

**Town of Black Diamond
Trails and Pathways Master Plan**

May 2006



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- Staff

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- Appendix C - Supporting Document from the March 30, 2006 Open House



1. Introduction

As the Town of Black Diamond and surrounding areas grows and develops, demand for recreational activity increases on the trails and pathway systems. The factors that contribute to these anticipated changes include an aging population and empty nesters, suburban sprawl from nearby cities, and the consumption of natural landscapes. The Town of Black Diamond is an exceptional rural community possessing a mix of residential communities, historical buildings, rural landscapes, woodlands and river valley, and open space systems. An established trail and pathway system should respect these characteristics, building awareness and appreciation of the Town of Black Diamond for both local residents and visitors. Currently there is no formal document that addresses pedestrian movement within the Town of Black Diamond, nor recommendations and guidelines in place to establish the necessary building blocks and framework for immediate as well as future community needs with respect to an integrated trails and pathways system.

Recognizing the increased demand for trails by individuals and various user groups, the Town of Black Diamond is forced to develop new approaches and guidelines to provide opportunities for all users. With many different interest groups, segmentation of trails for specific uses and user groups can be resolved through an overall Master Plan that incorporates continuous and integrated trail system for immediate and future needs.

1.1 BACKGROUND

The Town of Black Diamond is committed to developing a trail and pathway system to interconnect the community of Black Diamond and to improve the overall quality of life of its residents.

The Black Diamond Parks & Recreation Committee retained IBI Group to prepare an overall Trails and Pathways Master Plan. The Master Plan gathered all relevant information from existing plans, guidelines, and studies, which were incorporated into an inventory of existing trails and pathways within the Town limits and then identified connections to the surrounding rural area. An assessment of the strengths and weaknesses of the trail system was subsequently completed and recommendations for improvement are included within this document. The guidelines and standards outlined in this Trails and Pathways Master Plan provide recommendations for future pathway



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development and accommodate anticipated expansion of a trail and pathway system within the Town of Black Diamond.

1.2 PURPOSE AND APPROACH

The general purpose of the Trails and Pathways Master Plan for the Town of Black Diamond was to create a document that addresses existing community needs, requirements for trails and pathways, with consideration of the future pedestrian circulation needs within the community. The Master Plan incorporates information from existing plans, guidelines, and studies provided by The Town; along with an inventory of the existing trails and pathways, and recommendations for future development of the pathways and trails which were generated from consultation with the residents of the Town of Black Diamond, the Parks and Recreation Committee, Town Council and various user groups. In an effort to accomplish this primary purpose, IBI Group identified the following priorities:

1. To inventory existing trails, pathways and significant routes and compile into an overall Master Plan;
2. To identify missing links and areas that require upgrading;
3. To identify opportunities for historical, commemorative and interpretive circulation routes;
4. To establish a set of principles to guide trail and pathway development of current community needs and future development;
5. To locate conceptual ties to regional pathway systems;
6. To produce an implementation and phasing strategy.

1.3 SCOPE

The study area for this report is within the Town of Black Diamond town boundary (see *Exhibit 1.1: Study Area Map*). It is bounded by the current town boundary with consideration to future Town expansion and anticipated land acquisition. Currently there are discussions revolving around the possible amalgamation between the Town of Black Diamond and the neighbouring Town of Turner Valley. The Trails & Pathway Master Plan shall include considerations of potential open space linkages between the two communities, should amalgamation occur.



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1.4 PUBLIC PARTICIPATION

Public participation has been an integral part of the overall process of developing the Trails and Pathways Master Plan. Throughout the course of the project, three public open houses and workshops were held between January and March of 2006. This allowed committee members, residents, and various user groups to provide insight and information regarding the current pathway system along with participation in the future assessment of community needs as it relates to new trails and pathways within the Town of Black Diamond.



On January 19, 2006 an initial open house and workshop encouraged attendees to describe the identity of the Town of Black Diamond and what it means to be part of this rural Town. The workshop provided an opportunity to include feedback on current conditions of existing pathways and pedestrian movement as well as identify missing and desired connections throughout the Town of Black Diamond. The open house and workshop generated valuable information and provided the momentum to move the project to the next stage of development (*refer to Appendix A: Supporting Document from the January 19, 2006 Open House*).



