Notice of Alteration Form



Client File No.: 5,838.00	Environment Act Licence No. : Pending			
Legal name of the Licencee: New Rosedale Holding Co. Ltd.				
Name of the development: Wastewater Treatment Lagoon				
Category and Type of development per Classe	es of Development Regulation:			
Waste Treatment and Storage	Wastewater treatment lagoons			
Licencee Contact Person: James Maendel				
Mailing address of the Licencee: Box 460				
	Province: MB PostalCode: R0K 3B7			
Phone Number: (204) 252-2053 F	ax: Email: jerry@nrfeedmill.com			
Name of proponent contact person for purpos Burns Maendel Consulting Engineers Ltd.	ses of the environmental assessment (e.g. consultant): (BMCE)			
Phone: (204) 728-7364 Mailing address: 1331 Princess Ave, Brandon, MB R7A 0F Fax: (204) 728-4418				
Email address: d.burns@bmce.ca				
Description of Alteration (max 90 characters):				
	e-lined lagoon to be constructed on SE 21-18-11 WPM ing restriction, Glenella Zoning by-law No. 6-2004.			
Alteration fee attached: Yes: No:	\checkmark			
If No, please explain: No fee required for alte	erations proposed prior to the issuance of License.			
Date: 07/20/2016 Signatur	1 Cums			
 A complete Notice of Alteration (NoA) consists of the following components: ✓ Cover letter ✓ Notice of Alteration Form ✓ 4 hard copies and 1 electronic copy of the NOA detailed report (see "Informal Bulletin - Alteration to Developments with Environment Act Licences") ↓ \$500 Application fee, if applicable (payable to the Minister of Finance) 	Formore information: Phone: (204) 945-8321			



1331 Princess Avenue Brandon, MB R7A 0R4 Tel: 204.728.7364 Fax: 204.728.4418 www.bmce.ca

July 20, 2016

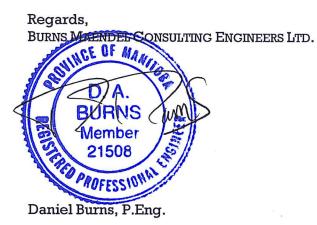
Director, Environmental Approvals Branch Manitoba Conservation and Water Stewardship Suite 160, 123 Main Street Winnipeg, MB R3C 1A5

Reference: Notice of Alteration Report Domestic Wastewater Lagoon Municipality of Glenella-Lansdowne, MB

Dear Director,

Burns Maendel Consulting Engineers Ltd. would like to submit a Notice of Alteration Report for the proposed Domestic Wastewater Lagoon in the Municipality of Glenella-Lansdowne on behalf of New Rosedale Colony. This Domestic Wastewater Lagoon was previously proposed to be constructed on SE 21-18-11 WPM, a restricted area according to the RM zoning bylaw. Therefore, BMCE is proposing to relocate the lagoon to NW 16-18-11 WPM.

All of the information relating to the Notice of Alteration has been compiled in the attached document. Four (4) hard copies of our notice have been included, as well as one (1) electronic copy. If you have any questions or comments, please don't hesitate to contact the undersigned.



Director, Environmental Assessment and Licensing Branch Manitoba Conservation Suite 160, 123 Main Street Winnipeg, MB R3C 1A5

Notice of Alteration Report

Domestic Wastewater Lagoon Municipality of Glenella-Lansdowne, MB

Submitted by:

Burns Maendel Consulting Engineers Ltd. 1331 Princess Ave. Brandon, MB R7A 0R4 Tel: 204.728.7364 Fax: 204.728.4418

On behalf of:

James Maendel New Rosedale Holding Co. Ltd. Box 460 Portage La Prairie, MB ROK 3B7 Tel: 204.252.2053

July 20, 2016





Standard Limitations

This report was prepared by Burns Maendel Consulting Engineers Ltd. (BMCE) for the account of the New Rosedale Holding Co. Ltd. (the Client). The disclosure of any information contained in this report is the sole responsibility of the Client. The material in this report reflects BMCE's best judgment in light of the information available to it at the time of preparation. Should this report be used by a third party, any reliance or decisions made based on this report are the responsibility of such third party. BMCE accepts no responsibility for damages, if any, suffered by a third party as a result of decisions made or actions based on this report. BMCE makes no representation concerning the legal significance of the findings or the information contained within this report.



