NICHELINI GENERAL ENGINEERING STATE LICENSE No. 621267

ATTACHMENT 5:

POPE CREEK ROCK QUARRY/GRAVEL PIT RECLAMATION PLAN DETAIL

Revised May 1997

The following Attachments are cross-referenced with the Prototype Reclamation Plan Form provided by the State Mining and Geology Board:

Attachment 1: Site Plan (Existing)

Attachment 2: Topographic Map (Existing)

Attachment 2A: Report of Environmental Setting

Vegetation Survey

Sensitive Species/Habitat

Proposed Revegetation Plan/discussion

Soil Fertility Guidelines - A&L Agricultural Labs

Attachment 3: Financial Assurances Cost Estimate Attachment 4: Notice to Owner of Proposed End Use. Attachment 5: Reclamation Plan (This Document)

Attachment 5A: Proposed Reclaimed Site Topographic Map

I. ROCK OUARRY (HARD ROCK OUARRY)

Reclamation and Reclamation Schedule. This schedule assumes that all hard rock permitted to be extracted will have been extracted when the time for reclamation (site closure) occurs. As described in the Project Revision Statement, Item 1, Geology and Ecosystems, the northern boundary of the site will contain an undisturbed ridge extending no closer than 10 horizontal feet from the sharp break in slope defining the southern edge of the existing natural terraces along the rim of the inner rock-cut Pope Creek gorge, or, where there is no existing natural terrace, the line connecting the southern edge of the two nearest terraces. This northerly area of undisturbed property is designated the "unworked portion of the site".

Reclamation of the "worked" portion of the site would include site cleanup (described below), regrading of the approximately 6 acre site to establish natural-appearing contour and drainage, and revegetation, described below.

2. Cleanup. All processing equipment, related structures and improvements would be removed:

Truck scale and scale shack, backfill of the scale pit Culvert drain pipes

Steel frame fixed conveyor, elevator and elevated storage bunkers

Steel/timber headwall Utility pole and lines

Miscellaneous "Boneyard" scrap metal and debris

- 3. Post-Reclamation and Future Mining. Upon completion of reclamation activities the site would have the appearance of open space/wildlife habitat with a crescent-shaped, rocky hill approximately forty feet high at its highest point and five hundred feet long at the northern boundary of the site (farthest from Pope Canyon Road). The southern face of this hillock would be rocky and would roughly match the slope of the undisturbed hill on the opposite (north) bank of Pope Creek. The reclaimed site would have no adverse future effect on adjacent or nearby properties for mining purposes. See Attachment 5A: "Proposed Reclaimed Site Topographic Map."
- 4. Subsequent Uses. The site would be suitable for open space/wildlife habitat.
- 5. Slopes and Slope Treatment. Unimproved access roads and graded work areas would be regraded to conform to natural terrain. Additionally, compacted areas, such as haul roads and equipment work areas, would be "decompacted" by deep ripping. Finished slopes would be contoured to blend with the terrain. Slopes would not exceed 2% at any point on the reclaimed site. The front-facing (south) slope of the undisturbed hillock along the northern boundary would approximately replicate the existing slope of the undisturbed rocky hill on the opposite (north, "off-property") bank of Pope Creek.
- 6. Ponds, Reservoirs, Tailings, Wastes.
- a. The surface runoff silt/settling pond would be backfilled with select overburden material. There would be no tailings and/or mine waste piles.
- 7. Soils and Fine Textured Waste. Approximately 10,000 cubic yards of select stockpiled soil will be stored (shown on

Attachment 1: "Site Plan - Existing") for end-use spreading over the approximately six acre flat working pad area to a depth of approximately 12 inches, fine graded to establish natural contour and drainage.

- 8. Revegetation. Refer to Attachment 2A: "Proposed Revegetation Plan/Discussion" prepared by Joe Callizo dated 6 May 1997 and "Soil Fertility Guidelines" prepared by A&L Western Laboratories dated 23 April 1997 (This analysis is based upon two soil samples taken from the Hard Rock Quarry site, designated HR1 and HR2, and one sample taken from the Wash/Batch plant site, designated GP3. The Hard Rock soil samples were taken from overburden piles and are of poor quality. In a phone conversation with A&L Western's analyst Mike Buttress on 14 May 1997, it was determined that the site is high in mangesium, which inhibits drainage and subsequent nutrient uptake, requiring a large amount of gypsum amendment. Mr. Buttress suggested that adding 2% organic material to the existing soils could substantially reduce the amount of gypsum and "NPK" fertilizers suggested in the A&L Western report. The Financial Assurances Cost Estimate Attachment 3 reflects this suggestion.)
- Mr. Callizo's general intent is to induce a replication of native plant species presently found in the local area. A performance standard (success criteria) of 80% of "baseline" is suggested. Mr. Callizo's suggested plant list and seed rates are used in the Reclamation Cost Estimate. Revegetation would include tree planting at the rate of two new trees of like species for every one tree currently growing on the site, with protective tree tubes and a drip irrigation regime lasting 3 5 years (or until established).
- 9. Drainage and Erosion Controls. Final drainage patterns would be established to ensure no measurable impact on the surrounding watershed or Pope Creek.
- 10. Public Safety. There would be no public safety impact from the reclamation of the site.
- 11. Monitoring and Maintenance.
- a. There is no evidence of baseline monitoring having been performed at the site.
- b. Periodic site inspections would be performed to ensure that revegetation occurs, as recommended in Attachment 2A: "Proposed Revegetation Plan/discussion."

