

# BREADNER PIT

## EXISTING FEATURES

### PAGE 1 OF 4

THIS PLAN IS PREPARED FOR SUBMISSION TO THE MINISTRY OF AGRICULTURE, FISHERIES AND FORESTRY IN CONNECTION WITH AN APPLICATION FOR A CONCESSION FOR MINERAL RESOURCE EXTRACTION ABOVE THE GROUND WATER TABLE.

**PIT LOCATION:**  
PART LOT 28 CONCESSION 11  
TOWNSHIP OF COLLINGSWOOD  
COUNTY OF GREY

**APPLICANT:**  
Mr. Dennis Breasler  
R.R. #1  
Clarkburg, ON  
N0H 1J0

**PREPARED BY:**  
**Cuesta Planning Consultants Inc.**  
191 First Avenue West  
Owen Sound, Ontario  
N4H 4B9  
Tel: 519 326 8900  
Fax: 519 322 4663  
E-mail: csm@cuplan.com  
www.cuplan.com

**B. Ward**  
Date: *Apr 26, 2011*

THIS PLAN HAS BEEN PREPARED UNDER THE DIRECTION OF AND CERTIFIED BY A PERSON APPROVED BY THE MINISTRY OF NATURAL RESOURCES AND FORESTRY (AS PER SECTION 16) OF THE AGRICULTURE RESOURCES ACT.

*R. Stover*  
R. Stover and Associates Inc.  
Date: *Apr 26, 2011*



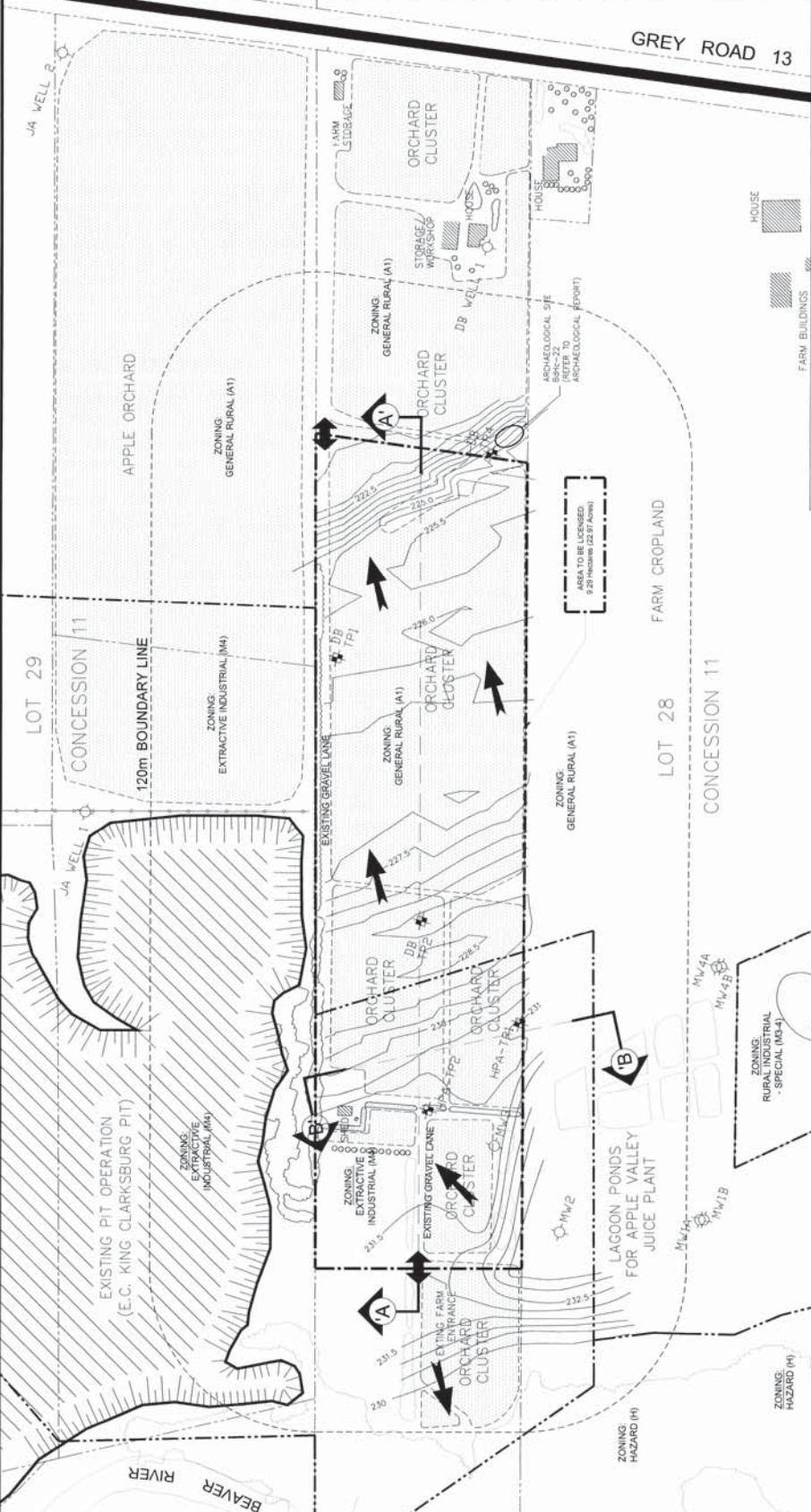
Project No.	2819	Date By	BPW	DATE	March 26, 2011 - 11:24am
Drawing No.	2819-01-EX	Scale	1:1500	Author	B. Ward
Client	Mr. Dennis Breasler	Checker	R. Stover	Reviewer	R. Stover
Project Name	Breadner Pit	Scale	1:1500	Author	B. Ward

