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

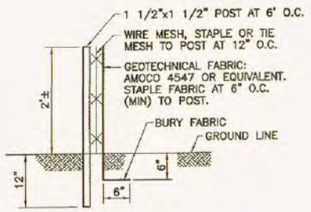
IN THE UNITED STATES DISTRICT COURT

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 B2

LEGEND:

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



SILT FENCE DETAIL

SCALE: 3/4"=1'-0"

NOTE: THE CONTRACTOR SHALL MAINTAIN THE 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.

NORTH

AREA B

SCALE: 1"=40'

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

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APRIL 30, 2004
EXPIRATION DATE OF THE LICENSE

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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 B

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

Approved By:

RECORD COPY

JUL - 7, 2004

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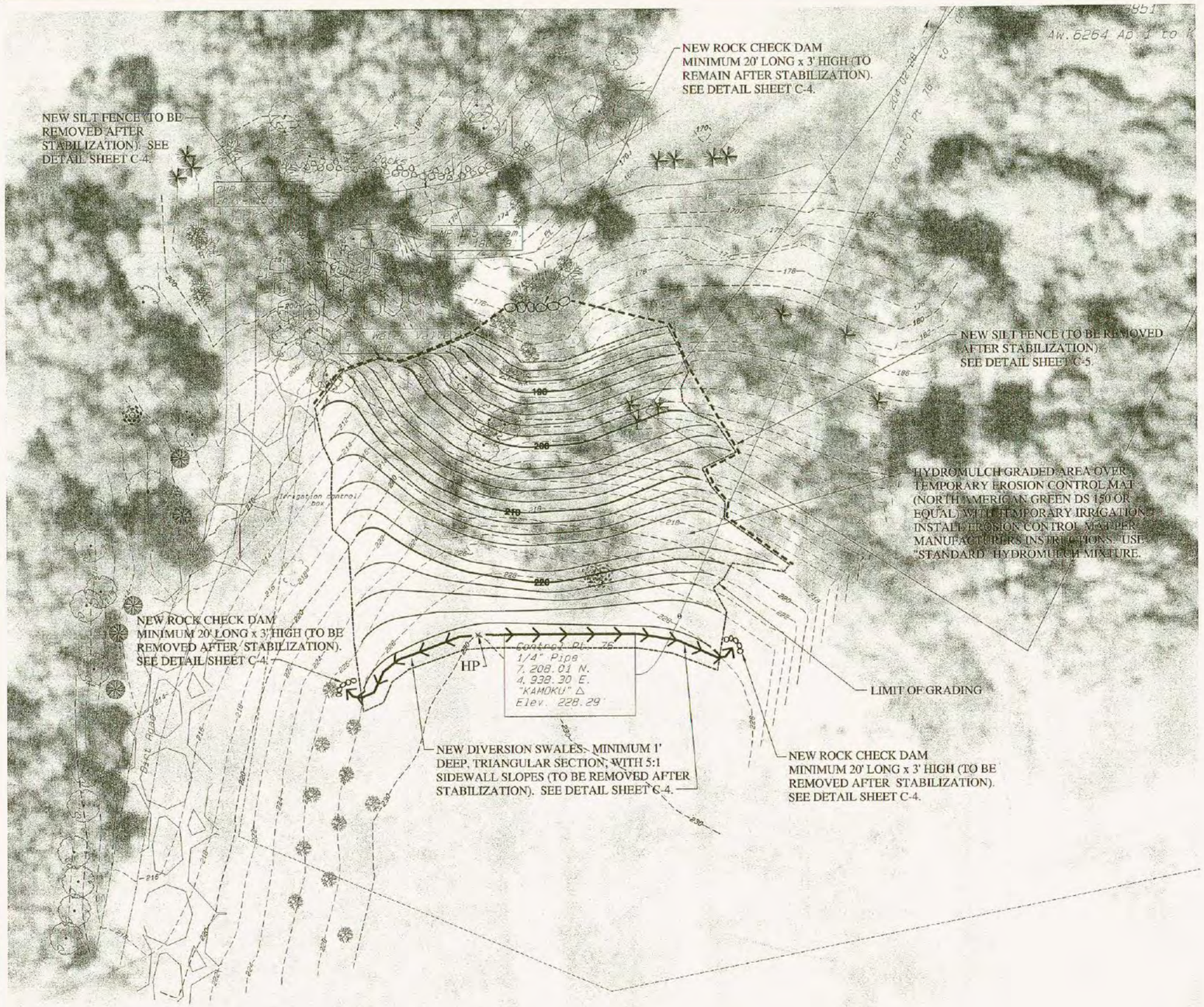

