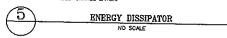
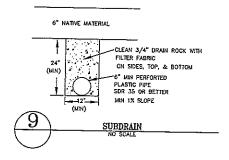
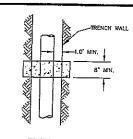


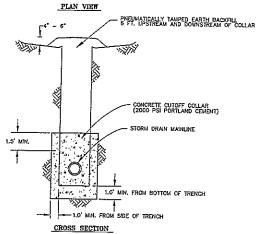
NOTES:
LEVEL SENGTH OF APRON. DISTANCE 'Lo' SHALL BE OF SUFFICIENT
LENGTH TO DISSIPATE ENERGY.
2. APRON SHALL BE PERPENDICULAR TO CONTOURS AND ALICHED STRAIGHT. 3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" (150mm) THICK MINIMUM GRADED GRAVEL LAYER,

PLAN



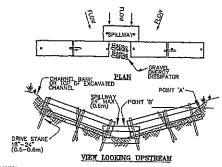






CUTOFF COLLAR DETAIL

NOTE: INSTALL ON ALL CULVERTS AND AT MIN 150' INTERVALS ON ALL STORM DRAIN LINES



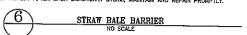
D BALES 4" (100mm) INTO THE SOIL AND 'KEY BALES INTO THE CHANNEL BANKS.

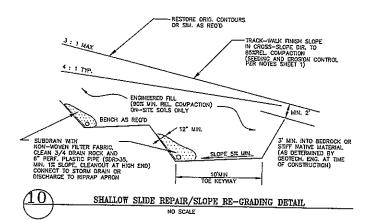
1 MAISTEE BERNINGER THAN POINT BY (SPILIMAY HEIGHT).

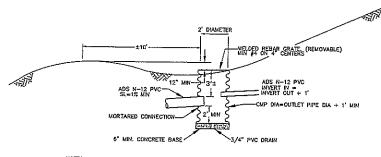
5 MAISTEE PRINCIPLIAR TO HE FLOW WITH ENDS TIGHTLY ABUTTING.

WAY HEIGHT SHALL KUYT EXCELO 24" (0.6m).

COT AFTER EACH GONITICANT STORM, MAINTON AND REPAIR PROMPTLY.







NOTES:

1. FLOWLINE OF INFIELD DIVERSION DITCHES SHALL BE A MIN OF 1% AND MAX OF 5%.

- 2. DITCHES SHALL BE CONSTRUCTED SUCH THAT WINEYARD TRAFFIC MAY PASS ACROSS DITCH (UP AND DOWN HILL) SAFELY.

  3. DITCHES SHALL BE MAINTAINED AT ALL TIMES TO RETAIN DESIGN FLOW CAPACITY,

  4. INSTALL DROP INLET AT LOW POINT ALONG FLOWLING OF DIVERSION DITCH.

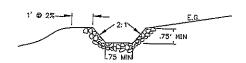
  5. DROP INLET SHALL BE ALIGNED WITH A WINEROW OR OTHERWISE PROTECTED FROM VINEYARD TRAFFIC.

- HORFIL.

  6. DIMENSIONS SHOWN FOR VINEYARD AVENUE, SEE V-DITCH DETAIL FOR V-DITCH DIMENSIONS.

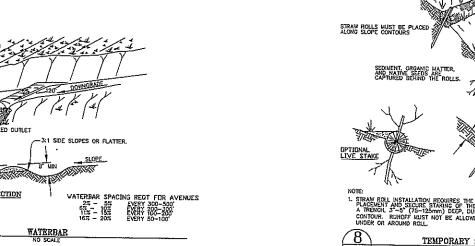
  7. SUBDRAIN INVERT SHALL BE ABOVE QUILET TOP OF PIPE ELEVATION.

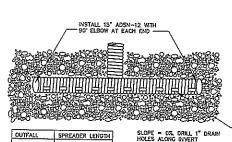




ROCK LINE OR HEAVYWEIGHT COIR FABRIC PER DETAIL THIS SHEET MIN SLOPE 1%, MAX SLOPE 5%

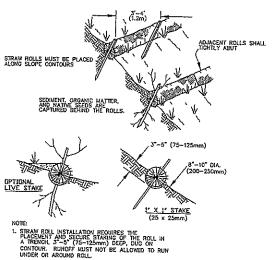




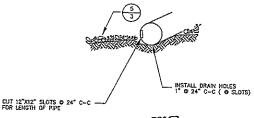


OUTFALL SPREADER LENGTH

OUTFALL D-G & G-H



TEMPORARY STRAW WATTLE



EUP # 02263

ONSERVATION, DEVELOPMENT, AND PLANDING

D/T Sept. 22, 2006 BY B. Bordona for H. Gitchman PAGE \_\_\_\_\_3 \_\_\_0P\_\_3.