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1. Introduction and Background

New Rosedale Colony (legal title New Rosedale Colony Holding Co. Ltd.) retained BMCE to aid in the site planning for a daughter colony, yet to be established. This includes the design of a new domestic wastewater lagoon and corresponding environmental approvals.

Following the generation and submission of an Environment Act Proposal for the new lagoon, prior to approval, BMCE noted that the proposed location for the lagoon, SE 21-18-11 WPM, is designated AR2 – Restricted Agricultural Zone, denying lagoon construction in this area. This was confirmed with comments from the Environmental Approvals Branch on July 18, 2016.

After discussions with the Colony, BMCE proposes to relocate the lagoon to NW 16-18-11 WPM, closer to the proposed daughter colony site. The new location is zoned AG – Agricultural General Zone according to the RM of Glenella Zoning By-Law No. 6-2004.

2. Description of Proposed Changes

The following is a summary of the lagoon components affected by the proposed relocation. For description of the wastewater collection system, water source, sealed drawings, sizing parameters, geomembrane liner details, facility operations, and seasonal maintenance, please refer to the Environment Act Proposal submitted by BMCE dated April 14, 2016.

2.1. Certificate of Title

Refer to Appendix B. The legal landowner is New Rosedale Colony Holding Co. Ltd.

2.2. Legal Land Description, Map of Proposed Development

The legal land description where the domestic wastewater lagoon is proposed to be relocated is NW 16-18-11 WPM. For the map of the proposed development including the previous lagoon location and preliminary layout of the colony site, refer to Appendix A.

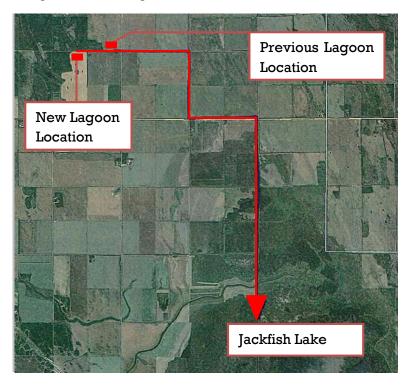
2.3. Discharge Route

The relocated lagoon is to be constructed adjacent to Road 104 N on the north side of the quarter section. The new proposed discharge point is into the south side road ditch.

The relocated lagoon would extend the discharge route 0.8 km to the west along Road 104 N. Effluent will continue to be conveyed east along the grid road ditch, connecting to the Alonsa Drain and Jackfish Lake, as previously planned.



Figure 1: Discharge Route



3. Description of Pre-Development Environment

3.1. Land Use

The current land use is cultivated farmland. New Rosedale Colony is actively using this land to grow crops. Zoning is currently designated as Agricultural General Zone (AG), in which a lagoon is a permitted use.

3.2. Topography

The location of the lagoon will be on the north side of the quarter section, to the east of a forested area. The land is relatively flat, with a gradual slope to the east. This will help ensure storm water runoff is drained away from the lagoon.

3.3. Soil Conditions

The soil stratigraphy in the upper 4.7 m within or close to the proposed relocated lagoon was classified as topsoil followed by glacial till until auger refusal. For detailed information on soil types and layers, refer to the Environment Act Proposal submitted by BMCE on April 14, 2016. Which contains borehole logs for the proposed location as well as the previous location.



3.4. Groundwater

No ground water was observed during drilling.

3.5. **Protected or Endangered Species**

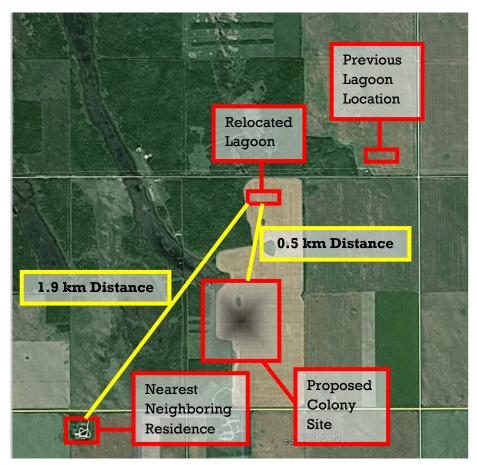
The Manitoba Conservation Data Center was contacted to ensure that there were no protected or endangered species observed in the vicinity of the previously proposed construction site. Manitoba conservations confirmed that no occurrences of rare or endangered species have been noted in the project area. Due to the relatively close proximity of the proposed relocated lagoon to the previous location (approximately 800 m), effects to protected and endangered species are considered to be the same.

