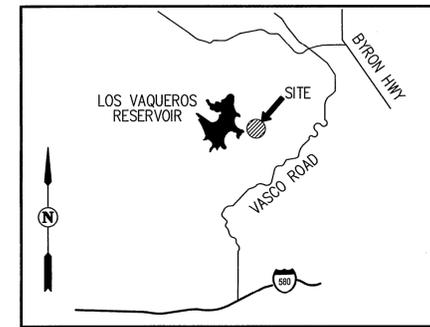


VASCO CAVES WETLAND POND

CONTRA COSTA COUNTY, CALIFORNIA

GRADING PLAN



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

- OWNER: CONTRA COSTA COUNTY
255 GLACIER DRIVE
MARTINEZ, CA 94553
PHONE: (925) 313-2000
- BIOLOGIST: MONK & ASSOCIATES, LLC
1136 SARANAP AVENUE, SUITE Q
WALNUT CREEK, CA 94595
PHONE: (925) 947-4867
- CIVIL ENGINEER: CARLSON, BARBEE & GIBSON, INC.
6111 BOLLINGER CANYON ROAD, SUITE 150
SAN RAMON, CA 94583
PHONE: (925) 866-0322
- BENCHMARK: CONTRA COSTA COUNTY GIS BASEMAPS
- THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND THE ADEQUACY OF HIS DESIGN CONTAINED HEREIN.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY OF JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- EXCAVATION SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL AFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, STRUCTURE AND/OR BORING OR JACKING PIT IS REQUIRED, THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDER.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACE". ANY MANHOLE, CULVERT, DROP INLET OR TRENCH (WHICH COULD CONTAIN AIR), THAT IS NOT READILY VENTILATED, MAY BE CONSIDERED A "CONFINED SPACE".
- THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE AND FIRE DEPARTMENTS.
- THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR ANY PRIVATE PROPERTY ADJACENT TO THE WORK AREA THROUGHOUT THE PERIOD OF CONSTRUCTION.
- THE OWNER'S ENGINEER WILL PROVIDE THE CONSTRUCTION STAKES. THE NUMBER AND LOCATION OF STAKES REQUIRED SHALL BE DETERMINED BEFORE THE CONSTRUCTION BEGINS. ALL STAKING REQUESTS SHOULD BE DIRECTED TO THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ACTUAL NEED. ANY ADDITIONAL STAKING OR RESTAKING WILL ONLY BE DONE AS DIRECTED AND AUTHORIZED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT. ALL CONSTRUCTION STAKING SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
- ALL EXISTING ELEVATIONS SHOWN ARE AS MEASURED IN THE FIELD, UNLESS OTHERWISE NOTED.
- ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT CARLSON, BARBEE & GIBSON, INC. AT (925) 866-0322.
- NO TREES SHALL BE REMOVED UNLESS THERE IS PRIOR APPROVAL FROM THE COMMUNITY DEVELOPMENT DEPARTMENT AND A TREE PERMIT IS OBTAINED FOR ANY TREES REQUIRING A PERMIT. TREES TO BE REMOVED ARE TO BE NOTED ON THE GRADING PLANS.
- GRADING WORK HOURS ARE 7:30 A.M. TO 5:30 P.M., MONDAY THRU FRIDAY. NO GRADING WORK WILL BE PERFORMED ON OBSERVED NATIONAL HOLIDAYS.
- THE CONTRACTOR SHALL NOTIFY THE SOILS ENGINEER AND THE CONTRA COSTA COUNTY GRADING SECTION 48 HOURS PRIOR TO THE START OF WORK. [(A PRE-CONSTRUCTION MEETING IS REQUIRED BY THE GRADING DIVISION) 600 INSPECTION]
- ALL MANUFACTURED SLOPE EDGES SHALL BE ROUNDED TO MEET EXISTING GRADES AND BLEND WITH SURROUNDING TOPOGRAPHY.
- ANY DEVIATION FROM THE APPROVED PLAN REQUIRES APPROVAL OF THE CONTRA COSTA COUNTY SENIOR GRADING INSPECTOR PRIOR TO MAKING ANY CHANGES IN THE FIELD.
- THE CONTRACTOR IS HEREBY ALERTED TO THE FACT THAT ITEMS OF IMPORTANCE MAY BE ENCOUNTERED DURING CONSTRUCTION.