SIGNATURES DATE AC CADD CHECKED



CHAUDHARY
& ASSOCIATES, INC.
ENGINEERS SURVEYORS INSPECTORS

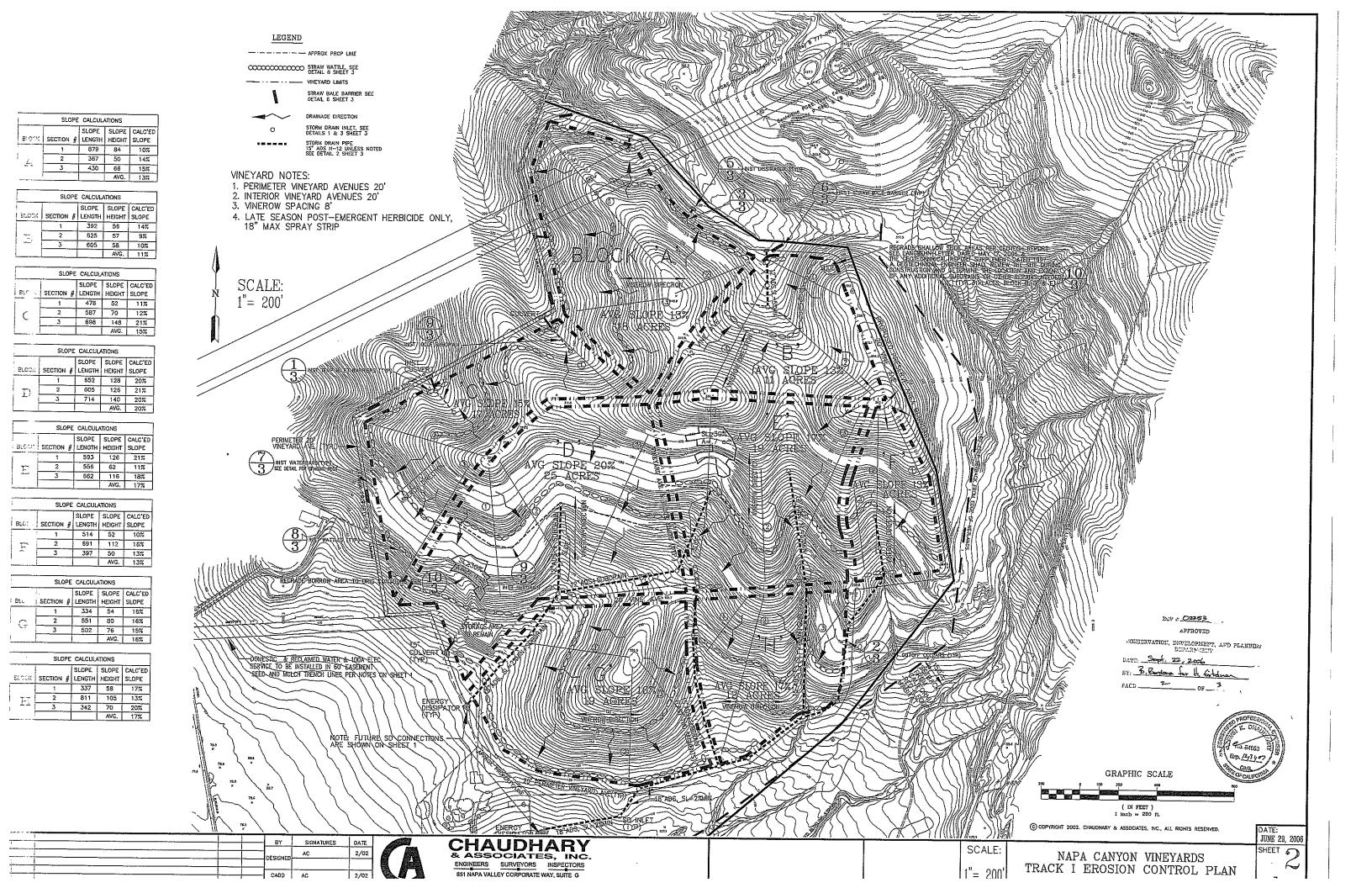
851 NAPA VALLEY CORPORATE WAY, SUITE G NAPA, CALIFORNIA 94558
Tel: (707) 255-2729 FAX. (707) 255-5021 WWW.CHAUDHARY.COM