- #### LIST OF REFERENCES
1. ALL MEASUREMENTS SHOWN ON THIS PLAN ARE IN METRES.
  2. TOTAL AREA TO BE LICENSED: 3.29 ha (22.27 acres)
  3. TOTAL AREA OF APPLICANT: 3.29 ha (25.60 acres)
  4. REHABILITATION OF THE SITE WILL REMAIN TO BE USED FOR SOIL OR OVERSIGHT ON SITE.
  5. THERE ARE NO EXISTING STOCKPILES OR BERMS CONSISTING OF SOIL OR OVERSIGHT ON SITE.
  6. THERE ARE NO AGGREGATE OR RECYCLABLE MATERIALS ON SITE.
  7. THERE ARE NO FUEL STORAGE AREAS OR LEAKY AREAS ON SITE.
  8. THERE ARE NO SHORFANT NATURAL FEATURES ON SITE OR WITHIN 100 METRES OF THE SITE.
  9. THE INFERRED WATER TABLE ELEVATION WITHIN THE PROPERTY IS ESTIMATED TO BE BETWEEN 219.1 - 223.0 m ABOVE SEA LEVEL (ASL) (REFER TO HYDROGEOLOGICAL REPORT USED AS REF).
  10. THE SITE IS AN EXISTING FARM APPLE ORCHARD.
  11. THERE IS NO EXISTING FENCING ON THE SITE.

- #### NOTES
1. THIS SITE PLAN IS PREPARED FOR SUBMISSION TO THE MINISTRY OF AGRICULTURE, FISHERY AND FORESTRY IN CONNECTION WITH AN APPLICATION FOR A CONCESSION 11 CLASS A LICENSE FOR AGGREGATE EXTRACTION AND REHABILITATION OF THE SITE ABOVE THE GROUND WATER TABLE.
  2. APPLICANT: MR. DENNIS BREASLER, R.R. #1, CLARKBURG, ON, N0H 1J0.
  3. TOPOGRAPHIC INFORMATION WAS OBTAINED BY FIELD SURVEY BY GENIVAR CONSULTANTS LP ON APRIL 9, 2008.
  4. HYDROGEOLOGICAL INFORMATION WAS OBTAINED FROM THE CONSULTANTS LP DATED FEBRUARY, 2010.
  5. THE INFERRED WATER TABLE ELEVATION WITHIN THE PROPERTY IS ESTIMATED TO BE BETWEEN 219.1 - 223.0 m ABOVE SEA LEVEL (ASL) (REFER TO HYDROGEOLOGICAL REPORT USED AS REF).
  6. THE SITE IS AN EXISTING FARM APPLE ORCHARD.
  7. THERE IS NO EXISTING FENCING ON THE SITE.