LEGEND:

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

NOTE: THE CONTRACTOR SHALL MAINTAIN THE 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.

NORTH

AREA C
SCALE: 1"=20'

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Paul R. Wallrabenstein

Belt Collins
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
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Honolulu, Hawaii 96814

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

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

Approved By: Date

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JUL - 7, 2004 Date

Date

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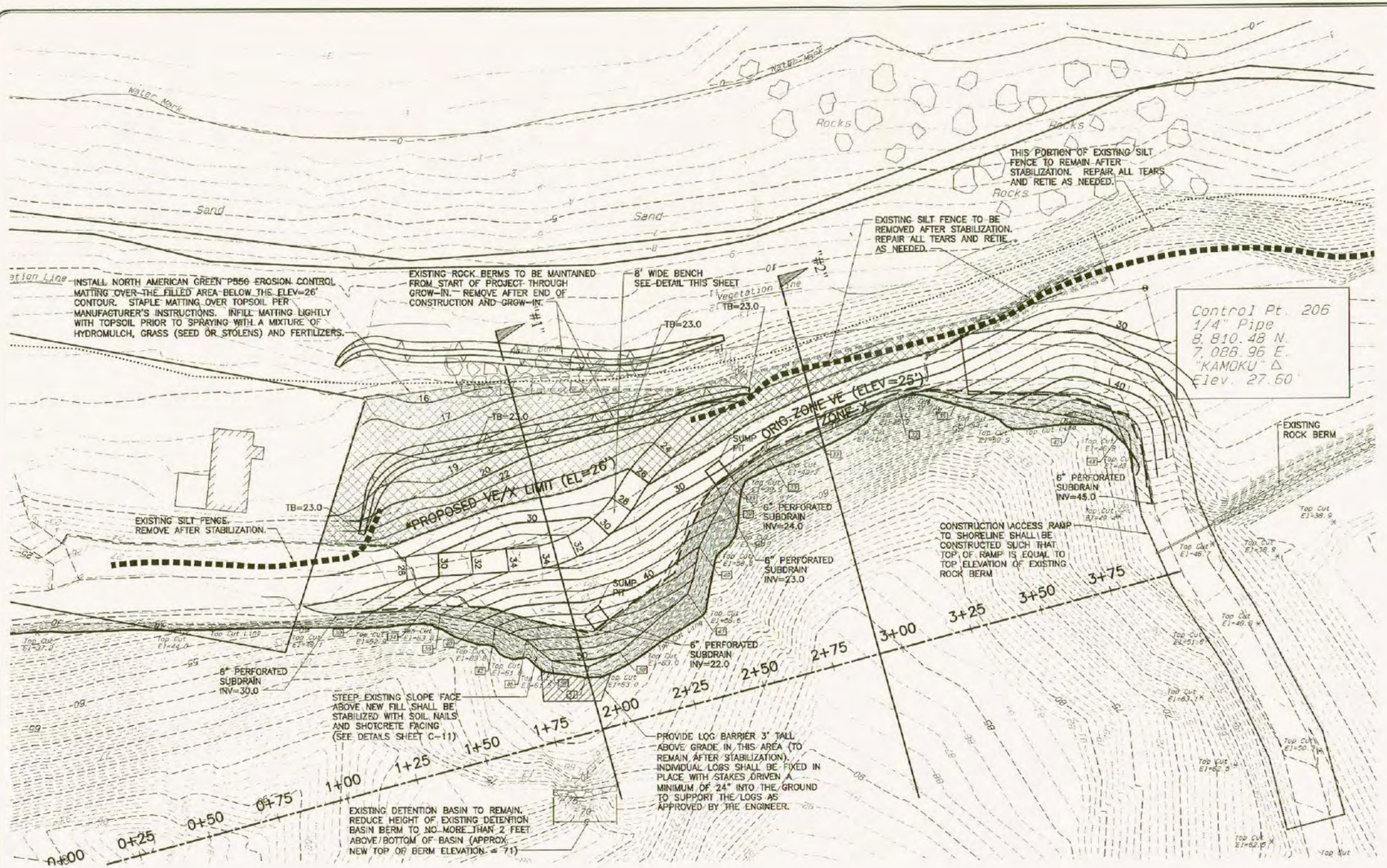


