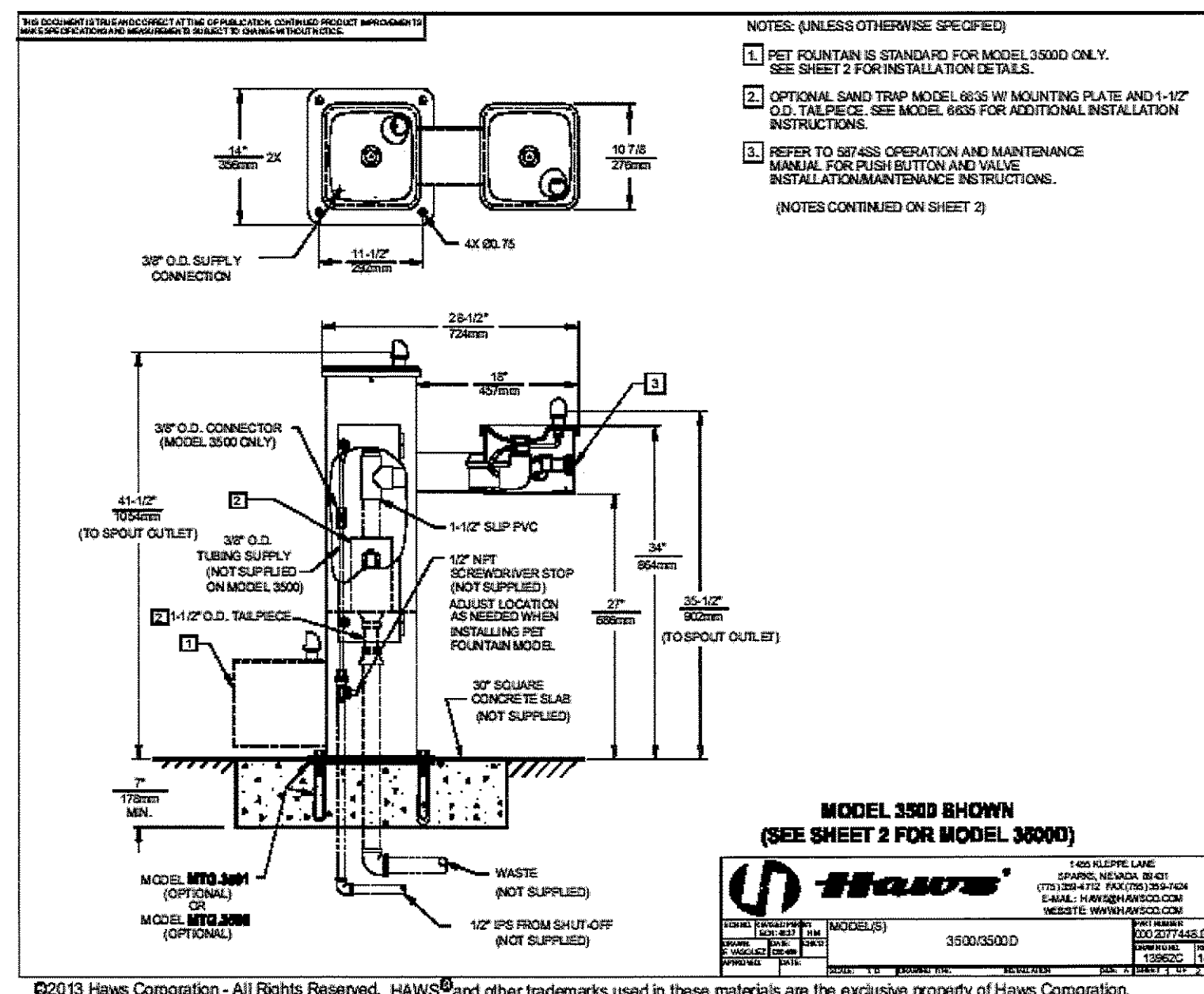
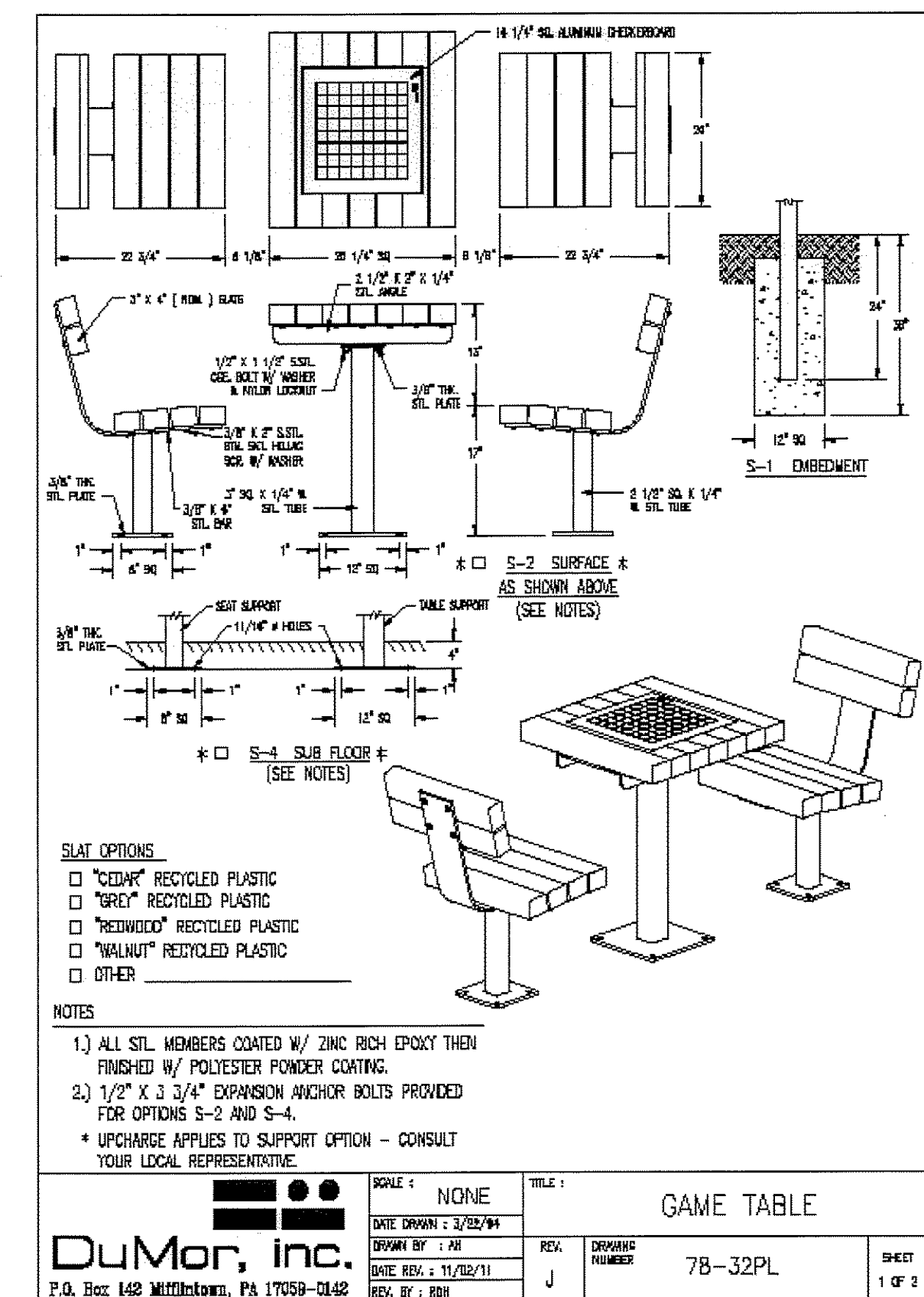
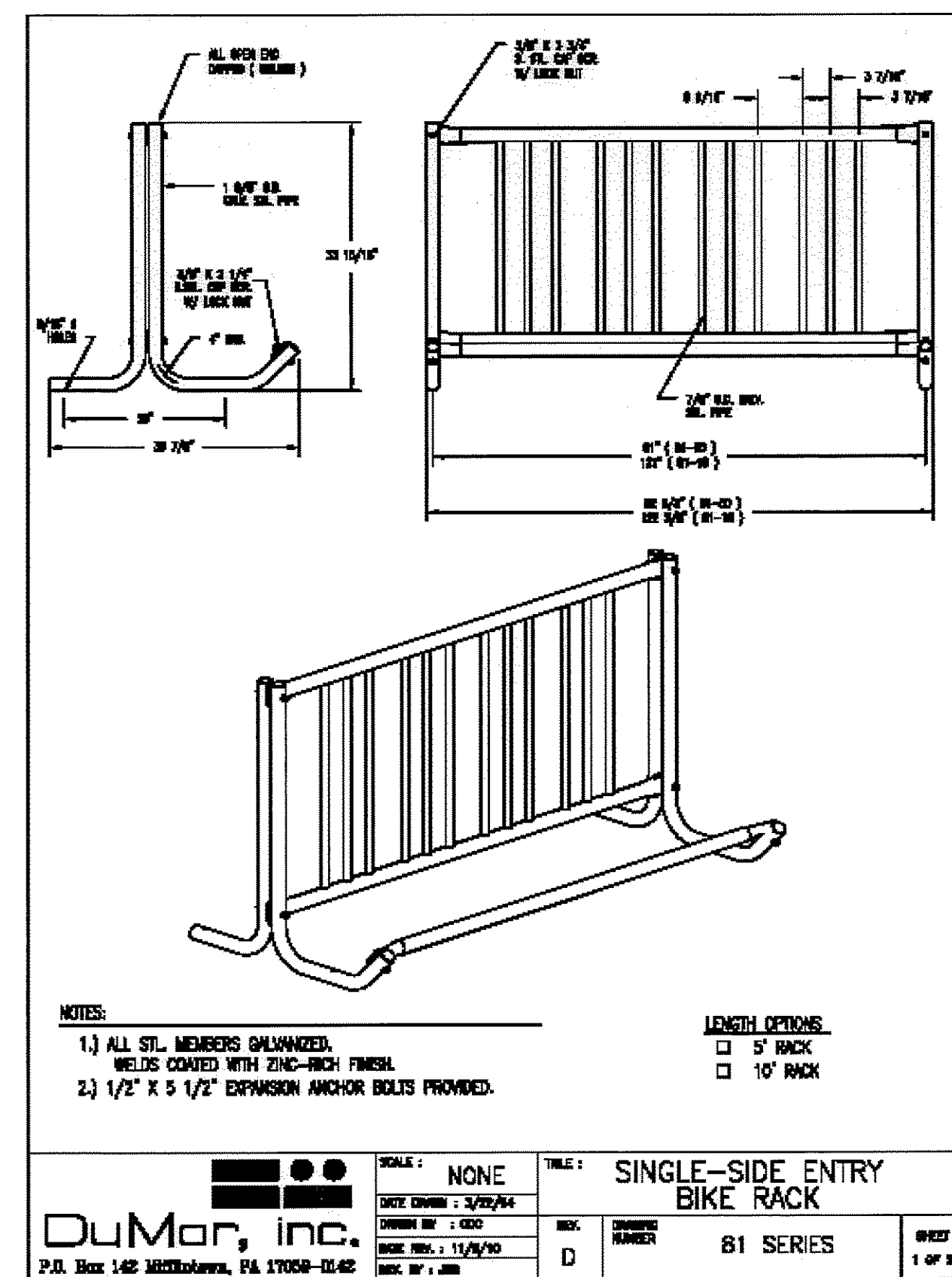
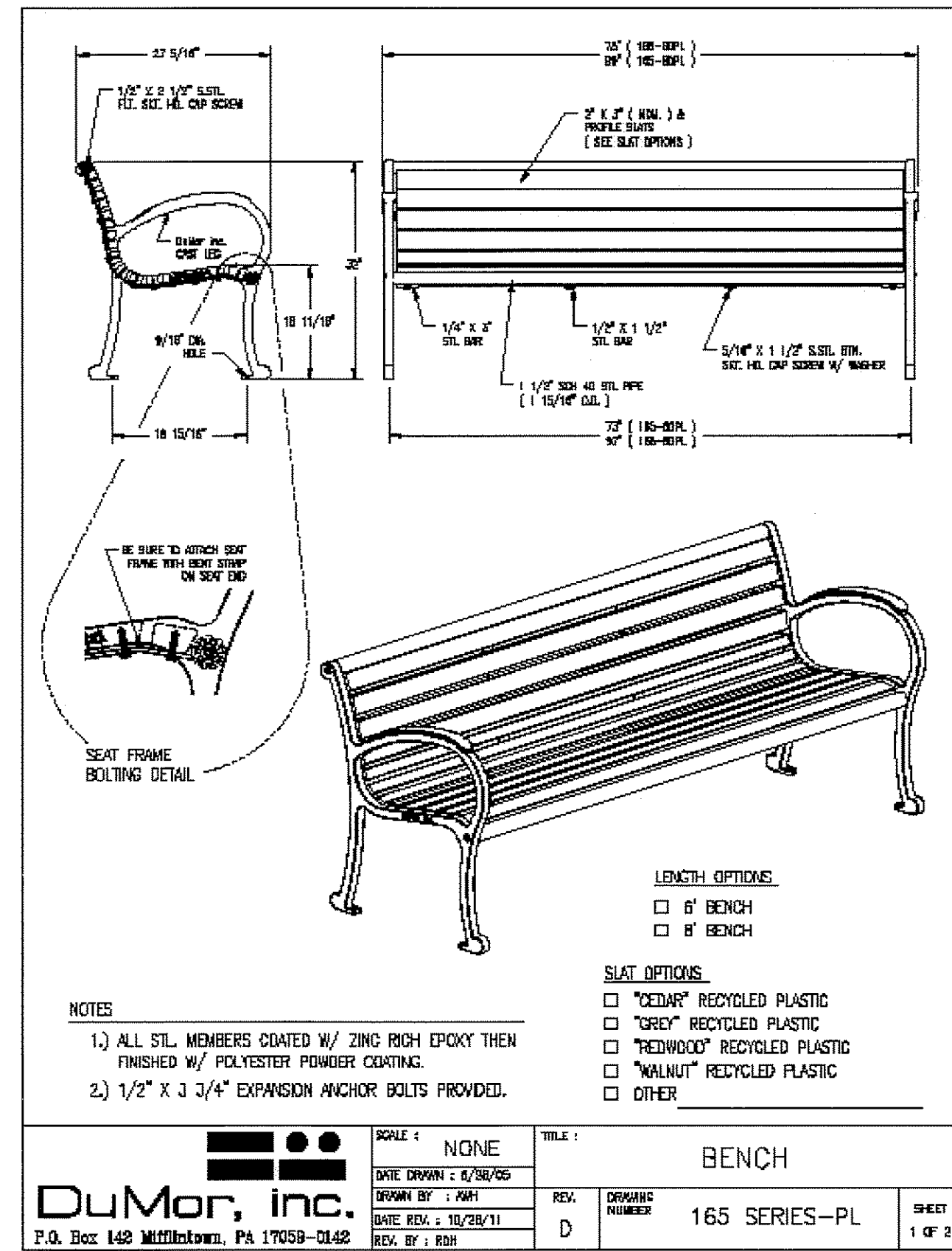
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Trash and recycling receptacle
by Park n Pool
gray color for trash/mystic blue color for recycling