3.6. Socioeconomic Environment

The socioeconomic environment is not largely affected by the relocation of the lagoon, as the lagoon is still being constructed over active crop land. The forested area to the east will act as a natural boundary to separate the lagoon from the colony. New Rosedale Colony will be 0.5 km from the lagoon, while the nearest neighbouring residence not associated with the colony is approximately 1.9 km away, as per Figure 2.



Figure 2: Nearest Neighbouring Residences



4. Changes to Environmental Effects

4.1. Fish Habitat

As the first 12.2 km of road ditch is not fish habitat, no changes affecting aquatic life are expected.

4.2. Atmospheric Effects

As no processes or construction changes are being made, apart from the relocation of the lagoon, no significant climate change impacts are expected.

5. Changes to Human Health Effects

Although the lagoon is being moved closer to the proposed colony site, it is still 500 m away which is greater than the minimum 300 m setback requirement in the Manitoba Conservation Design Objectives for Wastewater Treatment Lagoons.

All safety features outlined for the previous lagoon location will remain to prevent unauthorized access.



The effluent discharge route consists of a road ditch for the initial discharge distance route of 12.2 km prior to release into Jackfish Lake. No risk is anticipated on public users by extending the discharge route, and as such there is no anticipated impact on human health and safety.

6. Mitigation Measures for Proposed Changes

The relocated lagoon is not expected to make changes to human safety and health or the environment, therefore, no new mitigation measures will be implemented for the relocated lagoon. For details of current mitigation measures, please refer to the Environment Act Proposal submitted by BMCE on April 14, 2016.





Appendix A – Drawings





Appendix B – Land Title Certificate



STATUS OF TITLE

The Property Registry A Service Provider for the Province of Manitoba



Title Number2772341/3Title StatusAcceptedClient File2014-166

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1.	REGISTERED OWNERS, TENANCY AND LAND DESCRIPTION		
	NEW ROSEDALE HOLDING CO. LTD.		
- No. 4	HEREON IN THE FOLLOWI	JBJECT TO SUCH ENTRIES RECORDED NG DESCRIBED LAND:	
	THE W 1/2 OF SECTION 16	5-18-11 WPM TIONS CONTAINED IN THE CROWN LANDS ACT	
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The	level to all to state to contene all a second		
	ion 58 of <i>The Real Property Act.</i>	trary is expressly declared, deemed to be subject to the reservations and restrictions set out in	
2.	ACTIVE INSTRUMENTS		
	Instrument Type:	Mortgage	
	Registration Number:	1174162/3	
	Instrument Status:	Accepted	
	Registration Date:	2015-04-02	
	From/By:	NEW ROSEDALE HOLDING CO. LTD.	
	То:	RONALD POST AND LORRAINE POST	
	Amount:	\$400,000.00	
	Notes:	No notes	
	Description:	MORTGAGEES ARE JOINT TENANTS	
3.	ADDRESSES FOR SERVICE	•	
1	NEW ROSEDALE HOLDING	G CO. LTD.	
	BOX 460		
	PORTAGE LA PRAIRIE MB		
	R1N 3B7	-	
4.	TITLE NOTES		
	No title notes		
5.	LAND TITLES DISTRICT		
	Portage la Prairie		

6.	DUPLICATE TITLE INFORM Duplicate not produced	ΜΑΤΙΟΝ
7.	FROM TITLE NUMBERS	
	1836414/3 All	
8.	REAL PROPERTY APPLICA	TION / CROWN GRANT NUMBERS
	No real property applicat	ion or grant information
9.	ORIGINATING INSTRUME	INTS
	Instrument Type:	Transfer Of Land
	Registration Number:	1174161/3
	Registration Date:	2015-04-02
	From/By:	RONALD WALTER POST
	To:	NEW ROSEDALE HOLDING CO. LTD.
	Consideration:	\$576,000.00
10.	LAND INDEX	
	NW 16-18-11W	
	EXC RES	
	SW 16-18-11W EXC RES	