NORTH

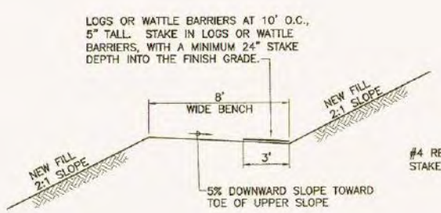
PLAN
SCALE: 1"=20'

SHORELINE ROCK BERM NOTES:

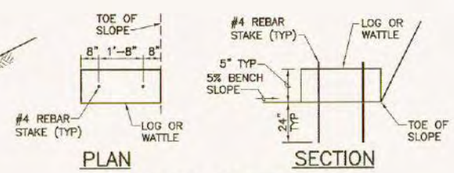
1. THE EXISTING ROCK BERMS SHALL REMAIN IN PLACE FROM THE START OF WORK UNTIL STABILIZATION HAS OCCURRED.
2. THE EXISTING SILT FENCES SHALL REMAIN IN PLACE FROM THE START OF WORK UNTIL STABILIZATION HAS OCCURRED. ONE PORTION OF THE EXISTING SILT FENCES SHALL REMAIN AFTER STABILIZATION, AS INDICATED ON THE PLANS.
3. A 3-FOOT TALL LOG BARRIER SHALL BE CONSTRUCTED ABOVE THE STEEP EXISTING SLOPE FACE IN THE LOCATION INDICATED ON THE PLANS.
4. ALL EROSION CONTROL STRUCTURES SHALL BE CHECKED AND CLEANED AFTER EACH SIGNIFICANT RAINFALL EVENT.
5. THE APPROXIMATELY 2:1 (HORIZONTAL TO VERTICAL) FILL SLOPE MAUKA OF THE MAUKA SHORELINE BERM (THE MAUKA PORTION) SHALL BE CONSTRUCTED FIRST. PRIOR TO CONSTRUCTION OF THE 2:1 FILL SLOPE, THE CONTRACTOR SHALL FIRST CONSTRUCT THE DRAINAGE SUMPS, PIPE SUB-DRAIN IN TRENCH, AND PLACE FULL-FACED DRAINAGE SHEETING ALONG THE EXISTING SLOPE FACE.
6. CREATION OF THE MAUKA PORTION OF THE 2:1 FILL SLOPE SHALL BE PERFORMED TO THE INDICATED GRADES, EXCEPT THAT THE MAUKA SHORELINE ROCK BERM IS NOT TO BE COVERED OR AFFECTED. ONLY AFTER STABILIZATION OF THE MAUKA PORTION OF THE 2:1 FILL SLOPE CAN THE MAUKA SHORELINE ROCK BERM BE REMOVED.
7. 2:1 FILL SLOPE GRADING SHALL BE PERFORMED AS INDICATED IN THE SPECIFICATIONS, WHICH STATES THAT "NEW COMPACTED FILL SHALL BE PLACED IN HORIZONTAL LIFTS RESTRICTED TO EIGHT (8) IN LOOSE THICKNESS AND COMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION AS DETERMINED BY ASTM D1557. FILL PLACED IN AREAS WHERE THE SLOPE IS STEEPER THAN 5:1 (HORIZONTAL TO VERTICAL) SHALL BE CONTINUALLY BENCHED AS THE FILL IS BROUGHT UP IN LIFTS."