Haws model 3500D Pedestal-Mounted Drinking Fountain

FEATURES & BENEFITS

BUBBLER HEAD
 Polished chrome-plated brass bubbler head features an integral basin drain for added strength, and is equipped with a shielded, anti-squirt outlet that provides a steady, sanitary source of water.

BARRIER-FREE
 Barrier-free capabilities combined with its ease of use allows for a number of installation location possibilities.

DRAIN CLEAN-OUT
 Top-down access to the drain allows the fountain to be cleaned without taking the unit apart, which is ideal for outdoor settings. Hot air high in drain-clogging sediment like leaves, garbage, and other debris.

CONSTRUCTION
 Superior strength and durability are achieved with the use of 1/2 gauge Type 304 Stainless Steel, along with integral 3/8" (9.5 cm) thick cast stainless steel bowls. The unit is finished with a glossy green powder-coat finish and it is secured to the ground with an integral mounting plate.

ACCESSIBILITY
 Ease of maintenance is achieved with the use of an exchange access door supplied with heavy-duty door hinges, and is locked by square key pins.

PET ACCESS
 Unique design allows for canine access so pet and owner can quench their thirst in one place.

PUSH BUTTON
 With its patented (Pat. # 6,981,492) stainless steel, push-button activated valve assembly which allows for front access stream adjustment as well as cartridge and shaker access, this fountain offers 100% lead free waterways. The valve works at an operating pressure range of 30 to 90 psi (2.1 to 6.2 bar).

APPLICATIONS

Taking performance and protection to a whole new level is the superior-duty drinking fountain. This unique drinking fountain is the perfect addition to parks, rest areas, and recreational facilities where vandalism may be more prone to take place. By welding the bowls directly to the uprights, they become one with the unit, preventing removal. That in addition to many other features for vandalism resistance, makes this fountain virtually indestructible. This series fountain may also be applicable in a wide assortment of other places, specifically dog parks due to the ground level animal accessibility.

Model meets all current Federal Regulations for the disabled including those in the Americans with Disabilities Act. Haws manufactures drinking fountains and electric water coolers to be lead free by all known definitions including NSF/ANSI Standard 61, Section 9, NSF/ANSI 372, California Proposition 65, and the Federal Safe Drinking Water Act. Product is compliant to California Health and Safety Code 116715 (AS 1953-2004).

OPTIONS

Sand Trap: Model 661, sand trap for installing adjacent to pedestal drinking fountain, to help prevent debris and contaminants clogging the line.

Sand Trap: Model 663S, in-pedestal sand trap for models 3500 and 3511.

Mounting: Model MITG-3500 mounting plate gives in-ground support for the 3500 series pedestal fountain and includes the mounting hardware.

Mounting: Model MITG-3501, galvanized steel anchors.

To see all options for this model, visit www.hawsco.com

1-822-666-3333
 1422 Empire Lane • Sparks, NV 89431 • (775) 338-4712 • (775) 337-4841 • www.hawsco.com • 3500/3500D
 ©2013 Haws Corporation. Continued product information with the specifications subject to change without notice. Check www.hawsco.com for the latest product information and updates.

Product Assembly Instructions 1-800-DoodyCalls (366-3722) www.DoodyCalls.com

Gladiator Pet Waste Station

Parts List

- Can (1)
- Dispenser (1)
- Can Bracket (1)
- Sign/Sign Bracket (1)
- 400 Free Bags
- Free Can Liners
- Hardware Pack

Nuts & Bolts List

- 1/2" Hex (1)
- 1/2" Nut (1)
- 1/2" Washer (1)
- 1/2" Spig Lock Washer (1)
- Hex Nuts (3)
- Hex Nuts (3)

The Gladiator Pet Waste Station Assembly Instructions

- Always check for buried services (electric, water, gas, phone, cable) before digging. Dig a post hole 18" deep. Pour in concrete.
- That the one 1/2" nut(s) to secure the 2 post sections together. (Just one D, E, F).
- The dispenser post section should be inserted 6" into the larger width section.
- Mark, assembled post 18" from back end, bury the post to the 18" mark (do not concrete).
- Allow concrete to firmly set-up before attaching the can and dispenser to post.
- Position Can (1) above the ground and secure to post using the 2 brackets provided. Drill through back of Can (1) to secure the 2 post sections together. (Just one D, E, F).
- Be sure to use the correct bracket for the Can (1) post section and the other for the dispenser post section.
- Be sure to use the correct bracket for the Can (1) post section and the other for the dispenser post section.
- Insert the Dispenser (1) above the top of the Can. Be sure to place washers on the bolts as you drill from the inside of the dispenser through to the post. Install the optional sign bracket and sign at the same time you are installing the dispenser (A, B, D, E, F).
- The sign bracket is placed between the dispenser and the post. Install bolts through all 4 bolt holes to securely fasten the sign bracket to the post. 3 C, D, E, F - Bottom Hole shines upper dispenser bolt.
- Finish by bolting the sign to the sign bracket. Details on Howtoe Side.