IF BURIED BONES, SOIL DARKER THAN THE SURROUNDING SOIL, FIRE ALTERED ROCK, OR HISTORIC ARTIFACTS ARE ENCOUNTERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE COMMUNITY DEVELOPMENT DEPARTMENT AND RELOCATE WORK TO AN AREA AWAY FROM THE FIND UNTIL OTHERWISE DIRECTED BY THE COUNTY.

IF A HUMAN BURIAL OR DISARTICULATED HUMAN REMAINS ARE ENCOUNTERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE CONTRA COSTA COUNTY CORONER'S OFFICE AND RELOCATE WORK TO AN AREA AWAY FROM THE FIND UNTIL OTHERWISE DIRECTED BY THE COUNTY.
- NOISE GENERATING CONSTRUCTION ACTIVITIES, INCLUDING SUCH THINGS AS POWER GENERATORS, SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 5:30 P.M., MONDAY THROUGH FRIDAY, 9:00 A.M. TO 5:00 P.M. ON SATURDAYS, AND SHALL BE PROHIBITED ON SUNDAYS, STATE AND FEDERAL HOLIDAYS. THE ZONING ADMINISTRATOR MAY MODIFY THE RESTRICTIONS ON ALLOWED WORKING DAYS ON PRIOR WRITTEN APPROVAL.
- CONTRACTORS AND SUBCONTRACTORS TO FIT ALL INTERNAL COMBUSTION ENGINES WITH MUFFLERS WHICH ARE IN GOOD CONDITION AND SHALL LOCATE STATIONARY NOISE-GENERATING EQUIPMENT SUCH AS AIR COMPRESSORS AND CONCRETE PUMPERS AS FAR AWAY FROM EXISTING RESIDENCES AS POSSIBLE.
- CONSTRUCTION VEHICLE SPEEDS SHALL NOT EXCEED 25 MPH ON ANY UNPAVED SURFACE AT THE CONSTRUCTION SITE WITHOUT ADEQUATE DUST CONTROL MEASURES IN PLACE. THE CONTRACTOR SHALL POST THE ROAD SPEED AT ALL ENTRANCES TO THE CONSTRUCTION SITE, PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES.
- THE CONTRACTOR SHALL MAINTAIN AND OPERATE EQUIPMENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- THE CONTRACTOR SHALL IMPLEMENT ENGINE TIMING RETARD (4 DEGREES) FOR DIESEL-POWERED EQUIPMENT AS RECOMMENDED BY THE MANUFACTURER.
- THE CONTRACTOR SHALL INSTALL CATALYTIC CONVERTERS ON GASOLINE-POWERED EQUIPMENT WHERE REQUIRED BY LAW.
- THE CONTRACTOR SHOULD SUBSTITUTE ELECTRIC FOR GASOLINE POWERED EQUIPMENT AND GASOLINE FOR DIESEL POWERED EQUIPMENT WHERE PRACTICAL.
- DURING GRADING OPERATIONS, THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES ON SITE AND ON HAUL ROUTES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AN AIRBORNE DUST NUISANCE FROM THE CONSTRUCTION SITE BY WATERING AND/OR TREATING THE SITE IN SUCH A MANNER TO LIMIT THE EXTENT OF AIRBORNE DUST PARTICLES.
- DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL SPRAY ALL SOIL STOCKPILES DAILY OR AS NEEDED.
- TO FINALIZE THE GRADING PERMIT, THE SOILS ENGINEER WILL PROVIDE A FINAL COMPACTION REPORT WITH TABULATED TEST RESULTS. IN ADDITION, THE CIVIL ENGINEER WILL PROVIDE A FINAL REPORT STATING THAT ALL GRADING, LOT DRAINAGE, AND SURFACE DRAINAGE FACILITIES HAVE BEEN COMPLETED AND THE SLOPE PLANNING HAS BEEN INSTALLED IN CONFORMANCE WITH THE APPROVED GRADING PLANS.