#### LEGEND

- Boundary of Licensed Area
- 120 metre Limit from Site
- Lot Line
- Zoning Boundary
- Building / Structure / Residence
- Woodland or Hedgerow
- Orchard Planting Area
- Existing Pit Operation
- Existing Pit Face
- Roadway (County Road 13)
- Contour Lines, 0.5 metre interval
- Private Lane-way (Gravel Surface)
- Existing Fence (Post and Wire)
- Cross Section Location
- Applicant Test Pit # and Location - May 30, 2008
- Genivar Test Pit # and Location - July 14, 2009
- Existing Monitoring Well Location (1998 Installation)
- General Direction of Surface Drainage
- Entrance / Exit
- Tree
- DB - TP1
- HPA - TP2
- MW2
- MV4A
- MV4B
- MV7A
- MV7B



#### WATER LEVEL INFORMATION

WATER BODY LOCATION	GROUND ELEVATION (M) (ASL)	WATER TABLE ELEVATION (M) (ASL)	DATE	PROBABLE USE	GROUND ELEVATION (M) (ASL)
WELL 1	233.700	231.400	APRIL 9, 2008	AGGREGATE EXTRACTION	238.620
WELL 2	231.200	229.100	APRIL 9, 2008	AGGREGATE EXTRACTION	238.620
JA WELL 1	221.100	220.100	APRIL 9, 2008	AGGREGATE EXTRACTION	238.620
JA WELL 2	223.500	219.500	APRIL 9, 2008	AGGREGATE EXTRACTION	238.620
JA WELL 3	219.000	218.000	APRIL 9, 2008	AGGREGATE EXTRACTION	238.620
HPA TP 2	221.000	220.000	APRIL 9, 2008	AGGREGATE EXTRACTION	238.620
HPA TP 1	223.000	222.000	APRIL 9, 2008	AGGREGATE EXTRACTION	238.620

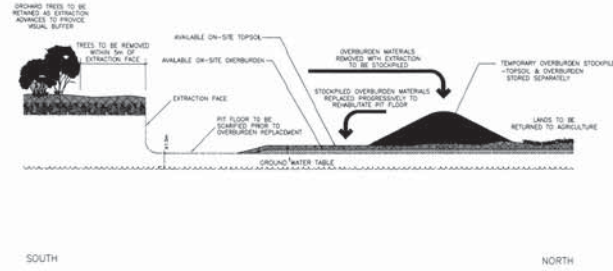


### LEGEND

- Boundary of Licensed Area
- Limit of Extraction
- 120 metre Limit from Site
- Lot Line
- Building / Structure / Residence
- Woodland or Hedgerow
- Tree
- Roadway (County Road 13)
- Private Laneway (Gravel Surface)
- Existing Pit Operation
- Existing Pit Face
- Final Elevation (Anticipated)
- Extraction Setbacks
- Entrance / Exit
- Direction of Surface Drainage
- Cross Section Location
- Final Rehabilitated Contours, 0.5 metre interval

