#### IN THE PROVINCE OF ALBERTA, CANADA **OF** STARLAND COUNTY **BYLAW NO. 2011**

A Bylaw of Starland County, in the Province of Alberta, to adopt the Starland Business Park Area Structure Plan

Structure Plan; **WHEREAS**, the Council of Starland County considers it necessary to adopt, in accordance with Section 633 and 636 of the *Municipal Government Act*, the Starland Business Park Area

**AND WHEREAS,** it is deemed desirable and in the best interest of Starland County that an Area Structure Plan be adopted to guide future development;

from time to time; **AND WHEREAS,** the Starland Business Park Area Structure Plan has been prepared in accordance with the requirements of Part 17 of the *Municipal Government Act*, as amended

**AND WHEREAS** Council, having considered at a public hearing the concerns of persons claiming to be affected by the Starland Business Park Area Structure Plan;

enacts as follows: NOW THEREFORE, the Council of Starland County in the province of Alberta, duly assembled,

- .^ This Bylaw shall be known as the "Starland Business Park Area Structure Plan".
- 2 forming part of this Bylaw is hereby adopted. The Starland Business Park Area Structure Plan being Schedule "A" as attached to and
- ω This Bylaw takes effect on the date of the third and final reading.

First Reading on motion of Deputy Reeve Surgent, this 33rday of April , 2025.

Second Reading on motion of Councillor Landry , this 14 thday of May , 2025

Third and Final Reading on motion of Councillor Watts , this lutday of May 2025

Done and finally passed in Council, duly assembled this  $\frac{1}{100}$  day of  $\frac{1}{100}$  2025

Reeve: h

Steven Wannstrom

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Chief Administrative Office Christopher Robblee

STARLAND COUNTY



STARLAND BUSINESS PARK AREA STRUCTURE PLAN NW 1/4 SEC. 12 TWP 31 RGE 20 W4M

APPROVED MAY 14, 2025

BLAW 2011

PREPARED BY: STANTEC CONSULTING LTD.

PREPARED FOR: STARLAND COUNTY

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#### **Table of Contents**

	DEVELOPMENT AND PHASING	7.0
	EMERGENCY SERVICES	6.6
	UTILITIES (SHALLOW UTILITIES, POWER DISTRIBUTION, ETC.)	6.5
	STORMWATER SERVICING	6.4
	SANITARY	6 c
	WATER SERVICING	ה י י
		ה פ - כ
22	INERASTRUCTURE SERVICING	ת כ
	5.2.2 Service Roads	
	5.2.1 External Roadways	i
	ROADWAY NETWORK	5.2
.20		л <mark>с</mark> - С
3	) )	1
	4.2.3 Development Guidelines	
1ភ	Open Snaces	
15	C	+ ^
15		40
	Special Project Area	
	4.1.3 Commercial/Industrial Retail	
	4.1.1 Large Format Commercial	-
	DEVELOPMENT POTENTIAL	4 i
14		4 0
	EXISTING TRANSPORTATION	3.6
	EXISTING UTILITIES	ω σ
	NATURAL AREAS	34
	HISTORICAL RESOURCES	ω ω
	TOPOGRAPHY	3.2
	OVERVIEW	
	EXISTING CONDITIONS	3 <u>-</u> 0
.8	2.2.2 Supportive Studies	
6	2.2.1 Statutory Plans and Regulatory Framework	
6		2.2
5	PLANNING AND APPROVAL PROCESS	2.1
J.	PLANNING CONTEXT	2.0
	PURPOSE AND BACKGROUND	1.2
1	PLAN AREA	
1	INTRODUCTION.	1,0



7.1 7.2 7.3 7.4 Table Table Figure	7.1       OVERVIEW       27         7.2       REDESIGNATION AND SUBDIVISION       27         7.3       PLAN INTERPRETATION       27         7.4       AMENDMENTS       27         Table 1 - Area Use Summary       27         Table 1 - Area Use Summary       165         Table 2 - Land Use Calculations       165         Table 2 - Land Use Calculations       165         Figure 1 - Location Plan       15         Figure 2 - Legal Conditions       3         73       13
LIST	OF FIGURES
Figura Figura Figura Figura Figura	s

9

May 1, 2025

### **1.0 INTRODUCTION**

supported by a range of industrial, commercial, and services-based uses. a significant development opportunity. Starland Business Park aims to attract specific large-format commercial uses, route, the Plan Area aims to take advantage of the exposure and access of major roadways to realize the potential of commercial business opportunities for the area and region. Strategically located adjacent to a major transportation Located at the intersection of Highway 9 and Highway 56, the Starland Business Park will support industrial and

opportunities for local employment. the opportunity of Starland Business Park to attract new economic opportunities, growth of the region, and increase economical land values, and economic opportunities will attract businesses and users. Starland County recognizes The development in the Plan Area also recognizes that strategic location, adjacent to surrounding communities, more

The Plan Area is in the southeast corner of the Highway 9 and Highway 56 intersection and is approximately 0.8km south and 3 km east of the Town of Morrin and 20 kilometers north of Drumheller. It is legally described as a portion of North West ¼ Section 12, Township 31, Range 20, West 4 Meridian as identified on **Figure 1 – Location Plan**.

