RONALD J. TENPAS
Acting Assistant Attorney General
Environment and Natural Resources
Division
United States Department of Justice
Washington, D.C. 20530
ROBERT D. MULLANEY
Environmental Enforcement Section
United States Department of Justice
301 Howard Street, Suite 1050
San Francisco, California 94105
Telephone: (415) 744-6491
Facsimile: (415) 744-6476
E-mail: robert.mullaney@usdoj.gov
EDWARD H. KUBO, JR. 2499
United States Attorney
District of Hawai`i
THOMAS HELPER 5676
Assistant United States Attorney
Room 6-100, PJKK Federal Building
300 Ala Moana Boulevard
Honolulu, Hawai`i 96850
Telephone: (808) 541-2850
Facsimile: (808) 541-2958

Attorneys for Plaintiff United States of America

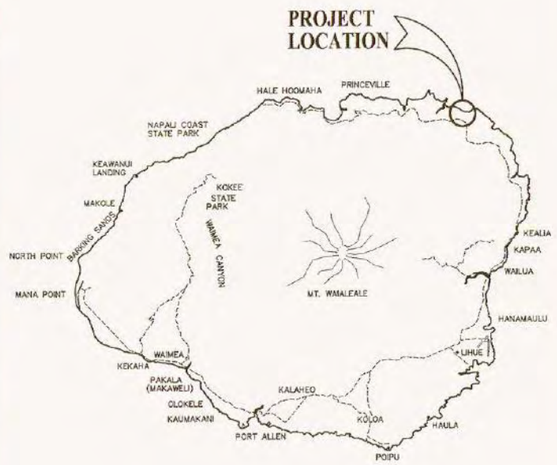
IN THE UNITED STATES DISTRICT COURT

FOR THE DISTRICT OF HAWAI`I

UNITED STATES OF AMERICA, and DEPARTMENT OF HEALTH, STATE OF HAWAI`I, Plaintiffs,  v.  JAMES H. PFLUEGER; PFLUEGER PROPERTIES; AND PILA`A 400 LLC, Defendants.	NO. CV 06-00140 BMK FIRST AMENDED CONSENT DECREE; APPENDIX B1

APPENDIX B

TO CONSENT DECREE



ISLAND OF KAUAI

CONSTRUCTION PLANS FOR:

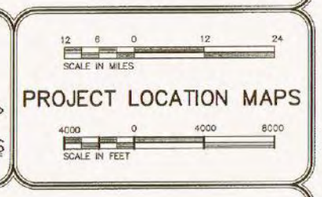
PILA'A 400

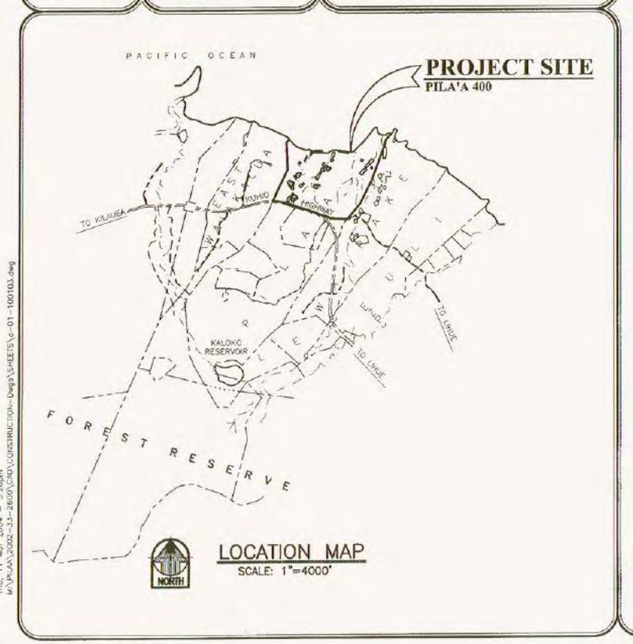
REMEDIATION PLANS - PACKAGE 1

LOCATED AT:

PILA'A, KAUAI, HAWAII

TAX MAP KEY 5-1-04:8





LOCATION MAP
SCALE: 1"=4000'

PREPARED FOR:

PILA'A 400, LLC
1450 South Beretania Street
Honolulu, Hawaii 96814

PREPARED BY:

BELT COLLINS
H A W A I I
ENGINEERING • PLANNING • LANDSCAPE ARCHITECTURE • ENVIRONMENTAL CONSULTING
2153 North King Street, Suite 200
Phone: (808)521-5361 Fax: (808)538-7819

INDEX OF DRAWINGS:

SHT. NO.	DESCRIPTION
CIVIL	
C-1	TITLE, INDEX AND LOCATION MAPS
C-2	CONSTRUCTION NOTES
C-3	GENERAL SITE PLAN & KEY MAP
C-4	GRADING PLAN AREA A
C-5	GRADING PLAN AREA B
C-6	GRADING PLAN AREA C
C-7	GRADING PLAN SHORELINE REMEDIATION
C-8	SHORELINE REMEDIATION SECTIONS
C-9	SHORELINE GRADING CROSS SECTIONS - 1
C-10	SHORELINE GRADING CROSS SECTIONS - 2
C-11	MISCELLANEOUS DETAILS
C-12	KULEANA WALKWAY ACCESS PLAN AND DETAILS

