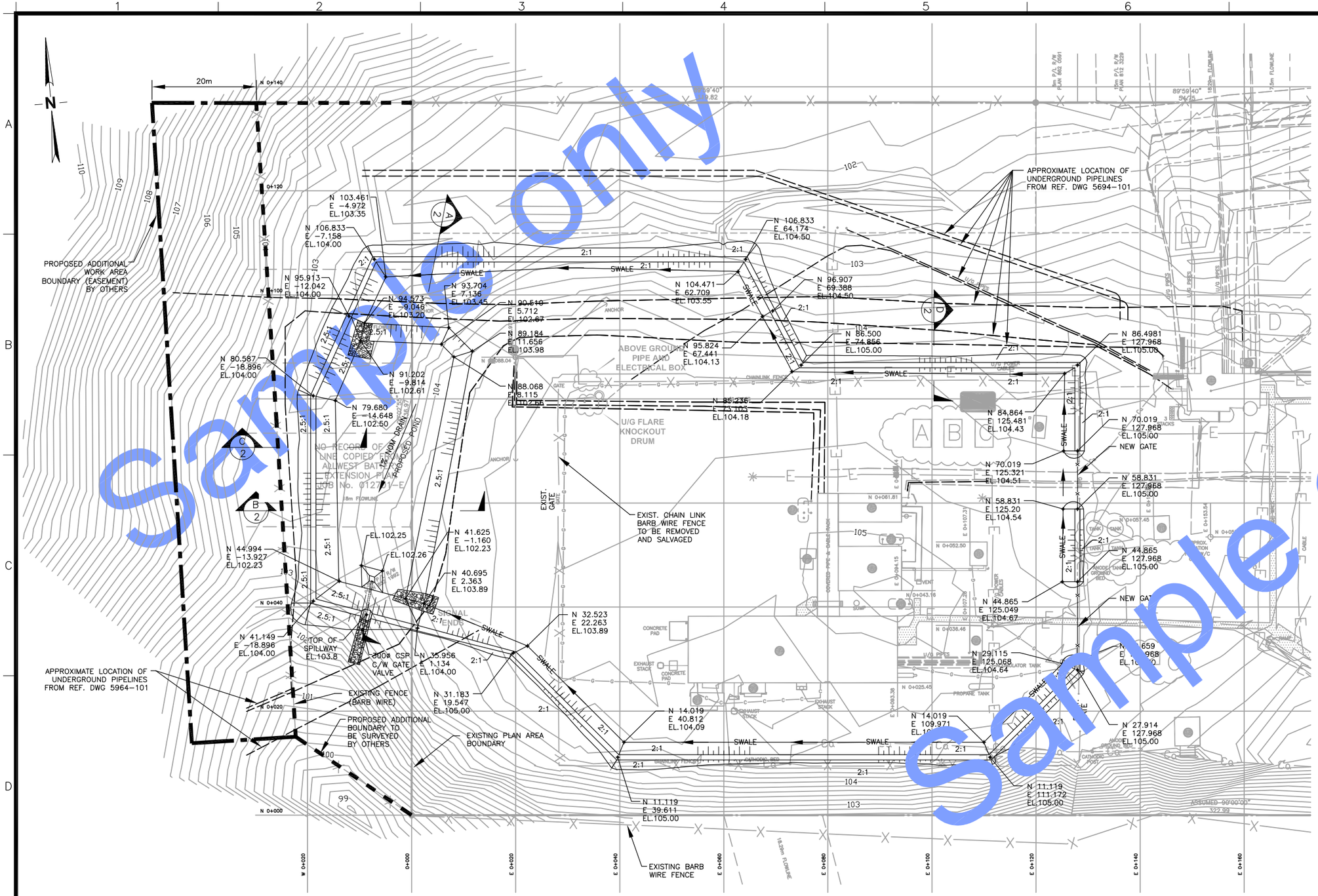


GENERAL NOTES

1. DIMENSIONS IN METRES UNLESS NOTED OTHERWISE
2. CONTRACTOR TO CONTACT ALBERTA FIRST CALL (1-800-242-3447) TO LOCATE ADDITIONAL BURIED UTILITIES THAT MAY AFFECT THE WORKS
3. GROUND DISTURBANCE PERMITS SHALL BE OBTAINED FROM EOG RESOURCES INC PRIOR TO ANY EXCAVATION
4. ALL BURIED UTILITIES SHOWN ON THE PLANS OR RESULTING FROM ALBERTA FIRST CALL IN THE VICINITY OF OR CROSSING THE PROPOSED WORKS SHALL BE EXPOSED VIA HYDROVAC. ANY DEVIATIONS TO THE GRADING RESULTING FROM THE EXPOSURE OF UTILITIES SHALL BE APPROVED BY THE ENGINEER
5. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM EOG RESOURCES INC PRIOR TO OPERATING HEAVY EQUIPMENT, EXCAVATING OR PLACING FILL OVER GAS OR OTHER PIPELINES AND BURIED UTILITIES WITHIN THE PROJECT AREA
6. THESE DRAWINGS WERE PREPARED FOR THE EXCLUSIVE USE OF EOG RESOURCES INC. AND ARE BASED ON SURVEYS AND/OR DRAWINGS AND DATA PREPARED BY OTHERS. ECOVENTURE INC. AND ECOSPAN SOLUTIONS INC. SHALL ACCEPT NO RESPONSIBILITY FOR THE ACCURACY OF INFORMATION PROVIDED BY OTHERS THAT MAY BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN AS REQUIRED TO COMPLETE THE WORKS.

DESIGN

1. DESIGN INFLOW RATE AND MINIMUM POND STORAGE VOLUME IS BASED ON A 1:10 YR RAINFALL EVENT WITH A 24 HOUR DURATION
2. DRAINANGE AREA = 11,000 SQ.KM
3. DESIGN INFLOW RATE = 0.008 CMS
4. MINIMUM DESIGN POND STORAGE VOLUME = 690 CU.M
