KENZO ESTATE

PHASE 9 VINEYARD DEVELOPMENT EROSION CONTROL PLAN

APN 033-130-047

(KENZO ESTATE INC)

APN 033-190-018 (GOODWIN FRANCES J TRUST)

APN 033-130-039 (KENZO ESTATE INC)

APN 033-130-041

APN 033-130-045 (KENZO ESTATE INC)

APN 033-190-014

460' ± STREAM TO

PROJECT AREA

GREEN VALLEY

CREEK WATERSHED

(LAKE MADIGAN) -

WOODEN

VALLEY CREEK

WATERSHED

APN 033-190-015

APN 033-190-016 (KENZO ESTATE INC) APN 033-130-046

(E) PAVED ROAD

PROVIDES ACCESS FROM

PROPOSED

VINEYARD BLOCK I

ACCESS ROAD

VALLEY CREEK

-PROPOSED

APN 033-190-013-

(KENZO ESTATE INC)

(E) PAVED ROAD

PROVIDES ACCESS

FROM WILD HORSE

VALLEY ROAD

VINEYARD BLOCK 2

PILE AREA

- INSTALL 150' x 7' WIDE x 2.5' DEEP ROCK

FILLED BENCH RETENTION STRUCTURE.

LOCATION TO BE FIELD VERIFIED WITH ENGINEER DURING CONSTRUCTION.
DIMENSIONS TO BE ADJUSTED TO FIT

ACTUAL GROUND CONTOURS WHILE PROVIDING EQUAL STORAGE VOLUME

SEE DETAIL, SHEET C4. EXACT

- INSTALL STRAW WATTLE BELOW

VALLEY CREEK WATERSHED

> APN 033-190-017 (SANDRA PARROITT)

RETENTION STRUCTURE CONSTRUCTION AREA

MONTICELLO ROAD

KENZO ESTATE

APN 033-110-061 (KENZO ESTATE INC)

(KENZO ESTATE INC)

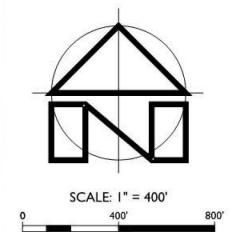
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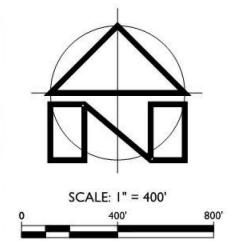
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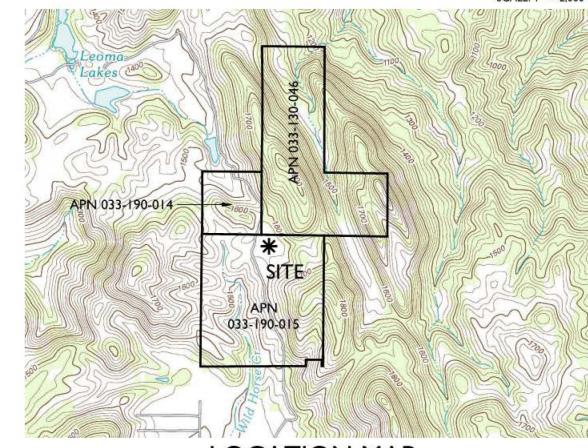
APN 033-110-034

(MAESTA I LLC)

(NANCY GRESSINGER)







LOCATION MAP

PROJECT INFORMATION:

PROPERTY OWNER & APPLICANT:

KENZO ESTATE INC 3200 MONTICELLO ROAD NAPA, CA 94558

SITE ADDRESS:

8999 WILD HORSE VALLEY ROAD NAPA, CA 94558

ASSESSOR'S PARCEL NUMBERS:

033-190-014, -015 & 033-130-046

PARCEL SIZES:

40± ACRES, 159± ACRES & 160± ACRES PROJECT SIZE:

13.5 ± ACRES TOTAL (11 ± ACRES PLANTED) **ZONING:**

AGRICULTURAL WATERSHED (AW)

SHEET INDEX:

COVER SHEET & OVERALL SITE PLAN

NOTES & ABBREVIATIONS

FLOOD HAZARD NOTE:

EROSION CONTROL PLAN

DETAIL SHEET

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 06055C0550E, EFFECTIVE SEPTEMBER 26, 2008, THE PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA.