Monitoring of erosion control measures would be

performed once per week for the first wet season month after reclamation is completed, followed by bi-weekly inspections for the following three months, followed by monthly inspection in dry months and/or continued bi-weekly inspection in wet season months, for a total of twelve months.

- c. The Applicant would be responsible for carrying out the aforementioned revegetation, erosion control, and monitoring program, to include a written record describing each inspection visit. The record would be retained for a five year period.
- 12. Reclamation Assurance. The Applicant is a licensed and bonded general engineering contractor possessing the equipment and expertise to perform all aspects of the Reclamation Plan. Additionally, a surety bond in an amount and form satisfactory to the County would be secured to guarantee reclamation of the site. Refer to Attachment 3: "Financial Assurances Cost Estimate."

II. GRAVEL PIT (WASH PLANT AND CONCRETE BATCH PLANT)

- 1. Reclamation and Reclamation Schedule. Reclamation would ensue upon closure of the Pope Creek Gravel Pit (creek extraction) operation. Reclamation would include site cleanup, regrading of the 5.5 acre (approx.) site back to establish natural contour and drainage, and revegetation, described below.
- 2. Cleanup. All processing equipment, related structures and improvements would be removed from the site:

Concrete Batch Plant:
Headwall
3 Aggregate Bins
Portland Cement Silo
Water batch tank (approx. 200 gal)
Feed belt system
Batch Hopper, support structure
Electrical motors, switch gear, panels

Wash Plant:

Pope Creek electric suction pump assembly, panel Water feed valves and piping Waste water valves and piping Settling Pond recycling pump, valves, piping, panel Feed hopper and headwall 24" Jaw Crusher Internal combustion engine (crusher power plant) Feed belts, two wash decks, support structure Electric motors, switch gear, panels

Salvage rolling stock
Utility poles and lines
16ft X 30ft Storage Shed
13ft X 24ft Office
Misc. Wood Frame/Corrugated Metal Sheds:
4ft X 6ft
8ft X 16ft
3 ft X 8ft
Skid-mounted diesel storage tank (200 gal)
Miscellaneous "Boneyard" scrap metal and debris

Note: The abandoned 10ft X 60ft house trailer is the property of the Landowner, and is not related to the Batch/Wash Plant operation.

- 3. Post-Reclamation and Future Use. Upon completion of reclamation activities the site would be open space/wildlife habitat. The reclaimed site would have no adverse future impact on adjacent or nearby properties.
- 4. Subsequent Uses. The site would be suitable for open space/wildlife habitat.
- 5. Slopes and Slope Treatment. Unimproved access roads, graded work areas, and settling ponds would be regraded to conform to natural terrain. Additionally, compacted areas, such as haul roads and equipment work areas, would be "decompacted" by deep ripping. Finished slopes would be contoured to blend with the terrain. The natural, slight ground slope towards Pope Creek would be restored. It is anticipated that no reclaimed slopes would exceed 3 horizontal to one vertical.
- 6. Ponds, Reservoirs, Tailings, Wastes.
- a. The two settling ponds would be filled in by redistributing the earth berms back into the excavations. Any remaining stockpiles of aggregate would be removed from the site. Wash Plant tailings, consisting of silts washed out of the creek aggregate, would be mixed with the fill. Hydrated portland cement/concrete tailings (i.e. Batch Plant slough/waste) would be loaded and offhauled to a legal recycling operation.
- b. No dams have been constructed or are contemplated during the operational phase. Small embankments (berms) created to channelize runoff would be levelled.
- 7. Soils and Fine Textured Waste. Site soils consist of weak topsoil overlaying alluvium containing cobbles, gravel, sand, and silt. Fine textured waste consists of native silt tailings from

the Wash Plant.

- Revegetation. Refer to Attachment 2A: "Proposed Revegetation Plan/Discussion" prepared by Joe Callizo dated 6 May 1997 and "Soil Fertility Guidelines" prepared by A&L Western Laboratories dated 23 April 1997 (This analysis is based upon two soil samples taken from the Hard Rock Quarry site, designated HR1 and HR2, and one sample taken from the Wash/Batch plant site, designated GP3. The Gravel Pit soil sample was taken from relatively undisturbed ground in the "Work Area" west of the main access road and is moderately fertile. In a phone conversation with A&L Western's analyst Mike Buttress on 14 May 1997, it was determined that the site is high in mangesium, which inhibits drainage and subsequent nutrient uptake, requiring a large amount of gypsum amendment. Mr. Buttress suggested that adding 2% organic material to the existing soils could substantially reduce the amount of gypsum and "NPK" fertilizers suggested in the A&L Western report. The Financial Assurances Cost Estimate - Attachment 3 - reflects this suggestion.)
- Mr. Callizo's general intent is to induce a replication of native plant species presently found in the local area. A performance standard (success criteria) of 80% of "baseline" is suggested. Mr. Callizo's suggested plant list and seed rates are used in the Reclamation Cost Estimate. Revegetation would include tree planting at the rate of two new trees of like species for every one tree currently growing on the site, with protective tree tubes and a drip irrigation regime lasting 3 5 years (or until established).
- 9. Drainage and Erosion Controls. Final drainage patterns would be equivalent to or flatter than existing patterns to ensure no measurable impact on the surrounding watershed or Pope Creek.
- 10. Public Safety. There would be no public safety impact from the reclamation of the site.
- 11. Monitoring and Maintenance.
- a. There is no evidence of baseline monitoring having been performed at the site.
- b. Periodic site inspections would be performed to ensure that revegetation occurs, as recommended in Attachment 2A: "Proposed Revegetation Plan/discussion."