11" Square Post
Smaller Bracket
6" Post
Larger Bracket
18" Sign Bracket

Can (1)
Dispenser (1)
Can Bracket (1)
Post (1)
Sign (1) - Bracket (1)
400 Free Bags
Free Can Liners

1-800-DoodyCalls (366-3722) www.DoodyCalls.com

FIRSTLIGHT TECHNOLOGIES
 Making Solar Lighting Simple™

IPL Series
 Solar LED Integrated Pathway Light

Project: _____
Type: _____
Quantity: _____

The IPL Series is a fully-integrated solar LED pathway light that is an ideal choice for residential, commercial, and recreational driveway/pathway applications. Visually appealing, robust construction, and unparelled performance - the IPL Series is an excellent fit wherever high-quality lighting is required.

Utilizing solar power and LEDs, the IPL is fully self-contained and offers significant benefits over grid-based pathway lights including:

- Low installed cost and minimal site impact with no trenching, cabling or wiring
- Minimal ongoing costs with no electrical bills or bulbs to change
- Not affected by power outages
- Provide a visibly green statement without recurring carbon emissions

The performance of the IPL is maximized through the use of a proprietary Energy Management System (EMS) that ensures the lifetime is extended to maximize your investment.

So what does this mean? The EMS antenna that, regardless of low- or high-weather patterns that can produce inherently poor charging conditions, the IPL will continue to provide light levels that enhance the appeal and safety of the night-time environment.

TECHNICAL SPECIFICATIONS

Solar Module:

- High-efficiency mono-crystalline cells
- Homogeneously encased on top of laminate
- Used for day/night detection (no photo cell required)

Energy Management System (EMS):

- High-efficiency temperature compensated Maximum Power Point Tracking (MPPT)
- Micro-processor based technology
- Includes high-efficiency LED drivers
- Designed for automatic weather lighting performance based on environmental conditions and lighting requirements
- Fuses Pending

Battery:

- Sealed lead acid, absorbed glass mat (AGM)
- Superior cycle performance
- High temperature tolerance
- 10 year design life
- Contained within luminaire housing
- Designed for easy battery changes when required

LEDs and Optics:

- 100,000 hour L70 lifetime
- Warm (3000K) and neutral (4300K) color temperatures available
- High efficiency Type 2, 3, and 5, full cut-off optics
- Typical lumen output from 700 to 1200 lumens

Mechanical Construction:

- Cast, low copper aluminum top, housing, and arms
- Stainless fasteners with security tamper option
- Architectural grade, super durable, TBC powder coat with Rodex undercoat
- Four standard colors with custom colors available

Factory Set Lighting Profiles:

- On at dusk, off at dawn
- On at dusk, off after 8 hours
- On at dusk, dim to 30% after 6 hours all dawn
- On at dusk, off after 8 hours, on 1 hour before dawn
- On at dusk, dim to 30% after 5 hours, on 1 hour before dawn

FirstLight Technologies Ltd. www.firstlighttechnologies.com info@firstlighttechnologies.com 250.290.9774

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MCGREGOR PARK
CITY OF CAPITOLA
MCGREGOR DRIVE, CAPITOLA



DATE	PURPOSE	BY
1.6.14	planning commission submittal	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
 not to scale

sheet title:
 Site Furnishings and Lighting Cut Sheets

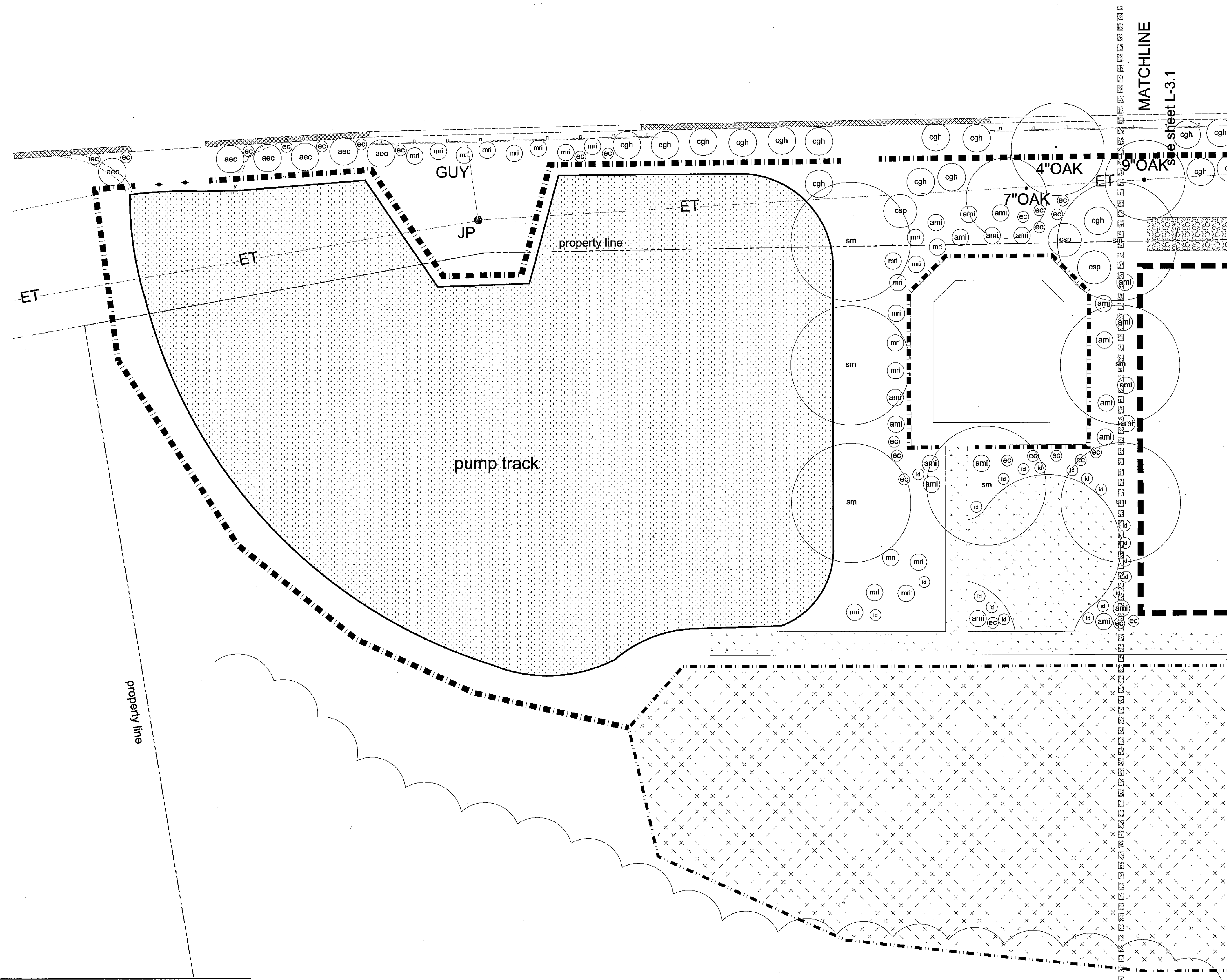
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Planting Notes

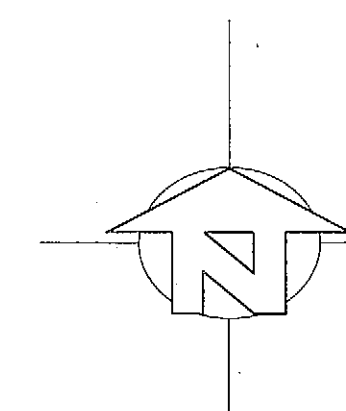
1. All existing trees, shrubs and ground covers to remain shall be protected. Any damage caused by Contractor's work shall be repaired or replaced at the Contractor's expense and be approved by the Landscape Architect.
2. All planting areas shall receive 50 lbs "Sustane 5-2-4 + Fe" (or equal organic slow release fertilizer) soil fertilizer per 2500 square feet to be thoroughly incorporated into the top 6 inches of soil.
Call Sustane - Natural Fertilizer of America, Inc. 1-800-325-9245 for Distribution/Product Information. Or visit www.sustane.com
3. After amending soil, grade all areas smooth with no localized depressions exceeding .5 inch. All areas shall surface drain with 1.5 percent minimum slope away from all buildings, paving or other structures.
4. Quantities are for aiding in bidding only. Contractor shall verify all quantities.
5. Contractor shall lay out plant material as per plan and receive approval from Landscape Architect prior to installation.
6. No plants shall be planted with root balls or new pits in a dry condition.
7. Plant all plants as per planting details in square pits with sides and bottoms thoroughly scarified. Do not amend backfill mix beyond initial topsoil amending unless noted.
8. All newly planted material shall be watered by deep soaking within 3 hours of planting.
9. All planting areas shall receive 3 inches of mini-bark top dressing (mulch).
10. Contractor shall be responsible for irrigating all new plant material until the entire project as been approved and accepted by Owner.
11. Thirty days after planting Contractor shall restake and straighten all trees as necessary to be approved by Landscape Architect.



PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUAN.	CA. Native	WUCOLS Water Use
aec	Arctostaphylos 'Emerald Carpet'	Groundcover Manzanita	5 gal	31	yes	low
ami	Achillea millefolium	Yarrow	1 gal	32	yes	low
cgh	Ceanothus griseus horizontalis 'Yankee Point'	Carmel Creeper	5 gal	27	yes	low
csp	Cistus salvifolius 'Prostratus'	Rockrose groundcover	5 gal	8	no	low
ec	Eschscholzia californica	California Poppy	1 gal	55	yes	low
id	Iris douglasiana	Pacific Coast Iris	1 gal	20	yes	low
sm	Schinus molle	California Pepper	24" box	7	yes	low
mri	Muhlenbergia rigens	Deer Grass	1 gal	83	yes	low