On February 28, 2006, a second open house was held to summarize the findings and information provided by the public and to request additional information and input regarding pathway priorities and surface treatment. Attendees were asked to review and comment on plans (based on information compiled from the first open house), identify which immediate connections were important to the community user groups, and what would be a desirable surface treatment for pathway connections. The information provided was reviewed, compiled, and interpreted into what would be the preliminary draft of the overall Trails and Pathways Master Plan in preparation for the final public open house (*refer to Appendix B: Supporting Document from the February 28, 2006 Open House*).

The final open house held on March 30, 2006 consisted of presentation panels identifying desired pathway priorities and connections within the Town with potential surface treatments for the overall pathway system development. This open house was held to confirm that the public input provided was interpreted and reflected in the

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preliminary Master Plan. The open house also allowed a final opportunity to provide any additional information or input prior to the preparation of the final document and presentation to Town Council (refer to *Appendix C: Supporting Document from the March 30, 2006 Open House*).

The planning process was a success, as many people from the Town participated and the comments that were received from the open houses were positive as people recognized that their input was considered during the development of this Master Plan.



2. Guiding Principles

2.1 INTRODUCTION

The principles of the Trails and Pathways Master Plan are a reflection of the general views from the people of the Town of Black Diamond. Along with research and guidance from the consultants, a Vision Statement was created. This Vision Statement sets the tone and direction for design goals and objectives as well as standards for the entire Trails and Pathways Master Plan.

2.2 VISION STATEMENT

To preserve the quaint and small town atmosphere while accommodating growth and creating a sustainable trails and pathway system that protects, preserves, and enhances community health and the environment.

2.3 GOALS OF THE TRAILS AND PATHWAYS

The definition of trails includes many types of land uses and functions and it is recommended that trails and pathways within Black Diamond obtain one or all of the following goals. The five overlapping and complementary goals are: **Preservation and Conservation; Protection and Accessibility; Beautification; Recreation and Tourism; and Education.**

Preservation and conservation involves the maintenance and improvement of the healthy biological environment of Black Diamond and the protection, preservation and enhancement of valuable natural and historic features and environmentally sensitive areas.

Protection and accessibility involves providing and maintaining a safe experience for all users by guarding against injury and harm to people and damage to property through the recognition of land hazardous to building trails. Examples include steep slopes and flood zones that are unsafe and unsuitable for trails. Avoiding dangerous points of conflict, such as road crossings were also a consideration.

The trail and pathway system is an amenity for the entire Town and should be **accessible** by all users, regardless of mobility.

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The trail and pathway system should assist in the **beautification** of the Town and protect and establish a desirable image for Black Diamond.

The role of trails as a **recreational** facility and for **tourism** is to provide an adequate land and facility base to accommodate the recreational trends and needs for Black Diamond residents and visitors for the present and future.

Trails should provide both active and passive activities for all ages and income and should reflect a wide variety of cultural and social interests.

Education through active or passive means about the natural environment, trail etiquette, and the history of the Town. Through discreet and attractive signage, trail users will learn more about the surrounding landscape, the importance of protecting the environment, and a small town atmosphere.

The benefits of these goals for trails will reap economic benefits. By providing quality **recreational** and **tourism** resources, the Town will project a positive image. Preserving valuable natural and historical resources and protecting against development in hazardous areas will help to shape the Town in a positive way by retaining the Town's existing population base and attracting new residents.

2.4 OBJECTIVES AND STANDARDS

With the comments from the open houses, guidance from the committee and research about industry standards, the following objectives and standards are recommended for the Master Plan. In all instances, design criteria and standards should be in spirit with the vision statement and the goals of this Master Plan. In cases where there is a conflict between standards and goals of the Master Plan, the goals will always supercede the standards.

The following are the objectives of this Trails and Pathways Master Plan along with the corresponding design standards and guidelines

Objective 1: *Create a trails and pathways system that preserves the small town atmosphere and builds on the sense of community.*



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- **Standards / Guidelines:**

1. A system that has access points from all parts of the Town.
2. Looped routes accessible by all age groups and user groups within the Town.
3. A mix of natural and paved trails.
4. Avoid duplication of routes but support the small town's population and projected growth.