CERTIFIED TRUE EXTRACT PRODUCED FROM THE LAND TITLES DATA STORAGE SYSTEM OF TITLE NUMBER 2772341/3

1331 Princess Ave. Brandon, Manitoba R7A 0R4 Tel: (204) 728-7364 Fax: (204) 728-4418

CONSULTING ENGINEERS LTD

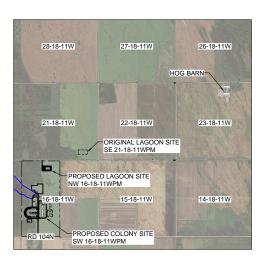
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NEW ROSEDALE COLONY LAGOON DESIGN NW 16-18-11 WPM



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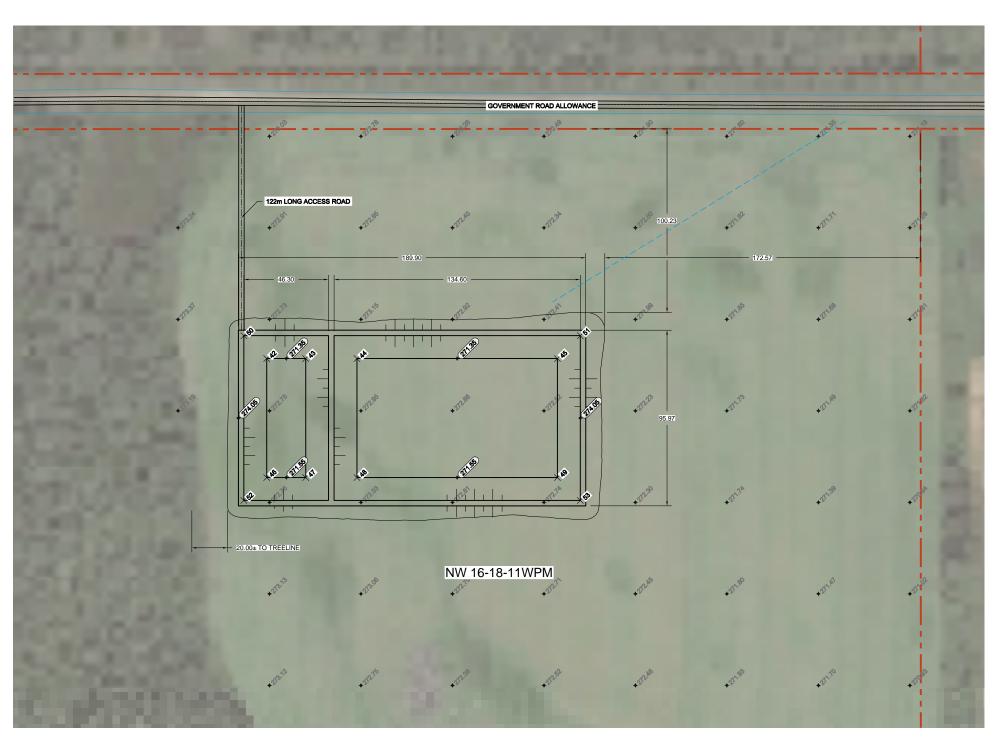
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43	271.35	5599655.70	504800.35
44	271.35	5599655.70	504828.35
45	271.35	5599655.70	504937.95
46	271.55	5599590.70	504779.05
47	271.55	5599590.70	504800.35
48	271.55	5599590.70	504828.35
49	271.55	5599590.70	504937.95
50	274.05	5599668.20	504766.55
51	274.05	5599668.20	504950.45
52	274.05	5599578.20	504766.55
53	274.05	5599578.20	504950.45

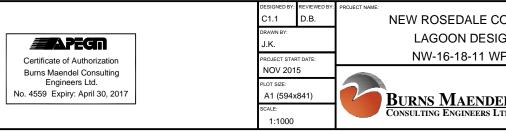
ORIGINAL EARTHWORK QUANTITIES			
MATERIAL	CUT MATERIAL	FILL MATERIAL	
TOPSOIL STRIPPING	4983m ³	N/A	
COMMON EXCAVATION	9493m ³	7307m ³	
SAND COVER	N/A	2552m ³	
TOPSOIL PLACEMENT	N/A	499m ³	
SEEDING	4992m²	N/A	