SEE PLANTING DETAILS SHEET L- 5.0



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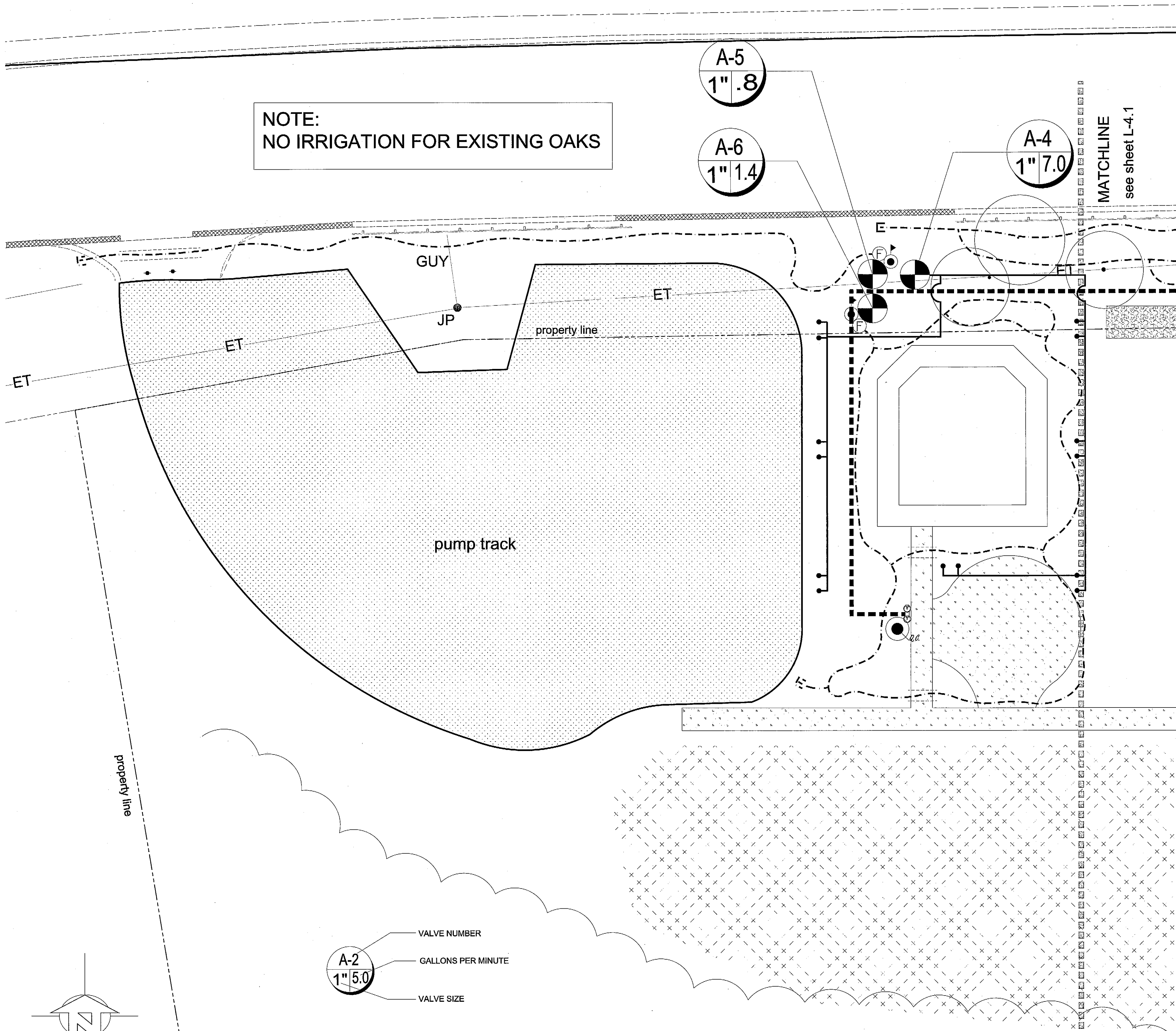


DATE	PURPOSE	BY
1.6.14	planting commission submitted	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
 1" = 10' - 0"

sheet title:
 West
 Planting
 Plan

sheet number:
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NOTE:
NO IRRIGATION FOR EXISTING OAKS

A-5
1" .8

A-6
1" 1.4

A-4
1" 7.0

VALVE NUMBER
A-2
1" 5.0
GALLONS PER MINUTE
VALVE SIZE

EMITTER SCHEDULE			
Manufacturer	Model #	Gallons per Hour	Emitters per container size
RAINBIRD XB-05PC	BLUE	One Half	1 emitter per each 4" pot
RAINBIRD XB-10PC	BLACK	One	1 emitter per each gallon plant
RAINBIRD XB-20PC	RED	Two	1 emitter per each 5 gallon plant

SEE IRRIGATION DETAILS SHEET L- 5.0

IRRIGATION LEGEND

DETAIL KEY	MANUFACTURER	MODEL #	DESCRIPTION
- - - - -	Sch. 40 PVC	NSF Approved	1" Irrigation Mainline
- - - - -	Class 315 PVC	NSF Approved	3/4" Irrigation Lateral
- - - - -	Sch. 80 PVC	NSF Approved	IRRIGATION SLEEVE UNDER PAVING (TWICE SIZE OF PIPES)
- X -	KBI	BALL VALVE- size as needed	PVC BALL VALVE FOR MAINTENANCE SHUTOFF
A Z	Febco	825 Y BV	1" Reduced Pressure Backflow Device
B	HUNTER	NODE 100, 200, 400 PGV - 100G	1 station, 2 station and 4 station battery powered remote control valve in valve box with 1" PGV Globe Valve w/ 25 PSI regulator
C	HUNTER	PCZ - 101 - 25	1" PGV valve with 1" HY100 Wye filter and 25 PSI regulator
D	RAIN BIRD	44-LRC	1" QUICK COUPLER WITH LOCKING COVER
E	RAIN BIRD	3/4" Polyethylene	3/4" drip tubing
E AS NEEDED	RAIN BIRD	PRESSURE COMPENSATING	1/2 GPH (RED), 1 GPH (BLACK), 2 GPH (GREEN) ISO-FLO EMITTER
F	HUNTER	MSBN-50H	PRESSURE COMPENSATING MULTI STREAM BUBBLER NOZZLE ON PRO-FLEX TUBING w/180 DEGREE PATTERN - 5 gpm AT 30 PSI
- >	RainBird	LOC 16MM 075 MPT ADAPTER	LOCKING 3/4" DRIP END CAP ASSEMBLY

IRRIGATION NOTES

- Contractor shall notify U.S.A. (Underground Service Alert) at 800 642 2444, prior to start of any excavation or trenching.
- Contractors shall review all plans and documents pertaining to the project prior to the start of work to coordinate work with other trades.
- Contractor shall install irrigation system in accordance with all local codes and ordinances.
- Drip valves have been designed to operate at a maximum of 4 gallons per minute at 20 p. s. i. static pressure. Irrigation contractor shall verify a static pressure of at least 55 p.s.i. at the point of connection prior to the installation of the irrigation system. Should the p.s.i. or the g.p.m. be insufficient to operate either system, contractor shall notify landscape architect and request review of design.
- Point of connection shall be taken from existing water service on the east side of the property as noted on L-4.1. The contractor shall install backflow device, new mainline and valves as noted on plan. See Irrigation Legend.
- Battery powered control valves shall be used. See Irrigation Legend. Programming of the valves timers shall be the responsibility of the contractor for a period of thirty days after acceptance of work.
- Irrigation design is diagrammatic. Mainline, valves, laterals and other irrigation equipment may be shown outside of planting beds for graphic clarity. All irrigation equipment shall be located in adjacent planting beds. Symbol shown under existing Oak trees is distribution tubing, do not provide emitters for existing Oak trees.
- Irrigation pipe depths: Mainlines under paving shall have 24" cover over pipes. Lateral lines under paving shall have 18" cover over pipes. Sleeves shall be located as per plan. Mainlines in planting beds shall have 12" of cover over pipes. Laterals in planting beds shall have 12" cover over pipes.
- Lateral lines (non pressure lines) sizing guidelines shall be as follows: 3/4" O.D. - 0 to 10 GPM; 1" O.D. - 11 to 15 GPM; 1 1/4" O.D. - 16 to 25 GPM; 1 1/2" O.D. 26 to 30 GPM; 2" O.D. 31 to 55 GPM. Refer to Irrigation Legend and plan sheets for further data.
- Contractor shall determine the number and location of multi outlet emitters based on the plant counts and actual plant locations in the field. Contractor shall adjust all drip distribution tubing to effectively irrigate all plant material.
- Contractor shall provide a minimum of one drip end cap assembly per drip zone for ease of flushing system.
- All trees shall be watered using two bubblers as noted in Irrigation Legend. See Detail F/L-5.0

WATER BUDGET CALCULATION FORM

Property Address: MCGREGOR DRIVE
CAPITOLA, CA

Authorized Professional Name/Company: MICHAEL ARNONE + ASSOCIATES
LANDSCAPE ARCHITECTS

License of Certification Number: CA STATE LICENSE #3347

Professional Seal: MICHAEL A. ARNONE, No. 3347, (Exp 7/31/14), STATE OF CALIFORNIA

TOTAL AND SPECIAL LANDSCAPED AREA			
Enter Total Landscaped Area (LA)	62,273	square feet	
Enter Special Landscaped Area (SLA)	0	square feet	

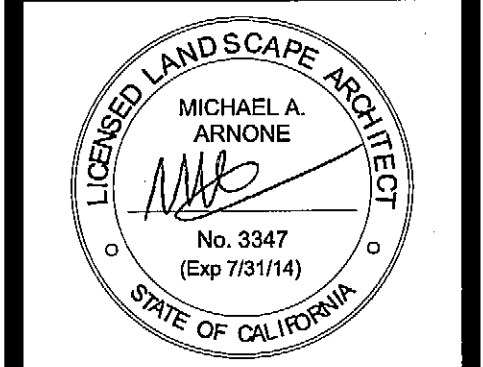
HYDROZONE TABLE							
Hydrozone	Plant Water Use Type	Irrigation Type	Plant Factor	Hydrozone Area (sq. ft.)	Irrigation Efficiency (min avg 0.70)	Plant Water Requirement (gal/year) (36.6 x 0.62 x PF x HA)	Zone Water Requirement (gal/year) (36.6 x 0.62 x PF x HAWIE)
1	Low	Drip	0.30	5956	0.71	40,546	57,107.1
2	Low	Bubbler	0.30	175	0.71	1997	1677.9
3	No planting	none	0	46,142	0	0	0
SLA			1.00	0			
Total				62,273		42,543	58,785

MAWA and ETWU		
Max Allowable Water Use (MAWA)	803,262	gallons/year
Estimated Total Water Use (ETWU)	58,785	gallons/year
Average Irrigation Efficiency	0.71	gallons/year
Project Meets Water Efficient Requirements	Yes	
Project Meets Irrigation Efficiency Requirement	Yes	