Objective 2: *Develop a complete and cohesive trail and pathway system.*

- **Standards/ Guidelines:**

1. Closed loop system.
2. Provide destination points and logical trailheads.
3. Provide appropriate signage and maps at various points along the route.

Objective 3: *Provide a trail system that is accessible and safe for all user groups.*

- **Standards/ Guidelines:**

1. Offer a variety of trail types to accommodate different levels of accessibility.
2. Offer different trail surfacing for different groups.
3. Accessible trails should be a paved looped system without dead ends.
4. Provide natural pathways for lower impact trails and more difficult trails that branch off main paved trails and /or are looped trails.
5. Trail crossing should be at logical points such as road intersection with proper markings and warnings.
6. Trails and pathways should be maintained to a certain



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standard for the safety of the user. This should include but not be limited to, snow clearing in the winter months, pathway repair caused by flooding, usage or third party damage.

Objective 4: *Create a trail system that minimizes disturbance to the environment.*

• **Standards / Guidelines:**

1. Minimize trail duplication – avoid having two or more trails running side by side within close proximity.
2. Minimize impact on the water's edge.
3. Avoid steep, sloped areas to minimize environmental disturbance and promote safe routes.
4. Preserve environmentally significant areas.
5. Provide educational signs about native plants and animals in the area.

Objective 5: *Visioning for future trails to connect future and existing developments within the Town.*

• **Standards / Guidelines:**

1. Logical terminating points that could connect to future trail extensions beyond Black Diamond.
2. Suggest future trail locations in future developments that will connect with existing trails and pathways.
3. New developments need to connect to the trail Master Plan and provide a park or space as a focal point and/or trailhead.

2.5 USER GROUPS

The type and variety of pathway users was determined by a number of underlying variables such as accessibility, type of use and amount of anticipated pathway use. The following describes the varied type of pathway users in the Town of Black Diamond.

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2.5.1 PATHWAY USERS

Defined as the largest group of users consisting of anyone from the casual walker to an experienced hiker. People found in this group include but is not limited to walkers, joggers, hikers, bikers, inline skaters and senior citizens. Those included in this group utilized the pathway system as both a passive and active method of recreation and would include all levels of pathways from paved surfaces to natural trails.



2.5.2 SIDEWALK USERS

A group considered with more of a functional or task orientated desire. Again, this group would include a majority of different user groups, however their presence on the sidewalks would primarily be to move from a starting point (i.e., home) to a destination point (i.e., retail shops). Alternatively, sidewalks should also connect to the primary pathway loop and act as a means of accessing the open space system.

2.5.3 ROADWAY USERS

The roadway users could increase as the recreational trends change. Currently the only legally permitted user group on the roadway besides motorists are cyclists, however with the growing number of in-line skaters and skateboarders, there could be an increase in users. Although in-line skaters and skateboarders could use the sidewalks and pathways; the smooth continuous surface of the asphalt is more attractive and would also reduce conflict with pedestrians.

Acknowledging user safety, it may be more suitable for in-line skaters and skateboarders to use the pathway system. In such instances pathway etiquette should be established to minimize conflict with other pathway users, including giving the pedestrian the right-of-way and restricting skaters to low volume and low speed. If the Town wishes to allow in-line skaters and skateboarders to use the roadways like cyclists, the Transportation Association of Canada suggests that a bylaw be passed which would prohibit "reckless" or "endangering" activity by skaters.



3. Trails and Pathways Route Selection and Design Criteria

3.1 INTRODUCTION

The trails and pathways routes are selected to accommodate the current needs of the Town with consideration for future expansion needs of the Town. The planning process was vital to identifying the routes and was a synthesis of the research and information gathered from the open houses that finalized the route selection. Exhibit 3.1: Master Plan Design Process illustrates the process that developed the Master Plan.