NEW EARTHWORK QUANTITIES			
MATERIAL CUT MATERIAL FILL MATERI			
TOPSOIL STRIPPING	3814m ³	N/A	
COMMON EXCAVATION	10526m ³	8040m ³	
SAND COVER	N/A	2552m ³	
TOPSOIL PLACEMENT	N/A	461m ³	
SEEDING	4619m²	N/A	
NOTE: ALL QUANTITIES ARE BASED ON IN SITU			

NOTE: ALL QUANTITIES ARE BASED ON IN SITU CONDITIONS

5	JULY 21, 2016	D.B.	J.K.	REISSUED FOR PERMIT	
4	JULY 13, 2016	D.B.	J.K.	REVISED LAGOON SITE LOCATION AND ELEVATION. ISSUED FOR REVIEW	
3	JUNE 16, 2016	D.B.	J.K.	J.K. REVISED LAGOON LOCATION/ELEVATION	
2	MAY 25, 2016	D.B.	J.K.	REVISED ACCESS ROAD, FORCEMAIN STUB	
1	APR 14, 2016	D.B.	J.K.	REVISIONS AS PER MB CONSERVATION COMMENTS	
)) FEB 18, 2016 D.B. J.K. ISSUED WITH ENVIRONMENTAL ACT PROPOSAL				
3	3 FEB 2, 2016 JA J.K. ISSUED FOR CLIENT REVIEW AND COMMENT				
IO:	DATE	APP.	BY	DESCRIPTION	
	REVISIONS				