SCALE: NONE

NAPA CANYON VINEYARD TRACK I EROSION CONTROL PLAN

SHEET Q OF 3 SHEETS

JUNE 29, 2006



## ENERAL NOTES

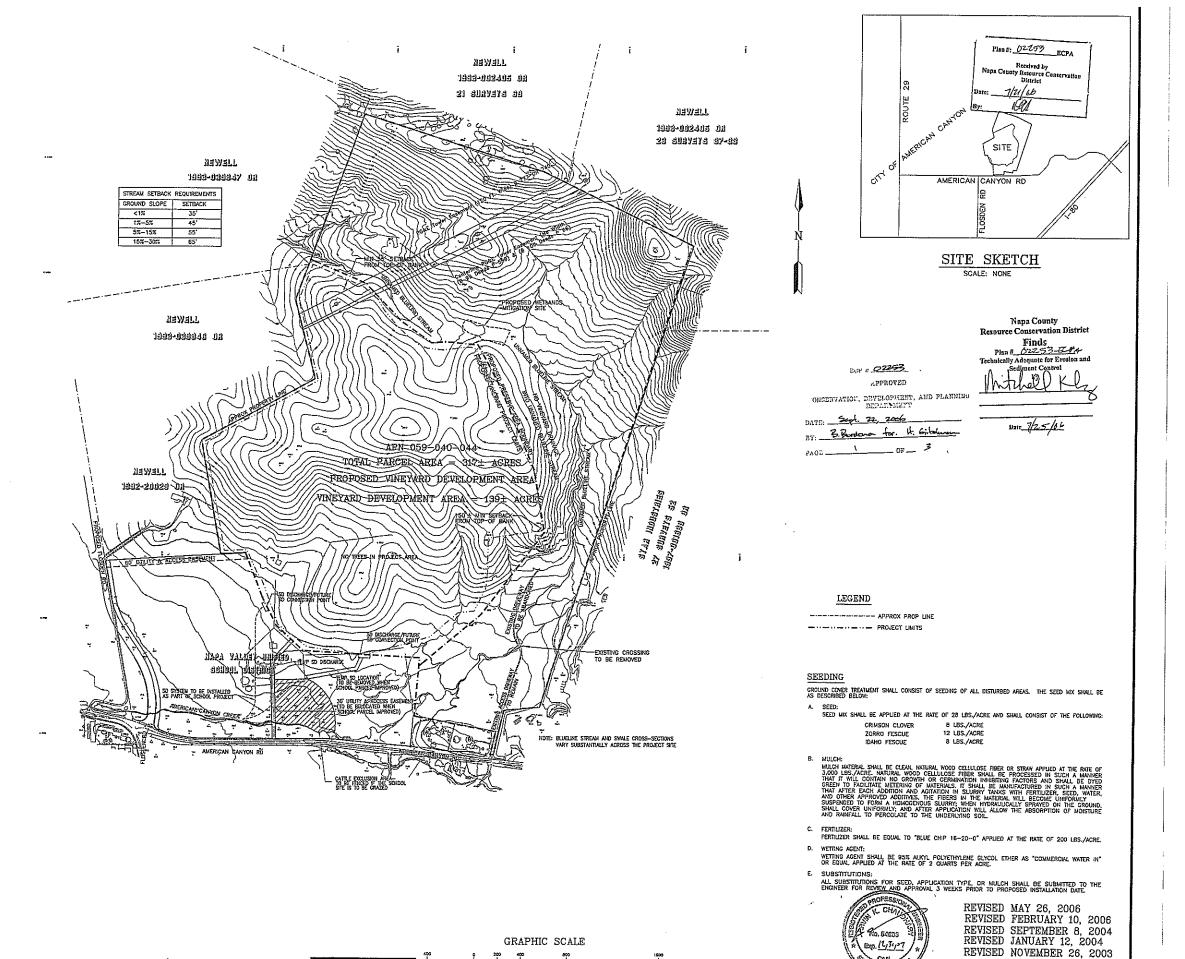
- NITRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH THE PROMISIONS AND REQUIREMENTS CONTAINED IN THE ROJECT NARRATIVE & PLANS. CONTRACTOR SHALL HAVE A COPY AVAILABLE AT THE JOB SITE AT ALL TIMES.
- ONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK. STRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 227-2600.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD. LOCATIONS (7 UTILITIES AND UNDERGROUND FACILITIES SHOWN ARE NOT SHOWN.
- 5 CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR SAFETY.
- 6. .. MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 7. C'ATIRACTOR SHALL CONFORM TO EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH THANSITION IN PAWING, CURBS, CUTTERS, SDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES 1. GRADE OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- E. CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED, WITH THE APPROPRIATE UTILITY COMPANIES.
- 2 CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN SUCH A MANNER AS TO PRECLUDE WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES. CONTRACTOR SHALL ASSUME LIABILITY FOR CLAMS RELATED TO WIND BLOWN MATERIAL. IF THE PUST CONTROL IS INADEQUATE AS DETERMINED BY THE PLANNING DIRECTOR OR HIS DESIGNATED REPRESENTATIVE, THE CONSTRUCTION WORK SHALL BE TERMINATED UNTIL CORRECTIVE MEASURES ARE TAKEN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER EROSING COVINGL.
- TO THE PRIOR TO INSTALLATION OF STORM DRAIN LINES, THE CONTRACTOR SHALL EXPOSE EXISTING UNDERGROUND UTILITY
  THE AT POINTS WHERE CROSSINGS OF THE ENGINEER TO REVIEW AND NEW UTILITY LINES OCCUR, FOR THE ENGINEER TO REVIEW AND
  TSCLVE ANY GRADE CONFLICTS.
- : © CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF REPAIRING ANY INJURIES OR DAMAGE TO EXISTING UTILITIES CAUSED BY HIM.
- 12. FRICK TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SECURE CONSTRUCTION PERMITS AS NECESSARY AND PAY FEES INCLUDING INSPECTION FEES THEREFOR.
- L STRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CHARSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL DETAILS AND THAT THE THIS PRODUCT OF THE PROPERTY AND HOLD THE OWNER AND THE EMISSION OND NORMAL WORKING HOURS. AND THAT THE ADDITION SHALL DETAILS IN CENNICTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY, REAL OR ALLEGED, IN NECLIGENCE OF THE OWNER OR THE ENGINEER.
- M. DUE TO THE HEAVY BRUSH COVER ON THE SUBJECT PROPERTY, VERIFICATION OF EVERY TOPOGRAPHIC FEATURE PRIOR TO LEARING IS NOT POSSIBLE. THEREFORE, CERTAIN MODIFICATIONS TO THIS PLAN MAY BE REQUIRED DURING CONSTRUCTION TO ACCOMPONATE CONDITIONS EXECUTATEED DURING CLEARING OPERATIONS, ALL MODIFICATIONS TO THIS PLAN SHALL BE REMEMBED BY THE ENGINEER, AND IF REQUIRED, THE COUNTY OF NAPA.
- 15. AERIAL MAPPING PREPARED IN 1985 BY CARTWRIGHT AERIAL SURVEYS. CARNEROS QUAD MAP. RANCHO HUICHICA
- THE ELEVATION DATUM IS ASSUMED UNLESS OTHERWISE NOTED.
- 17. CONTRACTOR SHALL SET OFFSET STAKES TO EXISTING VINEYARD CORNERS PRIOR TO ANY WORK
- PROPOSED FIELD MODIFICATIONS TO THIS PLAN SHALL REQUIRE PRIOR REMEN & WRITTEN APPROVAL OF THE ENGINEER.