3.2 SUPPLY INVENTORY

The first step in the Master Plan process was building an inventory of maps and documents. Upon obtaining base material from the Town of Black Diamond, the project team established a detailed inventory of the existing trails and pathways. The inventory of the existing trails and pathways (within and around the Town that are the responsibility of the Town) were reviewed by the consultants, committee and public to:

- Determine if the existing trails and pathways successfully link existing residential neighbourhoods to one another and to existing open space recreational areas;
- Determine if the existing trails and pathways are attractive, appealing and accessible to a majority of potential users;
- Determine if the existing trails and pathways provide for different settings and uses;
- Determine if the existing trails and pathways are safe in their current condition;
- Determine how the trails can be designed/improved for greater safety;
- Identify weaknesses in existing pedestrian/cyclist transportation routes throughout the Town, including potential conflict areas between vehicle and pedestrian traffic;
- Identify opportunities for future desired routes and connections; and
- Identify constraints for future and existing trails and pathway routes, such as land ownership issues.



3. Trails and Pathways Route Selection and Design Criteria

Three inventory maps were produced from the first open house and workshop held on January 19, 2006. The community was asked to participate by indicating points of interest within and surrounding the Town, missing linkages and corridors, and opportunities and constraints of existing and potential routes (refer to *Exhibits 3.2.1 through Exhibit 3.2.3*). Along with a detailed questionnaire (refer to *Appendix A*) the information was vital for completing a supply inventory.

3.3 SUPPLY ANALYSIS

With the information gathered from the first open house a compilation map was completed (refer to *Exhibit 3.3: Compilation Map from January 19, 2006 Open House*), which served as a good indication of the area the current trails and pathway system serviced as well as areas that required improvement. Key issues that required attention included:

- Providing missing links to different areas of the community;
- Developing a looped system;
- Making more trails and pathways accessible for all user groups;
- Rerouting existing trails that exist on private property;
- Providing future trails to important destination points;
- Developing a hierarchy of trail types and recommending priorities for trail and pathway development.

These issues were addressed and synthesized into a Priorities and Surfacing Map (refer to *Exhibit 3.3.1 Priorities and Surfacing Map for February 28, 2006 Open House*). This map was the first draft of the Trails and Pathways Master Plan, which was reviewed by the committee and public at the second open house on February 28, 2006. It was at this open house that the public was asked to rank each trail segment as to their recommendations for order of trail development and suggest an appropriate surfacing type (refer to *Appendix B*). The public was also asked if they felt their concerns and suggestions were given consideration in the development of this Plan. Their response was positive and as such the supply analysis segment of the project was well received and the Plan moved forward to the next stage of route recommendation and design criteria.



3. Trails and Pathways Route Selection and Design Criteria

3.4 ROUTE RECOMMENDATIONS

The proposed Master Plan recommends a trails and pathways system of 19.3 km. The route recommendations are primarily to incorporate the pathways and trails into a cohesive looped system and are in keeping with the goals and objectives of this Master Plan. Trails and pathways should connect the recreational facilities, points of interest and other destination points throughout the Town so that all user groups are able to enjoy a complete system. Opportunities to use existing utility right-of-way and other corridors as part of the trail and pathway system should be considered. As well, opportunities to connect the pathway system with pathway and trail initiatives of other agencies should be pursued.

3.4.1 DESTINATION POINTS



Existing and potential future trail and pathway locations were examined and determined based on pedestrian accessibility to certain points of interest or destinations within the Black Diamond community. Destination points could include historical, cultural, or interpretive points of interest such as Main Street, historical buildings, river valley, natural woodland areas, Friendship Trail and the historical Buffalo Jump. Pathway and trailheads would also be included as destination points or check points along the pathway system that would act as locators and direct pathway users to other points of interests.

3.4.2 MISSING LINKS

To achieve a comprehensive pathway and trail system, recommendations to address missing links and provide a continuous open space system have been included. These missing links and connections were identified during the public consultation process.

3.5 HIERARCHY

The Trails and Pathways Master Plan is broken down into three tiers, primary pathways, secondary pathways, and tertiary pathways (refer to *Exhibit 3.5 Hierarchy Trails and Pathways Master Plan*). The criteria for this system are based on the following criteria:

3. Trails and Pathways Route Selection and Design Criteria

- Accessibility of the trail for the different user groups;
- Focus of the pathway design, whether it is to connect places within the Town or AllirvaMissing links in the trail system.
- Type of trail/pathway system (main looped trail or an alternate trail);
- The amount of user traffic it captures.

3.5.1 PRIMARY PATHWAY

The role of the primary pathway is to provide highly accessible trails and pathways which create an overall larger looped system within the Town of Black Diamond. This pathway is created to capture the majority of the Town's population and has access points within a short walking distance for all residents of the Town (refer to *Exhibit 3.5.1: Primary Pathway Plan*). Total length of primary pathways is 6.3 km.