SHT. NO.	DESCRIPTION
LANDSCAPE	
L-1	SHORELINE LANDSCAPE PLANTING PLAN
L-2	SHORELINE PLANT LIST, DETAILS, AND NOTES
L-3	AREA "A" PLANTING PLAN

APPROVED BY:

PLANNING DIRECTOR, PLANNING DEPARTMENT, COUNTY OF KAUAI — DATE

CHIEF ENGINEER, DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUAI — DATE

DEPARTMENT OF LAND & NATURAL RESOURCES, STATE OF HAWAII — DATE

RECORD COPY
JUL - 7, 2004
CONSENT DECREE VERSION:
DECEMBER 16, 2005

PROJECT NO. (BCH)2(.)2.33.2800 DATE: AUGUST, 2003

FILE	POCKET	FOLDER	NO.

APPENDIX B

SHEET C-1 of 15 Sheets

Trim: 22"x36"

LATEST REVISION:
DATE:

PROJECT TITLE: PILA'A 400 REMEDIATION PLANS - PACKAGE 1
PROJECT LOCATION: PILA'A, KAUAI, HAWAII
TMK 5-1-04:8

GENERAL NOTES:

1. ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR UNLESS SPECIFIED ON THE PLANS TO BE ABANDONED.
2. ALL CONSTRUCTION WORKS SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", SEPTEMBER 1986, AND THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", SEPTEMBER 1984, OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUAI, AS AMENDED.
3. THE CONTRACTOR SHALL SO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAT HE CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC.
4. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER "AS BUILT" DRAWINGS OF ALL NEW IMPROVEMENTS UPON COMPLETION OF WORK.
5. ENVIRONMENTAL POLLUTION CONTROL: CONTRACTOR SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.

   ENVIRONMENTAL POLLUTION CONTROLS SHALL BE DONE AT THE CONTRACTOR'S OWN EXPENSE.
6. OWNER IS PROVIDING A STOCKPILE OF BAGGED HYDROMULCH CARRIER (CONTAINS NO SEED OR FERTILIZER) ON THE PLATEAU BETWEEN GULCHES 2 & 3. THERE ARE APPROXIMATELY 860 BAGS OF SPRAY MATT BONDED FIBER MATRIX IN THE STOCKPILE. EACH BAG CONTAINS 50 LBS OF HYDROMULCH. THESE BAGS SHALL SHALL BE USED FOR THE "STANDARD" HYDROMULCH CARRIER MIXTURE.
7. OWNER IS PROVIDING A STOCKPILE BORROW SITE ON THE PLATEAU BETWEEN GULCHES 2 & 3.
8. EXISTING WATER SUPPLY PIPES ARE AVAILABLE FOR TEMPORARY IRRIGATION USE.

EROSION CONTROL AND BEST MANAGEMENT PRACTICE NOTES:

1. CLEARING, GRUBBING AND GRADING SHALL BE HELD TO THE MINIMUM NECESSARY. GRADING AND GRUBBING SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREA. DISTURBED AREA SHALL NOT EXCEED 10 ACRES AT ANY ONE TIME.
2. INSTALL ALL EROSION CONTROL STRUCTURES WHERE INDICATED ON THESE PLANS.
3. CONSTRUCTION ENTRANCES AND ROADWAYS SHALL BE COVERED WITH COMPACTED #2 ROCK OR COMPACTED ROAD BASE COURSE.
4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE GRADING AND GRUBBING OPERATIONS BEGIN. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE GRADING AND GRUBBING PERIOD.
5. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, FOR EXAMPLE, WEEKLY IN DRY PERIODS AND WITHIN TWENTY-FOUR HOURS AFTER ANY RAINFALL OF 0.5 INCHES OR GREATER WITHIN A 24-HOUR PERIOD. DURING PROLONGED RAINFALL, DAILY CHECKING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
6. IF HEAVY RAINS ARE PROJECTED DURING A WORKDAY, ALL CONTROL STRUCTURES THAT ARE A PART OF THIS PROJECT WILL BE INSPECTED IMMEDIATELY AND REINFORCED AS NECESSARY.
7. ALL EROSION CONTROL STRUCTURES THAT ARE A PART OF THIS PROJECT WILL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. BEFORE FINAL ACCEPTANCE, ALL TEMPORARY STRUCTURES SHALL BE REMOVED AND REVEGETATED.
8. FERTILIZER AND PESTICIDE APPLICATION SHALL NOT OCCUR IF HEAVY RAINS ARE ANTICIPATED DURING THE WORKDAY, OR DURING HEAVY RAINS.
9. THE OWNER SHALL MAINTAIN RECORDS OF THE DURATION AND ESTIMATED VOLUME OF STORM WATER DISCHARGE(S).
10. A SPECIFIC INDIVIDUAL APPOINTED BY THE OWNER SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON THIS PROJECT.
11. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED FOR STORAGE OF HAZARDOUS CHEMICALS, SUCH AS PESTICIDES AND FERTILIZER, TO PREVENT SPILLAGE FROM OCCURRING AND FLOWING INTO WATERCOURSES. ALL SPILLS SHALL BE STOPPED AND CLEANED UP WITH PROPER ABSORBENT MATERIAL. ABSORBENT MATERIAL SPILL KITS SHALL BE MAINTAINED ON-SITE.
12. SANITARY AND SEPTIC WASTES SHALL BE COLLECTED FROM ON-SITE FACILITIES ON A REGULAR BASIS BY A LICENSED HAULER. SANITARY AND SEPTIC FACILITIES SHALL NOT BE LOCATED NEAR WATERCOURSES.
13. VEHICLE AND EQUIPMENT MAINTENANCE AND FUELING SHALL BE DONE OFF-SITE (WHERE AT ALL POSSIBLE).
14. DUST CONTROL WITH WATER SPRAY (BY TRUCK OR TEMPORARY SPRINKLERS) SHALL BE INSTALLED AS NEEDED. DO NOT OVERWATER.
15. CONTRACTORS AND SUBCONTRACTORS SHALL BE TRAINED ON THE BEST MANAGEMENT PRACTICES.
16. FABRIC ON ALL EROSION CONTROL STRUCTURES SHALL BE CLEARED OF SILT IMMEDIATELY FOLLOWING THE END OF ANY RAINFALL THAT CAUSES SILT BUILDUP ON THE FABRIC.
17. STABILIZATION SHALL BE ACCOMPLISHED BY TEMPORARY OR PERMANENTLY PROTECTING THE DISTURBED SOIL SURFACE FROM RAINFALL IMPACTS AND RUNOFF WITH PLANTING. TEMPORARY IRRIGATION SHALL BE INSTALLED TO FACILITATE GROWTH OF STABILIZATION. DO NOT OVERWATER.
18. CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL STRUCTURES AS NEEDED WHERE CONTRACTOR TRAVELS OR WORKS BEYOND THE GRADING LIMITS INDICATED ON THE PLANS.

