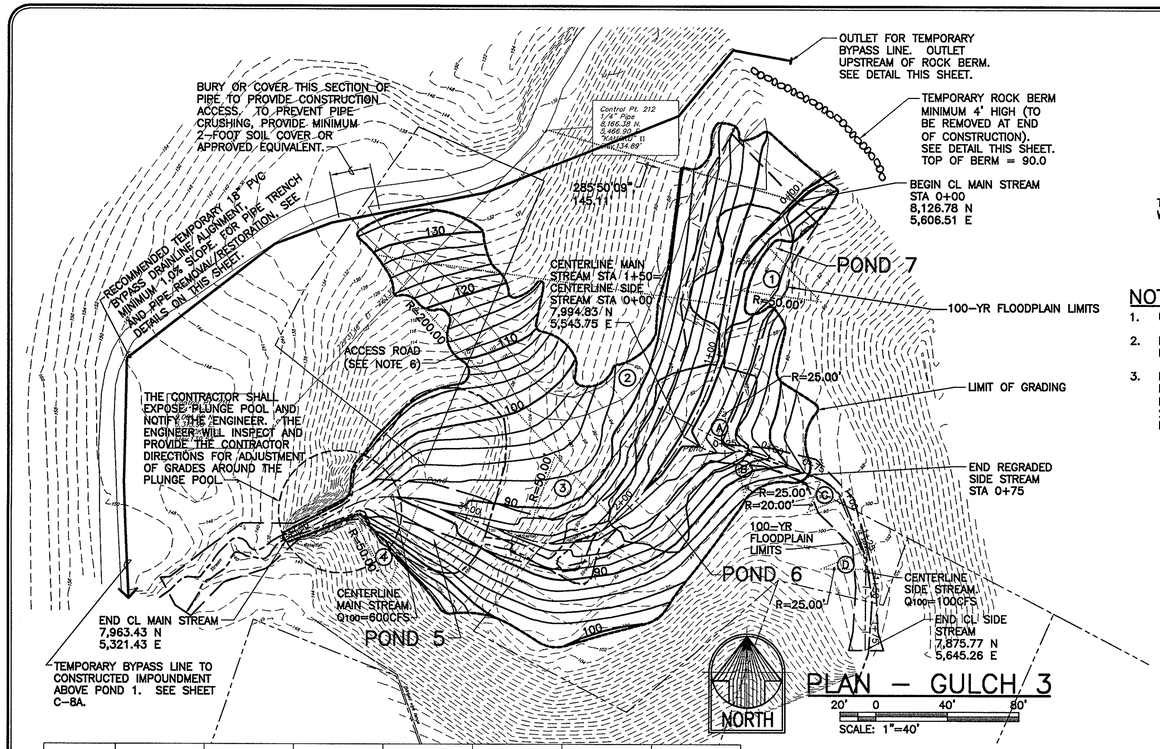
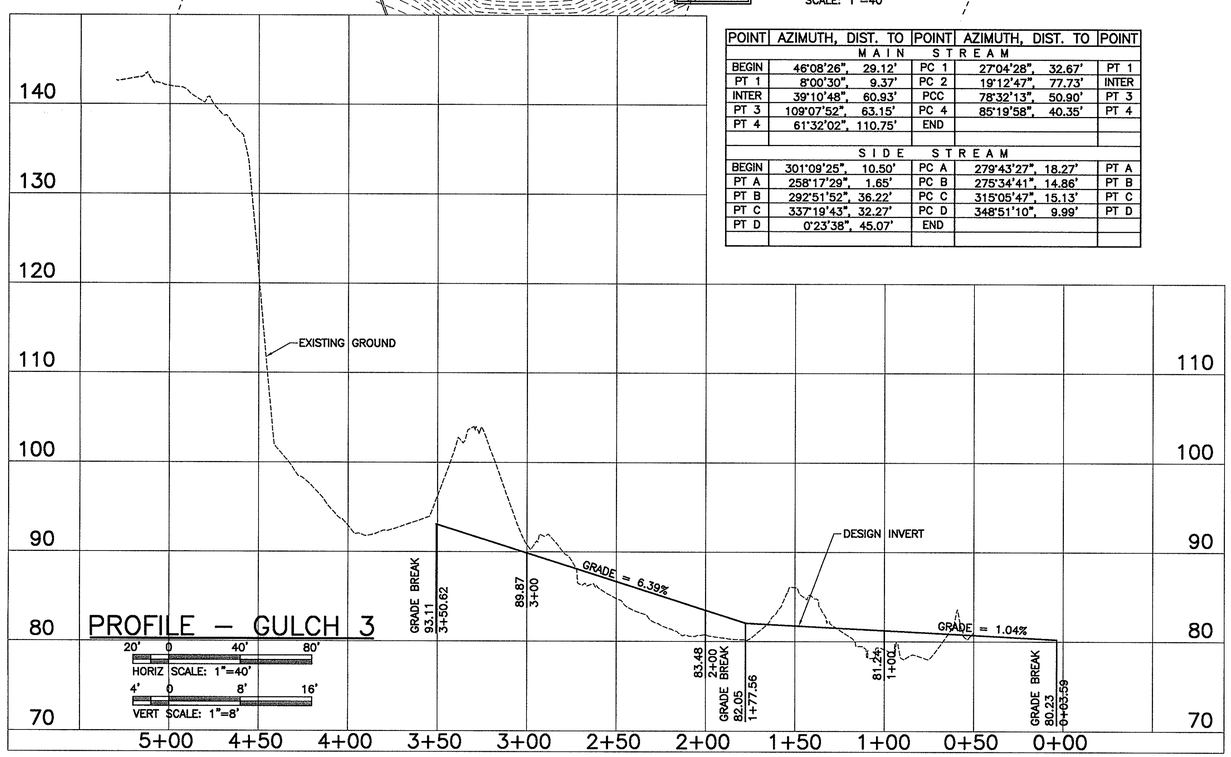
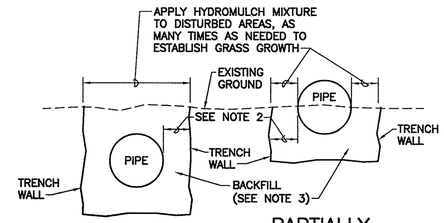