- **Accessibility:** All user groups.
- **Focus:** A comprehensive pathway that can be accessed from all parts of the Town.
- **Type of System:** Loop system that connects different areas of the Town and where additional trails and pathways can branch off.
- **User Traffic:** Captures the largest amount of users.

3.5.2 SECONDARY PATHWAY

The secondary pathway is a branch off from the primary pathway, although it runs in some places parallel to the primary pathway, the trail type is designed for a more specific user group and has a different surface. It generally provides alternate routes to different destination points and connects future developments to the overall trail and pathway system (refer to *Exhibit 3.5.2: Secondary Pathway Plan*). Total length of secondary pathways is 7.2 km.

- **Accessibility:** Most user groups.
- **Focus:** Connect neighbourhoods to the river system and other destination points.
- **Type of System:** Links and additional looped systems that branch off

3. Trails and Pathways Route Selection and Design Criteria

the primary pathways.

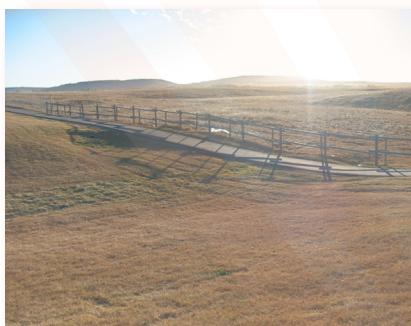
- **User Traffic:** Captures many types of users.

3.5.3 TERTIARY PATHWAY

The tertiary pathways are alternate routes and extensions that branch off from both the primary and secondary pathways. These pathways are designed to target a specific user group or to capture a specific population (*refer to Exhibit 3.5.3: Tertiary Pathway Plan*). Total length of tertiary pathways is 5.8 km.

- **Accessibility:** Some user groups.
- **Focus:** Informal trails and alternative routes.
- **Type of System:** Extended branches for specific uses or to capture a specific neighbourhood.
- **User Traffic:** Provides additional trails for some users and alternative routes for future developments.

3.6 PHASING AND PRIORITIES



The construction of the Trails and Pathways Master Plan will occur over an extended period of time, dependent on funding and the growth of the Town. It is recommended that the trails and pathways be built in three phases, the first phase being trails and pathways based on the needs assessment and the goals of the Master Plan that have a high priority for completion. The second phase, trails and pathways with medium priority, and lastly the third phase, trails and pathways with low priority. The trails and pathways route is schematic and the plan recommends that flexibility be permitted with the phasing development to accommodate issues if opportunities or constraints arise (*refer to Exhibit 3.6 Phasing Plan*). The length of each phase is not set, nor does one phase have to be complete prior to the start of the next phase. The amount of pathway or trail constructed is dictated by the allocated budget or available funds to complete the work.

3. Trails and Pathways Route Selection and Design Criteria

3.6.1 PHASE 1: HIGH PRIORITY TRAILS

The suggested trails and pathways for Phase One of development and construction are those linkages that address immediate needs, safety, accessibility issues, and create the primary looped system. These are all items that the community deemed as high priority. At locations where pathways are suggested along existing sidewalks, it is recommended that these sidewalks be evaluated and determined if they are up to the design standards of this document and should be considered for upgrading (see Section 5.3). Likewise for all other trail type surfaces (refer to *Exhibit 3.6.1: Phase 1: High Priority Trails Plan*).

3.6.2 PHASE 2: MEDIUM PRIORITY TRAILS

The suggested trails and pathways for Phase Two of development and construction are ranked as medium priority, as they provide additional linkages and resolve more accessibility issues such as providing more hard surface trails for people with different abilities and more connections to different points of interests (refer to *Exhibit 3.6.2: Phase 2: Medium Priority Trails Plan*).

3.6.3 PHASE 3: LOW PRIORITY TRAILS

The final phase, Phase Three, consists generally of trails and pathways that address the future needs of the Town and provide additional trail and pathway options for the different user groups. These trails and pathways tend to capture a smaller amount of users and as such are ranked as low priority. Even though it is of low priority, it is still of importance to the overall design and vision of the Master Plan and should be constructed (refer to *Exhibit 3.6.3: Phase 3: Medium Priority Trails Plan*).