GRADING NOTES:

1. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION AS DETERMINED BY THE OWNER OR GOVERNMENT AGENCIES SHALL BE AT NO ADDITIONAL COST TO THE COUNTY OF KAUAI.
2. ANY REMAINING SEDIMENT AND DEBRIS IN WATERWAYS AND DRAINAGE FACILITIES SHALL BE REMOVED UPON COMPLETION OF GRADING OPERATIONS.
3. THE CONTRACTOR AT HIS OWN EXPENSE SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH AND THE GRADING ORDINANCE OF THE COUNTY OF KAUAI.
4. ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", SEPTEMBER 1986, OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUAI, AS AMENDED.
5. WHERE EXISTING GROUND IS STEEPER THAN 5 HORIZONTAL TO 1 VERTICAL (5:1), KEYING IS REQUIRED TO PROPERLY BOND THE NEW FILL TO THE SLOPE. SEE DETAIL SHEET C-11.
6. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANYTIME WITHOUT PRIOR NOTICE TO THE OWNER'S REPRESENTATIVE AND A WRITTEN PERMISSION FROM THE COUNTY ENGINEER.
7. THE LIMITS OF THE GRADED AREA SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
8. ALL GRADING GRUBBING AND STOCKPILING WORK SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF KAUAI ORDINANCE NO. 695 AND THE CONTRACT SPECIFICATIONS.
9. IN ACCORDANCE WITH CHAPTER 11-60.1, AIR POLLUTION CONTROL, TITLE 11, HAWAII ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH, BURNING OF GRUBBED MATERIAL ON THE PROJECT SITE SHALL NOT BE PERMITTED. GRUBBED MATERIAL SHALL BE DISPOSED OF OFF-SITE.
10. ISSUANCE OF A GRADING GRUBBING OR STOCKPILING PERMIT SHALL BE DEEMED TO INCLUDE THE RIGHT OF THE COUNTY ENGINEER OR HIS REPRESENTATIVE TO ENTER UPON THE PROPERTY TO INSPECT OPERATIONS.
11. HOURS OF OPERATION - 6:00 A.M. TO 6:00 P.M. DAILY EXCEPT SATURDAYS, SUNDAYS AND HOLIDAYS AND AS AUTHORIZED IN WRITING BY THE COUNTY ENGINEER.
12. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE GRADING ORDINANCE TO PREVENT VIOLATION OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS (CHAPTERS 11-54 AND 11-55) DUE TO EROSION AND RUNOFF TO STATE WATERS.
13. GRUBBED MATERIAL, DEMOLITION WASTES AND CONSTRUCTION WASTES SHALL BE DISPOSED OF IN ACCORDANCE TO THE REQUIREMENTS OF THE STATE DEPARTMENT OF HEALTH OF KAUAI AND AT AN AUTHORIZED SITE HAVING A DEPARTMENT OF HEALTH SOLID WASTES MANAGEMENT PERMIT. OPEN BURNING IS PROHIBITED. THE CONTRACTOR SHALL INFORM THE COUNTY ENGINEER OF THE LOCATION OF DISPOSAL SITES. THE DISPOSAL SITE SHALL COMPLY WITH GRADING ORDINANCE NO. 695.
14. EARTHWORK QUANTITIES ARE:

	EXCAVATION	EMBANKMENT	GRADED AREA
AREA A	1,460 CY	310 CY	0.50 ACS
AREA B	2,000 CY	2,590 CY	3.30 ACS
AREA C	1,960 CY	0	0.40 ACS
SHORELINE	50 CY	2,570 CY	0.50 ACS
TOTAL	5,470 CY	5,470 CY	4.70 ACS

   EARTHWORK QUANTITIES ARE FOR GRADING PERMIT ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING HIS OWN QUANTITIES.
15. THE COUNTY SHALL BE INFORMED OF THE LOCATION OF THE DISPOSAL SITE FOR THE EXCESS MATERIAL FROM THIS PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE DISPOSAL SITE SHALL COMPLY WITH GRADING ORDINANCE NO. 695.
16. ELEVATION DATUM FOR THESE CONSTRUCTION PLANS IS BASED ON MEAN SEA LEVEL.

SOIL STOCKPILE NOTES:

1. ALL WORK ON THE STOCKPILE SHALL CONFORM TO THE EROSION CONTROL AND BEST MANAGEMENT PRACTICE NOTES LISTED ON THIS SHEET.
2. A SILT FENCE (REFER TO DETAIL ON SHEET C-5) SHALL BE PLACED AROUND THE DOWN STREAM END OF THE STOCKPILE. THIS SILT FENCE SHALL BE REPAIRED AND CLEANED AFTER EVERY SIGNIFICANT RAINFALL EVENT.
3. STOCKPILE SHALL BE STABILIZED AT THE END OF EACH WORKDAY. STABILIZATION IS DEFINED AS SOME TYPE OF COVERING OVER THE STOCKPILE, SUCH AS TARPAULIN OR HYDROMULCH.
4. STOCKPILE LOCATION IS INDICATED ON SHEET C-3.
5. ESTIMATED STOCKPILE AREA: 0.5 ACRES.
   ESTIMATED MAXIMUM STOCKPILE VOLUME: 4,000 CY.
6. UPON COMPLETION OF THE PROJECT, THE EXCESS MATERIAL AT THE STOCKPILE SHALL BE REMOVED AND THE STOCKPILE SITE SHALL BE GRADED AND REPLANTED WITH GRASS.
7. A DESIGNATED AGENT OF THE OWNER SHALL BE IN CHARGE OF SUPERVISION OF THE STOCKPILE OPERATION.

TEMPORARY DUST AND EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT EXCAVATION, EMBANKMENT AND IMPORTED MATERIAL SHALL BE DAMPENED TO PREVENT DUST PROBLEMS.
2. IN APPLYING FOR A GRADING PERMIT, THE CONTRACTOR SHALL SUBMIT PLANS, SCHEDULES AND/OR WRITTEN MEASURES WHICH PROVIDE FOR DUST CONTROL. THE DUST CONTROL MEASURES SHALL CONTAIN POSITIVE STATEMENTS WHICH REQUIRE ACTION OR WORK THAT PREVENT DUST PROBLEMS. NO PERMITS WILL BE ISSUED UNLESS THE COUNTY IS ASSURED THAT DUST PROBLEMS WILL BE MINIMIZED.
3. TEMPORARY VEGETATIVE COVER SHALL BE PLANTED WITHIN A PERIOD OF 14 CALENDAR DAYS FOR GULCH 2 & GULCH 3 AFTER THE SITE HAS BEEN GRADED OR IF FINAL GRADING OF THE SITE WILL BE SUSPENDED FOR MORE THAN 14 CALENDAR DAYS.
4. TEMPORARY VEGETATIVE COVER SHALL CONSIST OF A GRASS SEED MIXTURE APPLIED WITH A HYDROMULCH CARRIER. GRASS SEED MIXTURE SHALL BE OF ANNUAL RYEGRASS AND COMMON BERMUDA IN THE FOLLOWING AMOUNTS:
   A. ANNUAL RYEGRASS 3 LBS PER 1000 SF
   B. COMMON BERMUDA 4 LBS PER 1000 SF

   ON ALL AREAS TO RECEIVE TEMPORARY VEGETATIVE COVER, PRIOR TO HYDROMULCHING, APPLY A 1" LAYER OF ORGANIC COMPOST AND FERTILIZER OVER ENTIRE PLANTING AREA AND TILLED 4" DEEP INTO SOIL (OMIT ORGANIC SOIL AMENDMENT FOR AREAS B & C). FERTILIZER SHALL BE APPLIED AT A RATE OF 1 LB. OF NITROGEN PER 1,000 SQ.FT. A TEMPORARY IRRIGATION SYSTEM IS TO BE INSTALLED CONCURRENTLY WITH ALL PLANTING OPERATIONS. PLANTING AND MAINTENANCE SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", SEPTEMBER 1996, AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", SEPTEMBER 1984, OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUAI, AS AMENDED.
5. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL PROVIDE EFFECTIVE MEASURES FOR THE CONTROL OF FUGITIVE DUST EMISSIONS FROM THE PROJECT AND SURROUNDING AREAS CAUSED BY HIS OPERATIONS. THESE MEASURES SHALL MEET THE REQUIREMENTS OF STATE ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, AIR POLLUTION CONTROL (11-60).