PLAN – GULCH 3

POINT	AZIMUTH, DIST. TO	POINT	AZIMUTH, DIST. TO	POINT
	MAIN STREAM			
BEGIN	46°08'26", 29.12'	PC 1	27°04'28", 32.67'	PT 1
PT 1	8°00'30", 9.37'	PC 2	19°12'47", 77.73'	INTER
INTER	39°10'48", 60.93'	PCC	78°32'13", 50.90'	PT 3
PT 3	109°07'52", 63.15'	PC 4	85°19'58", 40.35'	PT 4
PT 4	61°32'02", 110.75'	END		
	SIDE STREAM			
BEGIN	301°09'25", 10.50'	PC A	279°43'27", 18.27'	PT A
PT A	258°17'29", 1.65'	PC B	275°34'41", 14.86'	PT B
PT B	292°51'52", 36.22'	PC C	315°05'47", 15.13'	PT C
PT C	337°19'43", 32.27'	PC D	348°51'10", 9.99'	PT D
PT D	0°23'38", 45.07'	END		



PROFILE – GULCH 3

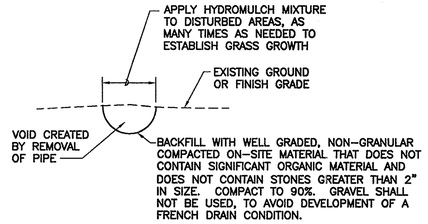


NOTES:

1. USE THIS DETAIL WHERE DRAINLINE REQUIRES BURIAL TO MEET MINIMUM SLOPE.
2. MINIMUM TRENCH CLEARANCE BASED ON WIDTH NEEDED TO ACHIEVE DESIRED COMPACTION TARGET .
3. BACKFILL WITH WELL GRADED, NON-GRANULAR COMPACTED ON-SITE MATERIAL THAT DOES NOT CONTAIN SIGNIFICANT ORGANIC MATERIAL AND DOES NOT CONTAIN STONES GREATER THAN 2" IN SIZE. COMPACT TO 90 %. GRAVEL SHALL NOT BE USED, TO AVOID DEVELOPMENT OF A FRENCH DRAIN CONDITION.

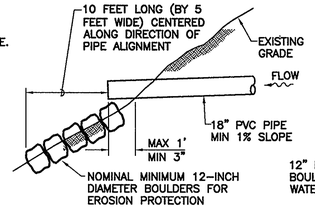
TYPICAL TEMPORARY BYPASS DRAINLINE TRENCH SECTIONS

NOT TO SCALE



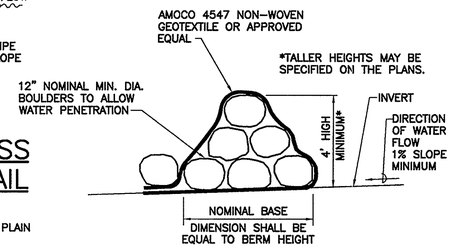
REMOVAL OF TEMPORARY BYPASS DRAINLINE

NOT TO SCALE



TEMPORARY BYPASS LINE OUTLET DETAIL

NOT TO SCALE



TEMPORARY ROCK BERM SECTION

NOT TO SCALE

NOTES:

1. FOR PLANTING PLAN, SEE SHEETS L-2 AND L-3.
2. REFER TO SHEET C-12 FOR PERMANENT CHANNEL EROSION CONTROL WITHIN THE 100-YR FLOOD PLAIN LIMITS AND LOW FLOW CHANNEL SECTION.
3. NEW ROCK CHECK DAM SHALL BE INSTALLED PRIOR TO START OF GRADING WORK, AND SHALL REMAIN IN PLACE UNTIL STABILIZATION HAS OCCURED.
4. REFER TO SHEETS C-9 & C-10 FOR CROSS SECTIONS ALONG GULCH CENTERLINE.
5. BYPASS DRAINLINE TO BE LAYED ON EXISTING GRADE SURFACE, EXCEPT WHERE MINIMUM 1% SLOPE IS TO BE MAINTAINED. BYPASS LINE, UPON COMPLETION OF REVEGETATION GROW-IN, SHALL BE REMOVED.
6. DURING THE CONSTRUCTION PERIOD, ADD A LAYER OF COMPACTED 1 1/2" ROCK OVER THE STEEP PORTION OF THE ACCESS ROAD TO THESE LOWER PONDS (UPPER 200 FEET). PRIOR TO REGRADING/CLOSING OF ACCESS ROAD. MAINTAIN COMPACTED 1 1/2" ROCK LAYER DURING CONSTRUCTION PERIOD.
7. GRADING WORK TO ONLY BE PERFORMED ON DRY (NON-RAINING) DAYS.
8. THE LAND AREA DISTURBED BY THE BYPASS LINE INSTALLATION SHALL BE STABILIZED WITH PERMANENT GRASS VEGETATIVE COVER USING A HYDROMULCH CARRIER, GRASS SEED MIX AND FERTILIZER AS SOON AS POSSIBLE AFTER BYPASS LINE CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL STRUCTURES UNTIL STABILIZATION HAS OCCURRED (EXCEPT WHERE STRUCTURES ARE SCHEDULED FOR REMOVAL). BEFORE FINAL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL REPAIR EROSION CONTROL STRUCTURES THAT ARE TO REMAIN AFTER STABILIZATION TO THEIR ORIGINAL CONDITIONS.
10. ALL WORK TO BE PERFORMED ON DRY (NON-RAINING) DAYS.
11. ELECTROSHOCKING SHALL BE PERFORMED ON PONDS 5 THROUGH 7 UNTIL NO VISIBLE WATER ANIMALS FLOAT TO THE SURFACE.
12. EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL GRADED AREAS. MATTING SHALL BE NORTH AMERICAN GREEN C125 OR APPROVED EQUAL.
13. AFTER DEWATERING EACH POND (5 THROUGH 7), REMOVE MUCK. INITIALLY DEWATER PONDS WITH A SUBMERSIBLE PUMP. PUMPING WATER INTO A WATER TRUCK. WATER IN THE TRUCK CAN BE DISPOSED OF BY GROUND ABSORPTION DISPERSAL OR DISPOSAL INTO AN EXISTING ON-SITE EROSION CONTROL BASIN. MUCK SHALL BE REMOVED VIA A VACUUM TRUCK AND DISPOSED OF AT AN IMPOUNDMENT CONSTRUCTED AT THE STOCKPILE SITE NEAR THE SOUTHEAST BOUNDARY (SEE SHEET C-3).
14. BERM DECONSTRUCTION SHALL BE CAREFULLY DONE TO PREVENT DEBRIS AND SOIL FROM ENTERING STATE WATERS.