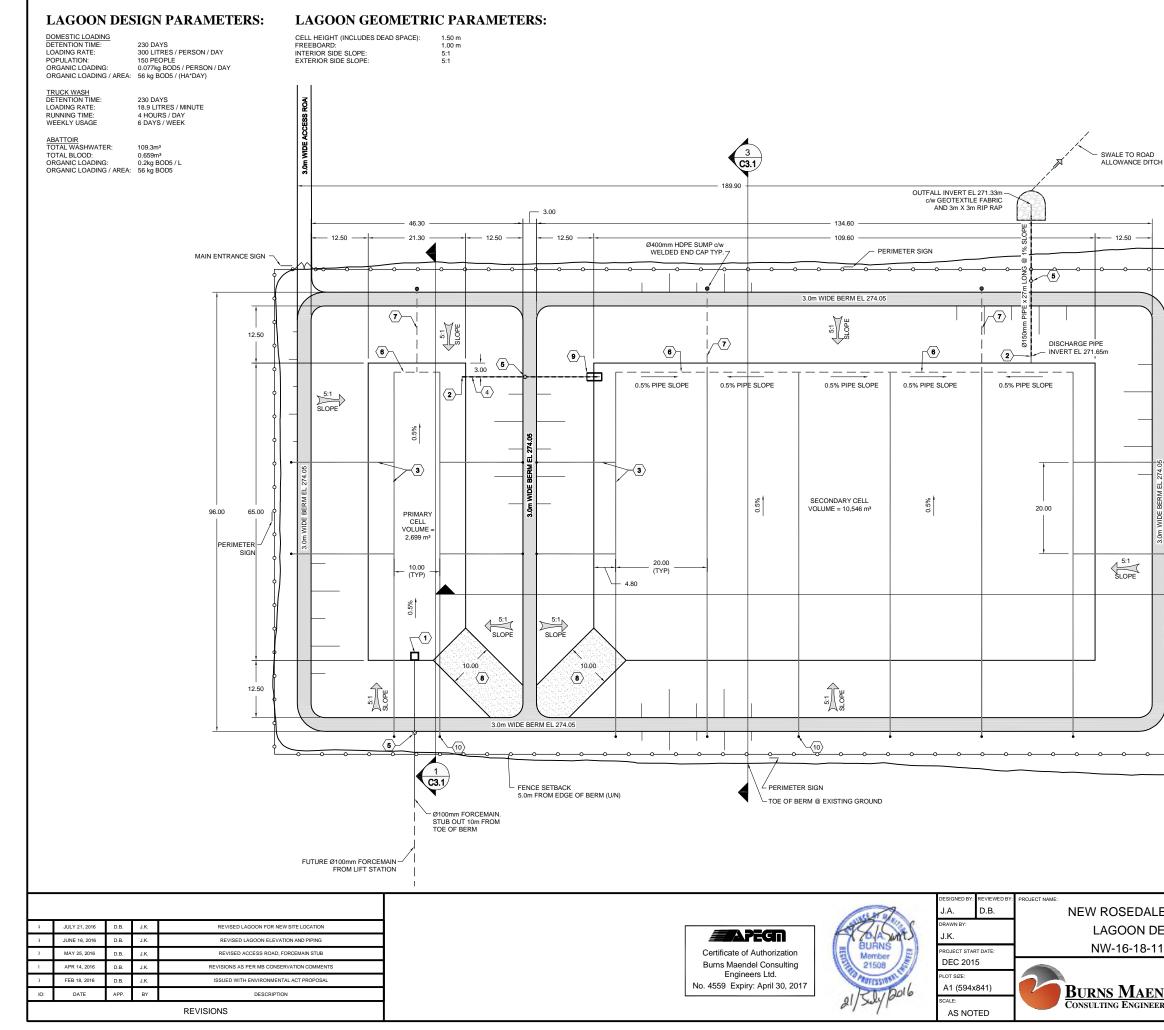




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LE COLONY DESIGN 11 WPM		DRAWING TITLE:		
	1331 Princess Ave. Brandon, Manitoba			
NDEL ers Ltd.	R7A 0R4	PROJECT NUMBER:	DRAWING NO:	
	Tel: (204) 728-7364 Fax: (204) 728-4418	BMCE14-166-36	C1.1	





GENERAL NOTES

- 1. DECIMALIZED NUMBERS INDICATE METRES AND WHOLE NUMBERS INDICATE MILLIMETRES,
- 2. EXISTING FEATURE LOCATIONS & PROPERTY LINE INFORMATION IS DERIVED FROM SURVEY INFORMATION COLLECTED BY RICHMOND SURVEYS.
- 3. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
- 4. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST EDITION OF MANITOBA WATER SERVICES BOARD STANDARD CONSTRUCTION SPECIFICATIONS.

CONSTRUCTION NOTES

1. ALL HDPE LINER TO BE 60MIL SINGLE SIDED TEXTURED HDPE UNDERLAIN BY 12oz NON WOVEN GEOTEXTILE FABRIC.

KEYNOTES

- (1.) 1800 x 1800 x 150mm THICK CONCRETE INLET PAD c/w 200mm HIGH CURB, SEE DETAIL.
- $\left< \overline{2.} \right>$ POLY-PLATE PIPE PENETRATION. SEE DETAIL.
- $\langle \overline{4.} \rangle$ Ø150mm EQUALIZATION PIPE.
- 5. GATE VALVE.

PERIMETER SIGN

2 C3.1

- $\overline{\langle 6. \rangle}$ Ø100mm PERFORATED DEWATERING PIPE SLOPED @ 0.5%.
- $\langle \overline{7.} \rangle$ Ø100mm HDPE COLLECTION PIPE (NON-PERFORATED).
- $\langle 8. \rangle$ 10.0m WIDE ACCESS PAD c/w 300mm SAND COVER OVER HDPE LINER AND GEOTEXTILE.
- 9 POLY-PLATE PIPE PENETRATION c/w 1800mm WIDE x 150mm THICK CONCRETE SPLASH PAD w/ 200mm HIGH CURB. SEE DETAIL.

10 TRAP VENT COMPLETE W/ INSECT SCREEN. TYP. SEE DETAIL ON $\fbox{3}$ C3.2

LE COLONY DESIGN 11 WPM		DRAWING TITLE:	
1331 Princess Ave Brandon, Manitob			
ENDEL TERS LTD.	R7A 0R4 Tel: (204) 728-7364 Fax: (204) 728-4418	PROJECT NUMBER: BMCE14-166-36	drawing no: C1.2