PERMANENT EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL GRASS ALL EXPOSED AREAS WITHIN THE AREAS OF CONSTRUCTION WORK. SEE PARAGRAPH #3-TEMPORARY DUST AND EROSION CONTROL NOTES.
2. IN AREAS NOT COVERED BY THE LANDSCAPING PLANS, THE CONTRACTOR SHALL GRASS THESE AREAS WITH A GRASS MIXTURE APPLIED WITH A HYDROMULCH CARRIER. GRASS SEED MIXTURE SHALL BE OF ANNUAL RYEGRASS AND COMMON BERMUDA IN THE FOLLOWING AMOUNTS:
   A. ANNUAL RYEGRASS 3 LBS PER 1000 SF
   B. COMMON BERMUDA 4 LBS PER 1000 SF

   ON ALL AREAS WHERE GRASS IS TO BE GROWN (AS INDICATED ON THE LANDSCAPING PLANS) AND ON ALL AREAS NOT COVERED BY THE LANDSCAPING PLANS, PRIOR TO HYDROMULCHING, APPLY A 1" LAYER OF ORGANIC COMPOST AND FERTILIZER OVER ENTIRE PLANTING AREA AND TILLED 4" DEEP INTO SOIL (OMIT ORGANIC SOIL AMENDMENT FOR AREAS B & C). FERTILIZER SHALL BE APPLIED AT A RATE OF 1 LB. OF NITROGEN PE 1,000 SQ. FT. A TEMPORARY IRRIGATION SYSTEM IS TO BE INSTALLED CONCURRENTLY WITH ALL PLANTING OPERATIONS. THE TEMPORARY IRRIGATION SYSTEM SHALL REMAIN UNTIL ALL CONSTRUCTION IS COMPLETED AND TEMPORARY EROSION CONTROL STRUCTURES ARE REMOVED. EROSION CONTROL MATTING SHALL BE UTILIZED WHERE INDICATED ON THE PLANS. PLANTING AND MAINTENANCE SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", SEPTEMBER 1986, AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", SEPTEMBER 1984, OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUAI, AS AMENDED.
3. FOR AREAS STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL WHERE HYDROMULCH IS TO BE APPLIED, HYDROMULCH CARRIER SHALL ALSO CONTAIN "AIRTROL SS" ADDITIVE, WITH THE "AIRTROL SS" ADDED TO THE HYDROMULCH CARRIER AT A RATE OF 6,000 LBS PER ACRE. SEED MIXTURE AND FERTILIZER APPLICATION RATE SHALL BE THE SAME AS IN NOTE 2 OF THIS SECTION. NO TILLING OR APPLICATION OF ORGANIC COMPOST SHALL BE PERFORMED ON SLOPES STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
4. FOR AREAS WITH SLOPES OF 2 HORIZONTAL TO 1 VERTICAL OR FLATTER, APPLY HYDROMULCH AS INDICATED IN NOTE 2 OF THIS SECTION.
5. REFER TO LANDSCAPE PLANS FOR REVEGETATION PROCEDURES AND SPECIFICATIONS.

ENVIRONMENTAL PROTECTION NOTES:

1. IN ACCORDANCE WITH CHAPTER 11-60.1, AIR POLLUTION CONTROL, TITLE 11, HAWAII ADMINISTRATIVE RULES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EFFECTIVE CONTROL MEASURES ARE PROVIDED TO MINIMIZE OR PREVENT ANY VISIBLE DUST EMISSION CAUSED BY THE CONSTRUCTION WORK FROM IMPACTING THE SURROUNDING AREAS INCLUDING THE OFF-SITE ROADWAYS USED TO ENTER/EXIT THE PROJECT. THESE MEASURES INCLUDE BUT ARE NOT LIMITED TO THE USE OF WATER WAGONS, SPRINKLER SYSTEMS, DUST FENCES, ETC.
2. IN ACCORDANCE WITH CHAPTER 11-55, WATER POLLUTION CONTROL AND CHAPTER 11-54, WATER QUALITY STANDARDS, TITLE 11, HAWAII ADMINISTRATIVE RULES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE BEST MANAGEMENT PRACTICE (BMP) TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENTS, DEBRIS, AND OTHER WATER POLLUTANT INTO STATE WATERS IS PROVIDED.
3. IN ACCORDANCE WITH CHAPTER 11-58, SOLID WASTE MANAGEMENT CONTROL, TITLE 11, STATE ADMINISTRATIVE RULES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT GRUB MATERIAL, DEMOLITION WASTE AND CONSTRUCTION WASTE GENERATED BY THE PROJECT ARE DISPOSED OF IN A MANNER OR AT A SITE APPROVED BY THE STATE DEPARTMENT OF HEALTH. DISPOSAL OF ANY OF THESE WASTES BY BURNING IS PROHIBITED.
4. WORK SHALL BE DONE IN CONFORMATNCE WITH THE COMMUNITY NOISE STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46, "COMMUNITY NOISE CONTROL".