Monitoring of erosion control measures would be performed once per week for the first wet season month after reclamation is completed, followed by bi-weekly inspections for

the following three months, followed by monthly inspection in dry months and/or continued bi-weekly inspection in wet season months, for a total of twelve months.

- c. The Applicant would be responsible for carrying out the aforementioned revegetation, erosion control, and monitoring program, to include a written record describing each inspection visit. The record would be retained for a five year period.
- 12. Reclamation Assurance. The Applicant is a licensed and bonded general engineering contractor possessing the equipment and expertise to perform all aspects of the Reclamation Plan. Additionally, a surety bond in an amount and form satisfactory to the County would be secured to guarantee reclamation of the site. Refer to Attachment 3: "Financial Assurances Cost Estimate."

REVEGETATION PLAN

The following recommendations for a revegetation plan are based upon 30 years of study of the native plants of Napa County, and even more years, of Pope Valley. During those periods I have developed comprehensive checklists for the woodland and riparian plant communities in Pope Valley and specifically for the area of Walters Springs Bridge. These checklists are composit, i.e., compiled from many visits to many sites. Copies are available from me upon request.

My Revegetation Plan is to be part of an approved Reclamation Plan.

Although the 2 quarries are not prime agricultural lands, it is highly likely that livestock grazing will occur there in the distant future. There is even a chance that the batch/wash plant site will someday be used for crops!

REVEGETATION

Introduction:

The following parameters pose limits on the plant species that might be used:

Desired habitat

Plant Community

Suggests what plants would, or would not, likely grow well in the area.

Suggests what plants to avoid, or not avoid, that are common in the area.

Sunlight

Temperature

Slope

Moisture

Proximities

Availability of plants

TWO GRAVEL QUARRIES IN POPE VALLEY; NICHELINI

REVEGETATION

site: 2 riparian borders
The following characteristics of the site place limitations on the species that ought to be planted:
Desired habitat: natural + predisturbance + natve
Plant Community: VALLEY OAK RIPARIAN
species present: Valley Oak, Willows, Oregon Ash,
Gray Pine, Elderberry
sunlight: full sun
Temperature: <u>Seasonal</u> frost
slope: Steep riverbanks
Moisture: <u>Summer</u> Woist
soil: gravelly, rocky
Proximity to: Pope Creck.
Other:
Additional limitation: Availability of plant material.
Sketch: See inclosed maps.
Recommended: Plant many of the following: Trees: Valley Oaks (Quercus lobata), Oregon Ash (Fraxinus Latifolia) Fremont Cottonwood (Populus frementi)
Trees: Valley Oaks (Quercus lobata), (Populus frementi) latifolia) Fremont Cottonwood (Populus frementi)
Elderberry (sambucus caerulea), Red Willow (Salix
laevigata), Sandbar Willow (S. Sessifolia) Arroyo
Willow (s lacrolonis). Black Walnut (Tudans hindi)
Willow (s. Lasiolepis), Black Walnut (Juglans hindi) Big Leuf Mople (Acer macrophyllum) Shrubs: Snowberry (Symphoricarpus albus var laevigatus), Mugwort (1-1) (1-1) (1-1) (2016) Calif. Wild Rose (Rosa
Shrubs: Snowberry (Symphoricarpus albus vor laevigatus), muquoic
(Artemesia douplasiana), Calif. Wild Rose (Rosa californica), Calif. Wild Grape (Vitis californica)
campornica), carrie

Herbs: see the following discussion.

REVEGETATION

site: graded areas + roadside strips
The following characteristics of the site place limitations on the species that ought to be planted:
Desired habitat: natural + predisturbance + native
Plant Community: Woodland
Species present: Valley Vale, Blue Oak
sunlight: full sun except under remnant trees
Temperature: scasonal frost
slope: more or less flat
Moisture: Summer/fall dry
soil: gravely, rocky day
Proximity to: <u>Pape Creek</u>
Other:

Additional limitation: Availability of plant material.

sketch: see included maps.