LEGEND:

APPROXIMATE PROPERTY LINE **BLUE LINE STREAM** LIMIT OF CLEARING / VINEYARD AVENUE

LIMIT OF VINEYARD BLOCK

SITE PHOTOGRAPH NOTES:

REPRESENTS APPROXIMATE LOCATION AND DIRECTION OF PHOTOGRAPH TAKEN BY APPLIED CIVIL ENGINEERING INCORPORATED ON APRIL 26, 2019. REFER TO THE PHOTOGRAPHIC DOCUMENTATION OF EXISTING SITE CONDITIONS FOR THE KENZO ESTATE PHASE 9 VINEYARD EROSION CONTROL PLAN FOR PHOTOGRAPHS AND DESCRIPTIONS.

PHOTO LOCATION AND DIRECTION

PREPARED UNDER THE



DRAWN BY: BT DRAFTING

CHECKED BY:

JANUARY 15, 2021 **REVISIONS:** 10/4/2021 PLAN CHECK COMMENTS

JOB NUMBER: 17-147

17-147ECP_OSP.DWG ORIGINAL SIZE: 24" X 36"

SHEET NUMBER:

OF

OVERALL SITE PLAN

- THESE DRAWINGS WERE DEVELOPED EXCLUSIVELY FOR THIS PROJECT AND ARE NOT TO BE REPRODUCED OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF APPLIED CIVIL ENGINEERING INCORPORATED
- ALL MATERIALS AND WORKMANSHIP FOR THE WORK DESCRIBED ON THESE PLANS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AS ADOPTED AND AMENDED BY NAPA COUNTY:
 - A. CALIFORNIA BUILDING CODE (2019)
 - B. CALIFORNIA ELECTRIC CODE (2019)
 - C. CALIFORNIA PLUMBING CODE (2019)
 - D. CALIFORNIA MECHANICAL CODE (2019)
 - E. CALIFORNIA FIRE CODE (2019)
 - F. CALIFORNIA DEPARTMENT OF TRANSPORTATION (2018)
 - G. NAPA COUNTY CODE (CURRENT)

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR BEING FAMILIAR WITH ALL STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT.

- CONTRACTOR SHALL BE APPROPRIATELY LICENSED WITH THE STATE OF CALIFORNIA TO PERFORM THE WORK SHOWN ON THESE PLANS.
- CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO CONSTRUCT THE IMPROVEMENTS ILLUSTRATED ON THESE PLANS.
- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MATERIALS AND PRODUCTS TO BE USED FOR THE SITE IMPROVEMENTS TO APPLIED CIVIL ENGINEERING INCORPORATED FOR REVIEW AND APPROVAL.
- 6. THE IMPROVEMENTS SHOWN ON THESE PLANS REQUIRE INSPECTION BY THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS.
- CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH APPLIED CIVIL ENGINEERING INCORPORATED AND NAPA COUNTY AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO REVIEW THE PROJECT PLANS AND SPECIFICATIONS AND NAPA COUNTY REQUIREMENTS
- CONTRACTOR IS RESPONSIBLE FOR SECURING ALL CONSTRUCTION RELATED PERMITS FROM THE GOVERNING AGENCIES AND MAINTAINING A COPY OF THE PERMITS AND THE APPROVED PLANS ON THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL CONTACT THE NAPA COUNTY PUBLIC WORKS, FIRE AND SHERIFF DEPARTMENTS TO PROVIDE EMERGENCY TELEPHONE NUMBERS AND KEEP THE DEPARTMENTS INFORMED DAILY OF ANY STREETS THAT ARE UNDER CONSTRUCTION AND DETOURS. DETOURS ARE NOT PERMITTED UNLESS APPROVED IN ADVANCE IN WRITING BY THE NAPA COUNTY PUBLIC WORKS DEPARTMENT.
- 10. THE PROPERTY OWNER AND CONTRACTOR ARE RESPONSIBLE FOR OBTAINING ALL APPROPRIATE PERMITS FOR WORK WITHIN ANY RIPARIAN AREA PRIOR TO COMMENCING WORK IN THAT AREA.
- II. CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS AND THE SAFETY OF PROPERTY AND PEOPLE ON THE JOB SITE AT ALL TIMES. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE CONDITION, IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS, AT ALL TIMES, INCLUDING OUTSIDE OF NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 12. CONTRACTOR SHALL PROVIDE AND MAINTAIN BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF NAPA COUNTY AND THE OWNER.
- THESE PLANS ARE INTENDED TO PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR THE PROPOSED SITE IMPROVEMENTS SHOWN HEREON.
- 14. ALL DIMENSIONS SHOWN ON THESE PLANS SHOW MEASUREMENTS IN A HORIZONTAL PLANE UNLESS OTHERWISE SPECIFIED.
- 15. ALL WRITTEN DIMENSIONS SUPERCEDE ANY SCALED DIMENSIONS. IF AN APPARENT DISCREPANCY IS IDENTIFIED CONTACT APPLIED CIVIL ENGINEERING INCORPORATED IMMEDIATELY FOR A WRITTEN CLARIFICATION.
- 16. IF ANY CONTRACTOR, SUBCONTRACTOR, OR SURVEYOR IDENTIFIES ANY OMISSIONS, DEFICIENCIES, CONFLICTS OR ERRORS IN THESE PLANS AND SPECIFICATIONS OR IF THERE IS ANY DOUBT AS TO THEIR MEANING OR INTENT, THEY SHALL CONTACT APPLIED CIVIL ENGINEERING INCORPORATED FOR A WRITTEN ADDENDUM OR CLARIFICATION. CONTRACTOR IS NOT ELIGIBLE FOR ADDITIONAL COMPENSATION IF THEY FAIL TO DO SO BEFORE PROVIDING A PROPOSAL.
- 17. CONTRACTOR IS TO PROTECT ALL EXISTING SITE IMPROVEMENTS, UTILITIES, BUILDINGS AND NATURAL FEATURES FROM DAMAGE THROUGHOUT THE DURATION OF CONSTRUCTION. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- 18. ALL WORK IS TO CEASE IF ARCHEOLOGICAL, CULTURAL, OR HISTORICAL RESOURCES ARE DISCOVERED DURING CONSTRUCTION. IF SUCH RESOURCES ARE DISCOVERED, THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT SHALL BE CONTACTED AT (707) 253-4417 AND AN APPROPRIATE COURSE OF ACTION WILL BE DEVELOPED.