- ### PROGRESSIVE AND FINAL REHABILITATION
1. THE TOTAL AREA TO BE EXTRACTED AND REHABILITATED IS APPROXIMATELY 9.87 HECTARES (24.4 ACRES).
  2. AS EXTRACTION PROGRESSES SOUTHWEST, MECHANICAL REPAIRS OF THE PIT FLOOR MAY BE REQUIRED TO MAINTAIN CONNECTIONS TO THE PIT FLOOR AND BE COVERED BY FACE SHALL BE COVERED WITH AVAILABLE OVERBURDEN, SUBSID, AND TOPSOIL AND REEDED WITH A SUITABLE GRAVEL LEASURE BEDDING SHOULD BEDDING FAIL, THE AREA SHALL BE REEDED AS SOON AS POSSIBLE.
  3. THE SITE SHALL BE PROGRESSIVELY REHABILITATED TO FUNKLAND OF SIMILAR SIZE AND CAPABILITY AS EXISTING PITS.
  4. PROGRESSIVE REHABILITATION SHALL PROCEED IN A NORTH TO SOUTH DIRECTION FOLLOWING EXTRACTION. REHABILITATION SHALL OCCUR AS LIMITS OF EXTRACTION DEPTH ARE REACHED AND THE RESIDUE IS REEDED. TOPSOIL, SUBSID, AND OVERBURDEN MATERIALS IN ADVANCE OF THE EXTRACTION WORKSOUTH SHALL BE PLACED IN THE AREA IMMEDIATELY FOLLOWING THE DEPLETED EXTRACTION AREA TO THE NORTH. REFER TO SCHEDULE FOR PROGRESSIVE EXTRACTION AND REHABILITATION DETAILS.
  5. AS EXTRACTION AND PROGRESSIVE SOUTH SIDE SLOPE AND PIT FLOOR AREA NOT REHABILITATED AS PART OF THE ACTIVE OPERATION WHERE EXTRACTION HAS NOT BEEN COMPLETED SHALL BE REHABILITATED.
  6. THE REHABILITATION OBJECTIVE FOR THE SITE IS TO REPLACE AND REBUILD THE EXISTING AGRICULTURAL CROP PRODUCTION. AGRICULTURAL PLANTING WILL PROGRESS IN A NORTH TO SOUTH MANNER SIMILAR TO THE ACTS OF REHABILITATION.
  7. WHERE EXTRACTION IS COMPLETED, ANY REMAINING SLOPES WILL BE BACKFILLED WITH ON-SITE OVERBURDEN, SUBSID AND A MINIMUM 10% RATIO OF AGRICULTURAL PUM TO 1% TOPSOIL, WISE.
  8. THE INTERNAL HALL ROUTE WILL REMAIN TO PROVIDE ACCESS FOR AGRICULTURAL MACHINERY TO THE INTERIOR OF THE SUBJECT SITE.
  9. MAJOR GRADING OF THE SITE AREA MAY BE REQUIRED TO REHABILITATE SLOPES.
  10. TOPSOIL AND SUBSID MATERIALS WILL NOT BE IMPORTED TO THE PIT.
  11. ALL EQUIPMENT AND MACHINERY SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF EXTRACTION AND REHABILITATION.
  12. SURFACE WATER WILL INFILTRATE THROUGH THE REHABILITATED PIT FLOOR.

**FIGURE 1:**  
EXTRACTION AND PROGRESSIVE REHABILITATION



# BREADNER PIT

## REHABILITATION PLAN

### PAGE 3 OF 4

THIS PLAN IS PREPARED FOR SUBMISSION TO THE MINISTRY OF NATURAL RESOURCES IN CONJUNCTION WITH AN APPLICATION FOR A CLASS 'A' CATEGORY 3 LICENSE FOR MINERAL RESOURCE EXTRACTION ABOVE THE GROUND WATER TABLE.

**PIT LOCATION:**  
PART LOT 28, CONCESSION 11  
GEOGRAPHIC TOWNSHIP OF COLLINGWOOD  
TOWN OF THE BLUE MOUNTAINS  
COUNTY OF GREY

