

Approved by MPC June 6, 2006



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1.0 INTRODUCTION

The Legacy Ridge Stage 2 Outline Plan has been prepared to conform to the Hardieville / Legacy Ridge / Uplands Area Structure Plan as well it provides for a compatible transition with the existing residential developments in Hardieville and Legacy Ridge Stage 1.

A mixture of housing alternatives have been provided, comprising mainly of smaller single family lots and semi-detached lots. One site is provided for a Public Elementary School.

The roadway network conforms to the Area Structure Plan and has compatible links to Legacy Ridge Stage I, Hardieville and early development plans for Legacy Ridge Stage 3.



2.0 LOCATION

The lands are located in north Lethbridge and are bounded to the south by Legacy Ridge Stage 1 currently being developed by Melcor Developments Ltd.; to the north by Hardieville and a portion of Legacy Ridge Phase 3; to the east by 13th Street, and to the west by coulee lands and part of Legacy Ridge Phase 3.

The lands basically slope from east to west with over a 10.0 metre drop from the west boundary to 13^{th} Street.

The lands are currently used for agricultural purposes and are zoned UR – Urban Reserve. The subject property encompasses 16.39 ha (40.5 acres).

Figure 1 Location Plan Figure 2 Air Photo Figure 3 Contours Figure 4 Existing Land Use





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3.0 LAND OWNERSHIP

The land is currently owned in it's entirety by Avonlea Land Corp. Ltd. A copy of the title is attached as Appendix A. The adjacent landowners are indicated on Figure No. 5 Land Ownership.

Figure 5 Land Ownership

APPENDIX A Land Title Certificate (included with report)



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4.0 PLANNING CONTEXT

The Hardieville / Legacy Ridge / Uplands Area Structure Plan provides the planning context for Legacy Ridge Stage 2. In addition, the Legacy Ridge Stage 1 Outline Plan has provided a basis for continuity of the transportation network, servicing, open space and land uses.

The Legacy Ridge Stage 2 Outline Plan meets the following objectives of the Area Structure Plan.

- Primarily low density residential development for the Outline Plan area;
- Strategically located multi-family residential development in the general location identified in the Area Structure Plan;
- An enlarged Public Elementary School site in the general location identified in the Area Structure Plan;
- A transportation network consistent with the collector roadway network identified in the Area Structure Plan to facilitate efficient internal traffic movements;
- Neighbourhood parks providing a combination of playground opportunities and informal play areas as well as passive recreational opportunities.

The land uses proposed comply with the Area Structure Plan requirement that *the Legacy Ridge Village will be predominantly single-family sites*. The school site provided complements and completes the area required for the adjacent school site proposed for Legacy Ridge Stage 1.



5.0 PROPOSED LAND USES

5.1 Residential

The Legacy Ridge Stage 2 Outline Plan proposes a variety of residential land uses with a variety of lot sizes including lane and laneless options. Provisions have been made for numerous semi-detached lots.

The anticipated density per gross acre is 35.7 person/ha or 12.75 units/ha. Excluding the park area the density is 43.0 person/ha or 15.4 unit/ha.

5.2 Public Open Space

A Public Elementary School site has been provided adjacent to the proposed Public Elementary School site planned in Legacy Ridge Stage 1 Outline Plan.

The location and size have to be provided in conformance with the Hardieville / Legacy Ridge / Uplands Area Structure Plan.

APPENDIX I Land Use Allocation Statistics and Student Generation (included with report)



6.0 LANDSCAPING

6.1 Landscaping

Landscaping will be provided on the north side of Grace Dainty Road at the intersection with 13^{th} Street North.

Trees will be planted in the boulevards along Grace Dainty Road and Mildred Dobbs Boulevard where there are separate sidewalks and curbs and gutters.

The Elementary School site will be graded, topsoiled and seeded with dry-land grass in accordance with City of Lethbridge Design Standards.

In conjunction with the City of Lethbridge, consideration will be given to providing irrigated turf, trees and shrubs for the portion of the School site that abuts Haru Moriyama Road. This will be determined at the time of subdivision for that particular phase.

6.2 Fencing

Concrete block fences will be provided along 13th Street North, along the south and west boundary of the existing Peta residential property in the northeast corner of the site and along the north boundary at the westerly end of the property.