SURVEY NOTES:

- I. FADED BACKGROUND REPRESENTS EXISTING TOPOGRAPHIC FEATURES. TOPOGRAPHIC INFORMATION WAS TAKEN FROM THE NAPA COUNTY GEOGRAPHIC INFORMATION SYSTEM DATABASE. APPLIED CIVIL ENGINEERING INCORPORATED ASSUMES NO LIABILITY REGARDING THE ACCURACY OR COMPLETENESS OF THE TOPOGRAPHIC INFORMATION.
- AERIAL PHOTOGRAPHS WERE OBTAINED FROM THE SAN FRANCISCO ESTUARY INSTITUTE (SFEI) SAN FRANCISCO BAY AREA ORTHOPHOTOS DATABASE, DATED JUNE 2018 AND MAY NOT REPRESENT CURRENT CONDITIONS.
- 3. CONTOUR INTERVAL: FIVE (5) FEET, HIGHLIGHTED EVERY TWENTY FIVE (25) FEET.
- BENCHMARK: NAVD 88
- 5. THE PROPERTY LINES SHOWN ON THESE PLANS DO NOT REPRESENT A BOUNDARY SURVEY. THEY ARE APPROXIMATE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
- 6. CONTRACTOR SHALL PRESERVE ALL EXISTING MONUMENTS THROUGHOUT THE DURATION OF CONSTRUCTION OR HAVE THEM REPLACED AT THEIR OWN EXPENSE.
- ALL CONSTRUCTION STAKING SHALL BE PERFORMED BY A LICENSED LAND

GRADING NOTES:

- ALL EARTHWORK IS TO CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, NAPA COUNTY CONSERVATION REGULATIONS AND THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT ENGINEERING DIVISION STANDARDS.
- 2. ALL CUT AND FILL SLOPES SHALL BE NO STEEPER THAN 2:1 UNLESS OTHERWISE APPROVED BY A GEOTECHNICAL ENGINEER.
- 3. ALL DEBRIS GENERATED DURING DEMOLITION, SITE STRIPPING AND GRADING ACTIVITIES IS TO BE DISPOSED OF PROPERLY OFFSITE BY THE CONTRACTOR.
- 4. CONTRACTOR IS RESPONSIBLE FOR IMPORTING AND / OR EXPORTING MATERIALS AS NECESSARY TO ACHIEVE THE FINISH GRADES ILLUSTRATED ON THESE PLANS.
- CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN A MANNER THAT PREVENTS WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO 6. CONTRACTOR SHALL CONFORM TO EXISTING IMPROVEMENTS WITH A SMOOTH
- TRANSITION TO AVOID ABRUPT CHANGES IN GRADE, LOW SPOTS OR OTHER HAZARDOUS CONDITIONS. PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL FINISH GRADED