5. DESIGN OPERATING DEPTH OF THE POND = 1.0 M AT AN ELEVATION OF 103.5 M (LOCAL SURVEYED ELEVATION)
6. SWALE SHALL BE GRADED TO A MINIMUM 0.5% GRADIENT

MATERIALS

1. ALL BORROW OR INSITU MATERIAL USED FOR THE CONSTRUCTION OF BERM, SWALE AND POND AREAS SHALL BE A CLAY TO HIGH PLASTIC CLAY OR CLAY TILL MATERIAL COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT AND ACHIEVE A HYDRAULIC CONDUCTIVITY LESS THAN 1X10-7 CM/S. THE CONTRACTOR SHALL PROVIDE COMPACTION AND HYDRAULIC CONDUCTIVITY TESTING AS DEEMED NECESSARY BY THE ENGINEER
2. ROCK RIPRAP SHALL BE CLASS 1M OR GREATER AS PER ALBERTA TRANSPORTATION SPECIFICATIONS OR AS OTHERWISE APPROVED BY THE ENGINEER
3. CORRUGATED STEEL PIPE SPECIFIED SHALL BE HOT DIP GALVANIZED WITH A COATING 610 g/sq.m. IN ACCORDANCE WITH ASTM A123 OR A153 AS APPLICABLE
4. SHOP DRAWINGS AND DETAILS OF THE SLUICE GATE VALVE STEM AND FRAME SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION
5. THE CONTRACTOR SHALL SUBMIT AN AGRONOMIC SEED MIX, COMPATIBLE FERTILIZER AND SUITABLE APPLICATION RATE FOR THE SEEDING AREAS INDICATED ON THE DRAWING OR AS APPROVED BY THE ENGINEER AND EOG RESOURCES INC
6. THE CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING CHAIN LINK/SECURITY FENCE AND THEN REINSTALL AND SUPPLEMENT ADDITIONAL CHAIN LINK/SECURITY FENCE, GATES AND POSTS ALONG THE TOP PERIMETER OF THE BERMS AFTER GRADE CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER AND EOG RESOURCES INC.