## I COSION CONTROL MEASURES

- T. FINAL PASS WITH TILLAGE EQUIPMENT SHALL BE PERFORMED ACROSS SLOPES TO PREVENT CHANNELING WATER DOWNHILL TO FIRST WINTER AFTER DEVELOPMENT.
- 2. / TEMPORARY COVER CROP SHALL BE ESTABLISHED UPON COMPLETION OF ANY GROUND CLEARING ACTIVITIES UNTIL THE ERMANENT COVER CROP DESCRIBED BELOW CAN BE ESTABLISHED. THE TEMPORARY COVER CROP SHALL CONSIST OF BARLEY SECUED AT A RATE OF 100 POUNDS PER ACRE. THIS TEMPORARY COVER CROP SHALL BE SEEDED PRIOR TO SEPTEMBER 15 OF THE YEAR IN WHICH VEGETATION WAS REMOVED.
- 3. FERMANENT NO-TILL COVER CROP STRATEGY SHALL BE UTILIZED WITHIN THE VINEYARD. THE COVER CROP WILL BE C.JERGTED BY SEEDING WITH ZORRO FESCUE AT 12 POUNDS PER ACRE, IDAHO FESCUE AT 8 POUNDS PER ACRE, AND CRIMSON C.JOVER OR HYMEN ROSE CLOVER AT 8 POUNDS PER ACRE.
- 4. THE COVER CROP WILL BE MANAGED EACH YEAR SUCH THAT ANY AREAS WHICH HAVE LESS THAN 80% VEGATATIVE COVER WILL E. RESEDED AND MULCHED WITH ADEQUATE COVERAGE IS ACHIEVED. PERCENT VEGETATIVE AREA IS EXCLUSIVE OF GROUND PHEA COVERED BY ROOK.
- COVER CROP SHALL BE MOWED ONLY AND SHALL NOT BE DISCED THOUGH THE PERMANENT COVER CROP MAY BE STRIP AYED EACH YEAR ALONG THE VINEROWS. STRIP SPRAY WIDTH SHALL BE LIMITED TO APPROXIMATELY 18" WIDE.
- 6. ALL AREAS WITHIN THE VINEYARD AND ANY OTHER DISTURBED AREAS OUTSIDE THE VINEYARD AREAS SHALL BE STRAW MULCHED AT A RATE OF 300D LBS/ACRE.
- 7.  $\mathcal{D}^{*}$  additional disturbed areas will be seeded and mulched as described above.
- SITE SHALL HAVE SILT FENCES, STRAW BALE SEDIMENT RETENTION STRUCTURES, AND OTHER EROSION CONTROL INSTALLED TO THE DATE NOTED IN THE PERMIT APPROVAL LETTER FROM THE COUNTY OF NAPA.