SLOPES AFTER THE COMPLETION OF CONSTRUCTION AND REPAIRING ANY EROSION

EXISTING UTILITY NOTES:

- THE EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY. THEY ARE BASED ON INFORMATION PROVIDED BY THE PROPERTY OWNER, THE SURVEYOR AND THE RESPECTIVE UTILITY COMPANIES. APPLIED CIVIL ENGINEERING INCORPORATED ASSUMES NO LIABILITY REGARDING THE ACCURACY OR THE COMPLETENESS OF THEIR LOCATIONS.
- 2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. IF A DISCREPANCY BETWEEN THE PLANNED AND ACTUAL HORIZONTAL OR VERTICAL LOCATION OF AN EXISTING UTILITY EXISTS, CONTACT APPLIED CIVIL ENGINEERING INCORPORATED FOR AN ALTERNATE DESIGN.
- CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO MARK THE LOCATION OF EXISTING UTILITY LINES. CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600.
- EXISTING UTILITIES ARE TO REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES PER THE REQUIREMENTS OF THE UTILITY OWNER.
- 5. CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY RELOCATIONS WITH THE UTILITY OWNER.

EROSION CONTROL NOTES:

- ALL EROSION CONTROL WORK WILL BE PERFORMED BY THE VINEYARD MANAGER IN ACCORDANCE WITH THIS APPROVED VINEYARD EROSION CONTROL PLAN.
- ALL DISTURBED AREAS MUST BE WINTERIZED BY SEPTEMBER 15TH OF EACH YEAR THAT THE PROJECT IS UNDER CONSTRUCTION.
- 3. A REQUEST TO ALLOW GRADING TO EXTEND BEYOND SEPTEMBER IST MAY BE GRANTED BY THE NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT - CONSERVATION DIVISION IF A MAIORITY OF THE GRADING HAS BEEN COMPLETED AND THERE COULD BE A DETRIMENTAL EFFECT ON THE ENVIRONMENT IF THE REMAINING GRADING REMAINS INCOMPLETE. A REQUEST TO ALLOW GRADING TO EXTEND BEYOND SEPTEMBER IST MUST BE SUBMITTED IN WRITING TO NAPA COUNTY NO LATER THAN AUGUST 15TH. GRADING BEYOND THE WINTERIZATION DEADLINE WILL NOT BE ALLOWED PRIOR TO APPROVAL BY
- ALL PERMANENT DRAINAGE FACILITIES AND SEDIMENT RETENTION STRUCTURES MUST BE INSTALLED BY SEPTEMBER 1ST.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (WATER BARS, SILT FENCE & STRAW WATTLES) MUST BE INSTALLED BY SEPTEMBER 15TH.
- 6. ALL EROSION CONTROL MEASURES MUST BE INSPECTED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE RAINY SEASON (SEPTEMBER 15TH THROUGH APRIL IST). INSPECTIONS MUST BE PERFORMED AT LEAST ONCE PER WEEK DURING EXTENDED DRY PERIODS, IMMEDIATELY BEFORE ANTICIPATED RAIN EVENTS, ONCE EVERY 24 HOURS DURING EXTENDED RAIN EVENTS AND IMMEDIATELY FOLLOWING EACH RAIN EVENT.
- 7. ALL DISTURBED AREAS ARE TO BE STABILIZED BY PLANTING OF AN EROSION CONTROL COVER CROP. PRIOR TO APPLYING THE EROSION CONTROL SEED BLEND. THE SEED BED SHOULD BE PREPARED BY UNIFORMLY SCARIFYING THE GROUND SURFACE TO A DEPTH OF TWO TO FOUR INCHES AND CONDITIONING TO BREAK
- 8. THE COVER CROP SEED BLEND SHOULD BE BROADCAST OR DRILLED AFTER THE SEED BED HAS BEEN PREPARED.
- 9. A TEMPORARY TILLED COVER CROP WILL BE ESTABLISHED IN THE VINEYARD BLOCK AREAS FOR THE FIRST THREE YEARS AFTER PLANTING WHILE THE VINEYARD IS GETTING ESTABLISHED. THE TEMPORARY COVER CROP SEED MIX FOR THE VINEYARD ESTABLISHMENT SHOULD BE THE "SOIL BUILDER" AVAILABLE FROM NAPA VALLEY AG SUPPLY APPLIED AT A MINIMUM RATE OF 75 POUNDS PER ACRE:

COMMON VETCH	10
CALIFORNIA RED OATS	20
FIELD PEAS	30
BELL BEANS	40

10. THE PERMANENT COVER CROP SEED MIX FOR ALL NO-TILL VINEYARD ROWS AND VINEYARD AVENUES SHOULD BE THE "VINTNER'S BLEND" AVAILABLE FROM NAPA VALLEY AG SUPPLY APPLIED AT A MINIMUM RATE OF 75 POUNDS PER ACRE:

CREEPING RED FESCUE	40%
CHEWING FESCUE	25%
DWARF PERENNIAL RYE	25%
ROSE CLOVER	8%
NEW ZEALAND WHITE CLOVER	2%

- II. ALTERNATE SEED MIX MAY BE USED BY THE VINEYARD MANAGER PROVIDED THAT ATTENTION IS GIVEN TO CHOOSING A COVER CROP THAT IS SUITABLE FOR THE SITE SOIL AND TOPOGRAPHIC CONDITIONS. ANY ALTERNATE SEED MIX MUST BE APPROVED BY THE ENGINEER AND THE NAPA COUNTY RESOURCE CONSERVATION DISTRICT PRIOR TO USE.
- 12. ALL SEEDED AREAS ARE TO BE FERTILIZED TO PROMOTE SUCCESSFUL ESTABLISHMENT OF THE COVER CROP. THE RECOMMENDED FERTILIZER IS AMMONIUM PHOSPHATE (16-20-0) APPLIED AT A RATE OF 250 POUNDS PER ACRE.

EROSION CONTROL NOTES (CONTINUED)

- 13. ADDITIONAL SOIL AMENDMENTS WILL BE ADDED BASED ON FUTURE SOILS TESTING REPORTS BY OTHERS. TYPICAL AMENDMENTS INCLUDE: COMPOSTED ORGANIC MATTER, LIME AND / OR GYPSUM. THE AMENDMENTS SHOULD BE INCORPORATED DURING THE LAND PREPARATION PROCESS TO INCREASE SOIL NUTRIENT CONTENT AND AVAILABILITY, AND TO IMPROVE SOIL STRUCTURE AND WATER HOLDING
- 14. AFTER THE SEED AND FERTILIZER HAVE BEEN PLACED THE SEEDED AREA SHOULD BE RAKED. DRAGGED OR HARROWED TO ENSURE THAT SEEDS ARE PROPERLY BEDDED.
- 15. ALL DISTURBED AREAS ARE TO BE MULCHED WITH STRAW AT A RATE OF 3.000 POUNDS PER ACRE TO PROTECT THE BARE SOILS WHILE THE COVER CROP IS GETTING ESTABLISHED.
- 16. STRAW SHOULD BE SPREAD BY HAND IN A MANNER THAT PROMOTES FORMATION OF AN INTERWOVEN MATRIX. CRIMPING STRAW INTO THE SOIL IS HIGHLY RECOMMENDED ON ESPECIALLY WINDY SITES AND IS MANDATORY ON SITES WHERE STRAW IS MECHANICALLY CHOPPED AND BLOWN INTO PLACE.
- ALL SOIL CUT AND FILL SLOPES THAT ARE STEEPER THAN 4:1 (HORIZONTAL TO VERTICAL) MUST BE COVERED WITH NORTH AMERICAN GREEN C125BN EROSION CONTROL BLANKET AFTER THE EROSION CONTROL SEED AND FERTILIZER HAVE
- 18. CONTRACTOR MUST MAINTAIN AN ADEQUATE SUPPLY OF EROSION CONTROL MATERIALS ONSITE TO FACILITATE MAINTENANCE AND REPAIR THROUGHOUT THE RAINY SEASON. TYPICAL MATERIALS THAT SHOULD BE KEPT ONSITE INCLUDE SILT FENCE AND STRAW WATTLE SEDIMENT BARRIERS, GRAVEL BAGS, EROSION CONTROL BLANKETS, STRAW AND EROSION CONTROL SEED MIX.