Recommended: Plant Many of the following. Live Oak (O. agrifolia on wizles

Trees: Valley Oak (Quercus lobata), Blue Oak (O. douglasio)

Oregon Ash (Fraxinus latifolia), Elderberry (Sambucus

Caerulea), Gray Pine (Pinus sabiniana), Black Walnut

(Juglans hudsi), Buckeye (Aesculus californica), Bay

(Umbellularia californica

Shrubs: Common Mauzonita (Arctostaphylos manganitae), Coyotc Brush (Baccharis pilalavis), Common Buckebrush (Ceanothus cuncatus), Wild Licovish (Bycyrriza lepidota) Summer Lupine (Lupinus formosus), Jepson's Wild Rea (Lathyrus jepsonii var. californicus), Toyon (Keteroneks arbutifolia), Squaw Bush (Rhus trilobata var. gumata)

Quarry in Pope Valley: NICHELINI REVEGETATION

REVEGETATION
site: south slope of knob.
The following characteristics of the site place limitations on the species that ought to be planted:
Desired habitat: natural + predisturbance + nativo
Plant Community: steep, dry, rocky, grassy, subbarren slope
Species present: nonc
Sunlight: full sun
Temperature: <u>Seasonal frosts</u>
slope: 5teep
Moisture: <u>summer-fall dry</u>
soil: rocky
Proximity to:
Other:
Additional limitation: Availability of plant material.
Sketch: See map inclosed.
Recommended: Plant many of the following:
Trees: none,
Shrubs: Common Buckbrush (Ceanothus amectus), Bush
Monkey Flower (Mimulus auraniams), volumes (Lupinus
Wheat (Errogonum Rudum), months (Comme abstrons), Gerba Santa (Errodictyon-californica), Comme abstrons), Glue Pensternon Coyole Munt (Monardella villosa), Blue Pensternon (Monsternon heterophylla) Bulbs: Brodiceas (capituta, laxa, congesta, + elegans)
Herbs: (See discussion which follows)

TREES & SHRUBS TO PLANT

The following pages present my recommendations for trees and shrubs to plant. I do not feel it is necessary to plant all the species named, only a goodly number of them, depending on what is available, what can be gathered from the field, and what can be successfully grown.

As an almost strict rule, it is best to use seed sources and cuttings from near the sites where they will eventually be planted.

Beware: start growing trees and shrubs 1 or 2 years in advance of when they are to be planted. If growing them will be under contract, start 2-3 years in advance. Do not depend on plants to be available at wholesale nurseries when they are needed; order in advance.

Fencing: Deer, squirrels, gophers, livestock, and other herbivores must be excluded, if the trees and shrubs are to survive. Use plastic growth tubes (see appended liturature), wire cages, and/or tall fences. Install the latter before planting!

The best time to plant is in the early-mid winter (see planting instructions which follow).

It is a good idea to put a two-foot circle of thin mulch (straw, wood chips, cloth, or rock) around each plant, but not against their trunks. Keep clear a six-inch circle around each trunk, to discourage small rodents.

Irrigation: It is a good idea to irrigate the newly planted trees and shrubs. My suggestion is that they be irrigated/soaked once a week during the first summer-fall (do not stop until there is a heavy rain), about every two weeks the second summer-fall, and about every 3-4 weeks the third. Once established, that is, when they can continue to grow on their own, without human care, they should not need any further irrigation. They would flourish, however, if watered monthly during the future dry seasons.

The following tables give recommendations for the number of each tree and shrub species to plant, sources of plant material, places to plant, and comments. Numbers recommended are based on the assumption that 50% of canned plants, 25% of seeded plants, and 50% of cuttings/live stakes will survive and become established.

12	AREAS	Ripanan border	farthesifrom week	Graded areas Pardside strys	Ryanan border Gradus coreas — near creekbank	Repaired horders See following pages "live stating"	Graded Avent near cre-thomb	Asparran bordoos Sec-following pages "live staking"	crodect areas—near creekbank	" - near creekbank	Reparas Graded areas Road side strips	Grade cores Repartede strips	Graden areas Roadside stryis	
*	SOURCE	Lucal acorns	и н	Ä	Local Seed	lucal stakes	local seed	local stakes	** nuts	Local secd	local seed	local fruits	Loca I	
	QUANTITY	56 ACOMS Or 40 CARS	40 acoms or 20 cans	20 acoms or 10 cans	* 20 cans	.ti) * 40 caus	1× 20 cans	40 stakes	20 caus) 10 caus	20 cans	40 fruits	10 canus	ilternatio,
	/ K F F 5	Valley dak (Querus lobata) #	Blue Oak (Q. douglasii) *	Live dak (Q. agrif. or wis.)	Oregon Ash (Fraxinus letiplia) * 20 cans	Frement Cottonwood (Ropulus fremont:)* 40 caus	Elderderry (Sambacus caerules) X	Willows (Saxix spp.) *	Black Walnut (Juglans hinds)	Bigheaf Maple (Acer macrophylla)	Gray Pine (Mus sabiniana)	Buckeye (Aesaulus californicus)	Bay (Unbellularia californa)	* talgetteat. In rest are alternated,