## EYDROLOGY AND WATER QUALITY

- BUTECT ALL STRAW WATTLE LINES REGULARLY AND IMMEDIATELY FOLLOWING RAINFALL EVENTS. STRAW WATTLES THAT SHOW SHOULD OF EXCESSIVE SLT ACCUMULATION AND OVERFLOW, DISINTEGRATION, FAILURE TO PERFORM, OR HAVE BEEN OTHERWISE DAMAGED SHALL BE IMMEDIATELY REPLACED.
- E CECT ALL FLOW DISSIPATION STRUCTURES ON A REGULAR BASIS AND IMMEDIATELY FOLLOWING RAINFALL EVENTS. FLOW IN CAMING STRUCTURES THAT HAVE UNDERSONE STRUCTURAL CHANGES DUE TO EXCESSIVE RUNOFF AND SEDIMENT DEPOSITION AS ACCUMULATED SEDIMENT, DISPLACED ROOK, EMPOSED PHER FABRIC, DOWNSTREAM CULTING, PIPME (REFERENTIAL FLOW PATHWAYS), OVERTOPPING, CLOGGED CULVERT ENDS, OR OTHER INDICATIONS OF IMPROPER FOR CHANGE AND ASSESSED OF THE PROPER FOR CHANGE AND ASSESSED OF THE PROPERTY OF
- CT ALL BROP INLET STRUCTURES ON A REGULAR BASIS AND IMMEDIATELY FOLLOWING RAINFALL EVENTS, DROP INLET STRUCTURES
  TY: ARE RESTRICTED DUE TO MILLAGE OR ORGANIC MATTER OR SHOW OTHER INDICATIONS OF IMPROPER FUNCTION, SHALL BE
  FOLIATELY CLEMED—OUT AND REPAIRED.
- 4. THE OWNER SHALL RETAIN A CALIFORNIA REGISTERED GEDTECHNICAL TO REVIEW FINAL GRADING OF LANDSLIDE REPAIRS AND THESE ATTAS SHALL BE INSPECTED BY A CALIFORNIA-CERTIFIED ENGINEERING GEOLOGIST AND THE GEOTECHNICAL ENGINEER SHALL SE WIT A FINAL REPORT TO THE DETAILING THE SLOPE REPAIR TECHNIQUES.
- 5. LICECT AND REPAIR PERMANENT WATERBARS ANNUALLY PRIOR TO THE WINTER SEASON AND ALL AVENUES OVER 10% SLOPE SOLD BE WATERBARED AS AN ANNUAL MAINTENANCE/WINTERIZATION PRACTICE. ALL AVENUES THAT EXPERIENCE SURFACE DAMAGE FROM TURNAROUND TRAFFIC SHALL BE IMMEDIATELY RESERVED AND MULCHED.



BY SIGNATURES DATE

DESIGNED AC



CHAUDHARY
& ASSOCIATES, INC.
ENGINEERS SURVEYORS INSPECTORS
BRY NAPA VALLEY CORPORATE WAY, SHITE G

( IN FEET )
1 Inch = 400 ft.

SITE DATA:

APN 059-040-044
FLOSDEN RD AT AMERICAN CANYON RD
317 ACRE PARCEL
CONTOLIS INITEDVAL = 10' (2' op Shi 2')
(707) 253-1339

SCALE: 1"= 400'

NAPA CANYON VINEYARD
TRACK I EROSION CONTROL PLAN

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JUNE 29, 2006 SHEET

FIRST SUBMITTAL APRIL 22, 2002