CONSTRUCTION SEQUENCE:

1. CONSTRUCT ALL EROSION CONTROL FEATURES, INCLUDING TEMPORARY ROCK CHECK DAMS, TEMPORARY ROCK BERM, DIVERSION SWALES AND GRAVEL PLACEMENT ON ROADWAYS.
2. PLUG WATERFALL SOURCE PIPE.
3. CONSTRUCT TEMPORARY BYPASS DRAINLINE WITH IMPOUNDMENT ABOVE POND 1.
4. DEWATER, ELECTROSHOCK AND MUCK OUT POND 1. SEE NOTE 11.
5. DEWATER, ELECTROSHOCK AND MUCK OUT POND 2. SEE NOTE 11.
6. DEWATER, ELECTROSHOCK AND MUCK OUT POND 3. SEE NOTE 11.
7. REMOVE PIPES AND CONSTRUCT ROCK LINED SPILLWAYS BETWEEN PONDS 2 & 3 AND BETWEEN PONDS 3 & 4.
8. DEWATER, ELECTROSHOCK AND MUCK OUT POND 4. SEE NOTE 11.
9. INSTALL LANDSCAPE PLANTING AND STABILIZATION AROUND PONDS 1 THRU 4 (SEE SHEET L-6).
10. DEWATER AND MUCK OUT PONDS 5 THROUGH 7. CONSTRUCT NEW STREAM BED TO ELIMINATE PONDS 5 THROUGH 7. CONSTRUCTION OF NEW STREAMBED CAN BEGIN AFTER EROSION CONTROL MATTING HAS BEEN INSTALLED ON ALL GRADED AREAS SURRONDING PONDS 1 THROUGH 4.
11. PRIOR TO REMOVAL OF TEMPORARY ROCK CHECK DAM BELOW POND 4, TEMPORARY ROCK BERM AND TEMPORARY BYPASS DRAINLINE, EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL GRADED AREAS.
12. REMOVE TEMPORARY BYPASS DRAINLINE, TEMPORARY ROCK CHECK DAM BELOW POND 4 AND TEMPORARY ROCK BERM.
13. REGRADE/CLOSE ACCESS ROAD TO PONDS 5 THROUGH 7. INSTALL EROSION CONTROL MATTING ON GRADED AREA.
14. LANDSCAPE PLANTING AND STABILIZATION FOR NEW STREAM BED, STREAM BANKS AND REGRADED/CLOSED ACCESS ROAD (SEE SHEETS L-2 & L-3).
15. ALLOW GROW-IN PERIOD.

Rev	Date	Description	Eng	App
		CONSENT DECREE VERSION: DECEMBER 16, 2005		
		REV. APRIL 15, 2005		
		REV. MARCH 23, 2005		
		REV. FEBRUARY 04, 2005		

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APRIL 30, 2006
EXPIRATION DATE OF THE LICENSE

LELAND Y.S. LEE
LICENSED PROFESSIONAL ENGINEER
No.4912-C
HAWAII, U.S.A.

Planning • Civil Engineering
Landscape Architecture
Environmental Consulting
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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 2
PLAN AND PROFILE
GULCH 3 CHANNEL
GRADIENT RESTORATION

Designed By: C.K.L. Drawn By: C.K.L., G.Y.
Project No. 2004.33.1900 Date: MARCH, 2004

Approved By:

Date

Date

Date

FILE	POCKET	FOLDER	NO.

Mon, 12 Dec 2005 - 12:27pm
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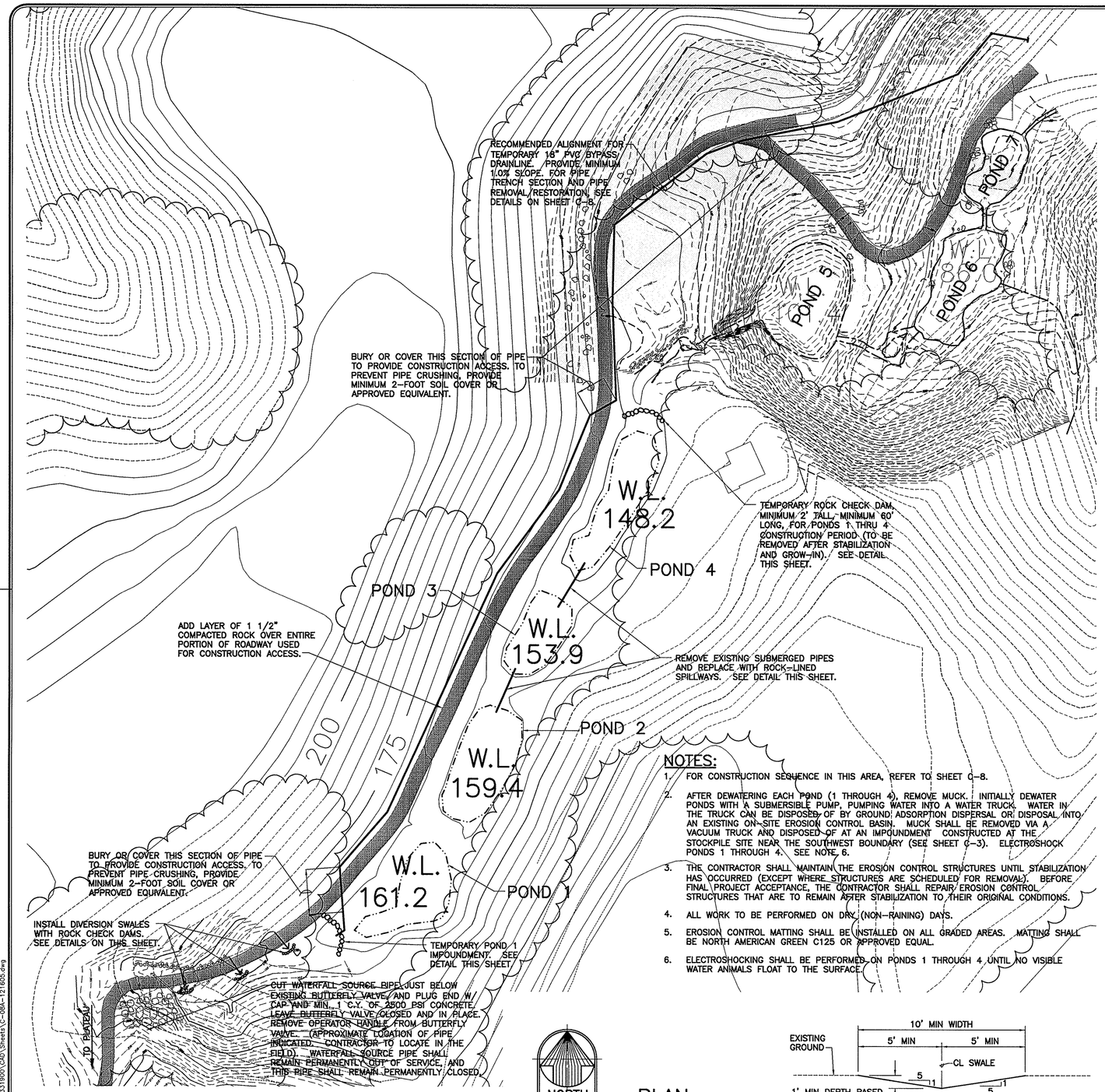
HALF SIZE TRIM LINE FOR 11"x17"