Sample only

REV	DATE	DESCRIPTION	ENG	LD	BY	CHK
2	08.27.09	ISSUE FOR CONSTRUCTION	CW	XX	AA	CW
1	08.04.09	FOR CLIENT REVIEW	CW	XX	AA	CW
0	07.27.09	FOR CLIENT REVIEW	CW	XX	AA	CW

STAMPS

PERMIT TO PRACTICE
ECOSPAN SOLUTIONS INC.
Signature _____
Date _____
PERMIT NUMBER: P10308
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

CLIENT
eog resources
energyopportunitygrowthenergyopportunitygrowth

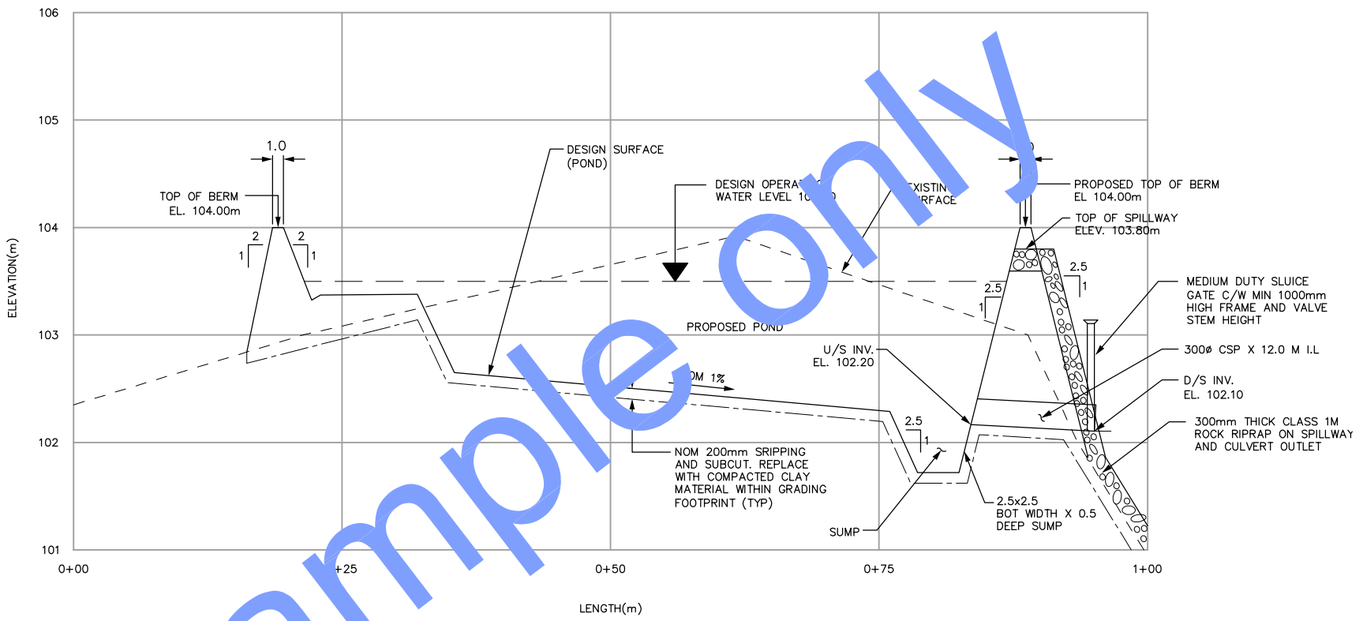
7105 -104 Street
Edmonton, Alberta T6E 4B7
Ph: (780)432-2490
Fax: (780)432-2491
www.ecospan.ca