- GRADING ACTIVITIES BETWEEN OCTOBER 1st AND APRIL 1st SHALL BE PERFORMED ONLY WITH COUNTY APPROVAL AND ACCORDING TO AN EROSION CONTROL MANAGEMENT PLAN REVIEWED AND APPROVED BY THE COUNTY GRADING INSPECTOR BY SEPTEMBER 1st. SOILS WORK DURING THE RAINY SEASON SHALL COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATER PROGRAM. DURING THIS PERIOD, THE WORK SITE SHALL BE MAINTAINED THAT ALL EROSION CONTROL MATERIALS ARE READILY AVAILABLE AND THAT ALL AREAS BEING WORKED CAN BE SECURED WITHIN 48 HOURS.
- WORK PERFORMED IN CHANNELS OR CREEKS SHALL BE SPECIFICALLY APPROVED BY THE U.S. ARMY CORPS OF ENGINEERS, THE CALIFORNIA DEPARTMENT OF FISH & GAME, AND THE REGIONAL WATER QUALITY CONTROL BOARD.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE SITE OR SURROUNDING AREA DUE TO DUST OR EROSION, RESULTING FROM WORK DONE BY THE CONTRACTOR.
- IF THERE ARE ANY EXISTING WATER WELLS ON THE PROPERTY, THE CONTRACTOR SHALL CONTACT THE COUNTY DEPARTMENT OF HEALTH SERVICES, ENVIRONMENTAL HEALTH DIVISION, PRIOR TO ANY GRADING IN THE IMMEDIATE VICINITY OF THESE WELLS.
- THE APPROXIMATE QUANTITY OF EARTHWORK IS 2,870 CUBIC YARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF SAID GRADING QUANTITIES PRIOR TO THE START OF THE GRADING OPERATION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DISTRIBUTING ANY EXCESS MATERIAL OR SUPPLY MATERIAL FOR DEFICIENCIES TO BRING POND TO REQUIRED GRADE. CLARIFICATION OF GRADING SHALL BE DONE BY THE ENGINEER, AND THE COUNTY GRADING DIVISION WILL NEED TO BE NOTIFIED.
- THE CONTRACTOR SHALL CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY CARLSON, BARBEE & GIBSON, INC. IN WRITING IMMEDIATELY OF ANY DIFFERENCES IN TOPOGRAPHY FROM THAT SHOWN ON THIS PLAN WHICH MAY REQUIRE CHANGES IN DESIGN. THE COUNTY GRADING DIVISION WILL ALSO NEED TO BE NOTIFIED, TO APPROVE DESIGN GRADING CHANGES PRIOR TO ANY CHANGES OCCURRING IN THE FIELD.
- THE CONTRACTOR SHALL VERIFY THE EARTHWORK QUANTITY AND BALANCE PRIOR TO COMMENCEMENT OF GRADING OPERATIONS. THE CONTRACTOR IS TO NOTIFY CARLSON, BARBEE & GIBSON, INC. AND THE COUNTY GRADING DIVISION IMMEDIATELY OF ANY EARTHWORK BALANCE DISCREPANCIES BEFORE AND DURING GRADING OF SITE.
- THE CONTRACTOR SHALL MAINTAIN THE SITE IN AN ORDERLY FASHION. FOLLOWING THE CESSATION OF CONSTRUCTION, ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE.
- CONTRACTOR TO NOTIFY COUNTY GRADING INSPECTOR WHERE IT IS REASONABLY LIKELY THAT THE CORRECTIVE GRADING/SLIDE REPAIR WORK WILL EXTEND BEYOND THE LIMITS OF GRADING DELINEATED ON THESE PLANS.