CITY REVIEW STAFF
 YES, ETWU < MAWA
 NO, ETWU > MAWA
 Initials: _____

Michael Arnone + Associates
LANDSCAPE ARCHITECTURE
3370 Samuel Place Santa Cruz, CA 95062
531.462.4985 maa@arnonelandscape.com www.arnonelandscape.com

MCGREGOR PARK
CITY OF CAPITOLA
MCGREGOR DRIVE, CAPITOLA



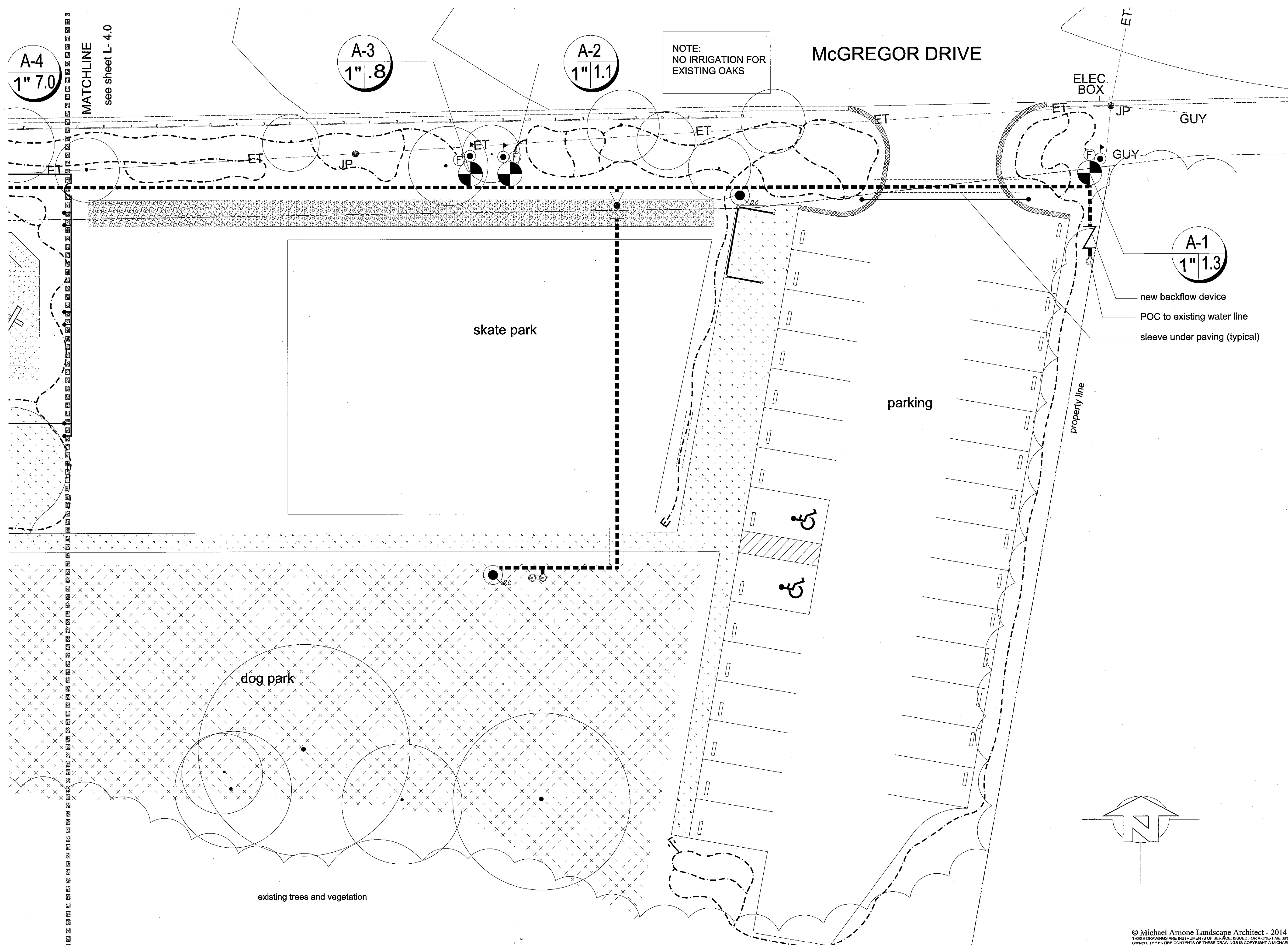
DATE	PURPOSE	BY
1.6.14	planning commission submittal	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
1" = 10' - 0"

sheet title:
West Irrigation Plan

sheet number:
L - 4.0
of fourteen

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A-4
1" 7.0

MATCHLINE
see sheet L- 4.0

A-3
1" .8

A-2
1" 1.1

NOTE:
NO IRRIGATION FOR
EXISTING OAKS

McGREGOR DRIVE

ELEC. BOX

JP

GUY

GUY

A-1
1" 1.3

new backflow device

POC to existing water line

sleeve under paving (typical)