Trim: 22"x36"



NOTES:

1. FOR CONSTRUCTION SEQUENCE IN THIS AREA, REFER TO SHEET C-8.
2. AFTER DEWATERING EACH POND (1 THROUGH 4), REMOVE MUCK. INITIALLY DEWATER PONDS WITH A SUBMERSIBLE PUMP, PUMPING WATER INTO A WATER TRUCK. WATER IN THE TRUCK CAN BE DISPOSED OF BY GROUND ADSORPTION DISPERSAL OR DISPOSAL INTO AN EXISTING ON-SITE EROSION CONTROL BASIN. MUCK SHALL BE REMOVED VIA A VACUUM TRUCK AND DISPOSED OF AT AN IMPOUNDMENT CONSTRUCTED AT THE STOCKPILE SITE NEAR THE SOUTHWEST BOUNDARY (SEE SHEET C-3). ELECTROSHOCK PONDS 1 THROUGH 4. SEE NOTE 6.
3. THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL STRUCTURES UNTIL STABILIZATION HAS OCCURRED (EXCEPT WHERE STRUCTURES ARE SCHEDULED FOR REMOVAL). BEFORE FINAL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL REPAIR EROSION CONTROL STRUCTURES THAT ARE TO REMAIN AFTER STABILIZATION TO THEIR ORIGINAL CONDITIONS.
4. ALL WORK TO BE PERFORMED ON DRY (NON-RAINING) DAYS.
5. EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL GRADED AREAS. MATTING SHALL BE NORTH AMERICAN GREEN C125 OR APPROVED EQUAL.
6. ELECTROSHOCKING SHALL BE PERFORMED ON PONDS 1 THROUGH 4 UNTIL NO VISIBLE WATER ANIMALS FLOAT TO THE SURFACE.

NORTH

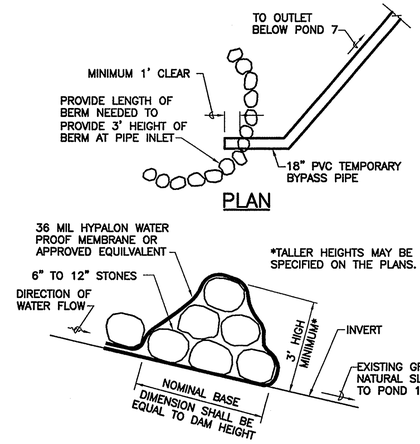
25' 0 50' 100'

HORIZ SCALE: 1"=50'

PLAN

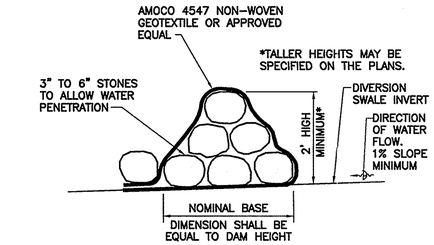
DIVERSION SWALE SECTION

NOT TO SCALE



TEMPORARY IMPOUNDMENT DETAIL

NOT TO SCALE



ROCK CHECK DAM SECTION

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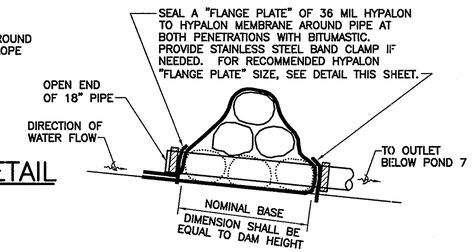
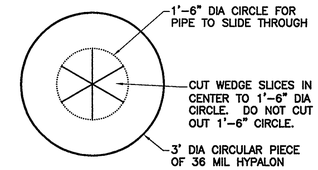


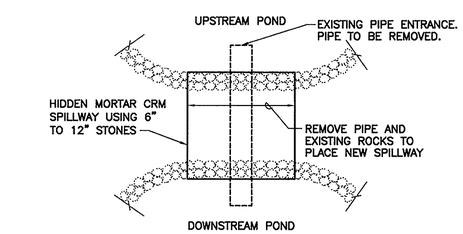
18" PVC TEMPORARY BYPASS PIPE THROUGH BERM DETAIL

NOT TO SCALE



36 MIL HYPALON "FLANGE PLATE" DETAIL

NOT TO SCALE



PONDS 2 & 3 OUTLET PIPE REMOVAL AND ROCK SPILLWAY DETAIL

NOT TO SCALE

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		REV. MARCH 23, 2005		
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APRIL 30, 2006
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LELAND Y.S. LEE
LICENSED PROFESSIONAL ENGINEER
No.4912-C
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 2

PONDS 1 THROUGH 4 REMEDIATION

Designed By: C.K.L. Drawn By: C.K.L., G.Y.
Project No. 2004.33.1900 Date: MARCH, 2004

Approved By:

Date

Date

Date

FILE	PODIOT	FOLDER	NO.