Figure 6 Fencing and Landscaping



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7.0 ARCHITECTURAL CONTROLS

Architectural Control Guidelines will be developed and administered by Avonlea Land Corp. Ltd. and will encompass items such as:

- Building Footprints,
- Requirements for attached/detached garages and/or parking pads,
- Roofing materials,
- Diversity of building design,
- Exterior finishes,
- Landscaping requirements.



8.0 PROPOSED ZONING

8.1 Residential Land Use

Two residential land use districts are proposed within Legacy Ridge Stage 2.

8.1.1. R-CL Comprehensively Planned Low Density Resident

The outline Plan identifies approximately 150 lots zone as R-CL. This allows for smaller lots on a comprehensively planned basis. At the time of application for tentative subdivision approval the Developer will supply to the City Planning Department a Comprehensive Site Plan for that phase of development. This site plan will specify lot dimensions, mandatory minimum setbacks, maximum parcel coverage, and mandatory garage requirements.

8.1.2. R-37

The areas designated as R-37 are all planned for semi-detached units only. The area thus zoned will provide for a total of 50 semi-detached units.

8.2 Reserve Dedication

The provision of public parks and open space with the Legacy Ridge State 2 Outline Plan is accommodated by the provision of the Public Elementary School site which represents 17.03% of the net developable land. This site comprises 2.79 ha (6.9 acres) and will be zoned as P-B, Public Building district.

Figure 7 Land Use and Zoning Concept Figure 8 Public School Site









9.0 GEOTECHNICAL EVALUATION

The "top of bank" as defined under the City of Lethbridge River Valley Area Redevelopment Plan appears to encroach into Mildred Dobbs Boulevard on the southwest corner of the development. Subsequently EBA Engineering Consultants Ltd. was commissioned to review this issue.

Their report indicates a revised top of bank line and subsequent development setback line which is approximately 138.0 metres west of the edge of the roadway. Their report further concludes that roadway construction in Mildred Dobbs Boulevard at this location is permissible from a geotechnical perspective.

APPENDIX B Top of Bank Geotechnical Review Prepared by EBA Engineering Consultants Ltd., February 22, 2006 (included with report)



10.0 HISTORICAL RESOURCES

A Historical Resources Overview was undertaken by Arrow Archaeology Limited and concluded that a Historical Resource Impact Assessment was not required as there is a low potential for the project to intersect or impact historical resources.

APPENDIX C Historical Resources Overview Legacy Ridge Stage 2 Subdivision Arrow Archaeology Limited, February 2006 (under separate cover)

APPENDIX L Historical Resources Act Requirements and Clearance Legacy Ridge Stage 2 Subdivision Alberta Community Development Heritage Resources Management, March 2006 (included with report)



11.0 TRANSPORTATION

Primary all turns access to Legacy Ridge Stage 2 will be provided via a modified super collector road from a T intersection at the intersection of Grace Dainty Road with 13th Street North. Details will be determined during final design.

A 23 m major collector (Mildred Dobbs Boulevard) runs north/south on the west boundary of the property connecting Mildred Dobbs Boulevard to the south and a proposed major collector in Stage 3.

A minor collector (Lettice Perry Road) connects 12th Street North in Hardieville and the future Lettice Perry Road from Legacy Ridge Stage 1.

A minor collector (Haru Moriyama Road) running east/west connects to the collector at the west of the property and Lettice Perry Road.

The connection at 13th Street North will be to the existing 13th Street roadway. When North Scenic Drive is extended a new chanalized intersection will be required.

Figure 9 Road Network

APPENDIX D Peta Lands Traffic Impact Assessment EarthTech (Canada) Inc., February 2006 (under separate cover)





12.0 SOUND ATTENUATION

As noted previously, a concrete block fence will be constructed at the rear of all lots adjacent to 13^{th} Street North. Additionally, the proposed arterial right of way width is 75.0 metres, which is wide enough to accommodate future sound attenuation berming.



13.0 TRANSIT ROUTES AND MAILBOXES

The proposed collector roadway systems will meet Transit requirements for pavement design and roadway geometrics. The actual route location through Legacy Ridge Stage 2 will be developed in conjunction with the Transit Department based on the phasing of Legacy Ridge Stage 1.