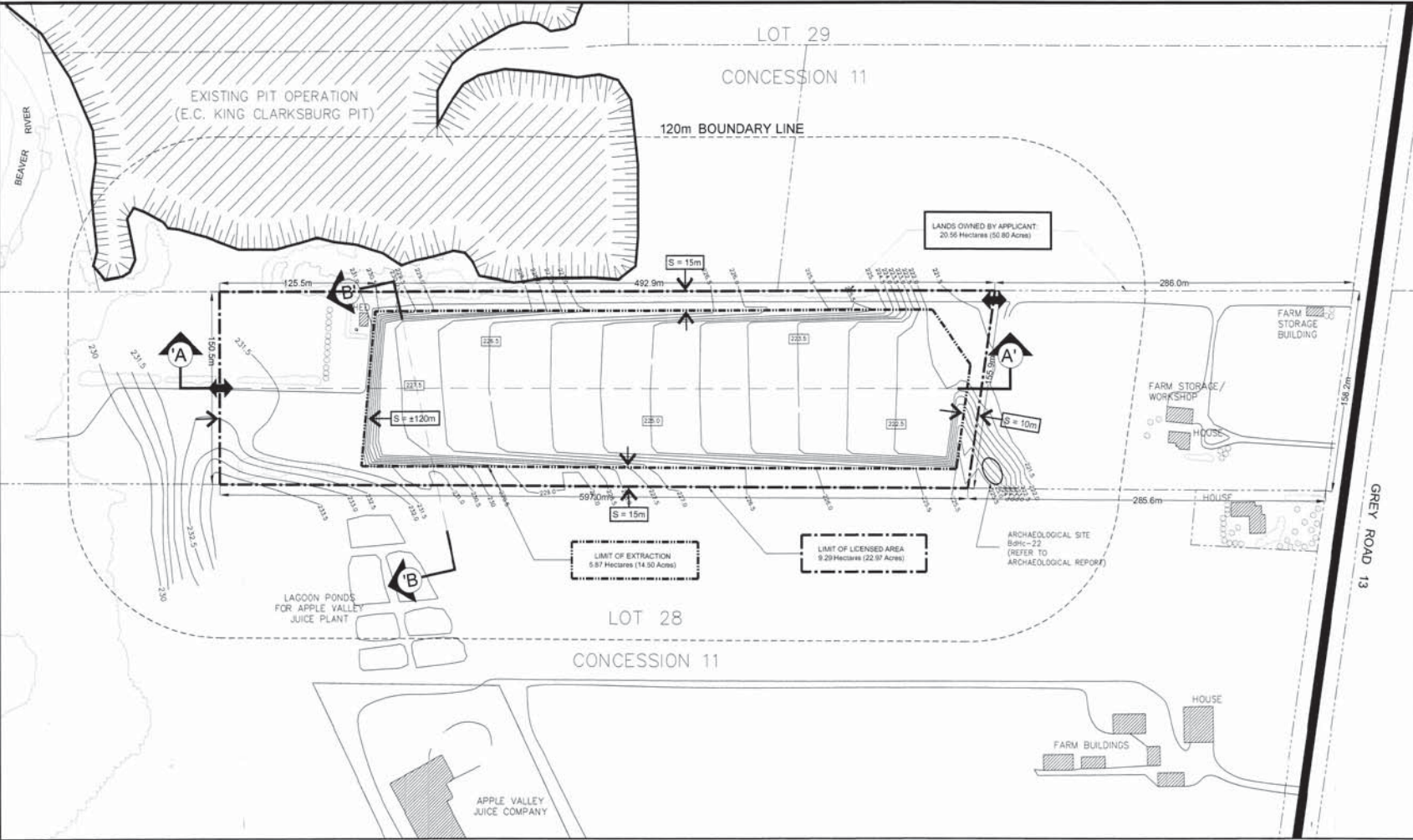
**APPLICANT:**  
Mr. Dennis Breadner  
R.R. #1  
Clarksburg, ON  
N0H 1J0

**PREPARED BY:**  
**Cuesta** PLANNING CONSULTANTS INC.  
Urban and Rural Planning and Resource Management  
878 First Avenue West (519) 372-8790 e-mail: cueda@cuestaplanning.com  
Owen Sound, Ontario Fax: (519) 372-8863  
N4K 4K5 1-800-663-7892  
B. Ward Date: Apr 28, 2011

THIS PLAN HAS BEEN PREPARED UNDER THE DIRECTION OF AND CERTIFIED BY A PERSON APPROVED BY THE MINISTRY OF NATURAL RESOURCES (AS PER SECTION 8(4) OF THE AGGREGATE RESOURCES ACT).  
R. Stovel Date: Apr 26, 2011  
Stovel and Associates Inc.



SCALE 1:1500  
0 10 25 50 100 Metres



NO.	DATE	REVISION	BY	CHK.	APP.

Project No.	Des. By	PLOTTED
2819	BPW	March 28, 2011 - 12:35pm
Drawing No.	2819-03-REHAB	

# BREADNER PIT

## CROSS SECTIONS

### PAGE 4 OF 4

THIS PLAN IS PREPARED FOR SUBMISSION TO THE MINISTRY OF NATURAL RESOURCES IN CONJUNCTION WITH AN APPLICATION FOR A CLASS 'A', CATEGORY 3 LICENSE FOR MINERAL RESOURCE EXTRACTION ABOVE THE GROUND WATER TABLE.

#### PIT LOCATION:

PART LOT 28, CONCESSION 11  
GEOGRAPHIC TOWNSHIP OF COLLINGWOOD  
TOWN OF THE BLUE MOUNTAINS  
COUNTY OF GREY

#### APPLICANT:

Mr. Dennis Breadner  
R.R. #1  
Clarksburg, ON  
N0H 1J0

#### PREPARED BY:

**Cuesta** PLANNING CONSULTANTS INC.  
Urban and Rural Planning and Resource Management

878 First Avenue West  
Owen Sound, Ontario  
N4K 4K5  
(519) 372-6792  
Fax: (519) 372-9653  
1-800-633-7992  
e-mail: cuestas@cestaplanning.com