EROSION CONTROL COVER CROP MANAGEMENT NOTES:

- ESTABLISHING AN EFFECTIVE VEGETATIVE COVER CROP WILL BE THE PRIMARY MEANS OF PREVENTING EROSION FROM THE PROPOSED VINEYARD DEVELOPMENT AREA. AFTER THE INITIAL LAND PREPARATION ACTIVITIES ARE COMPLETE A TEMPORARY COVER CROP WILL BE PLANTED AND STRAW MULCH WILL BE APPLIED THROUGHOUT THE CLEARED AREA TO STABILIZE THE PROJECT AREAS THROUGH THE WINTER. A MINIMUM COVERAGE OF 80% IS REQUIRED TO MAINTAIN EROSION RATES AT ACCEPTABLE LEVELS.
- THE TEMPORARY COVER CROP WILL BE TILLED IN THE SPRING DURING THE INITIAL VINEYARD ESTABLISHMENT PERIOD (UP TO THE FIRST THREE YEARS). THE TILLED AREAS AND ANY OTHER DISTURBED AREAS OR AREAS WITH LESS THAN ADEQUATE COVER WILL ALSO BE MULCHED EACH YEAR IN THE FALL TO PROTECT THE BARE SOIL WHILE THE COVER CROP IS GETTING ESTABLISHED.
- AFTER THE VINEYARD ESTABLISHMENT PERIOD ALL VINEYARD BLOCKS WILL BE CONVERTED TO AN ALTERNATE ROW TILLED REGIME. A PERMANENT COVER CROP WILL BE PLANTED IN ALTERNATE ROWS THROUGHOUT THE VINEYARD. THE PERMANENT COVER CROP ROWS WILL BE MOWED EACH SPRING. THE TEMPORARY COVER CROP ROWS WILL BE TILLED EACH SPRING. ALL ROWS WILL BE MULCHED AND SEEDED EACH FALL AS NEEDED TO ACHIEVE THE SPECIFIED COVER PERCENTAGE.
- ALL VINEYARD AVENUES WILL BE PROTECTED WITH A PERMANENT NO-TILL COVER CROP WITH DENSITIES MAINTAINED AT 80% OR MORE THROUGHOUT THE RAINY SEASON. VINEYARD AVENUES SHALL NOT BE TILLED.
- THE COVER CROP SHOULD BE IRRIGATED PRIOR TO THE RAINY SEASON TO ESTABLISH A DENSE COVER PRIOR TO THE ONSET OF HEAVY RAINS. THIS IS ESPECIALLY IMPORTANT IN EROSION PRONE AREAS SUCH AS VINEYARD AVENUES AND MORE STEEPLY SLOPING AREAS. IN ORDER TO EFFECTIVELY ESTABLISH COVER AT LEAST TWO INCHES OF WATER SHOULD BE APPLIED TO GERMINATE THE SEEDS. WATER SHOULD BE APPLIED BY SPRINKLER OR MICROSPRAYERS AT A RATE THAT DOES NOT CAUSE RUNOFF OR EROSION. ADDITIONAL WATER SHOULD BE APPLIED AS NECESSARY, TO ACHIEVE THE DESIGN COVER PERCENTAGE AND TO MAINTAIN THE COVER CROP UNTIL SUFFICIENT RAINFALL OCCURS. IF ADEOUATE WATER IS NOT AVAILABLE TO IRRIGATE THE ENTIRE PROIECT AREA THEN 20 FOOT WIDE STRIPS, ORIENTATED ALONG THE CONTOUR, SHOULD BE IRRIGATED. LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

ENVIRONMENTAL COMMITMENTS:

IN ORDER TO MINIMIZE THE IMPACTS TO THE IMMEDIATE AND SURROUNDING ENVIRONMENT, THE PROJECT PROPOSES THE FOLLOWING MEASURES:

ARCHEOLOGY:

ALL WORK IS TO CEASE IF ARCHEOLOGICAL, CULTURAL, OR HISTORICAL RESOURCES ARE DISCOVERED DURING CONSTRUCTION. IF SUCH RESOURCES ARE DISCOVERED, THE NAPA COUNTY CONSERVATION, DEVELOPMENT AND PLANNING DEPARTMENT SHALL BE CONTACTED AT (707) 253-4417 AND AN APPROPRIATE COURSE OF ACTION WILL BE DEVELOPED.