#### 1.1 PLAN AREA

which lies south of Road Plan 001 2766. described as the NW 12-31-20-W4M, excepting thereout Road Plan 001 2766 and a portion of road plan 7687 GX The Plan Area, Figure 2 - Legal Conditions, is comprised of approximately 58.02 hectares (143.36 acres),

areas are described as: Generally, the Plan Area and surrounding area are used for agricultural purposes and homesteads. The adjacent

- North Highway 9, undeveloped agricultural lands
- East Undeveloped agricultural land
- South Undeveloped agricultural land
- West Highway 56, undeveloped agricultural lands

# 1.2 PURPOSE AND BACKGROUND

describe the following: development objectives for a 58.02 hectare (143.36 acre) area shown on Figure 1.0 – Location Plan. The ASP will The purpose of Starland Business Park Area Structure Plan (ASP) is to describe the land use framework and

- Future vision and goals that provide a matrix in measuring the success of the plan
- Promoting appropriate development activities;
- Providing an effective and safe road network;
- Recognizing environmentally significant areas.
- Creating a visually appealing industrial area;
- Servicing in a cost-effective manner;
- Developing based existing conditions;

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May 1, 2025

Establishing a logical and sequential pattern of development.

This property is owned by Starland County, which is committed to creating a high-quality, attractive, and successful industrial park while carefully considering the opportunities and constraints of the area. This report has been prepared by Stantec Consulting Ltd. on behalf of the County.







May 1, 2025

## 2.0 PLANNING CONTEXT

has been prepared to be consistent with, respect, and function with existing planning documents, policies and development, land uses and location of transportation routes and utilities proposed for the area. In addition, the ASP This section describes an Area Structure Plan as providing a framework for subsequent subdivision and development of an area of land. The Municipal Government Act stipulates that an ASP must describe the sequence of The Starland Business Park ASP has been written in accordance with Section 633 of the Municipal Government Act. direction of Starland County.

# 2.1 PLANNING AND APPROVAL PROCESS

Starland County purchased the Plan Area and began formally working on the development of this area in 2024 with Starland County's administration through the land development process.

### Phase One: Pre-Application Meeting

as well as Starland County's process, policies, and vision for the Plan Area. The project team met with Starland County Administration in April 2024 to discuss the proposed development

### Phase Two: Area Structure Plan Submission

The project team worked with Starland County to finalize a preferred land use concept and Area Structure Plan. A internal review and revision of the ASP was completed.

### Phase Three: Municipal Review

external for review and comments. The purpose of this circulation is to obtain comments from various departments, stakeholders and agencies to obtain feedback. An Open House was held on February 26, 2025, to present the ASP to adjacent land owners, and members of the public. Following the Area Structure Plan Submission Phase, Starland County circulated the ASP internally and

### Phase Four: Formal Approval by Council

amendment. use redesignation required to facilitate development will be completed following approval via Land Use Bylaw for approval. The approval process included a First Reading, Public Hearing, Second and Third Readings. Land Subsequent to the internal and external circulation, the Starland Business Park ASP was presented to Council

May 1, 2025

# 2.2 RELEVANT PLANNING DOCUMENTS

Water Act and municipal legislation including but not limited to the Environmental Protection and Enhancement Act and the The following relevant documents have been reviewed and referenced in preparation of the Starland Business Park ASP. Notwithstanding other plans as identified below, the Area Structure Plan will conform to applicable provincial

2.2.1 Statutory Plans and Regulatory Framework

### MUNICIPAL GOVERNMENT ACT (2000)

powers is to adopt an Area Structure Plan for the purpose of providing a framework for subsequent subdivision and The Municipal Government Act (MGA) of Alberta outlines the purpose and powers of municipalities. One of these development of an area of land. As stated in s633(2), an Area Structure Plan must describe:

an area of land, a council may by bylaw adopt an area structure plan. '633(1) For the purpose of providing a framework for subsequent subdivision and development of

(2) An area structure plan

(a) must describe

(i) the sequence of development proposed for the area;

(ii) the land uses proposed for the area, either generally or with respect to specific parts of the area; -Municipal Government Act

details regarding build out, potential uses and transportation routes to guide development of the Plan Area. The Starland Business Park ASP describes these items as required by the MGA and provides additional clarity and

# MUNICIPAL DEVELOPMENT PLAN (BYLAW 1142/2019)

the County. important role the agricultural and natural resource industries play in contributing to the growth and development of Starland County's Municipal Development Plan (MDP) October 2019, sets a vision for the County to recognize the

industrial and commercial land uses. The goals of County related to land use is: The MDP identifies various policies for responsible management of land, as well as policies directly related to

- -To ensure opportunities for well-planned growth are available throughout the County.
- Ņ To ensure opportunities for increased economic development are available throughout the County.
- ω developments. To protect agricultural land and natural landscapes from undesirable or incompatible land uses and/or
- 4 To balance all of the above through sound land use planning and development principles and policies.