Rev	Date	Description	Eng	App
△				
△				
△		CONSENT DECREE VERSION: DECEMBER 16, 2005		

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2004
EXPIRATION DATE OF THE LICENSE
LICENSED PROFESSIONAL ENGINEER No.2435-C
PAUL F. WALLRABENSTEIN, JR. HAWAII, U.S.A.

Planning • Civil Engineering
Landscape Architecture
Environmental Consulting
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819
T/808 521 5361 • F/808 538 7819
www.beltcollins.com

Consultant:

Client:
PILA'A 400, LLC
1450 South Beretania Street
Honolulu, Hawaii 96814

PILA'A 400
REMEDIATION PLAN - PACKAGE 1

CONSTRUCTION NOTES

Designed By: C.K.L. Drawn By: J.T., G.Y.
Project No. 2002.33.2600 (001) Date: AUGUST, 2003

Approved By:

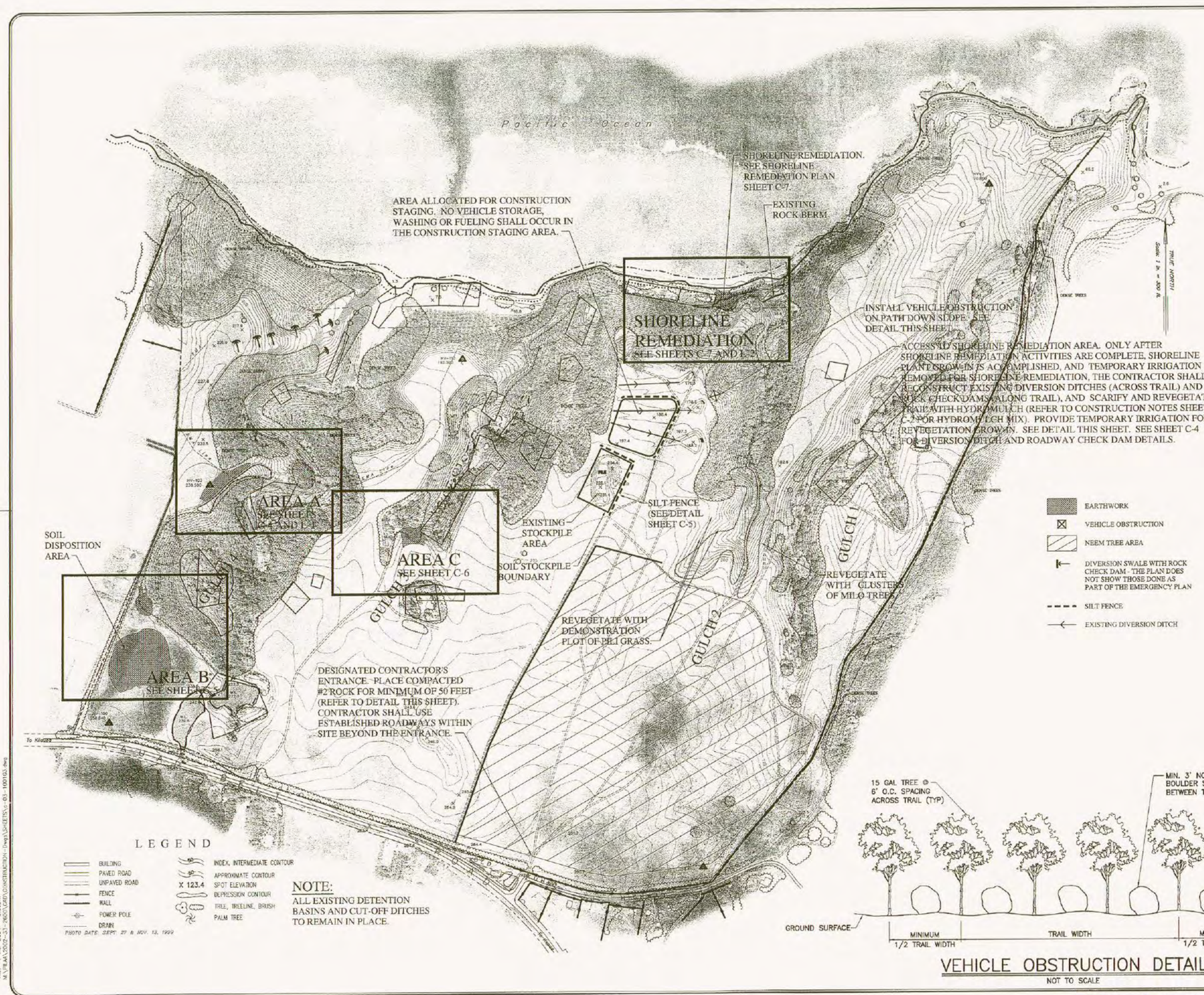
RECORD COPY
JUL - 7, 2004

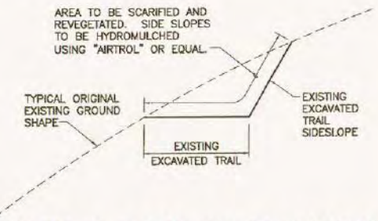
FILE	POCKET	FOLDER	NO.