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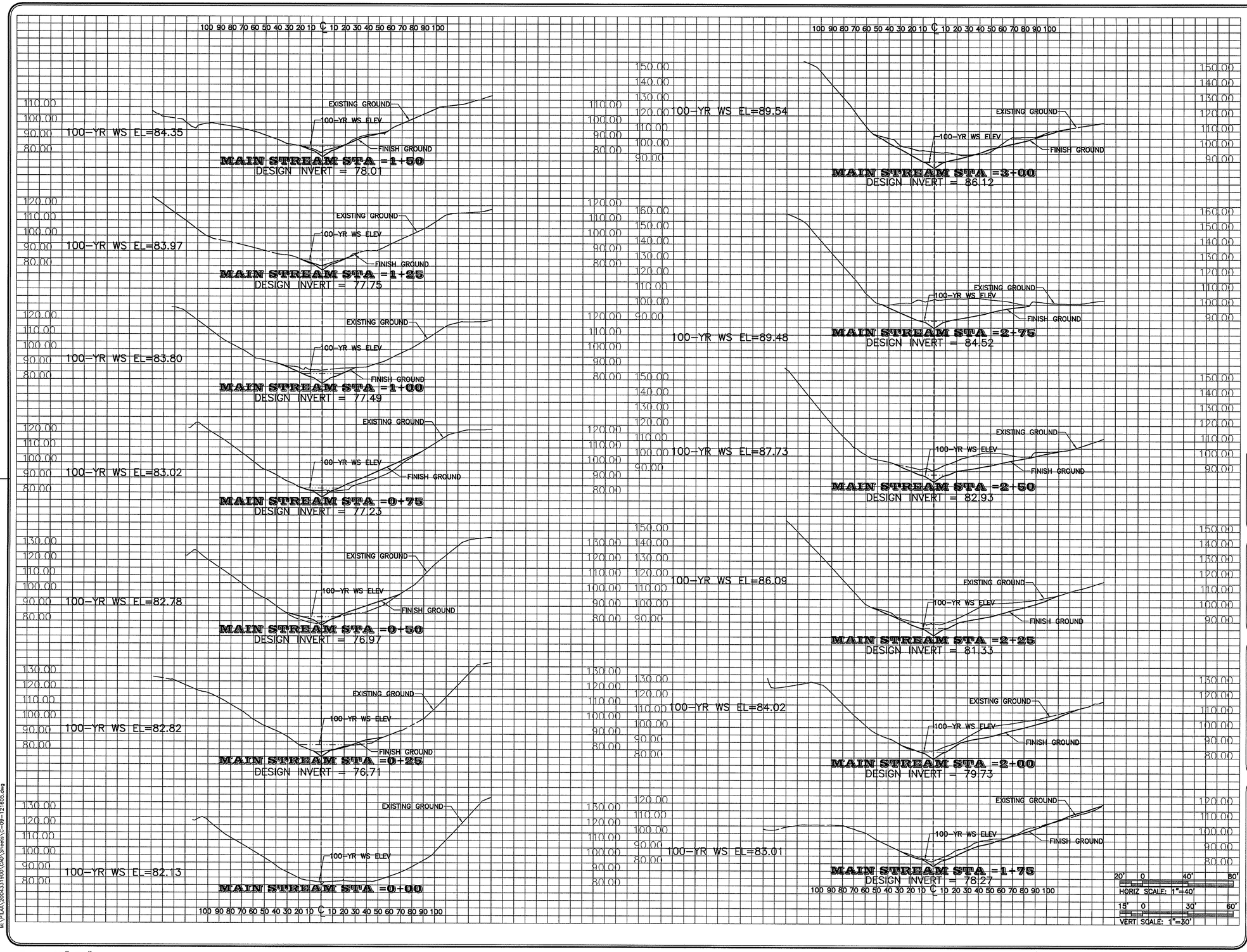
Trim: 22"x36"



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Planning • Civil Engineering
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Environmental Consulting
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Honolulu, Hawaii 96819
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PILA'A 400
REMEDIATION PLAN - PACKAGE 2

GULCH 3
CROSS SECTIONS – 1

Designed By: C.K.L. Drawn By: C.K.L., G.Y.
Project No. 2004.33.1900 Date: MARCH, 2004

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Date

Date

Date

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Mon, 12 Dec 2005 - 12:26pm
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HALF SIZE TRIM LINE FOR 11"x17"