May 1, 2025

fundamental to the creation of the ASP: General Policies within the MDP provide a number of policies for consideration. The following policies are considered

development patterns as per Starland County Land Use Bylaw Maps. agricultural, residential, commercial, industrial, recreational and educational facilities influences future (3) Existing land use patterns set the stage for development of adjacent lands. The distribution of existing

commercial sites in the region. commercial north of Drumheller. This development will be a starting point for other such industrial and The Highway 56 and 9 corridor has been chosen as a location to alleviate the demand for industrial and

and any other Starland County planning documents. subdivision or development in the County in accordance with the policies in this Municipal Development Plan (7) Council and/or the Development Officer should consider the environmental impacts of any proposed

surrounding natural features in its development. A Biophysical Impact Assessment to consider wildlife, wetlands, and vegetation. The Plan Area does not contain and significant environmental constraints and will take into account any

Structure Plan or alternative planning document to the satisfaction of Council. (8) Prior to a significant subdivision or development, Starland County may require the preparation of an Area

provide clarity of full buildout. The Starland Business Park ASP has been prepared to support future subdivision and rezonings, as well as

rural industrial and commercial developments will aim to support oil and gas, agriculture, and tourism sectors that require larger tracts of land and limited servicing, oilfield and agricultural operators, or highway commercial. number of industries and uses, which include large vehicle storage and maintenance, pipe yards, large item storage Starland County recognizes that industrial commercial, located along a main transportation route, can serve a Section 10.0 - Industrial and Commercial of the MDP provides specific policies for development. The intent is that

Key policies include:

- Ξ Industrial developments will generally be encouraged to locate in urban centres; however, provision will requirements, the operations to be carried out, and incompatibility with an urban environment. be made for industrial developments seeking a rural location. Consideration will be given to the site Arrangements must be made for adequate infrastructure services.
- 2 The County Council will support and encourage the development of local value-added facilities.
- 5 amendment process. Where appropriate, areas will be reclassified to a Rural Industrial or Commercial County Council shall control industrial subdivisions and developments through the Land Use Bylaw District in the Land Use Bylaw prior to subdivision or development.
- Э Highway Commercial and Industrial development may be accommodated along the major transportation routes throughout the County in appropriate and strategic locations.

9

May 1, 2025

(10) The County may require an Area Structure Plan or alternative planning document prior to the framework and to provide long-term stability of the area. Structure Plan or alternative planning document may be required to provide a transparent planning development of a rural industrial park. If industrial operations begin to concentrate in an area an Area

### LAND USE BYLAW (NO. 1196/ 2024)

redesignation occurs. use currently identified for the Plan Area will be replaced with those described in this Area Structure Plan as land use The existing land use designation for the Plan Area is RAG – Rural Agriculture General. It is intended that the land

be submitted to Starland County on a phased basis subsequent to the ASP approval. Redesignation and Subdivision Applications, consistent with the information in the Starland Business Park ASP, will LUB establishes various regulations that define general, site specific and zoning district regulations. LUB The 2024 Starland County Land Use Bylaw (LUB) describes land use districts to be used throughout the County. The

#### 2.2.2**Supportive Studies**

The following supportive studies were completed to inform the development of the ASP

## PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

that a Phase 2 ESA be completed prior to subdivision. The ESA determined the potential environmental risk for the property to be high in various areas and recommended report was based on a visual site inspection, a review of public records, and personal interviews with the landowner, A Phase 1 Environmental Site Assessment (ESA) was completed by ParklandGEO in May 2024. The Phase 1 ESA

#### Natural areas

west cropland. The Plan Area was generally described as a vacant agricultural field with the east half containing pastureland and the

along the north boundary of the site approximately 100 years ago with no further records of its existence or the environmental status of the area. No buildings, borrow pits or refuse pits were located on site. Historic use and buildings The Phase 1 ESA indicated the property was historically used for agricultural purposes. A gas station was situated

#### Oil and gas facilities

Two well sites exist centrally within the Plan Area:

- The northern one is a flowing crude oil well owned by Pine Cliff Energy Ltd. and was developed in 2010. The southern well is owned by Whitecap Resources Inc and is a suspended Gas Well that was developed in
- 1972.

was completed and successful. Environmental Site Assessment Repository (ESAR) contained multiple records of email correspondence about hydrocarbon and salinity impacts on the southern lease. No further information was available to identify if remediation

considered to be high due to the know impacts from the southern oil lease as well as the potential impacts from the Based on the information gathered during the Phase 1 ESA, the environmental risk associated with the Plan Area is



May 1, 2025

former service station in the northwest comer of the quarter section. A Phase 2 ESA is recommended to assess for potential impacts from these areas.