8. AFTER THE MAUKA PORTION OF THE 2:1 FILL SLOPE GRADING IS ACCOMPLISHED, THE CONTRACTOR SHALL STABILIZE THIS NEWLY CREATED FILL SLOPE SURFACE WITH EROSION CONTROL MATTING, HYDROMULCH, OTHER PLANTING AND TEMPORARY IRRIGATION AS INDICATED ON THE PLANS (FOR PLANTING PLANS, REFER TO SHEETS L-2 AND L-3). WATTLE OR LOG BARRIERS SHALL BE PERMANENTLY INSTALLED ON THE SLOPE BENCH AS INDICATED ON THE PLANS.
9. AFTER INSTALLATION OF THE EROSION CONTROL MATTING, HYDROMULCH, OTHER PLANTING AND TEMPORARY IRRIGATION ON THE MAUKA PORTION OF THE 2:1 FILL SLOPE, THE CONTRACTOR SHALL INSTALL THE SOIL NAIL RETAINING WALL ON THE STEEP EXISTING SLOPE FACE.
10. AFTER COMPLETION OF THE SOIL NAIL RETAINING WALL, AND AFTER STABILIZATION OF THE MAUKA PORTION OF THE 2:1 FILL SLOPE, THE MAUKA SHORELINE ROCK BERM AND PORTIONS OF SILT FENCE IN THE GRADING LIMITS SHALL BE REMOVED, AND THE REMAINING MAKAI PORTION OF THE 2:1 FILL SLOPE CAN BE CONSTRUCTED AS INDICATED ON THE PLANS. AFTER CONSTRUCTION OF THIS REMAINING MAKAI PORTION OF THE 2:1 FILL SLOPE, EROSION CONTROL MATTING, HYDROMULCH, OTHER PLANTING AND TEMPORARY IRRIGATION SHALL BE INSTALLED ON THIS PORTION.
11. AFTER STABILIZATION OF THE ENTIRE 2:1 FILL SLOPE, REMOVE TEMPORARY IRRIGATION AND THE MAKAI SHORELINE ROCK BERM. ALSO, REDUCE THE HEIGHT OF THE EXISTING DETENTION BASIN BERM (ABOVE THE STEEP EXISTING SLOPE) AS INDICATED ON THE PLANS.
12. CONTRACTOR IS ALLOWED TO CREATE AN ENCLOSED CHUTE TO TRANSFER FILL FROM THE PLATEAU ABOVE TO THE SHORELINE BELOW, AS LONG AS DUST IS CONTROLLED PER STATE ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, AIR POLLUTION CONTROL, CHAPTER 11-60.1, AND OSHA SAFETY RULES ARE MET.
13. REFER TO SHEETS C-9 AND C-10 FOR SLOPE CROSS-SECTIONS ALONG BASELINE.

LEGEND:

- NEW FILL
- STEEP EXISTING SLOPE FACE
- EROSION CONTROL MATTING BELOW ELEVATION 26



TYPICAL BENCH DETAIL
NOT TO SCALE



LOG OR WATTLE BARRIER DETAIL
NOT TO SCALE

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Environmental Consulting
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Honolulu, Hawaii 96814