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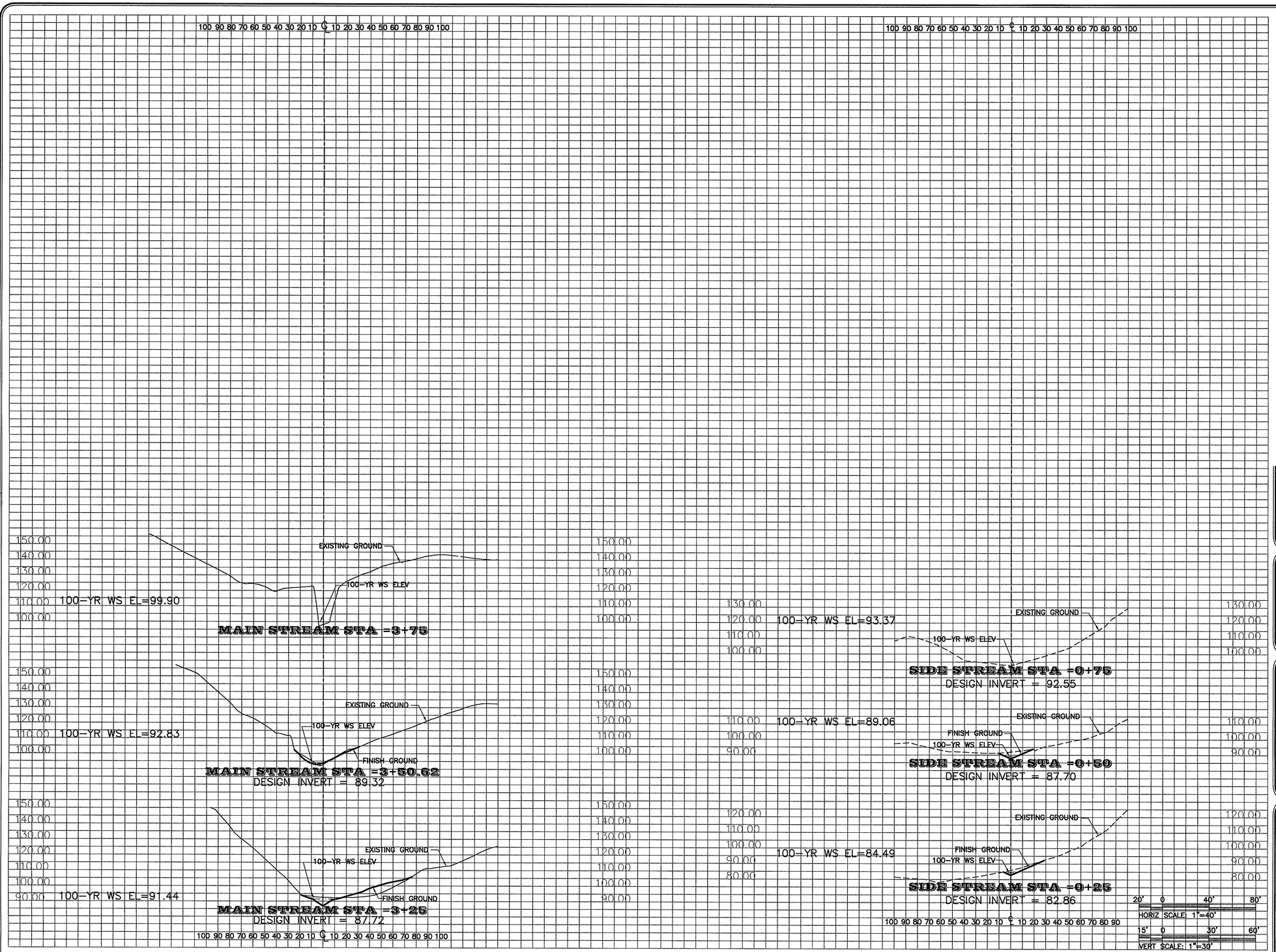

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△		**CONSENT DECREE VERSION: DECEMBER 16, 2005**		
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PILA'A 400
REMEDIATION PLAN - PACKAGE 2

GULCH 3
CROSS SECTIONS – 2

Designed By: C.K.L. Drawn By: C.K.L., G.Y.
Project No. 2004.33.1900 Date: MARCH, 2004

Approved By:

Date

Date

Date

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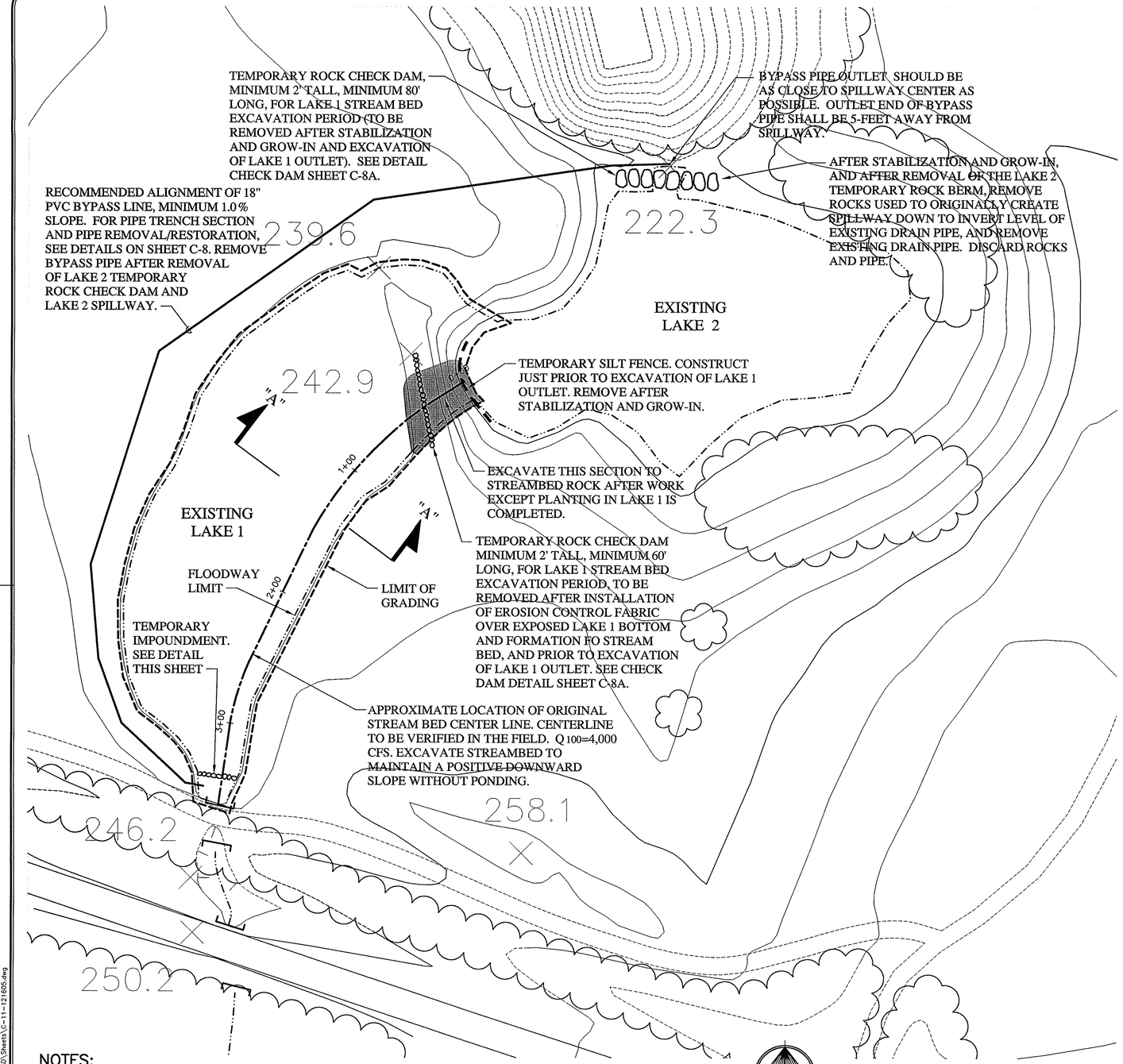
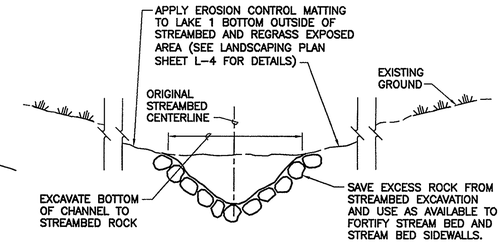
HALF SIZE TRIM LINE FOR 11"x17"