Canada Post has provided the mailbox locations as shown in Figure No. 10.

Figure 10 Mail Box Locations



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14.0 MASTER SERVICING

Utilities in Legacy Ridge Stage 2 development will be designed to facilitate ultimate tie-in to those of other phases of Legacy Ridge as they are constructed. However, as this development is proceeding ahead of adjacent phases, MGCL has prepared designs for interim servicing. These were prepared in such a way as to minimize the amount of work required once connections were available in adjacent phases. All utility designs satisfy the requirements of the City of Lethbridge and pertinent provincial standards and have been reviewed and approved by Melcor Developments.

14.1 Drainage and Stormwater Management

The City of Lethbridge requires designers of drainage systems to consider both the *minor* (piped) drainage system and the *major* (overland) drainage system in their analyses.

The minor system consists of underground pipes, manholes, inlets and other related structures. Generally, the minor system is designed to drain runoff resulting from a design storm even with a return period of five (5) years.

The major system consists of the drainage conduits which convey runoff overland such as street gutters, swales, pathways, etc. In Lethbridge, the major system is designed to discharge runoff resulting from a design storm event with a return period of 100 years without exceeding Alberta Environment (1997) depth-velocity guidelines.

As prescribed, design events were Chicago storms with time-to-peak ratios, r, equal to 0.3.

The rainfall hyetographs are derived using the following intensityduration-frequency relationship:

 $i=a/(t+b)^{c}$

where: *i* is the predicted intensity of the storm event in mm/hr *t* is the duration of the storm in minutes

a, *b*, *c* are coefficients derived from analysis of historical rainfall data

For the City of Lethbridge, the following values of the IDF coefficients are prescribed:

| Event Return Period | а | b | С |
|---------------------|----------|------|------|
| 5 years | 789.60 | 5.41 | 0.80 |
| 100 years | 2,067.45 | 7.07 | 0.84 |

All designs of drainage and stormwater management features within the proposed development are consistent with relevant sections of the documents below. Where specific variances from standards are required, these are specifically noted and reasons are given why such variances are necessary.



- 1. Design Standards (City of Lethbridge, March 2004),
- 2. *Municipal Policies and Procedures Manual* (Alberta Environment, April 2001),
- *3. Stormwater Management Guidelines for Alberta* (Alberta Environment),
- 4. Standards and Guidelines for Municipal Waterworks, Wastewater and Storm Drainage Systems (Alberta Environment, December 1997).

For a more detailed discussion of stormwater managements, please refer to MGCL's detailed stormwater management plan for this site.

14.2 Interim Drainage and Stormwater Management

The minor system is designed based on a maximum unit-area release rate of 75L/s per hectare of catchment. This rate was quote in *Legacy Ridge Stage 1 Stormwater Master Drainage Plan* (Stantec, June 15, 2004). It is assumed that future downstream trunk sewers to which the system will eventually tie will be sized to accommodate this rate of discharge. All pipes will be smooth-wall concrete or PVC; therefore, the roughness coefficient was assumed to be 0.013, as per City standards. Pipes will be designed so that full-flow velocities are greater than 0.9m/s but do not exceed 3.1m/s. Notwithstanding the effects of backwater due to detention ponds, pipes will be designed not to surcharge in either the 5-year or 100-year event. In no case will pipes surcharge to grade.

Major flows will be directed from private lots to public rights-of-way (streets, lanes or other public lands) via properly graded lots and (where necessary) concrete rear-lot swales. Street ponding will be controlled as per City standards. Use of inlet control devices and the size of trapped lows was reduced as much as practical. In no case do street or lane flows exceed Alberta Environment depth velocity guidelines.

Major and minor flows from Legacy Ridge Stage 2 will be directed to the north along Mildred Dobbs Boulevard. New stormwater facilities serving Legacy Ridge Stage 2, as well as Melcor's lands west of Hardieville (Legacy Ridge Stage 3) and Hardieville itself are to be located in the former Lafarge shale pit area west of Hardieville. Outfall from this facility will be into the Oldman River at a point near the Alexander Wilderness Park. Design and approval of this facility and its appurtenances is proceeding and construction of the ponds, outfall and trunk sewer are intended to begin in 2006.