SHEET INDEX	
SHEET NO.	TITLE
1	TITLE, GENERAL NOTES & INDEX
2	GRADING PLAN - POND 1

REVIEWED BY:	DATE
THE GEOTECHNICAL ASPECTS OF THE GRADING PLANS HAVE BEEN REVIEWED FOR SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL EXPLORATION REPORT & SUPPLEMENTAL GEOTECHNICAL EXPLORATION REPORT	

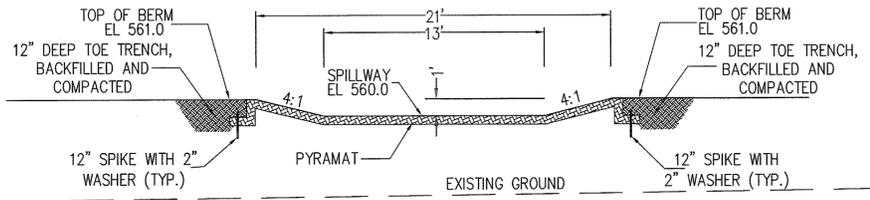
DATE:	JUNE 2008
DRAWN BY:	C.I.H.
PROJ. ENGR.:	C.I.H.
PROJ. MGR.:	A.J.B.
NO. BY DATE	
REVISIONS	



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VASCO CAVES WETLAND POND
GRADING PLAN
TITLE, GENERAL NOTES & INDEX
CONTRA COSTA COUNTY
CALIFORNIA

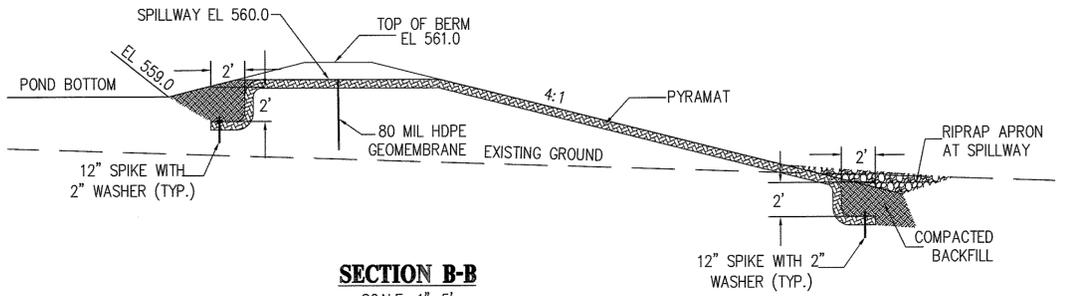
SHEET NUMBER	1
OF	2
JOB NUMBER	1609-00



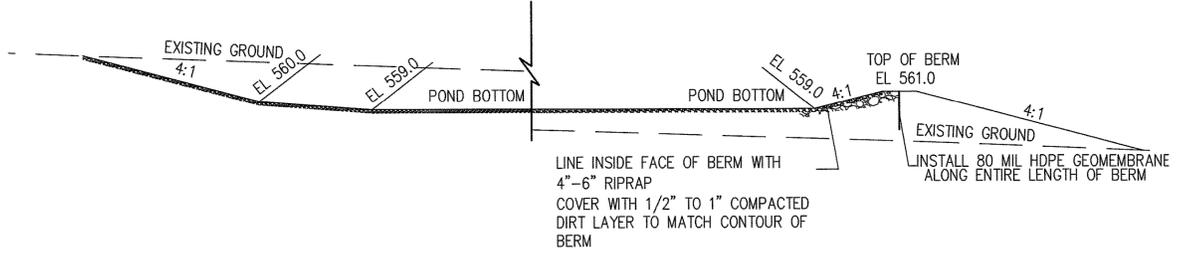
SECTION A-A
SCALE: 1"=5'

PYRAMAT NOTE:

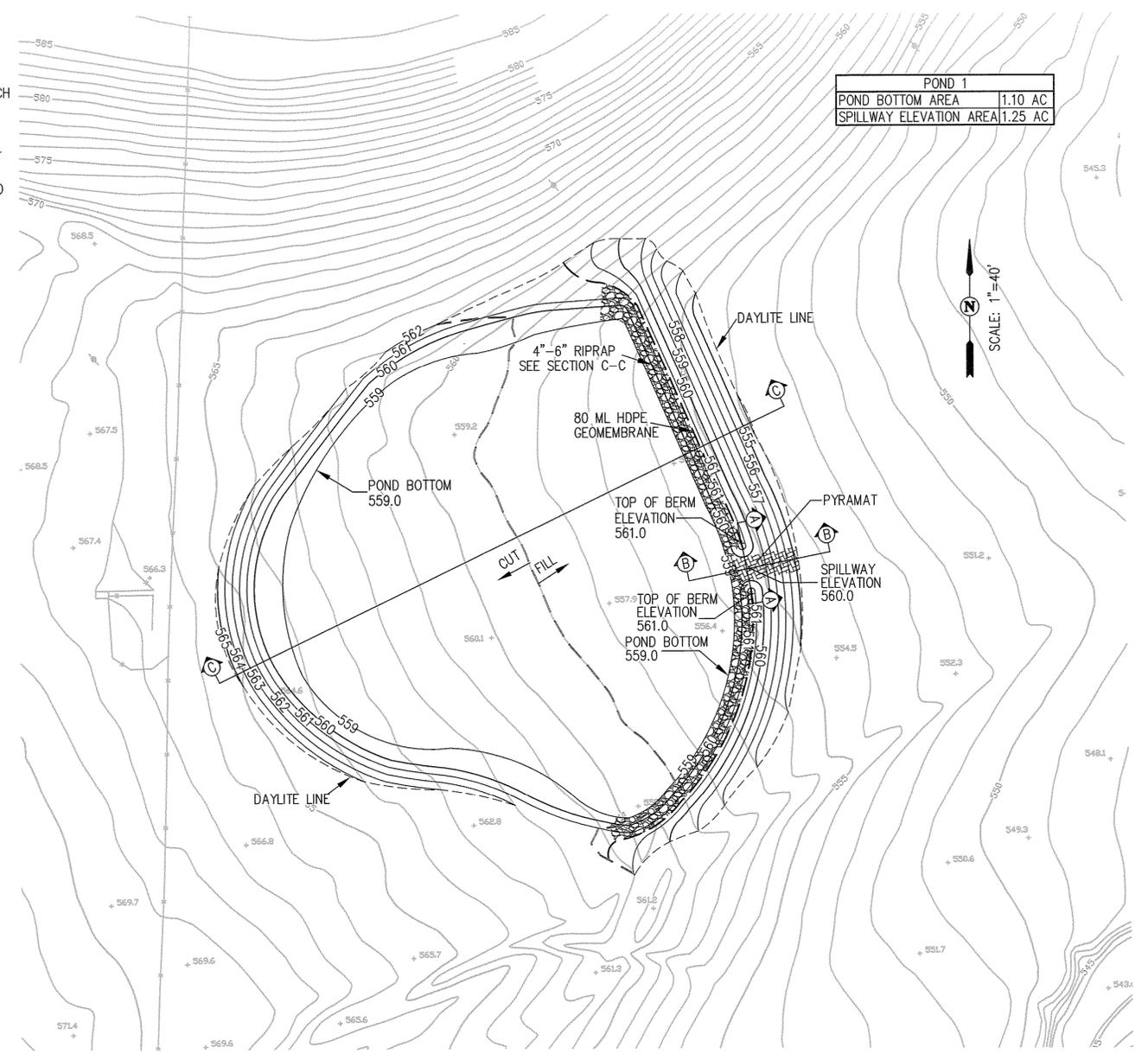
THE GEOTEXTILE PYRAMAT SHALL BE ANCHORED ON 2-FOOT CENTERS WITHIN CREATED SWALES USING 12-INCH SPIKES FURNISHED WITH 2-INCH WASHERS. ALL OUTSIDE EDGES OF THE PYRAMAT SHALL BE ANCHORED WITH 12-INCH SPIKES IN 12-INCH DEEP TOE TRENCHES THAT SHALL BE BACKFILLED AND COMPACTED. AFTER PYRAMAT INSTALLATION IS COMPLETE, A 1-INCH LAYER OF LOAM SOIL SHALL BE SPREAD OVER THE PYRAMAT SURFACE TO FOSTER VEGETATION GROWTH.



SECTION B-B
SCALE: 1"=5'



SECTION C-C
SCALE: 1"=10'

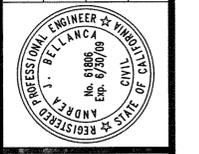


POND 1	
POND BOTTOM AREA	1.10 AC
SPILLWAY ELEVATION AREA	1.25 AC

EARTHWORK SUMMARY		
DESCRIPTION	CUT	FILL
ROUGH GRADING	2,870 CY	2,580 CY
SHRINKAGE (10%)	-	290 CY
TOTAL	2,870 CY	2,870 CY