Trim: 22"x36"

SHEET C-10 of 18 Sheets





SECTION "A"–"A"

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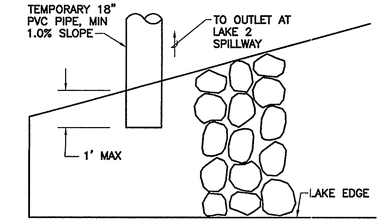
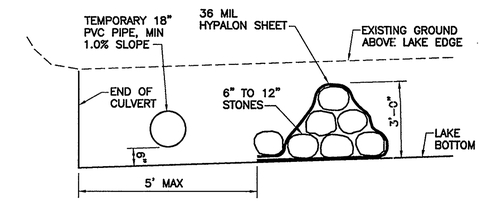


PLAN



ELEVATION

TEMPORARY LAKE 1 IMPOUNDMENT DETAIL

NOT TO SCALE

NOTES:

1. GRADING WORK SHALL ONLY BE PERFORMED ON DRY (NON–RAINING) DAYS.
2. THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL STRUCTURES UNTIL STABILIZATION HAS OCCURRED (EXCEPT WHERE STRUCTURES ARE SCHEDULED FOR REMOVAL). BEFORE FINAL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL REPAIR EROSION CONTROL STRUCTURES THAT ARE TO REMAIN AFTER STABILIZATION TO THEIR ORIGINAL CONDITIONS.
3. REFER TO PLANTING PLANS, SHEET L–4.

CONSTRUCTION SEQUENCE AND BEST MANAGEMENT PRACTICES:

1. CONSTRUCT TEMPORARY BYPASS PIPE (EXCEPT INLET).
2. CONSTRUCT TEMPORARY ROCK CHECK DAMS AS INDICATED ON PLAN.
3. CONSTRUCT TEMPORARY IMPOUNDMENT AND BYPASS PIPE INLET.
4. DEWATER AND REMOVE MUCK (DEBRIS/SILT) FROM LAKE 1. INITIALLY DEWATER LAKE 1 WITH A SUBMERSIBLE PUMP, PUMPING WATER INTO A WATER TRUCK. WATER IN THE TRUCK CAN BE DISPOSED OF BY GROUND ABSORPTION DISPERSAL OR DISPOSAL INTO AN EXISTING ON–SITE EROSION CONTROL BASIN. MUCK SHALL BE REMOVED VIA A VACUUM TRUCK AND DISPOSED OF AT AN IMPOUNDMENT CONSTRUCTED AT THE STOCKPILE SITE NEAR THE SOUTHWEST BOUNDARY (SEE SHEET C–3).
5. EXCAVATE STREAMBED CHANNEL IN LAKE 1 AND REMOVE ROCKS IN STREAMBED OF LAKE 1 UNTIL STREAMBED BOTTOM IS REACHED.
6. PLACE EXCESS ROCKS ON STREAMBED BOTTOM AS SHOWN ON SECTION "A"–"A" (THIS SHEET).
7. INSTALL NORTH AMERICAN GREEN C125 EROSION CONTROL MATTING OR APPROVED EQUAL OVER EXPOSED LAKE 1 BOTTOM (EXCEPT STREAMBED), AND APPLY HYDROMULCH/GRASS SEED/FERTILIZER MIXTURE OVER ALL MATTING SURFACES. REAPPLY HYDROMULCH MIXTURE DURING GROW–IN PERIOD AS NEEDED. PROVIDE LANDSCAPE PLANTING. SEE SHEET L–4 FOR PLANTING PLAN AND ADDITIONAL PLANTINGS.
8. REMOVE LAKE 1 ROCK CHECK DAM. CHECK DAM CAN BE REMOVED ONLY AFTER INSTALLATION OF LAKE 1 EROSION CONTROL MATTING. PRIOR TO REMOVAL OF THE TEMPORARY LAKE 1 ROCK CHECK DAM, ENSURE THAT ALL LOOSE DIRT TRAPPED ON THE CHECK DAM FABRIC HAS BEEN REMOVED PRIOR TO CHECK DAM DECONSTRUCTION. ROCK FROM THE CHECK DAM SHALL BE CAREFULLY REMOVED TO PREVENT UNDERLYING SOIL DISTURBANCE. CHECK DAM DECONSTRUCTION SHALL BE CAREFULLY DONE TO PREVENT DEBRIS AND SOIL FROM ENTERING STATE WATERS.
9. INSTALL TEMPORARY SILT FENCE BELOW LAKE 1 OUTLET.
10. EXCAVATE WATERFALL EDGE OF LAKE 1. EXCAVATE BY PULLING UPWARD FROM LAKE 1, PREVENTING DEBRIS AND SOIL FROM FALLING INTO LAKE 2 (STATE WATERS).
11. PRIOR TO REMOVAL OF THE TEMPORARY LAKE 2 ROCK CHECK DAM, ENSURE THAT ALL LOOSE DIRT TRAPPED ON THE CHECK DAM FABRIC HAS BEEN REMOVED PRIOR TO CHECK DAM DECONSTRUCTION. ROCK FROM THE CHECK DAM SHALL BE CAREFULLY REMOVED TO PREVENT UNDERLYING SOIL DISTURBANCE. CHECK DAM DECONSTRUCTION SHALL BE CAREFULLY DONE TO PREVENT DEBRIS AND SOIL FROM ENTERING STATE WATERS.
12. REMOVE TEMPORARY LAKE 2 ROCK CHECK DAM.
13. REMOVE LAKE 2 SPILLWAY AND EXISTING DRAIN PIPE. CAREFULLY DECONSTRUCT SPILLWAY TO PREVENT SOIL DISTURBANCE. IF SOIL MUST BE MOVED, DO NOT ALLOW SOIL TO ENTER STATE WATERS.
14. REMOVE TEMPORARY IMPOUNDMENT AND BYPASS LINE. APPLY HYDROMULCH MIXTURE TO RESTORED PIPE REMOVAL AREA. SEE DETAIL SHEET C–8.