### **BIOPHYSICAL IMPACT ASSESSMENT**

recommendation on preservation and value of the existing inventory, and identify the necessary regulatory components of the BIA included; providing desktop assessments of the Plan Area's vegetation and wetlands, provide A desktop Biophysical Impact Assessment (BIA) was completed by Stantec Consulting Ltd. in October 2024. Major requirements to develop within the Plan Area. The assessment included the following components:

#### Vegetation

common and no rare plants were documented and there is no concem for project development and grazed native prairie, dominated by plains rough fescue. Vegetation within the project area is considered The Study Area falls within the Northern Fescue Natural Subregion of Alberta which contains largely cultivated fields

#### Wildlife

is not an indication of species that may be present at any given time. A query of the FWIMT database yielded no results of SOCC within a 1,000m radius of the Study Area; however, this

grouse are generally associated with native grasslands and agricultural settings which are present in the Study Area. There are a number of Provincially designated wildlife sensitivity ranges that overlap the Study Area. Sharp-tailed

#### Historic Resources

historical resources including paleontological, prehistoric, historic and archaeological. A portion of the Study Area falls contains an HRV-5 designation within the Historical Resources Act. The Act protects

#### Wetlands

graminoid marshes (MGII) The west half of the Plan Area was tilled and cultivated, containing only two of the Biophysical Assessment. These were classified as six temporary graminoid marshes (MGIII) and six seasonal contain or are surrounded by vegetation. wetlands. The remaining wetlands are contained within the east half which is currently pasture. None of the areas Twelve wetlands and five ephemeral bodies were identified within the Plan Area during the completion of the

financial replacement costs. Wetland assessment field work will be required to support the Water Act Applications for wetland removal. Wetland field assessments will need to be completed to refine wetland boundaries, confirm wetland values and

### HISTORIC RESOURCES APPLICATION

related to reporting of chance finds during construction. Business Park Historic Resources Application was approved with no further requirements outside of responsibilities Resources Act. An HRV-5 value represents high potential to contain a historic resource. The Act protects historical A Historical Resources Approval was required as the Plan Area identified an HRV-5 designation within the Historical resources, including paleontological, prehistoric, historic, and archaeological. In November 2024, the Starland County



May 1, 2025

### STORMWATER MANAGEMENT REPORT

Area. water quality improvement. It will also define the proposed stormwater management system located within the Plan Environment and Protected Areas (AEPA) and Starland County (County) criteria for permissible release rate and The objective of Stormwater Management Report is to demonstrate how Starland Business Park will meet Alberta

shall need to be analyzed to ensure that culverts and ditches are appropriately sized to meet the above criteria mm at development roadway crossings. At the time of detailed design, the development roadway ditch/culvert system minimum culvert diameter of 450 mm is recommended for approach culverts, and a minimum culvert diameter of 600 event. Development roadways shall not be overtopped for up to and including the 1:100 year design storm event. A the 1:25 year event, and private infrastructure shall be protected for up to and including the 1:100 year ditch and culvert system shall be designed such that private property shall not be inundated for up to and including achieved with roadway ditches and with culverts located at approaches and intersection locations. ROW be obtained for the intervening 220m. It is envisioned that drainage within the development will largely be southeast corner of the property and thus provides an adequate outlet; however, it is recommended that a drainage can be drained east towards a required storm pond. The Michichi Creek West comes to within 220 m of the 820.0 m in elevation. For post-development conditions, it is expected that virtually all of the proposed development The Plan Area largely drains from west to east at an average slope of approximately 1.0%, and from 835.0 m to The combined

rate control and the enhancement of stormwater runoff quality. ponds are considered by AEPA as an acceptable end-of-pipe stormwater management BMP for providing discharge (AEPA) criteria of removing 85% of Total Suspended Solids (TSS), for sediment particles 75 microns and larger. Wet and will also provide the necessary water quality improvement to meet the Alberta Environment and Protected Areas A wet storm pond configuration is proposed for the Plan Area because it works well with the existing site conditions

### TRANSPORTATION IMPACT ASSESSMENT

analysis include: A Traffic Impact Assessment (TIA) was prepared by Stantec Consulting Ltd. in January 2025. The objectives of this

- . Examining the existing site conditions, including roadways, intersections and traffic volumes. Establishing future background traffic conditions in the vicinity of the proposed development.
- horizon years. Evaluating the impacts of the generated vehicular traffic on the roadway network adjacent to Estimating the magnitude and characteristics of traffic generated by the proposed development at different future study area the
- Recommending appropriate roadway and intersection improvements to mitigate any unacceptable impacts

buildout year for the intersections of Highway 9 & North Access and West Access & Highway 56 already in place at the intersection of Highway 9 & Highway 56, and delineation lighting will be warranted at the 2027 Highway 9 & Highway 56 will require signalization prior to the development 2027 build out year. Delineation lighting is threshold criteria in terms of LOS and v/c ratio. Based on the signal warrant analysis results, the intersection of The Highway 9 & Highway 56 intersection is currently operating adequately with all movements staying within the

recommended that further study to be carried out prior to the 2047 20-year horizon to determine whether a the westbound left turn movement is LOS-F during the PM peak hour, mainly due to the control delay. It is At the 2047 20-year horizon, the west intersection is expected to function adequately with max, however, the LOS for