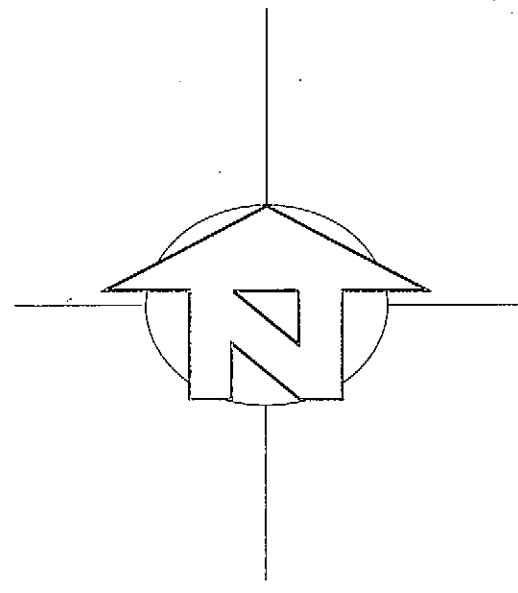
skate park

parking

property line

dog park

existing trees and vegetation



SEE IRRIGATION LEGEND & NOTES SHEET L-4.0
SEE IRRIGATION DETAILS SHEET L- 5.0

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McGREGOR PARK
CITY OF CAPITOLA
McGREGOR DRIVE, CAPITOLA



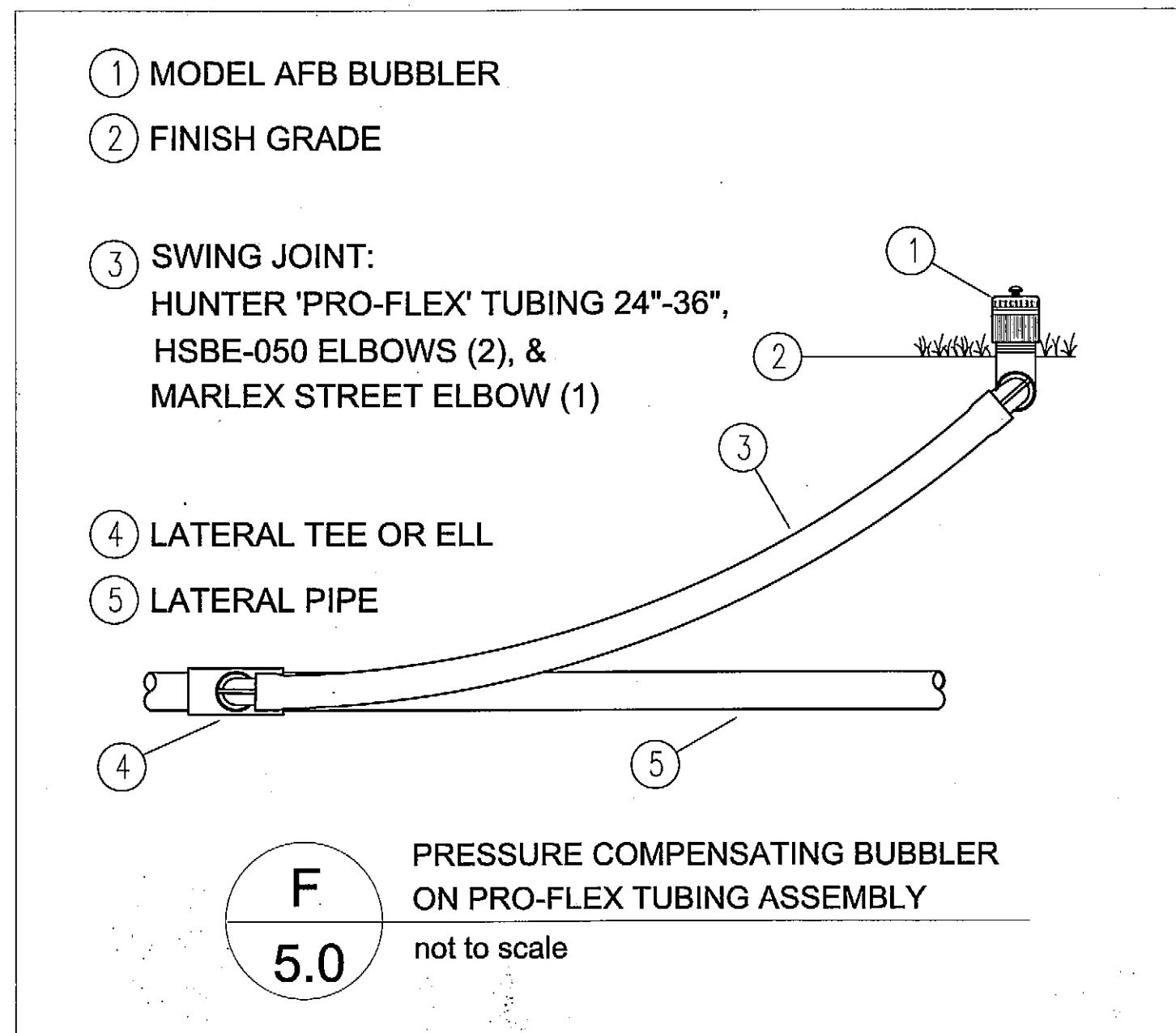
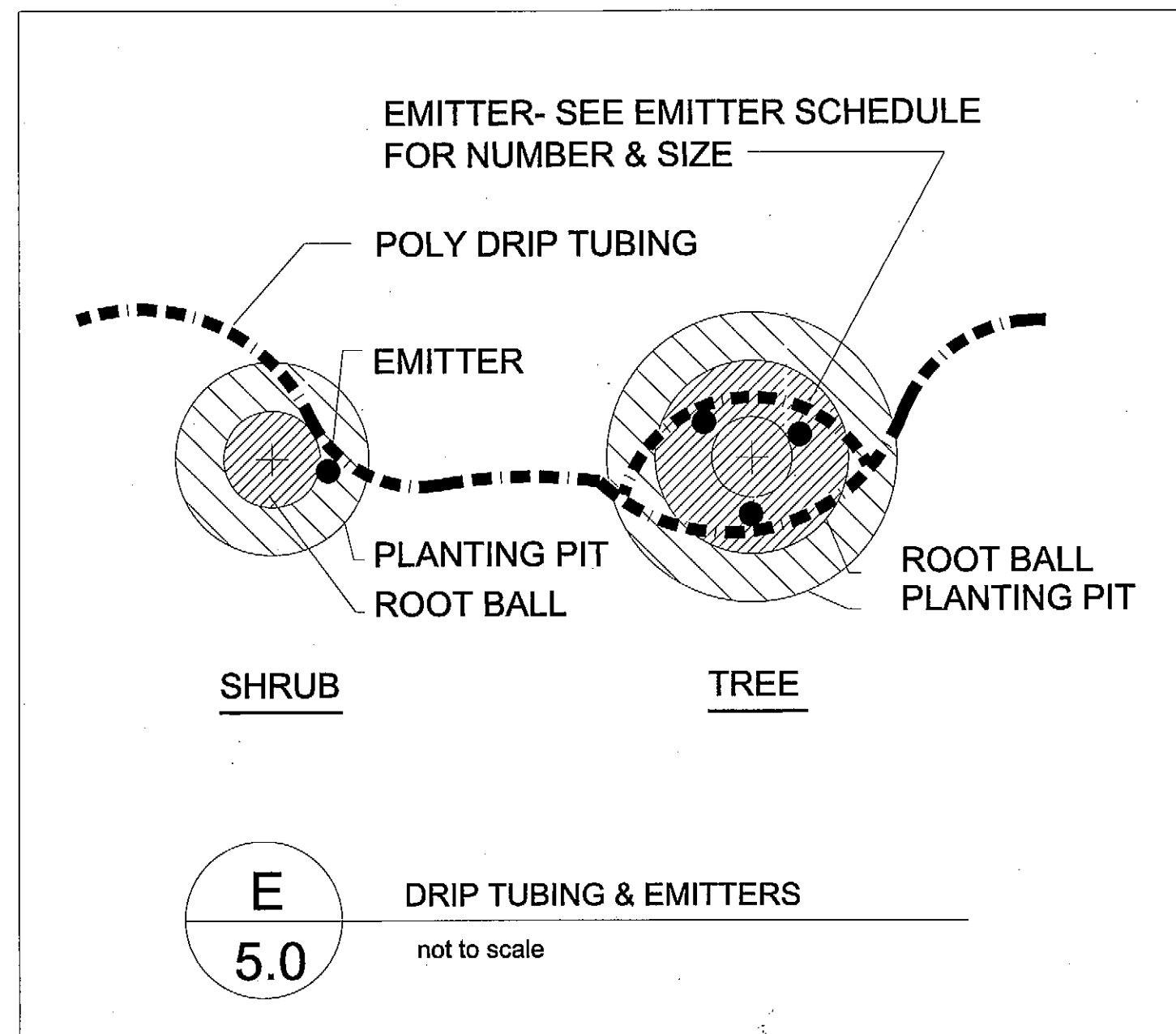