B. Ward

Date

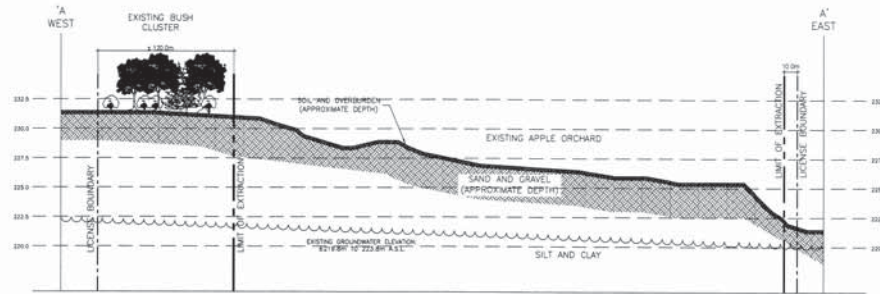
THIS PLAN HAS BEEN PREPARED UNDER THE DIRECTION OF AND CERTIFIED BY A PERSON APPROVED BY THE MINISTRY OF NATURAL RESOURCES (AS PER SECTION 84) OF THE AGGREGATE RESOURCES ACT.

R. Stovel  
Stovel and Associates Inc.

Date

### SECTION 'A - A'

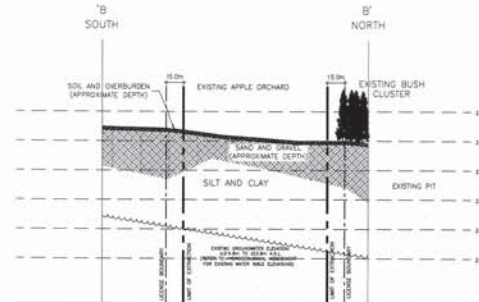
#### EXISTING FEATURES



SCALES  
1 : 2000 HORIZONTAL  
1 : 200 VERTICAL

### SECTION 'B - B'

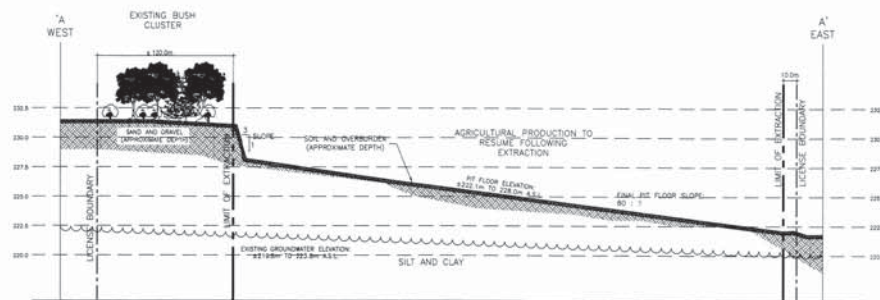
#### EXISTING FEATURES



SCALES  
1 : 2000 HORIZONTAL  
1 : 200 VERTICAL

### SECTION 'A - A'

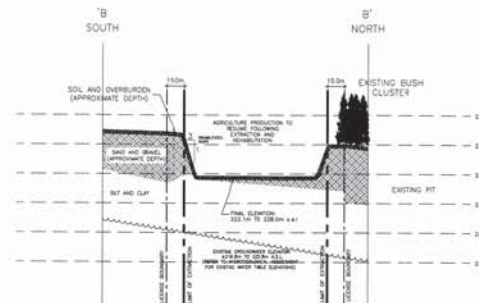
#### REHABILITATION



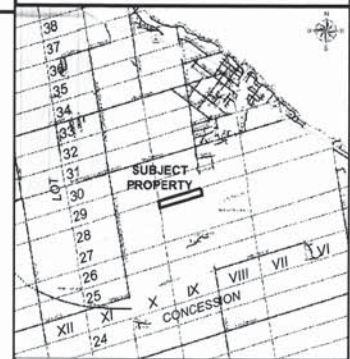
SCALES  
1 : 2000 HORIZONTAL  
1 : 200 VERTICAL

### SECTION 'B - B'

#### REHABILITATION



SCALES  
1 : 2000 HORIZONTAL  
1 : 200 VERTICAL



DATE	REVISION	BY	DATE

Project No.	Dev. By	PLOTTED:
2819	BPW	March 26, 2011 - 12:58pm
Drawing No.		
2819-04-SECTIONS		