May 1, 2025

sight distance issues. traffic signal is required. Both the North Access and West Access are expected to have no horizontal and vertical

## 3.0 EXISTING CONDITIONS

Assessment, and site inspections that have been completed for the Starland Business Park Plan Area. The existing conditions described in the following sections are informed by the Phase 1 ESA, the Biophysical

#### 3.1 OVERVIEW

surrounding the Plan Area is also undeveloped agricultural land. A homesite exists to the north of the Plan Area across Highway 9 and a second homesite is on the ¼ to the east but does not border the Plan Area The Plan Area is an undeveloped agricultural property with no tree stands or any improvements constructed. Land

### 3.2 TOPOGRAPHY

Elevations range from 815.0m to 835.0m for a total relief of 20m, with a drop-off in the central portion of the Plan area The Plan Area is bare agricultural land with low laying areas in the east. As shown in Figure 3.0 – Existing Conditions, the site topography shows a moderate slope from the west and east co.

## **3.3 HISTORICAL RESOURCES**

other than for the purpose of seeking historic resources shall forthwith notify the Minister of the Discovery 31 which reads, "a person who discovers an historic resource in the course of making an excavation for a purpose Historical Resources Act approval was applied for and obtained in October 2024 for the Plan Area, subject to Section

### 3.4 NATURAL AREAS

**Biophysical Assessment.** wetlands located throughout. Vegetation, wetlands, and wildlife observations are described further in Section 2.3.2 As described in the Biophysical Assessment, the Plan Area is primarily agricultural cropland with a total of twelve

### **3.5 EXISTING UTILITIES**

the ownership at time of Area Structure Plan approval. within the Plan Area. It must be noted that ownership of these utilities is subject to change and is only a reflection of As shown on Figure 5 - Existing Conditions Plan, there are five pipeline right-of-ways and two well sites located

#### Pine Cliff Energy Ltd.

891 1562. These pipelines are operational and have been incorporated into the plan area as Public Utility Lots. from the bottom central to the northeast of the Plan Area. This pipeline is located within registered right-of-way Plan Two operational Natural Gas lines registered to Pine Cliff Energy Ltd. are within the Plan Area. The main one runs



May 1, 2025

is within registered right-of-way Plan 121 2250. The second line connects a well within the centre of the Plan Area to the previously mentioned line. This connection

#### Whitecap Resources Inc.

will be removed, and the areas will be included in the developable area. the southeast corner of the Plan Area and is located within registered right-of-way Plan 961 0772. These pipelines central area within registered right-of-way Plan 741 0550. The second pipeline, abandoned, runs from the well site to a Decommissioned status. The first runs from the southwest corner of the Plan Area to an abandoned well in the Three pipelines registered to Whitecap Resources Inc. are located within the Plan Area. Two of these pipelines have

Inc. pipeline. This pipeline is contained within right-of-way Plan 041 3849. The third pipeline is Abandoned and connects a well on the parcel to the east with the second Whitecap Resources

#### Well Sites

Pine Cliff Energy Ltd. The southern well is owned by Whitecap Resources Inc and is a suspended Gas Well. Two well sites are within the central portion of the Plan Area. The northern one is a flowing crude oil well owned by

Wells and its associated lease sites will remain operational for the foreseeable future. Both of these sites will be remediated by the well owner at a time of their choosing and the sites will be incorporated into the Plan.

## 3.6 EXISTING TRANSPORTATION

Highway 56. Transportation Impact Assessment and ASP. The Plan Area is accessed via a private driveway at the SW, along As part of the planning process, discussions were held with Alberta Transportation in preparation for the

With the NW corner of the quarter section, once a service center, is now an Alberta Transportation road ROW no desire to incorporate this parcel of land within Starland Business Park. As such, no access has been provided to it. identified for future potential intersection improvements. Through communication with Alberta Transportation, there is





Scale 1:5,000

Stantec

Wetland Temporary Graminoid Marsh (MGII) Wetland Seasonal Graminoid Marsh (MGIII) Wetland Ephemeral Waterbody Existing Lease Site Plan Boundary





May 1, 2025

# 4.0 DEVELOPMENT CONCEPT

potential lot purchasers assisted in shaping the Concept Plan with respect to roadway layout, lot size, and orientation. industrial/commercial market trends in the region. An analysis of these trends and response to direct requests from The development concept for the Starland Business Park has been prepared in response to current and anticipated

easily expand their operations by purchasing multiple lots. successful with industrial developments. By providing large lots in sequence, potential lot purchasers will be able to and Figure 6.0 – Development Potential Plan. The concept features a simple and logical layout that has proven The overall design for the Plan Area is shown in Figure 4 - Concept Plan and Figure 5 - Concept Plan with Aerial

statistics and industrial units are represented in Table 1.0 - Land Use Allocation. that are anticipated to frequent the area, which is further described within the transportation section. The land use The roadways within the Plan Area have been designed to accommodate large commercial and industrial vehicles