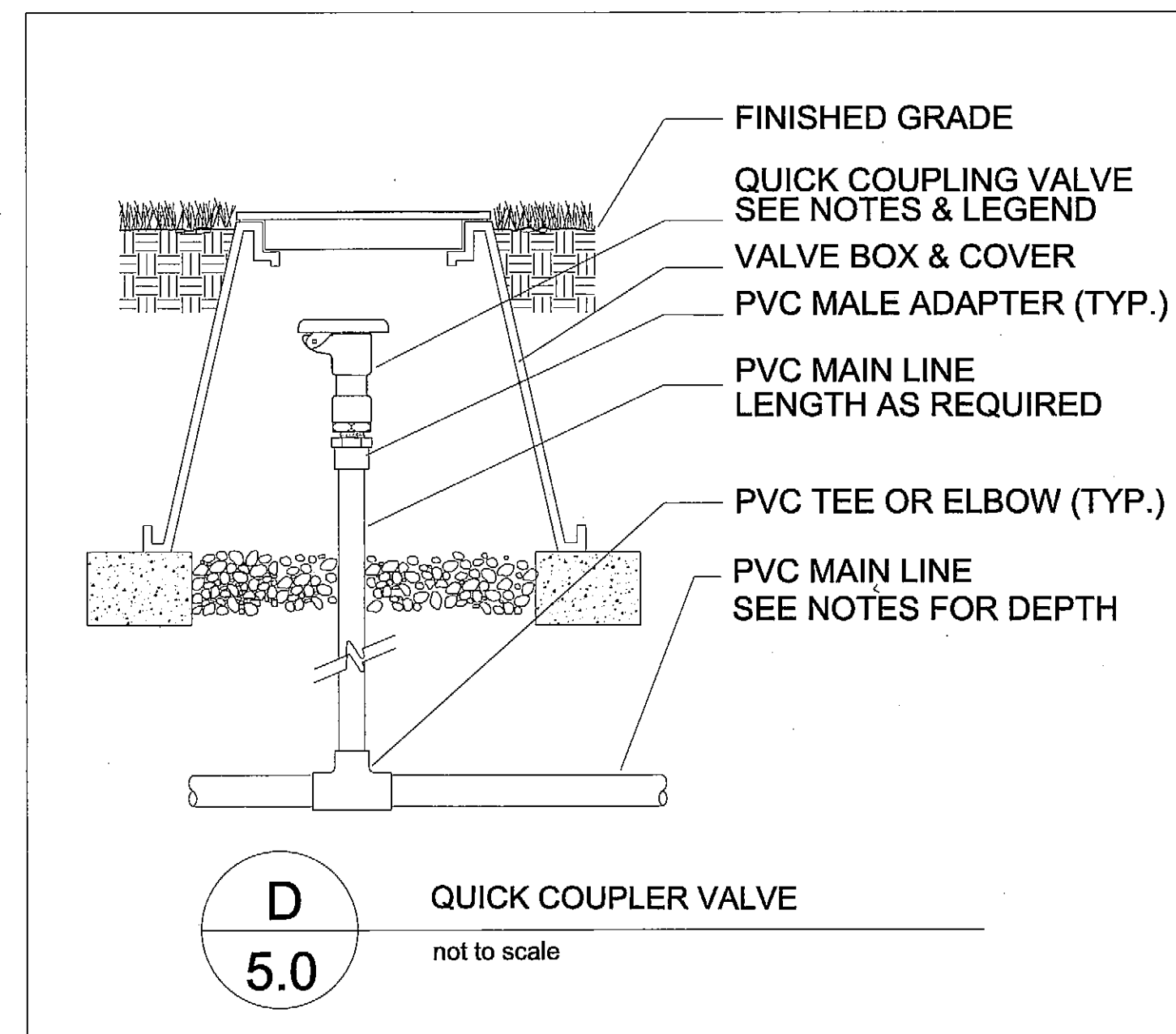
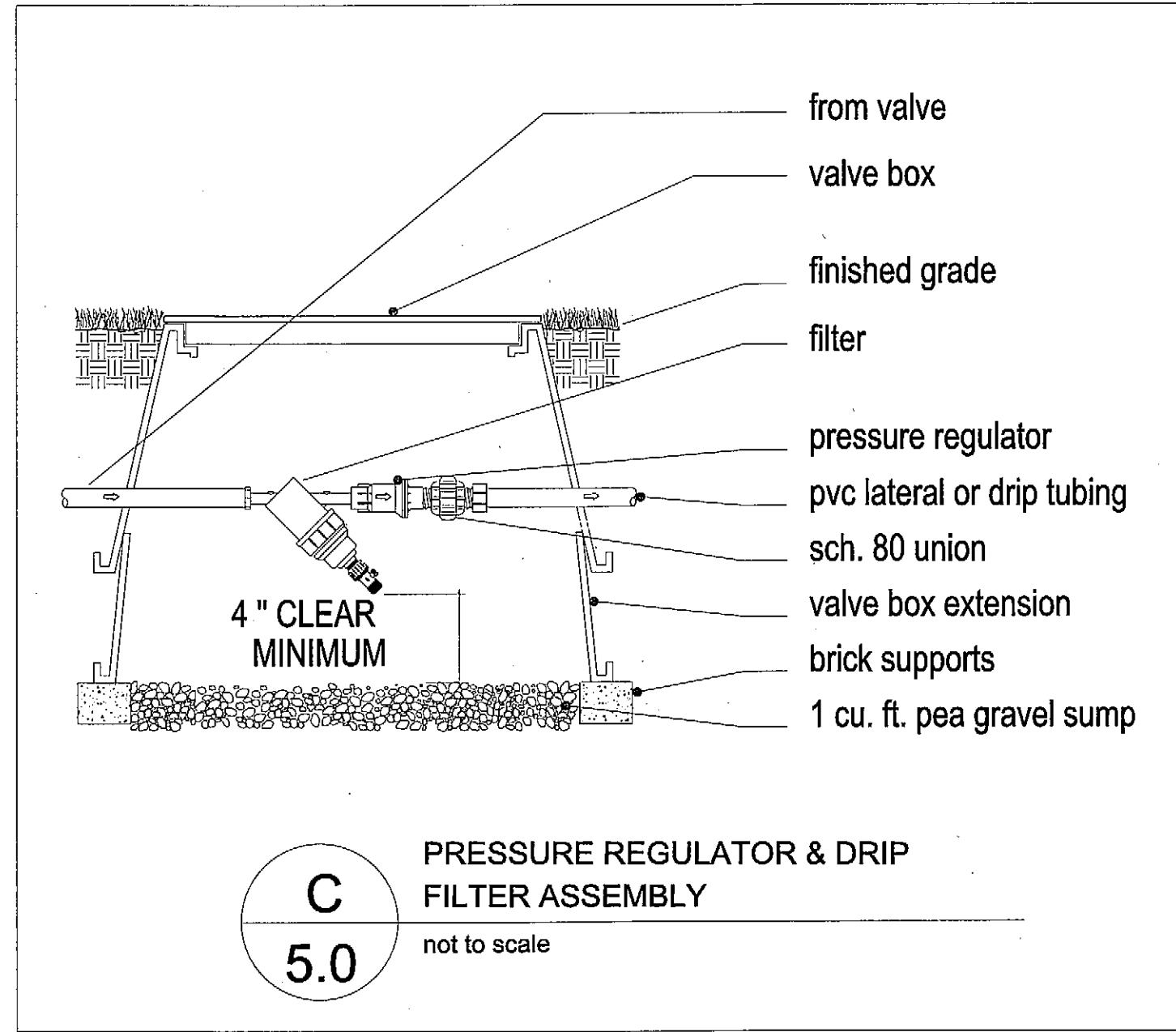
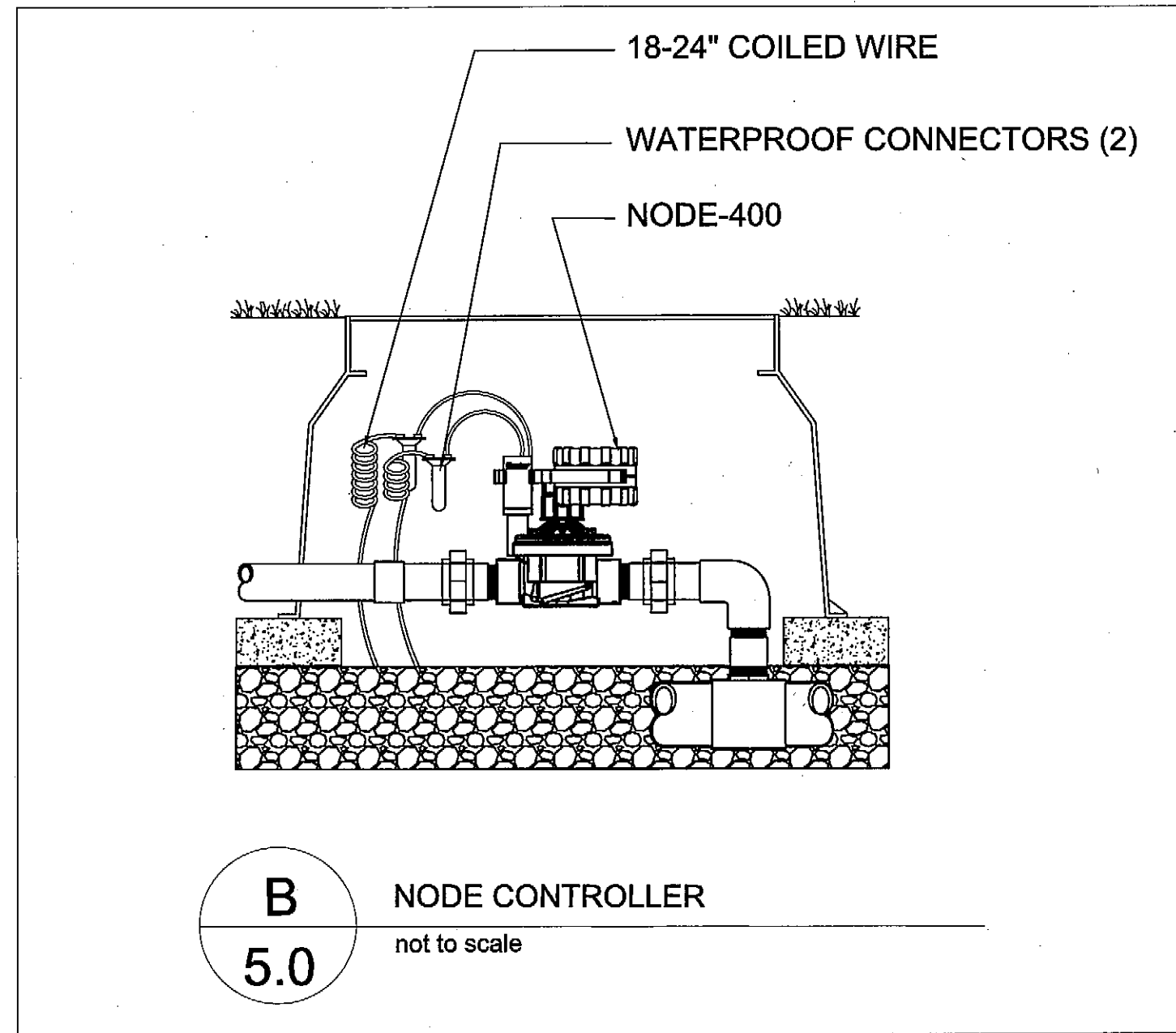
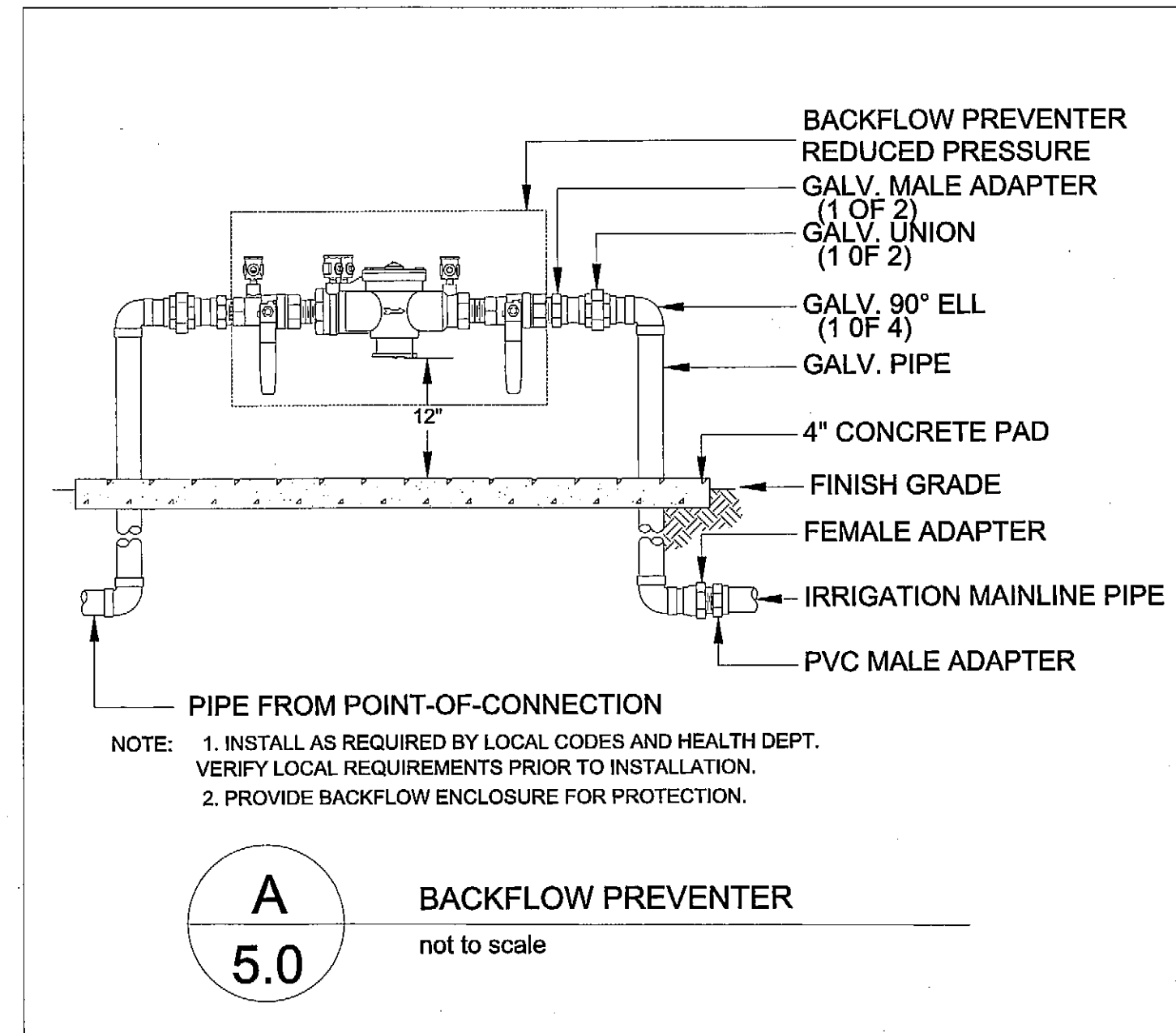
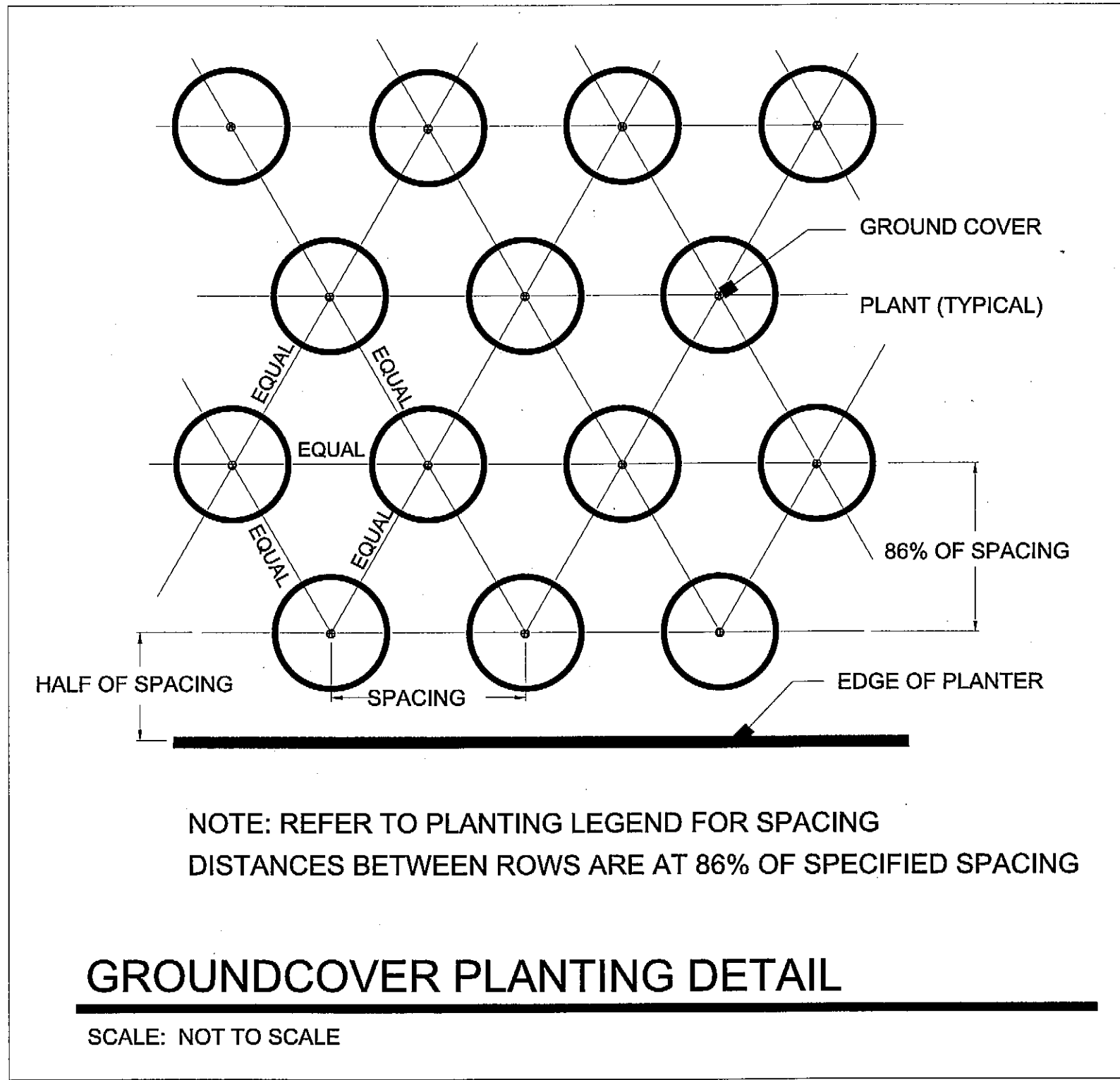
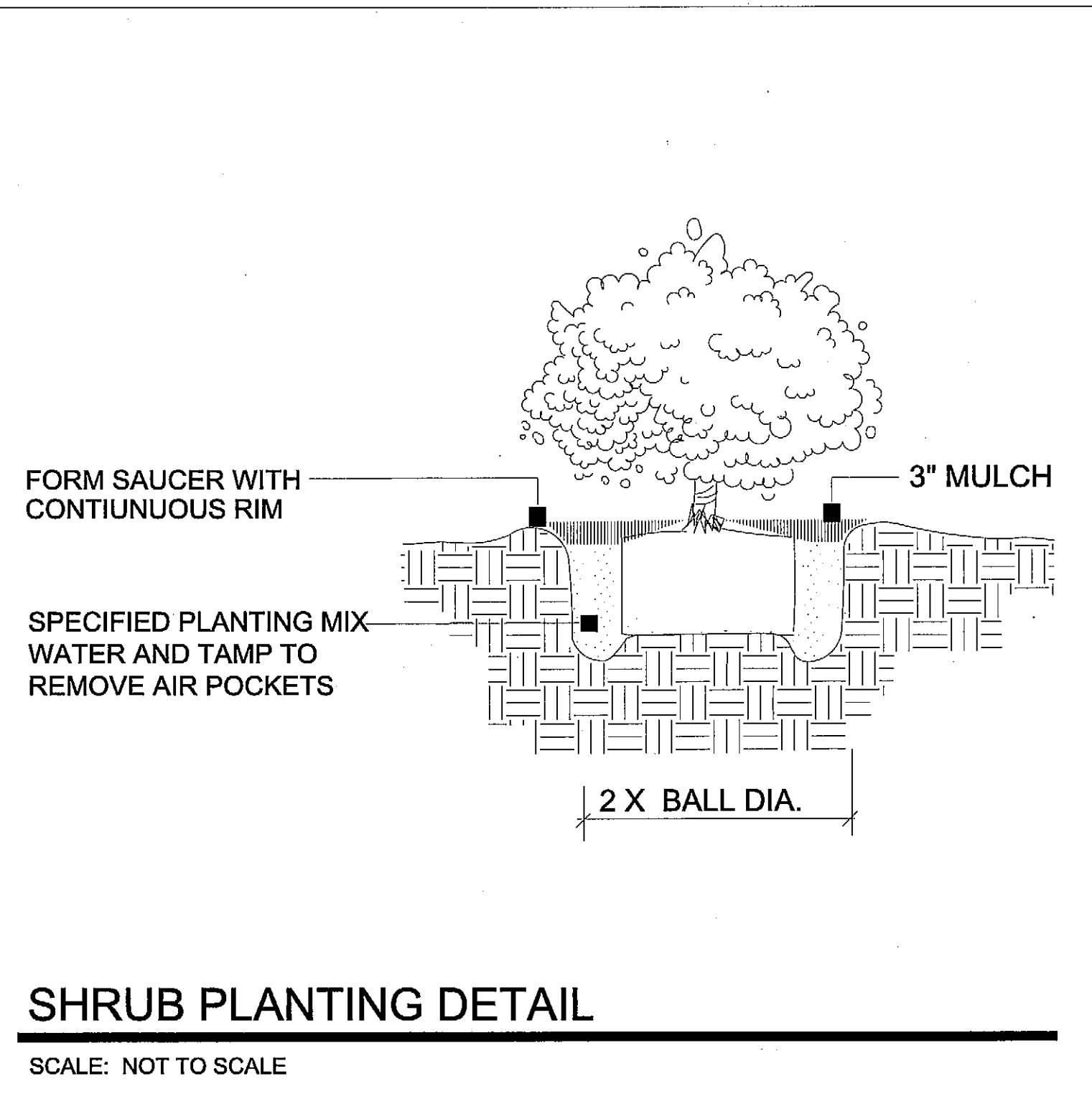
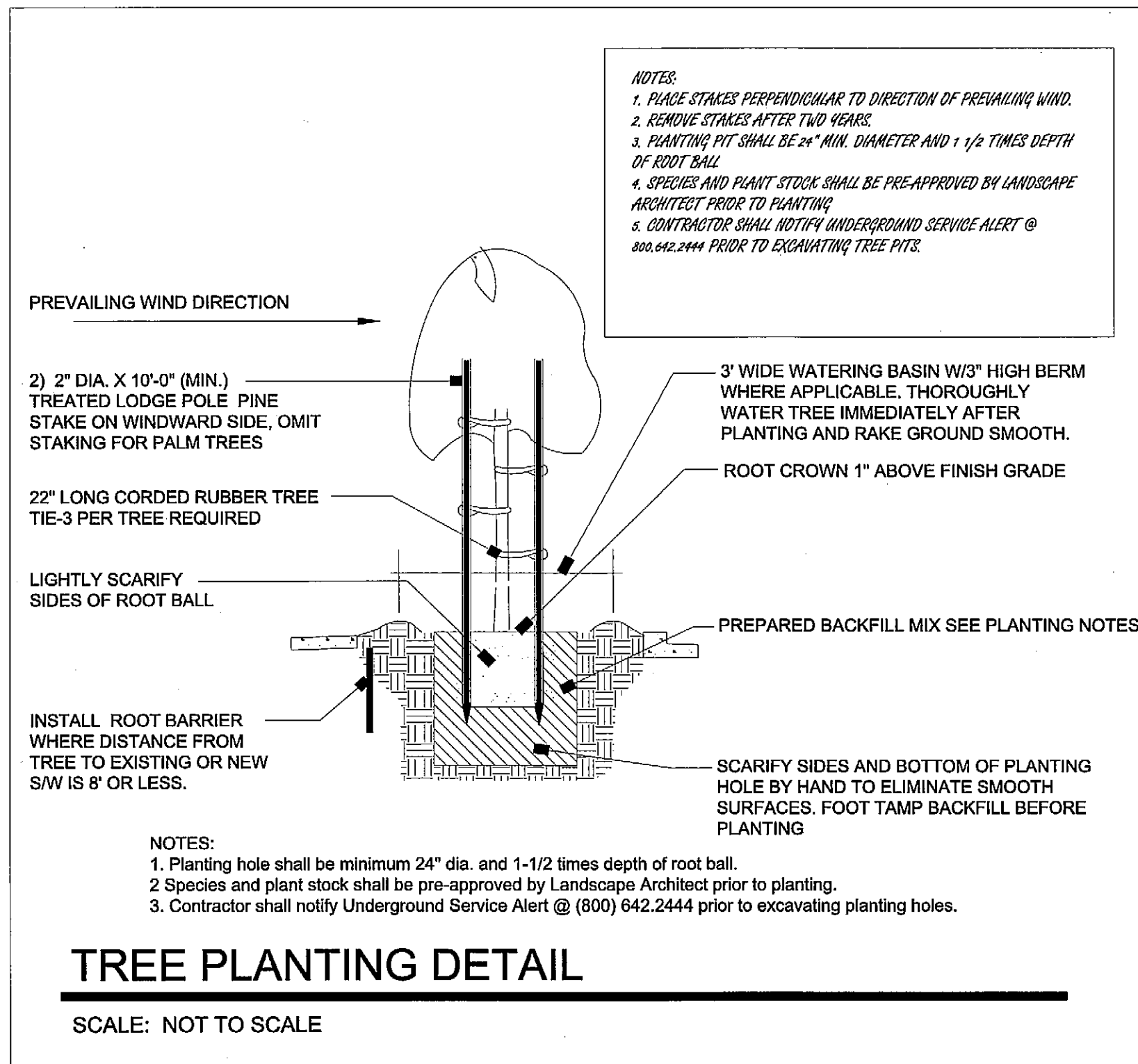
DATE	PURPOSE	BY
1.6.14	planning commission submitted	MAA
2.25.14	pod placement	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
1" = 10' - 0"

sheet title:
East
Irrigation
Plan

sheet number:
L - 4.1
of fourteen

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McGREGOR PARK
 CITY OF CAPITOLA
 McGREGOR DRIVE, CAPITOLA



DATE	PURPOSE	BY
1.6.14	planning commission submittal	MAA
3.31.14	bid set	MAA
4.16.14	bid set	MAA

scale:
 as noted

sheet title:
 Planting +
 Irrigation
 Details

sheet number:
 L - 5.0
 of fourteen