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

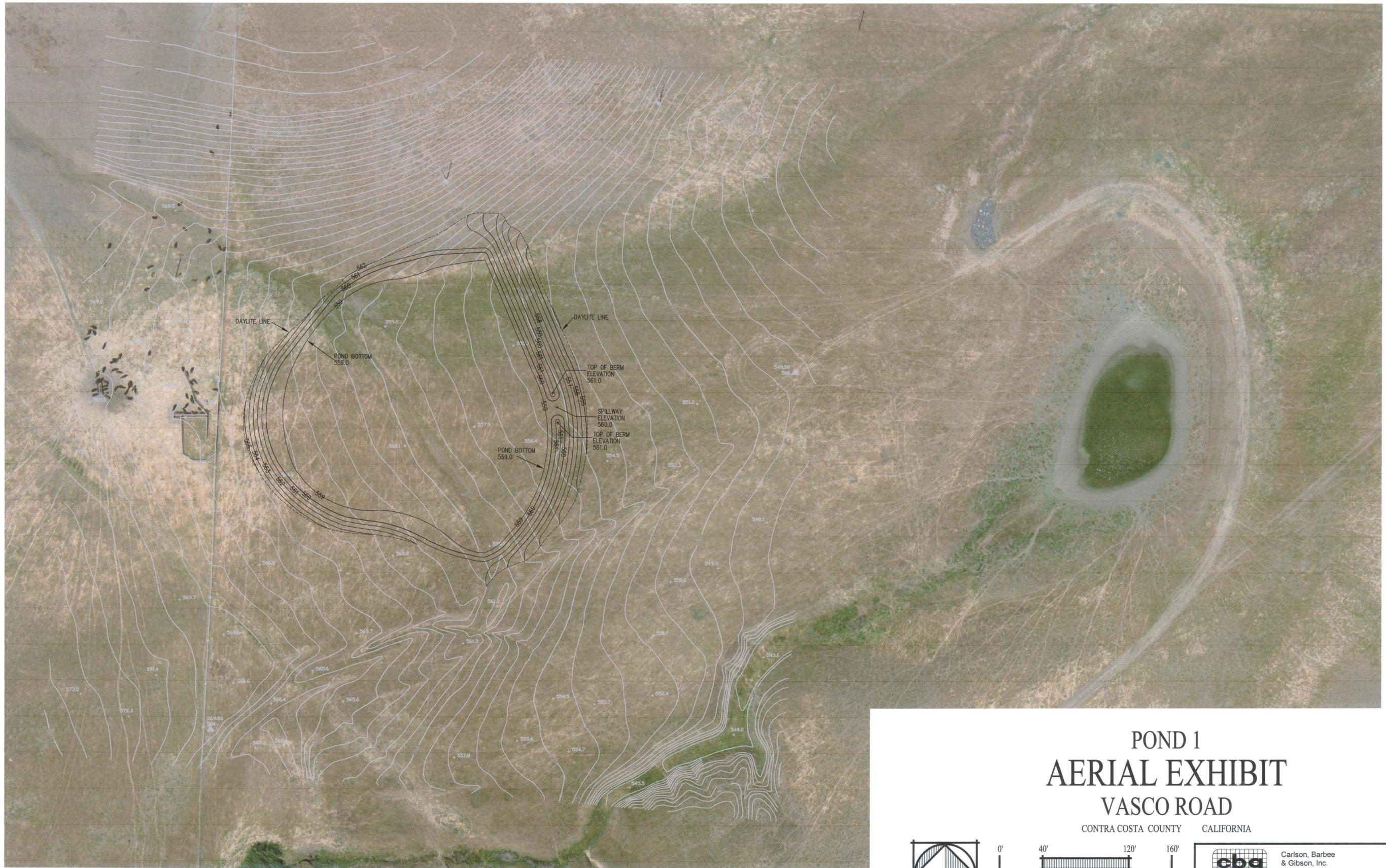
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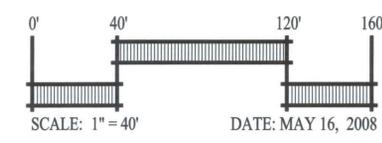
VASCO CAVES WETLAND POND
GRADING PLAN
POND 1
CONTRA COSTA COUNTY
CALIFORNIA

SHEET NUMBER	2
OF	2
JOB NUMBER	1609-00



POND 1 AERIAL EXHIBIT VASCO ROAD

CONTRA COSTA COUNTY CALIFORNIA



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