## 4.1 DEVELOPMENT POTENTIAL

attributes. The types of use are presented below: Starland Business Park has been envisioned to support a variety of business types and designed to leverage site

## 4.1.1 Large Format Commercial

presence typically support businesses that need a large showroom, shop bays and large outdoor parking areas boundary to promote the business via the high visibility corridor, ease of access and availability of large lots. Large businesses that require high visibility of adjacent roadways by using the frontage for product display or building format commercial lots are envisioned to be 2.0-4.0 ha (5.0-10.0 ac) in size and area areas are generally retail based Located along Highway 9 and Highway 56, a number of large format commercial lots will be situated along the

### 4.1.2 Medium Sized Lots

0.8- 2.0 ha (2.0-5.0 ac) and generally consist of light and medium industrial uses. Light and medium industrial areas (emissions, noise, odors, vibrations, heat, bright light, or dust). servicing industries. Light and medium industrial uses are typically low impact and do not create much nuisance ranging from larger shops to laydown yards, and are ideal for smaller format processing, manufacturing, and provide for the development of a wide range of compatible commercial businesses and general industrial areas, A number of medium sized lots have been located near the center of the Plan Area. Medium lots are envisioned to be

## 4.1.3 Commercial/Industrial Retail

flexibility and variety of uses. Most commercial/industrial retail lots will have retail frontage with associated units with multiple tenants or businesses that require a small lot for an office and yard. These lots provide the most Commercial/Industrial retail lots are smaller sized lots, 0.8-1.2 ha (2.0-3.0 ac), that typically support commercial retail workshops, vehicle bays, or storage areas.

9

May 1, 2025

### 4.1.4 Special Project Area

plan has been shown to further subdivide the area and provide roadways for access. transportation, or specific site features. Should the Special Projects Area not find a suitable single user, a shadow area should be considered for unique uses that require a single-site, large lot that does not require much servicing, Located in the east portion of the Plan Area is a 11.89 ha (29.38 ac), area identified as a Special Projects Area. This

#### Table 1 – Area Use Summary

Land Description	Hectares	Acres	% of Commercial/Industrial Area
Large Format Commercial	12.14	30.01	26.5
Medium Sized Lots *including lease sites	13.53	33.43	29.6
Commercial/Industrial Retail	8.20	20.27	17.9
Special Project Area	11.89	29.38	26.0

### 4.2 LAND USE ZONING

## 4.2.1 Industrial and Commercial uses

been designed to support varying businesses and users that require various lot features. As all commercial and industrial land uses will be zoned Rural Business District (RB), Starland Business Park has

uses. The zoning district identifies a wide range of uses within permitted and discretionary. Most applications will fall under discretionary use and will require approval from Municipal Planning Commission. The purpose of the Rural Business District (RB) land use district is to provide for a range of commercial and industrial

storage facilities. per the parcel area requirements. At the time of subdivision, lot sizes will be determined based on market conditions and needs of potential buyers. The layout of Starland Business Park has been designed to support typical lot sizes but envisioned that businesses would consolidate lots to create the ideal property sizes to expand their operation or Full buildout of the areas is assumed to include individually subdivided parcels ranging from 0.8-12.14 (2.0-30 ac) as

#### 4.2.2 Open Spaces

### 4.2.2.1 Municipal Reserve

area will be compensated as cash-in-lieu. develop parks and dedicate land are limited. Municipal reserve dedication within the Starland Business Park Plan of connectivity to a larger open space system, and minimal significant environmental features, opportunities to or as cash in lieu of land as per Section 666 the Municipal Government Act. Due to the location of the Plan Area, lack The Starland Business Park is required to provide up to 10% municipal reserve dedication, either as land dedication



May 1, 2025

### 4.2.2.2 Public Utility Lots

The existing pipeline right-of-ways, stormwater retention ponds, overland drainage routes, or utility routes will be dedicated as Public Utility Lot as outlined in Table 2.0 – Land Use Statistics.

### Table 2 - Land Use Calculations

Land Description	Hectares	Acres	% of Net Developable Area
Gross Plan Area	58.02	143.36	
Net Developable Area	58.02	143.36	100.0%
Commercial/Industrial	45.76	113.09	78.9%
Rural Business District (RB)* *Including lease sites and Special Project Area	45.77	113.09	78.4%
Public Utilities	5.58	13.79	9.6%
PUL	2.15	5.32	3.7%
PUL Pipeline	1.18	2.91	2.0%
PUL SWMF	2.25	5.56	3.9%
Transportation Network	6.67	16.49	11.5%
Internal Roadways	6.67	16.49	11.5%

### 4.2.3 Development Guidelines

As the Starland Business Park is adjacent to two major transportation routes, all effort should be made to increase visual appeal via screening, plantings, building envelope considerations, and signage. The Plan Area will enforce design guidelines and standards that promote the development in a visually appealing, consistent, and organized manner while ensuring all development occurs to the satisfaction of Starland County.