Should delays occur in the construction of the above-noted facilities, major and minor flows from Legacy Ridge Stage 2 will be directed to a temporary stormwater detention facility in the future school site at the southwest corner of the site. Outfall from this facility will be into an existing coulee at the southwest corner of the site. This facility will be



sized according to the following criteria, as directed by Alberta Environment and the City of Lethbridge:

- At the 100-year maximum predicted water level, outlet flows will not exceed those predicted in the coulee downstream in the 5-year return period design event. This rate was predicted to be 0.100 m^3/s . To provide the required attenuation, design calculations indicated a required volume of approximately 8,000 m³.
- 0.3 m of freeboard allowed above the predicted high-water level,
- Grades of pond side slopes will not exceed 20% (5H:1V)
- Pond inlet and outlet velocities will not compromise public safety or cause excessive scour.
- Natural channels downstream will be protected by an appropriately-designed structure which will control flow velocities and prevent scour at the outfall.
- A wet forebay will be provided to enhance settling of sediment as per Alberta Environment guidelines.
- As per the present guidelines stipulated in the *Municipal Policies* and Procedures Manual, the stormwater management facility will be designed to remove by settling at least 85% of sediment with a particle size greater than 75 µm.

As flows from the proposed interim detention pond land will cross private property to the west (as is presently the case), approval for construction has been sought from Alberta Environment under relevant sections of the Water Act and Regulations. Application was made under the Act on 24 August 2005. This application has been reviewed and was approved by Alberta Environment in January 2006.

Figure 11 Overland Flow and Storm Catchment Areas Figure 12 Deep Utilities Storm

APPENDIX E Master Drainage Plan for Hardieville and Legacy Ridge Stages 2 and 3 Martin Geomatic Consultants Ltd., April 2006 (under separate cover)

APPENDIX F Interim Master Drainage Plan Legacy Ridge Stage 2 Martin Geomatic Consultants, April 2006

(under separate cover)

APPENDIX G Interim Pond Approval from Alberta Environment under Water Act (included with report)

APPENDIX K Geotechnical Evaluation and Preliminary Environmental Review, Legacy Ridge Stormwater Retention Pond, Hardieville, Alberta EBA Engineering Consultants Ltd., March 2006

(under separate cover)



| LEGACY | RIDGE | | | | |
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| STAC | F 2 | | | | |
| STAGE Z | | | | | |
| | DIDOF | | | | |
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| STORM | CATCHMENT | | | | |
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| STAGE 1 | STAGE 1 OUTLINE | | | | |
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| A R | 0.55 | | | | |
| C | 0.24 | | | | |
| D | 0.21 | | | | |
| E | 3.46 | | | | |
| F | 0.25 | | | | |
| H | 0.32 | | | | |
| I | 0.09 | | | | |
| J | 0.62 | | | | |
| K | 0.27 | | | | |
| L | 0.78 | | | | |
| N | 0.47 | | | | |
| 0 | 0.37 | | | | |
| P | 0.26 | | | | |
| R | 0.57 | | | | |
| S | 0.36 | | | | |
| Т | 0.50 | | | | |
| U | 0.24 | | | | |
| W | 0.89 | | | | |
| X | 0.47 | | | | |
| Y | 0.25 | | | | |
| Z | 0.54 | | | | |
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| 1111 3rd Avenue South Leihbridge, Alberto | | | | | |
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14.3 Sanitary Servicing

Similar to the storm sewers, construction phasing of this development relative to adjacent developments requires interim and ultimate servicing designs. A 750-mm diameter trunk sewer exists approximately 400 m west of the development. Construction of a main will require crossing private property. Tie-in to the trunk sewer will be by gravity sewer along a proposed road alignment through Legacy Ridge Stage 1.

As stated, the collection system will be drained by gravity. All mains will be 200-mm or 250-mm diameter PVC SDR 35 constructed as per City standards. Grades will meet or exceed minimum slopes necessary to ensure a velocity of 0.9 m/s in the pipes. For dead-end and curved mains, this slope will be exceeded by a minimum of 50%. The sanitary sewer system is designed to the following parameters:

- 209 homes average occupancy 3 people/home = 627 people
- Total population = 627 people
- PF = 4.0
- Dry weather = 400 L/day/person
- Dry weather daily volume = 250,800 L = 2.9 L/s
- Applying PF = 11.6 L/s
- Add wet weather = 500 L/day/person = 3.63 L/s
- Add infiltration = 150 L/day/person = 1.1 L/s

The total peak flow predicted for the new residential subdivision will be 16.33 L/s. As per City of Lethbridge standards, no foundation weeping tile or roof drain hook ups are allowed to the sanitary sewer.