** neavest prehistoric frees are at Circle Ooks (Montrello Rd) + Homestake Pienic Arec (Morgan Valley Rd.)
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	3															
	ANEAS	Edge of creekbank	creekbank	Edge of creekbank	creek-bank	Graded overs Roadside strips	Graded Coveds Roads, of ships	Graded areas Ruadride ships	laced patches (Wontown Preserve) Braded	6 rade of areas	tide of ercelibant	Graded oneons	Edge of creekbank	Knob	knob	,
	SOUNCE	local planks	local plants	local plants	local vines	loal seed or cuttings	local cuttings	local seed	lacol patches (Wa	local seed	local seed	last szed	local pathes	local cuttings	local seed	
	QUANTITY	40 roof cuttings	40 root cuttuas	40 root cuttings	40 stem cuthings	20 cons	20 cons	20 caus	40 root cuttings	20 cans	20 cons	20 cons	40 post cuttings	a) \$ 20 cons	20 cous	Corroled.
		macarpus rivularis) *	douglasiana) *	sa cahfornia) *	's californica) A	ctostaphylos manzanstar	gilulans consaugumes)	eaudhus caneatus) *	hisa lepiota)	upinus formosus)	Jepson's Wild Pea (Kathyrus jepsoni californicu) 20 cous		Squaw Bush (Rhusthlohuta quineta) *	- (Mimulus ausunta cu	stemon heterophy Wa)	(, I'm had the like
*	SHRUBS	Snowberry (Symphorocarpus rivulary)*	Mugwort (Artemesia douglasiana) *	Caly, Wild Rose (Rosa calfornia) *	Calif Wild Grape (Vitis californica) it	Common Manzaruta (Arctostaphylos manzaustas)	Coyste Brash (backaris pilulans consugumes)	Common Buckbrash (Ceausthus cancatus) *	Wild Licarice (Eycyrthiga lepiota)	Summer Lupiue (Lypinus formosus)	Jepson's Wild Pea (L	Toyon (deberomeles anountfolix) *	Squaw Bush (Mus	Bush Monkey-Flower (Mimulus awantacus) X 20 cous	Slue Ponstemon (Penstemon hotersphy Wa) 20 cours	.13

Continued)	DUANTITY	SOURCE	AREAC
Nude Buckesheat (Friogenum nudum) # 20 cans	20 cam	local seed	knes
"Emmon Cypte Mut (Monurdella villoca) *	20 cons	local seed	knob
Resh Lynne (Lupinos albifors)	20 cans	locul seed	Knob
Yerba Santa (Enodictyon californica) #	20 cons	local seed	knob

SOURCES

- (1) Appleton Forestry Nursery 1369 Tilton Road Sebastopol, CA 95472
- (2) California Flora Nursery
 P.O. Box 3
 Fulton, CA 95439
 (707)528-8813
- (3) California Native Plant Society P.O. Box Napa, CA 94558 (707)
- (4) Circuit Rider Productions Native Plants Nursery 9619 Old Redwood Highway Windsor, CA 95492 (707)838-6641
- (5) Conserva Seed
 P.O. Box 455
 Rio Vista, CA 94571
 (916)775-1676
- (6) Cornflower Farms
 P.O. Box 896
 Elk Grove, CA 95624
 (916)689-1015
- (7) Mostly Natives Nursery 27215 Highway One Box 226 Tomales, CA 94971 (707)878-2009
- (8) Pacific Coast Seed 7074 D Commerce Circle Pleasanton, CA 94588 (415)463-1188
- (9) Ramsey Seed, Inc. P.O. Box 352 Manteca, CA 95336 (209)823-1721
- (v) Live Oak Nursery 1.0. Box 2463 Oakdole, CA 95361
- (11) North Coast Nation Nursery P.O. Box 744 Petaluma, CA 97953 (707)-769-1213

HERBS TO PLANT

In my opinion, it will be practically impossible to establish native herbs at the two sites. The areas are either two choked with non-native, invasive grasses and broad-leaf weeds; or they are, or will be, graded. In the latter places these same herbs will invade and dominate. Success is unlikely. In order to make a descent attempt to establish native herbs, much money, time, energy, and care would be expended. My best recommendation is to concentrate on establishing the new trees and shrubs. Let the herb layer develop naturally, if it will at all. If native species will not invade naturally, it is not likely that they can be established by seeding, unless they are "gardened". If any native species can grow there, they will probably invade and persist naturally.

Warning: Unless the planter of native grass seed intends to follow through on all of the instructions for establishing native grasses, better if he/she not even start. They are difficult to germinate, grow, and establish, requiring much care for years to follow.

In any case, if an attempt to establish a native herb layer is required, my recommendations are as follow. After final grading of the sites, prepare the seed bed for the graded areas:

- 1. Cultivate deeply in the late spring and allow areas to lay follow for the summer & fall.
- 2. Allow grass and weed seeds near the surface to germinate after the first heavy rains in the late fall.
- 3. Spray all the seedlings with a systemic, non-selective herbicide like Roundup.
- 4. Cultivate the areas as shallowly as possible, just enough to break the crust.
- 5. Seed the recommended herbs at once.
- 6. Cultivate once more as shallowly as possible, just enough to bury most of the seed.
- 7. Hope & pray!

Seeding of the riparian borders and the south slope of the knob, must be done by hand without any preparation of the soil. Burying the seed with a hand rake will increase the chances of germination.

The roadside strips should not be cultivated or sprayed, since they already harbor native species. Seeding might result in more native plants, but don't expect much.