Updated 25/02/10, 10:15 AM;8y: SSTAFFORD





May 1, 2025

### 5.0 TRANSPORTATION

#### 5.1 OVERVIEW

The proposed transportation system within the Plan Area has been designed as a simple network of service roads that will provide connectivity within and surrounding the Starland Business Park. The network will also accommodate large-sized commercial or industrial vehicles and is designed in accordance with the requirements of *Starland* County, Alberta Transportation Standards, and best practices for industrial developments.

connections and how they would affect and be affected by future development within the Plan Area. A Traffic Impact Assessment (TIA) was completed to take into consideration the existing and future roadways and

### 5.2 ROADWAY NETWORK

### 5.2.1 External Roadways

9, north of the Plan Area. additional road widening will be required for either highway. There is one adjacent private farm access along Highway 2766 provides additional width to both highways as well as a large undeveloped corner cut into the Plan Area. No carefully considered to provide adequate separation from the Highway 9/56 intersection. A road widening Plan 001 The Plan Area is bordered by Highway 9 on the north and Highway 56 on the west. Access to the highways has been

directions access is proposed in the north. Primary access to the Plan Area will be provided in the SW corner along the south property line. A second all

#### 5.2.2 Service Roads

along both sides of the roadway. lanes and ditches on both sides. Seeded ditches will have a maximum 1:3.5 slope, and a 2-3.0 m bottom will run Figure 7 - Service Road Cross Section, is a 30.0 m wide rural gravel cross section consisting of two 4.00 m driving logical and convenient movement for all types of vehicles within the Plan Area. The proposed roadway, shown in The internal roadway network has been designed to allow direct access from both adjacent highways as well as

and the type of intended businesses, pedestrian sidewalks have not been envisioned within the Plan Area. Due to the location of the development and considering limited pedestrian movement, low anticipated traffic volumes.



May 1, 2025

Figure 7 – Service Road Cross Section



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May 1, 2025

# 6.0 INFRASTRUCTURE SERVICING

#### 6.1 OVERVIEW

Servicing for the Starland Business Development will ultimately consist of a piped water system and an overland stormwater collection and retention. Sanitary sewer will be collected on individual lots for storage and disposal.

### 6.2 WATER SERVICING

are provided below. flows; as such, a fire hydrant system will not be installed in Starland Business Park. Additional fire protection details system to accommodate their water requirements. It is important to note that the water system will not provide fire connections stubbed at every lot. Each lot owner will be required to size and install a holding tank and pressure system will consist of an interconnected piped system located within the roadway right-of-way with individual service to this existing regional line to supply water to the Starland County Business Park. The overall water distribution a low-pressure supply line that provides trickle feed water to the surrounding area. A new water line will be connected approximately 800m to the west of the Plan Area, heading NS along the west boundary of NE 11-31-20-4. This line is As shown in Figure 8 – Water Servicing, an existing Regional Starland County Supply Waterline is located

future expansions may be required or that higher volume users need provide additional onsite storage. This proposed end users and their requirements, sizing the water system would need to make assumptions and recognize that pump house to provide a pressurized water distribution network throughout the Business Park. Without knowing the system not be utilized, the site will be reverted back to Rural Business District (RB). site is in the south central part of the Plan Area, final location may be adjusted. Should the reservoir water distribution water distribution system does not include fire protection and would incorporate smaller disruption pipes. A reservoir A second water distribution system will be explored during detailed design, which includes a single reservoir and

#### 6.3 SANITARY

for constructing and maintaining underground septic tanks or vaults. These would then be emptied, and the waste transferred to a nearby waste facility using a private company's waste truck. Due to the location of the Plan Area, there will be no overall sanitary servicing. Instead, each site will be responsible

## **6.4 STORMWATER SERVICING**

to pre-development rates. Stormwater will be collected in ditches along the roadways, which will feed into the storm ponds. From the ponds, water will be released at a predetermined predevelopment rate to the southeast into West Michichi Creek using existing drainage channels. SWMF's will be designed to accommodate 1:100 year storm water flows for the entire Plan Area, and restrict outflows northeast and southeast corners of the Plan Area to maintain existing drainage pattems sloping to the east. The As shown on Figure 9 - Stormwater Servicing, two stormwater management facilities (SWMF) are proposed in the

Environment Initiatives, the SWMF's will not only detain stormwater from major storm events but also enhance water Both SWMF's will be constructed as wet ponds. Through best management practices, as directed by Alberta quality to meet Alberta Environment's standards before discharging out of the development.