WOODY VEGETATION CLEARED FROM THE DEVELOPMENT AREA WILL BE CHIPPED OR USED OR DISPOSED OF IN ANOTHER APPROVED MANNER TO AVOID BURNING IN

- ALL EXPOSED SOIL STOCKPILES SHALL BE COVERED.
- DISTURBED AREAS WILL BE SEEDED AND MULCHED AS SOON AS POSSIBLE.
- 4. ALL TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIALS SHALL BE COVERED OR ALL TRUCKS SHALL MAINTAIN AT LEAST TWO FEET OF FREEBOARD (I.E., THE MINIMUM REQUIRED SPACE BETWEEN THE TOP OF THE LOAD AND THE TOP OF THE TRAILER) IN ACCORDANCE WITH SECTION 23114 OF THE CALIFORNIA VEHICLE CODE DURING TRANSIT TO AND FROM THE SITE.
- THE DRIVEWAY AND SITE ACCESS SHALL BE SWEPT DAILY (PREFERABLY WITH WATER SWEEPERS), IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE DRIVEWAY AND STREET.
- 6. TRAFFIC ON UNPAVED AREAS AND ROADS SHALL BE LIMITED TO 15 MILES PER HOUR
- 7. GRADING AND EARTHMOVING ACTIVITIES SHALL BE SUSPENDED WHEN WINDS
- AVOIDED TO THE MAXIMUM EXTENT FEASIBLE.

8. EXTENDED PERIODS OF CONSTRUCTION EQUIPMENT ENGINE IDLING WILL BE

9. CONSTRUCTION EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.

ROCK BLASTING, IF REQUIRED WILL BE PERFORMED IN ISOLATED AREAS AND WILL BE SCHEDULED TO OCCUR BETWEEN THE HOURS OF 10:00 A.M. AND 2:00 P.M.

- THE OWNER/APPLICANT SHALL INCLUDE AS PART OF THIS EROSION CONTROL PLAN THE FOLLOWING MEASURES TO MINIMIZE IMPACTS ASSOCIATED WITH THE LOSS AND DISTURBANCE OF PASSERINE BIRD AND RAPTOR SPECIES CONSISTENT WITH AND PURSUANT TO CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE (DFW) CODE SECTIONS 3503 AND 3503.5:
 - A. FOR EARTH-DISTURBING ACTIVITIES OCCURRING BETWEEN FEBRUARY AND AUGUST 31, (WHICH COINCIDES WITH THE GRADING SEASON OF APRIL I THROUGH OCTOBER 15 - NCC SECTION 18.108.070.L, AND BIRD BREEDING AND NESTING SEASONS), A QUALIFIED WILDLIFE BIOLOGIST SHALL CONDUCT PRECONSTRUCTION SURVEYS FOR RAPTOR AND PASSERINE BIRD COURTSHIP ACTIVITIES AND/OR THEIR NESTS WITHIN A 300-FEET RADIUS OF EARTHMOVING ACTIVITIES. THE PRECONSTRUCTION SURVEY SHALL BE CONDUCTED NO MORE THAN 14 DAYS PRIOR TO VEGETATION REMOVAL AND GROUND DISTURBING ACTIVITIES ARE TO COMMENCE (SURVEYS SHOULD BE CONDUCTED A MINIMUM OF 3 SEPARATE DAYS DURING THE 14 DAYS PRIOR TO DISTURBANCE). A COPY OF THE SURVEY WILL BE PROVIDED TO THE COUNTY CONSERVATION DIVISION AND THE DFW PRIOR TO COMMENCEMENT OF WORK.
- B. IN THE EVENT THAT NESTING RAPTORS AND/OR BIRDS ARE FOUND DURING PRECONSTRUCTION SURVEYS, THE PROPERTY OWNER SHALL CONSULT WITH DFW AND OBTAIN APPROVAL FOR SPECIFIC NEST-PROTECTION BUFFERS AS APPROPRIATE BASED ON SPECIES FOUND PRIOR TO COMMENCEMENT OF GROUND-BREAKING ACTIVITIES: GENERALLY A MINIMUM 150-FOOT NO-DISTURBANCE BUFFER WILL BE CREATED AROUND ALL ACTIVE PASSERINE BIRD NESTS AND A MINIMUM 300-FOOT BUFFER SHALL BE CREATED AROUND ALL ACTIVE RAPTOR NESTS DURING THE BREEDING AND NESTING SEASON OR UNTIL IT IS DETERMINED BY A QUALIFIED BIOLOGIST THAT ALL YOUNG HAVE FLEDGED. ALL NEST PROTECTION MEASURES SHALL APPLY TO OFF-SITE ACTIVE NESTS THAT ARE LOCATED WITHIN 300 FEET OF PROJECT ACTIVITIES. THESE BUFFER ZONES MAY BE MODIFIED IN COORDINATION WITH DFW BASED ON EXISTING CONDITIONS AT THE PROJECT SITE. BUFFER ZONES SHALL BE FENCED WITH TEMPORARY CONSTRUCTION FENCING AND REMAIN IN PLACE UNTIL THE END OF THE BREADING SEASON OR UNTIL YOUNG HAVE FLEDGED.
- C. IF A 15 DAY OR GREATER LAPSE OF PROJECT-RELATED WORK OCCURS DURING THE BREEDING SEASON, ANOTHER BIRD AND RAPTOR PRE-CONSTRUCTION SURVEY AND CONSULTATION WITH DFW WILL BE REQUIRED BEFORE PROJECT WORK CAN BE REINITIATED
- 2. THE OWNER/APPLICANT SHALL INCLUDE AS PART OF THIS EROSION CONTROL PLAN THE FOLLOWING MEASURES TO REDUCE IMPACTS TO SPECIAL-STATUS BAT SPECIES:
 - A. A QUALIFIED BIOLOGIST SHALL CONDUCT A HABITAT ASSESSMENT FOR POTENTIAL SUITABLE SPECIAL-STATUS BAT HABITAT/TREES WITHIN 14 DAYS OF PROJECT INITIATION.
 - B. IF THE HABITAT ASSESSMENT REVEALS SUITABLE SPECIAL-STATUS BAT HABITAT AND/OR HABITAT TREES, THE QUALIFIED BIOLOGIST SHALL SUBMIT AN AVOIDANCE PLAN TO THE COUNTY AND CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE (DFW) FOR APPROVAL. THE AVOIDANCE PLAN SHALL IDENTIFY AND EVALUATE THE TYPE OF HABITAT PRESENT AT THE PROJECT SITE AND DETAIL HABITAT AND/OR HABITAT TREE REMOVAL. BAT HABITAT/TREE REMOVAL SHALL OCCUR IN TWO PHASES CONDUCTED OVER TWO DAYS UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST: DAY ONE IN THE AFTERNOON LIMBS AND BRANCHES OF HABITAT TREES WITHOUT CAVITIES, CREVICES AND DEEP BARK FISSURES WOULD BE REMOVED BY CHAINSAW (LIMBS WITH CAVITIES, CREVICES AND DEEP BARK FISSURES WOULD BE AVOIDED); DAY TWO THE ENTIRE TREE CAN BE REMOVED. IN THE EVENT THE BAT AVOIDANCE MEASURES REQUIRED BY DFW RESULT IN A REDUCTION OR MODIFICATION OF VINEYARD BLOCK BOUNDARIES, THE EROSION CONTROL PLAN SHALL BE REVISED BY THE APPLICANT/ENGINEER AND SUBMITTED TO THE COUNTY.