SEED SOURCES

AREAS Same as above Groded areas Knob Gruded press Greek of areas Cradil areas 9 3 3 4 17 5 * 4 1/ 0 5 0 7 Eader loss lly or purchase name as alone * * . 1 , , , , SUURCES • 6 by par acre 2 lla/am Bisids Eye (Clarkia traslow) * 2 les fans 6 lbs/are 5 lbs/acre 3 Ma/ane 2 lb fane 1 th/ane many Eleganed (Solidage gray, or S. canadomis)?
(found 1000 114 or 3 + 100 m bank
Elegant Clarkia (Clarka unquentate) * 3 le * recommended; the rest are alternates. Wedding Reedlegues (Hope comma) Inc. Blue Burs (Pa securda) & Carresta Endraca (Carresta Endraca (Carresta Carresta Elegen Parple Reedlegron (Hyris pulcha) * Blue Wed Rye (Elymon of Courses) * Colf Brome (Bronn connectes) Merdon Barloy (Hordermbrochy) * Blow-wired (achogracheena mollie) Clobe orlie (Gilia contata) * Yarrow (achas dea millys) of

ora ae a auer

8 the Jans

Calif. Poppy (Eschacholzia caly) *

Seed gathered near the sites is the best to use. However, this will be impractical for most species. As an alternative, I recommend buying from a seed supplying company. The following are some names and addresses:

Mike Landis, 707-963-9446 Wildflower Seed Company P.O. Box 406, St. Helena, CA 94574

Laura Quatroche, 707-877-3503 Wildflowers International P.O. Box 131, Elk, CA 95432

Larner Seeds, 415-868-9407 P.O. Box 407, Bolinas, CA 94924

Dr. John Anderson, 916-662-4570 Hedgerow Farms, 21740 County Rd. 88, Winters, CA 95694

Moon Mountain, FR P.O. Box 725, Carpinteria, CA 93014

Conserva Seed, 916-775-1676 P.O. Box 455, Rio, Vista, CA 94571

Pacific Coast Seed, 415-463-1188
7074 D Commerce Circle, Pleasanton, CA 94588

Ramsey Seed, Inc. 209-823-1721 P.O. Box 352, Manteca, CA 95336

FALL PLANTING INSTRUCTIONS

By Marje Sweeney

Plant after the rains begin. Plants will grow new roots during the winter and/or spring, establish themselves, and withstand the summer drought.

New plants must be watered deeply several times during the first two summers, or until their root systems are well developed.

Established plants, even drought-tolerant species, benefit from monthly waterings during the summer and fall.

Plants kept in containers must be watered regularly (e.g., twice weekly during the summer and fall), except those which go dormant in the summer, such as Brodiaea, Trillium, Delphinium, Saxifrage, etc.

Add mulch to prevent weed growth, keep roots cool, and reduce evaporation. (Organic material makes the best mulch, but rock will help.)

Avoid frequent, shallow irrigation. Water slowly, deeply; avoid run-off. Do not let the soil dry out completely between waterings; it is easier to maintain moisture than to re-wet the soil.

Avoid having water stand at the base of the plant. The soil should never remain saturated for more than a few hours to avoid root-crown rot.

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SPRING PLANTING INSTRUCTIONS

By Marje Sweeney

Plant as soon as possible. Water frequently during the first summer and fall, at least once a week.

New plants must be watered deeply several times during the second summer and fall, or until their root systems are well developed.

Established plants, even drought-tolerant species, benefit from monthly waterings during the summer and fall.

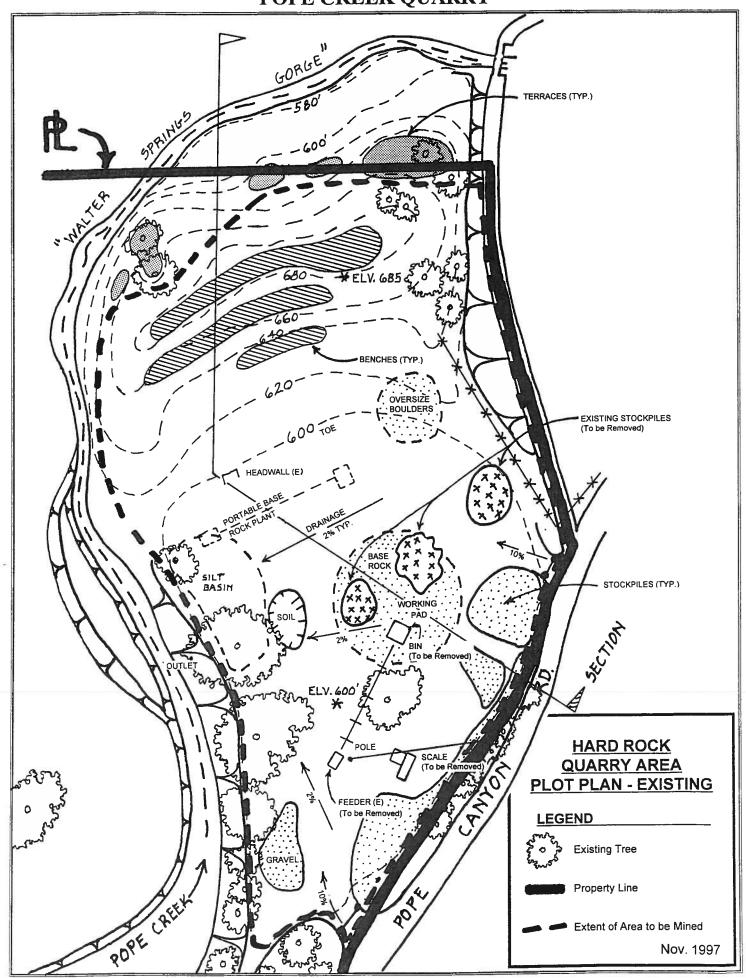
Plants kept in containers must be watered regularly (e.g., twice weekly during the summer), except those which go dormant in the summer, such as Brodiaea, Trillium, Delphinium, Saxifrage, etc.