May 1, 2025

equipment and sufficient hose are available to appropriately utilize the dry hydrant. responders. A review of the equipment of responding fire stations will be required to ensure that appropriate pond. The installation of a dry hydrant will provide a source of water supply and safer operations for the emergency As Starland Business Park will not have fire hydrants, one dry hydrant has been proposed in the southeast storm

## 6.5 UTILITIES (SHALLOW UTILITIES, POWER DISTRIBUTION, ETC.)

Shallow utility services will be extended from existing areas to service the Plan Area.

power to determine needs and best practice for industrial commercial development. easements will be determined at the subdivision approval stage. The owners/developers should contact ATCO Power service connections are located along the north boundary. The details of tie-in locations and required

easements will be determined at the subdivision approval stage. within the development area are to be relocated as development occurs. The details of tie-in locations and required Natural gas will service this development with the provision of a feeder originating from the north. Existing gas lines

efficiencies and economic opportunities for plan area businesses. The details of service providers, tie-in locations and Telecommunications i.e. fibre optics, shall be encouraged within the Plan Area in order to maximize communications required easements will be determined at the subdivision approval stage.

## 6.6 EMERGENCY SERVICES

firefighting capacity varies significantly from municipality to municipality. The code states that: approximately 3.8 km northwest of the entrance to the Plan Area. The Alberta Building Code recognizes that Emergency services for the development will be provided by the fire station in the Village of Morrin, which is

considered. necessary to compensate for this deficiency. Automatic sprinkler protection may be one option to be department, fire protection requirements in addition to those prescribed in this Code, may be either in terms of floor area or building height, to receive reasonable protection from the municipal fire relation to local firefighting capability rests with the municipality. If a proposed building is too large, "The responsibility for controlling the maximum size of building to be permitted in a municipality in

the local firefighting service, facilities. This is, by necessity, a somewhat arbitrary decision and should be made in consultation with restrictions to ensure that the maximum building size is related to available municipal fire protection Alternatively, the municipality may, in light of its firefighting capability, elect to introduce zoning who should have an appreciation of their capability to fight fires."

development and require significantty less water storage. While these sprinkler systems are generally affordable to Beyond this, the installation of sprinkler systems in buildings can greatly increase uses available to users of the area for medium to low hazard industrial occupancy) in area could require no available water supply for firefighting In general, there are options available to users of the development depending on several factors such as building use, size, and available water supply. For example, buildings under 3 stories in height and under 600 m2 (1200 m2 in possible to coordinate users and allow for design and installation of shared water storage systems building will be required install their own water storage. It is recommended that consideration be made where install, the water storage component presents the greatest obstacle with respect to cost, space, and operation. Each

9

May 1, 2025

The considerations herein are described in very general terms and are not a comprehensive list of all the factors that may arise. The amount of detailed code, regulation, and design options is exhaustive and subject to differing interpretation. Whereas these matters affect zoning decisions, safety codes, municipal operations, project economics, etc., it is recommended that Starland County make special consideration to inform and educate each of those involved with the project to the appropriate level and engage consultants as required to effectively manage fire protection services.







May 1, 2025

# 7.0 DEVELOPMENT AND PHASING

#### 7.1 OVERVIEW

will also incorporate the development of the SE stormwater management facility, Phasing boundaries shown on Figure 10 – Development Phasing Plan are conceptual in nature and may vary when redesignation and subdivision applications are made. Size and location of each phase may vary based on market demands and serviceability. The Starland Business Park will be developed as multiple phases, beginning in the south, along Highway 56. Phase 1

# 7.2 REDESIGNATION AND SUBDIVISION

the LUB and not conflict with statutory plans. will be undertaken as required. Guided by this Area Structure Plan; redesignation and subdivisions must conform to Proposed redistricting and subdivision applications that align with the land use designations described in this ASP

### 7.3 PLAN INTERPRETATION

included for visioning purposes only and should not be used to identify exact product types or locations. The Starland Business Park ASP is intended to guide development within the Plan Area; all figures shown have been

hundredth. Due to the conversion and subsequent rounding shown in this Area Structure Plan, it is recognized that Calculations are completed in the unit of m<sup>2</sup> and then converted into hectares and acres, rounded to the nearest not all numbers or calculations appear correct, specifically for small areas. All area calculations presented in this ASP have been determined using AutoCAD measurements, recorded in m<sup>2</sup>.

#### 7.4 AMENDMENTS

Should this ASP require amendment, a formal amendment process will be required including consultation with sections change such as minor servicing revisions, minor land use boundary changes, or minor alignments to roadway crossensure that the text and maps remain accurate. An amendment will not be necessary if the intent of the ASP does not evaluate and justify the amendment. Such changes will be made from time to time as determined necessary to amendment to the Plan is requested, the applicant will be required to submit supporting information necessary to incorporation of the Special Project Area, or re-designating a parcel of land from one land use to another. Where an or land uses. Changes may include adding or removing a public road, adding or removing a public utility lot, Starland County and approval via Council. Amendments will be required if changes are made to roadway alignments