ABBREVIATIONS:

INVERT

IRON PIPE SIZE

IRRIGATION

FDC

AGGREGATE BASE LINEAR FEET LOW POINT ASPHALT CONCRETE AREA DRAIN OC ON CENTER **ANGLE POINT** OD **OUTSIDE DIAMETER** BOTTOM OG ORIGINAL GRADE CONF CONFORM PROPOSED CONTROL POINT POINT OF CURVATURE DCV PORTLAND CEMENT CONCRETE DOUBLE CHECK VALVE DROP INLET PROPERTY LINE DOWN SPOUT POINT OF TANGENCY EXISTING PVC POLYVINYL CHLORIDE **END CURVE** PROCESS WASTE **PWCO** PROCESS WASTE CLEANOUT ELEVATION **EDGE OF PAVEMENT** RSV RECIRCULATING SPLITTER VALVE EOC STORM DRAIN **EDGE OF CONCRETE** SDCO STORM DRAIN CLEANOUT **FUTURE** FIRE DEPARTMENT CONNECTION SDMH STORM DRAIN MANHOLE FINISH FLOOR SQUARE FEET SHLDR SHOULDER FINISH GRADE FIRE HYDRANT SANITARY SEWER SSCO SANITARY SEWER CLEANOUT FLOW LINE SANITARY SEWER MANHOLE FINISH SURFACE SSMH TC FIRE SPRINKLER RISER TOP FACE OF CURB TW GRADE BREAK TOP OF WALL TYP GAS METER TYPICAL WATER METER HIGH POINT WM

WATER VALVE

TRANSFORMER

WV

XFMR

0 0

PREPARED UNDER THE DIRECTION OF: NO. 67435 Exp. 12/31/2022 10/4/2021

DRAWN BY: BT DRAFTING

CHECKED BY:

JANUARY 15, 2021 REVISIONS: BY: 10/4/2021 BT PLAN CHECK COMMENTS

17-147

17-147ECP_OSP.DWG ORIGINAL SIZE: 24" X 36"

SHEET NUMBER:

JOB NUMBER:

OF