Add mulch to prevent weed growth, keep roots cool, and reduce evaporation. (Organic material makes the best mulch, but rock will help.)

Avoid frequent, shallow irrigation. Water slowly, deeply; avoid run-off. Do not let the soil dry out completely between waterings; it is easier to maintain moisture than to re-wet the soil.

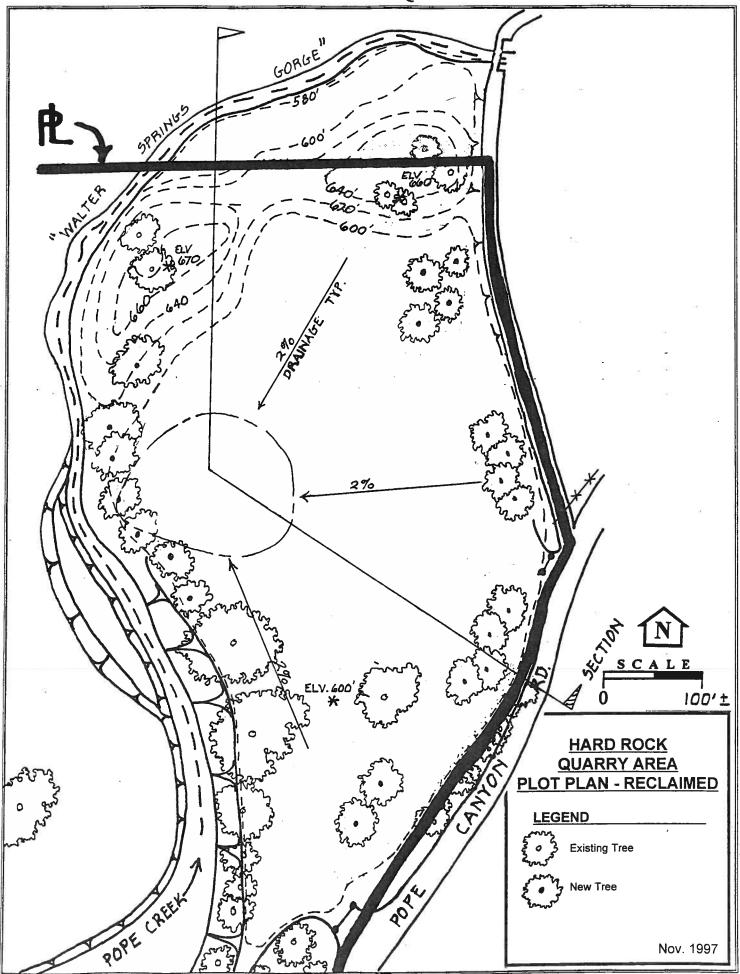
Avoid having water stand at the base of the plant. The soil should never remain saturated for more than a few hours to avoid root-crown rot.