PROJECT DESC.
EOG HIGHVALE GAS PLANT
IRCS DESIGN

DRAWING DESC.
FINISH GRADING PLAN

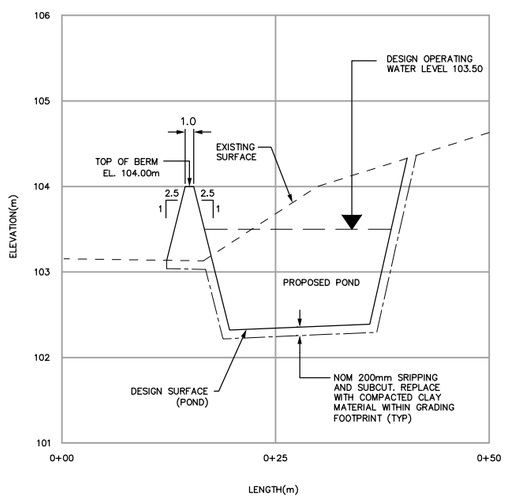
AUTOCAD 2007 FILENAME:
ADI-100-2009

SCALE		DATE (MM-DD-YY)	DRAWING No.	JOB #	REV
1:750	BASED ON A1 (806 x 574) SHEET	08-27-09	FIGURE 2		2



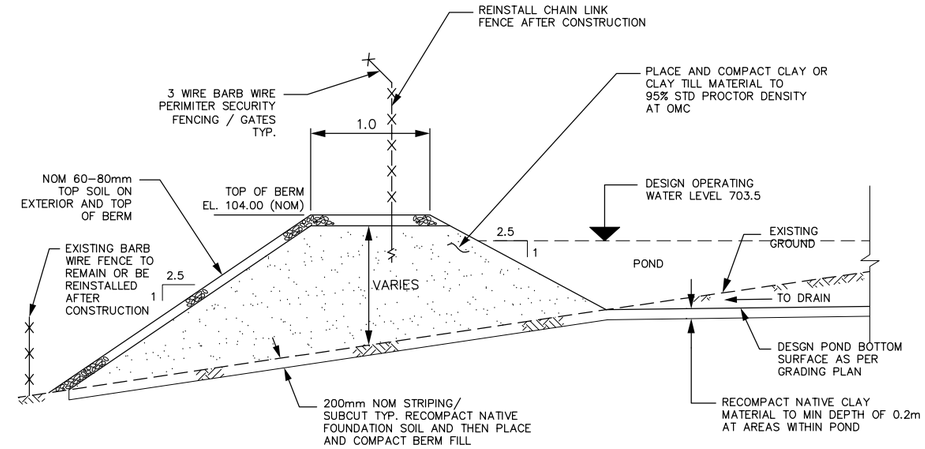
A / 1 SECTION–TYPICAL POND SECTION

NTS



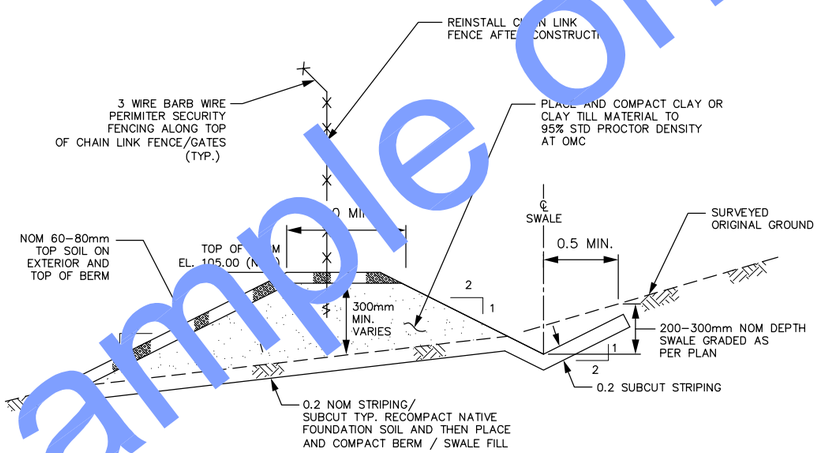
B / 1 SECTION–TYPICAL POND SECTION

NTS



C / 1 SECTION–TYPICAL BERM SECTION

(APPLIES TO AREAS ALONG PERIMETER OF POND) NTS



D / 1 SECTION–TYPICAL BERM/SWALE SECTION

(APPLIES TO AREAS OUTSIDE OF POND) NTS

Sample only

REV	DATE	DESCRIPTION	ENG	LD	BY	CHK
2	08.27.09	ISSUE FOR CONSTRUCTION	CW	XX	AA	CW
1	08.04.09	FOR CLIENT REVIEW	CW	XX	AA	CW
0	07.27.09	FOR CLIENT REVIEW	CW	XX	AA	CW

STAMPS

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Signature
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SCALE N.T.S BASED ON A1 (806 x 574) SHEET
DATE (MM–DD–YY) 08–27–09

PROJECT DESC.
EOG HIGHVALE GAS PLANT
IRCS DESIGN

DRAWING DESC.
TYP. POND SECTION AND BERM DETAILS

AUTOCAD 2007 FILENAME:
ADI–101–2009

DRAWING No. FIGURE 3
JOB #
REV 2