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		REV. APRIL 15, 2005		

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Honolulu, Hawaii 96814

PILA'A 400
REMEDIATION PLAN - PACKAGE 2

LAKE 1 RESTORATION

Designed By: C.K.L. Drawn By: C.K.L., G.Y.
Project No. 2004.33.1900 Date: MARCH, 2004
Approved By:

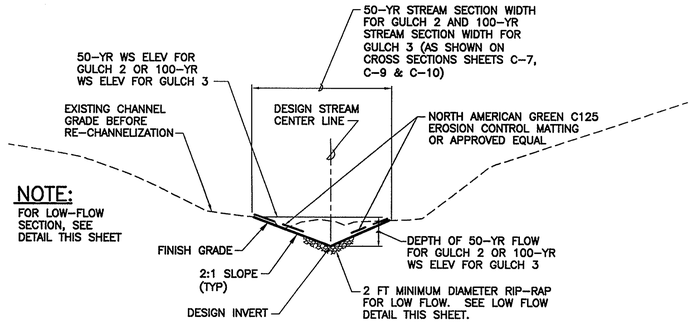
Date
Date
Date

FILE	POCKET	FOLDER	NO.

Mon, 12 Dec 2005 – 12:26pm
M:\PILA'A\2004331900\CAD\Sheets\C-11-121605.dwg

HALF SIZE TRIM LINE FOR 11"x17"

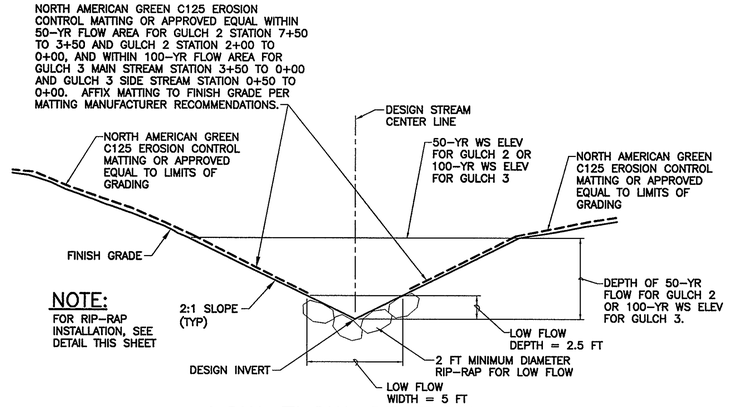
Trim: 22"x36"



TYPICAL SECTION

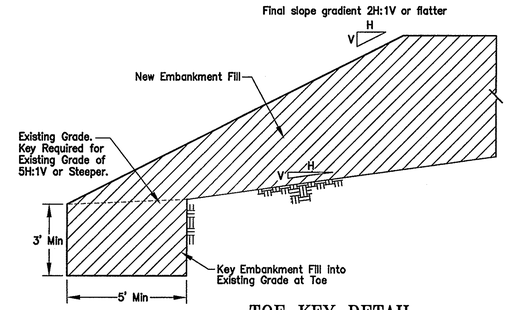
GULCH 2 STATION 7+50 TO 3+50,
GULCH 2 STATION 2+00 TO 0+00,
GULCH 3 MAIN STREAM STATION 3+50 TO 0+00, AND
GULCH 3 SIDE STREAM STATION 0+50 TO 0+00

NOT TO SCALE



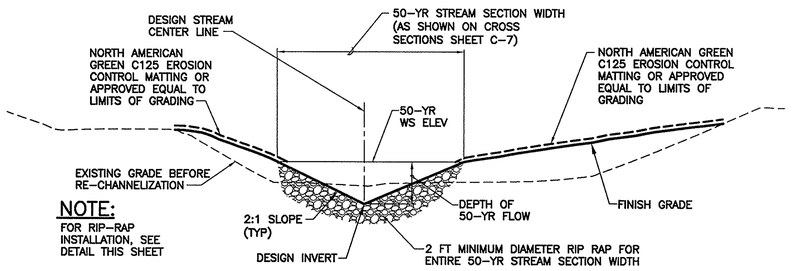
LOW FLOW SECTION

NOT TO SCALE



TOE KEY DETAIL

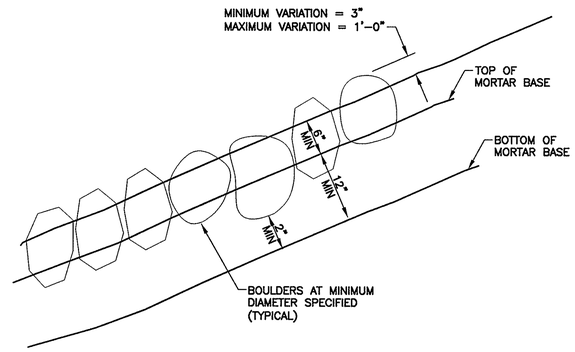
NOT TO SCALE



TYPICAL SECTION

GULCH 2 STATION 3+50 TO 2+00

NOT TO SCALE



RIP-RAP INSTALLATION DETAIL

NOT TO SCALE

Rev	Date	Description	Eng	App
△				
△		CONSENT DECREE VERSION: DECEMBER 16, 2005		
△		REV. APRIL 15, 2005		
△		REV. MARCH 23, 2005		
△		REV. FEBRUARY 04, 2005		

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

APRIL 30, 2006
EXPIRATION DATE OF THE LICENSE

LELAND Y.S. LEE
LICENSED PROFESSIONAL ENGINEER
No.4912-C
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 2

MISCELLANEOUS DETAILS

Designed By: C.K.L. Drawn By: C.K.L., G.Y.
Project No. 2004.33.1900 Date: MARCH, 2004

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Date

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