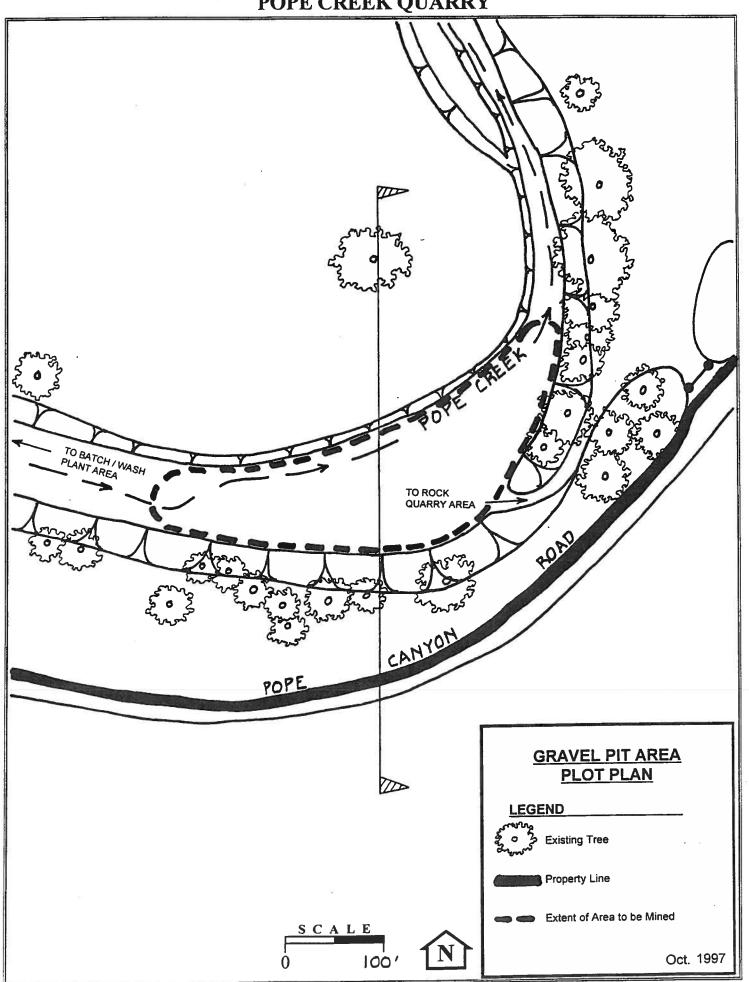
5-22-96 12E RCLM PLN



10-27-97 12E RCLMPLN

11-18-07 17F RCI MPI N





10-27-97 12E RCLMPLN

GRAVEL DEPOSIT (Portion annually removed) **EXISTING CONTOUR** POPE CANYON ROAD

GRAVEL PIT AREA SECTION

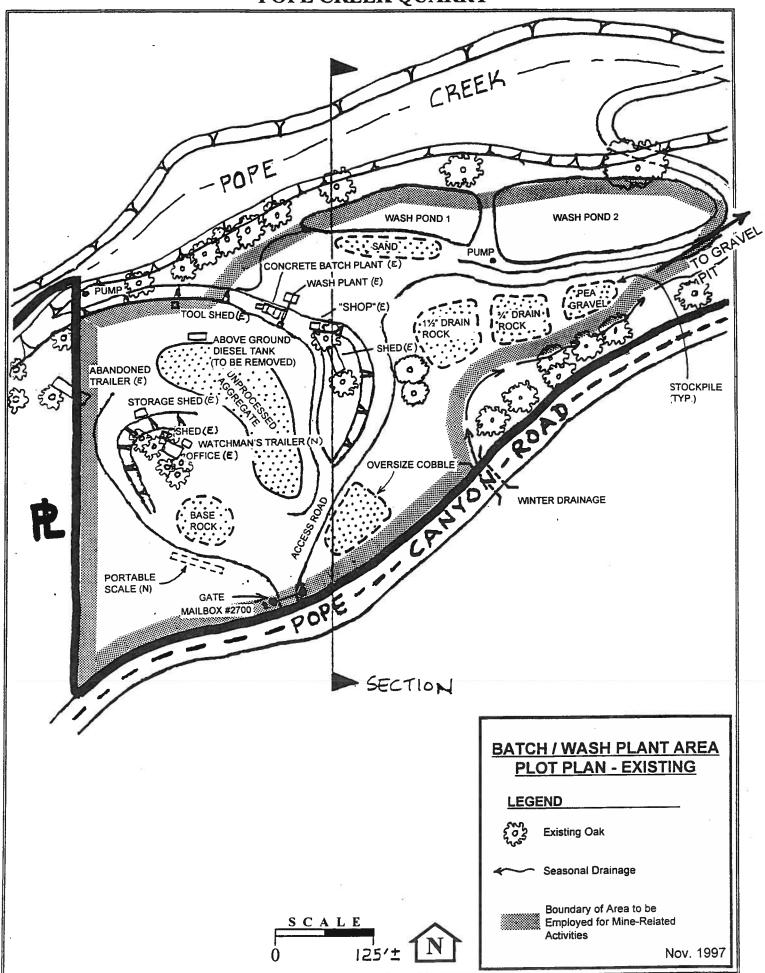
LEGEND

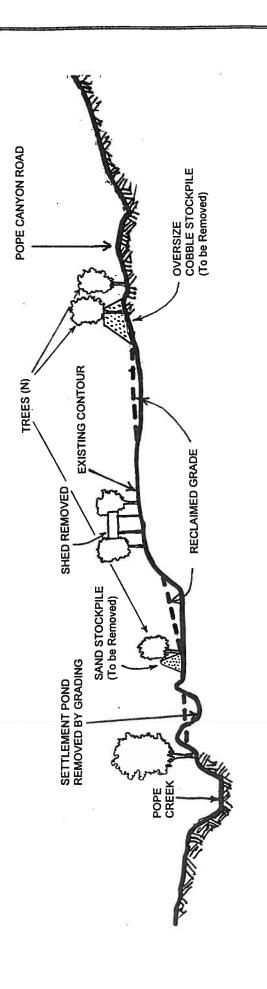
(E) Contour

Scale: 1" = 100' Horiz.

1" = 50' Vert.

Dec. 1997





BATCH / WASH PLANT AREA SECTION

LEGEND

(E) Contour

- Final (Reclaimed) Contour

Scale: 1" = 100' Horiz.

1" = 40' Vert.

Nov. 1997

10-27-97 12F RCI MPI N