Trim: 22"x36"

HALF SIZE TRIM LINE FOR 11"x17"

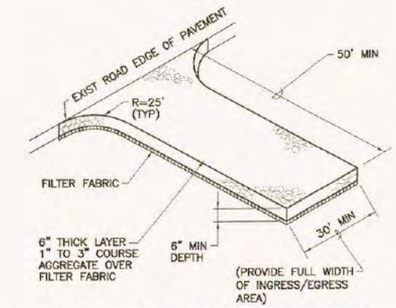
Fri, 25 Jun 2004 - 11:17am
M:\PILAA\2002-33-2600\CAD\CONSTRUCTION-Dwgs\SHEETS\C-02-062804.dwg





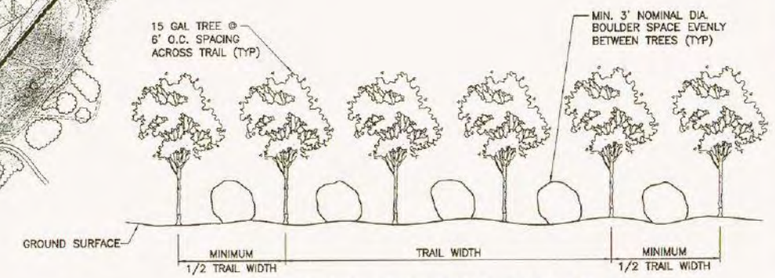
GULCH 2 TRAIL REVEGETATION TYPICAL SECTION

NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT TO SCALE



VEHICLE OBSTRUCTION DETAIL

NOT TO SCALE

Rev	Date	Description	Eng	App
△				
△				
△		CONSENT DECREE VERSION: DECEMBER 16, 2005		

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2004
EXPIRATION DATE OF THE LICENSE

PAUL R. WALLRABENSTEIN, JR. LICENSED PROFESSIONAL ENGINEER No. 2435-C HAWAII, U.S.A.

BeltCollins
Planning • Civil Engineering
Landscape Architecture
Environmental Consulting
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819
T/808 521 5361 • F/808 538 7819
www.beltcollins.com

Consultant:

Client:
PILA'A 400, LLC
1450 South Beretania Street
Honolulu, Hawaii 96814

PILA'A 400
REMEDIATION PLAN - PACKAGE 1
GENERAL SITE PLAN AND KEY MAP

Designed By: C.K.L. Drawn By: J.T., G.Y.
Project No. 2002.33.2600 (001) Date: AUGUST, 2003
Approved By:

Date

RECORD COPY

JUL - 7, 2004

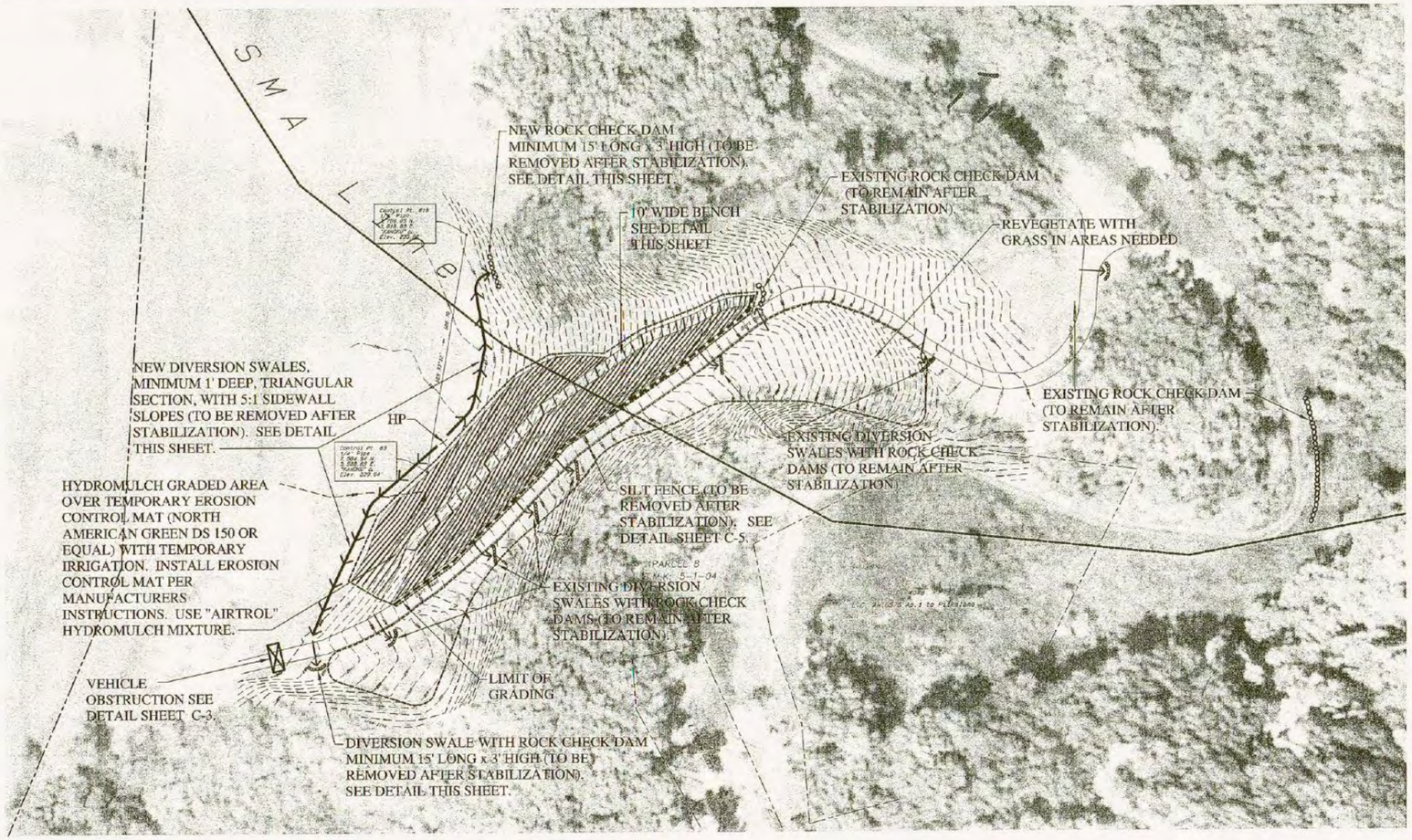
Date

Date

FILE	POCKET	FOLDER	NO.

Trim: 22"x36"

SHEET C-3 of 15 Sheets



NOTES:

1. DIVERSION SWALES AND ROCK CHECK DAMS ARE PRESENTLY IN PLACE AT THE APPROXIMATE LOCATIONS SHOWN. THE CONTRACTOR SHALL MAINTAIN THE EXISTING AND NEW EROSION CONTROL STRUCTURES UNTIL STABILIZATION HAS OCCURED. BEFORE FINAL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL REPAIR EROSION CONTROL STRUCTURES THAT ARE TO REMAIN AFTER STABILIZATION TO THEIR ORIGINAL CONDITIONS. SILT FENCE SHALL BE REMOVED AFTER STABILIZATION. DIVERSION SWALE REMOVAL SHALL CONSIST OF COMPACTED TOPSOIL FOLLOWED BY REGRASSING WITH "STANDARD" HYDROMULCH MIXTURE.
2. REFER TO PLANTING PLAN, SHEET L-1.

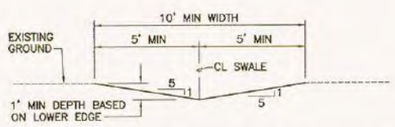
NORTH

AREA A

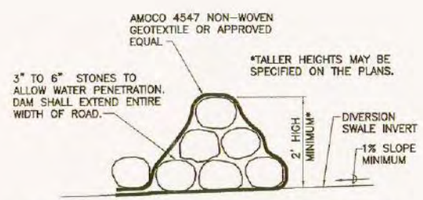
SCALE: 1"=50'

LEGEND:

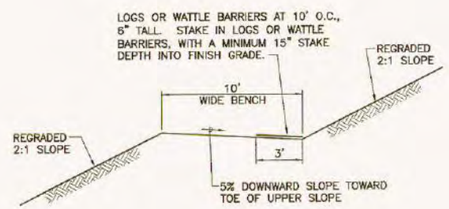
- GROUND TOPOGRAPHIC SURVEY
- PROPOSED GRADING
- DIVERSION SWALE WITH ROCK CHECK DAM
- DIVERSION SWALE
- ROCK CHECK DAM
- SILT FENCE



DIVERSION SWALE SECTION
NOT TO SCALE



ROCK CHECK DAM SECTION
NOT TO SCALE



TYPICAL BENCH DETAIL
NOT TO SCALE

Rev	Date	Description	Eng	App
		CONSENT DECREE VERSION: DECEMBER 16, 2005		

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2004
EXPIRATION DATE OF THE LICENSE

PAUL P. WALLRABENSTEIN, JR. LICENSED PROFESSIONAL ENGINEER No. 2435-C HAWAII, U.S.A.

BeltCollins
Planning • Civil Engineering
Landscape Architecture
Environmental Consulting
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819
T/808 521 5361 • F/808 538 7819
www.beltcollins.com

Consultant:

Client:
PILA'A 400, LLC
1450 South Beretania Street
Honolulu, Hawaii 96814

PILA'A 400
REMEDIATION PLAN - PACKAGE 1
GRADING PLAN
AREA A

Designed By: C.K.L. Drawn By: J.T., G.Y.
Project No. 2002.33.2600 (D01) Date: AUGUST, 2003

Approved By:

Date

RECORD COPY

Date

JUL - 7 2004

Date

FILE	POCHPT	FOLDER	NO.

Trim: 22"x36"

SHEET C-4 of 15 Sheets

Fri, 21 May 2004 - 1:16pm
M:\PILAA\2002-33-2600\CADD\CONSTRUCTION-Dwgs\SHEETS\c-04-100103.dwg

HALF SIZE TRIM LINE FOR 11"x17"