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

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

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JUL - 7, 2004

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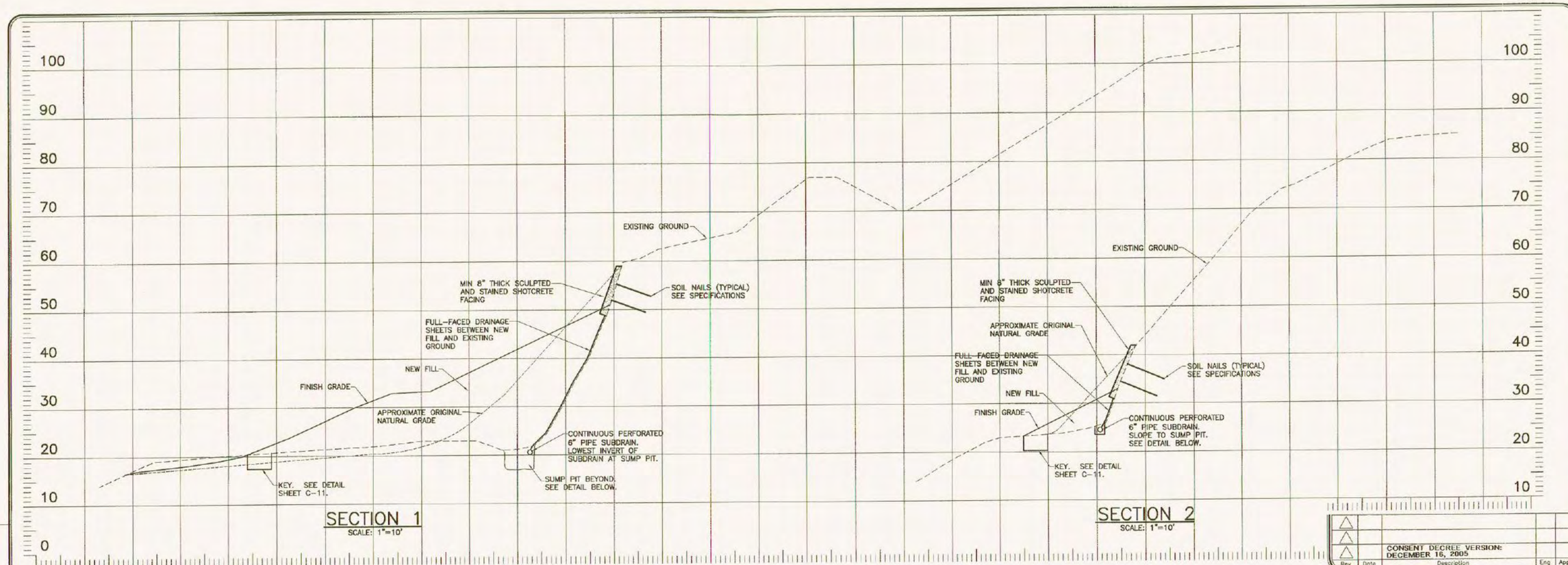
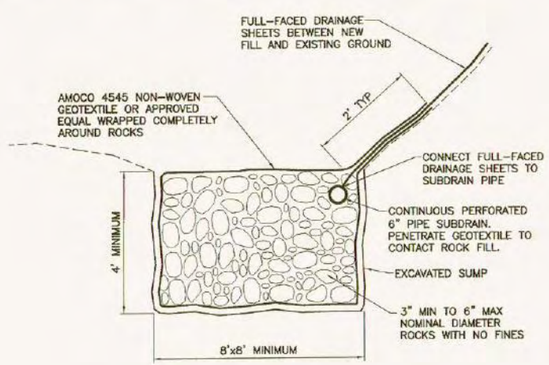


SECTION 1
SCALE: 1"=10'

SECTION 2
SCALE: 1"=10'



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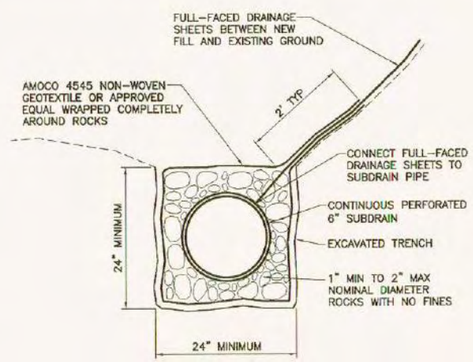

SUBDRAIN DETAIL
NOT TO SCALE

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Belt Collins Hawaii Ltd.
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Consultant:

Client:
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Honolulu, Hawaii 96814