Figure 13 Deep Utilities Sanitary

APPENDIX H Sanitary Sewer Calculations (included with report)





14.4 Water Supply

Presently, the following mains exist adjacent to the proposed development:

- A 300-mm diameter main runs north-south in 13 Street North. This main serves Hardieville and customers in Lethbridge County north of the city limits.
- A 200-mm diameter main extends west along 40 Avenue from the line in 13 Street North, this line serves Hardieville.

A new 300-mm diameter main is proposed to be located in Mildred Dobbs Boulevard North. This main will be connected to a future 300 mm main in Mildred Dobbs Boulevard from the south and will extend north into Legacy Ridge Stage 3 where existing water mains from Hardieville will be connected.

The water distribution system within this proposed development will be served with 200 mm diameter water lines (City of Lethbridge minimum standards). All hydrant leads will be 150 mm diameter.

The distribution system will tie directly into the 300 mm diameter water main that is existing within 13th Street (approximately 200 meters south of 40th Avenue), a tie-in will be made at the west end to a proposed 300 mm diameter PVC water main and an additional tie-in will be made on 40 Avenue and 12 Street to the existing 200 mm water line running east/west.

All proposed potable water lines will be constructed with PVC DR18 conforming to AWWA C900. Material supply, installation and commissioning of all pipe, fittings and appurtenances will be as per the current City of Lethbridge Standards.

The following parameters were used in the design of the water distribution network:

- 209 homes average occupancy 3 people/ home = 627 people
- Total population = 627 people
- Average water usage per person per day 500 L or 3.63 L/s
- Maximum daily usage per person per day 1000 L or 7.30 L/s
- Maximum hourly usage per person per day 2500 L or 18.1 L/s (239.5 igpm)
- Fire demand = 75 L/s (990 igpm) for one hydrant flow at maximum daily demand while maintaining a minimum 150 kPa (21 psi).

We have modeled the subdivision using the City's minimum pipe size requirement of 200 mm diameter for residential subdivision potable water mains and 150 mm diameter leads for fire Hydrants. The computer modeling was based on the attached hydrant layout with a 1.13 L/s (17.7 igpm) maximum hourly demand at each hydrant node



(18.1 L/s total) and an additional 75 L/s at one hydrant for fire flow requirements. Assuming that the 300 mm supply main could provide the 93.1 L/s (1230 igpm) at 379 kPa (55 psi); at a residual pressure of 150 kPa (21.5 psi) all individual fire hydrants exceed the 75 l/s plus maximum daily flow requirements (See attached). During maximum daily usage and maximum hourly usage the residual pressures are predicted to be greater that 350 kPa (50 psi) and 310 kPa (45 psi) respectively (See attached).

Figure 14 Deep Utilities Water

APPENDIX J Water Distribution Analysis (included with report)



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14.5 Shallow Utilities

Legacy Ridge Stage 2 will be serviced with extensions of shallow utility infrastructure from existing facilities located adjacent to 13^{th} Street North.

Horizontal and vertical alignments of all shallow utilities will be in accordance with City of Lethbridge standards.

Shallow utility servicing drawings will be submitted on a phase-byphase basis to the City of Lethbridge Electrical Department.



15.0 STAGING POTENTIAL

Legacy Ridge Stage 2 will proceed in three phases as indicated on Figure 15.

In order to service Phase 1, which is adjacent to 13th Street North, it is required that the sanitary sewer be installed in Haru Moriyama Road then south along Mildred Dobbs Boulevard and then westerly through Legacy Ridge Stage 1 to tie into the existing sanitary trunk. Agreement has been reached with Melcor Developments for access through their property.

Additionally Phase 1 development necessitates the construction of the storm sewer in Haru Moriyama Road. This storm trunk will terminate in the ultimate storm pond to the northwest.

Figure 15 Site Phasing



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