PILA'A 400
REMEDIATION PLAN - PACKAGE 1

SHORELINE REMEDIATION SECTIONS

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

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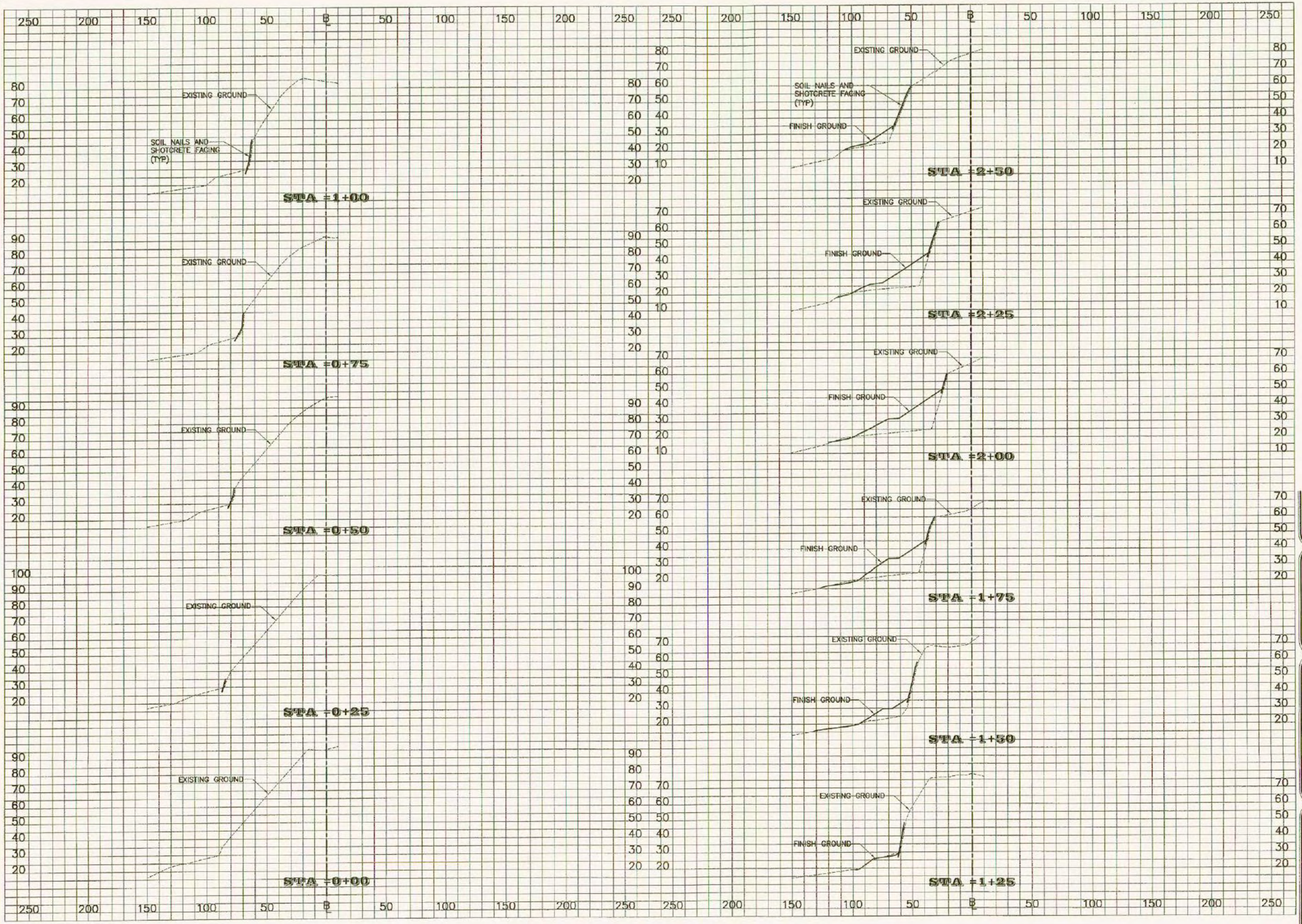

SHORELINE GRADING CROSS SECTIONS – 1

SCALES: 1" = 40' (HORIZONTAL)
1" = 30' (VERTICAL)

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PILA'A 400
REMEDIATION PLAN - PACKAGE 1

SHORELINE GRADING
CROSS SECTIONS – 1

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

Approved By:

Date

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