Priority for pathway construction may change depending on the direction and growth of the community. The Master Plan should be considered flexible to accept and accommodate priority shifts.



3. Trails and Pathways Route Selection and Design Criteria

3.7 SURFACING TYPE

The selection of surfacing type for the trails and pathways is important and considered based on the goals and objectives of the Master Plan. The design of the trails and pathways are such that each looped segment is of one surfacing type. This is to avoid users from being stranded along a trail or pathway because the surfacing type changed and is no longer suitable for their level of use (*refer to Exhibit 3.7: Surfacing Plan*).

As a result of the planning process three types of surfaces are recommended: asphalt, concrete, and natural.

3.7.1 ASPHALT

Asphalt pathways are designed to capture all user groups. It is accessible by all people and provides a smooth and safe surface. These pathways generally create a larger primary loop and are located where high volume of users is projected (*refer to Exhibit 3.7.1: Asphalt Surfacing Plan*).

All pathways designated as asphalt on the surfacing map are to be paved with 75mm depth of City Mix "B" asphalt. Ensure that all asphalt pathways have a smooth, even surface, and cross slope at a maximum 2%. At a transition between pathway surfacing, a construction joint should be installed and pathways should match to be level. The edges of the asphalt pathway are to be tamped to a minimum density of 96%. It is imperative that a proper base is installed to ensure a good quality pathway. All organic soils are to be removed and exposed soil is to be compacted to minimum 98%. Granular fill may be added to bring the base to the appropriate grade. Root barrier should then be installed if existing vegetation is evident followed by 100mm depth of 25mm crushed gravel that has been compacted to 98% S.P.D. The asphalt surface is then installed over the crushed gravel base (*refer to Section 5.1 for more details*).



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3.7.2 SIDEWALK / CONCRETE

Concrete pathways are those along existing sidewalks, or along the roadway. These pathways are located within the residential and commercial areas of the Town and capture users who have a specific destination in mind, or who wish to walk to another trail.



It is important that existing sidewalks be reviewed on a case-by-case basis to determine if the sidewalks need to be repaired or replaced. In all instances there should be a smooth transition between new and existing concrete sidewalks (*refer to Exhibit 3.7.2: Sidewalk / Concrete Surfacing Plan*).

Both monolithic and separate sidewalks are to be constructed of standard grey concrete. Sidewalks should have a broom finish with a 50mm trowelled edge. Expansion joints are to be installed every 1.5 meters. The base underneath the concrete sidewalk is equally as important to ensure a good quality and long-lasting sidewalk. The base should be constructed of 100mm depth of 25mm crushed gravel compacted to 98% S.P.D. The crushed gravel base and concrete sidewalk are to be installed over a compacted subgrade base (*refer to Section 5.2 for more details*).

3.7.3 NATURAL



Various surfaces may be used for all trails designated as natural. Compacted soil, wood mulch, shale, or crushed gravel may all be considered as approved surface types.

These trails are designed for a smaller user group and provide variety and interest to the overall Master Plan. Natural trails are also ideal within wooded areas, along the river, and other natural environments; as they minimize the amount of disturbance to the natural environment. This is in keeping with the goals of the Plan (*refer to Exhibit 3.7.3: Natural Surfacing Plan*).

Natural trails should have a 98% compacted subgrade base. Where natural trails meet other pathway surfaces, an even at grade match between the two surfaces is desired (*refer to Section 5.3 for more details*).

3. Trails and Pathways Route Selection and Design Criteria

3.8 SAFETY MEASURES

As a recommendation of this Master Plan safety is a priority at all stages of trail development. The design standards in Section 5.0 are recommended to provide a safety zone along all pathways and trails and at intersections or areas of conflict. It is important that the safety of the user not be compromised and that no trails or pathways be developed under this document by the Town that do not follow such measures.



4. Implementation Strategy

4.1 INTRODUCTION

To achieve a successful trails and pathway program a designated staff committed to recreation and non-motorized transportation is needed, as well as an active citizen's advisory committee and civic officials. A recommendation of this report would be that a coordination team be established to manage and direct the planning, design, construction, maintenance and operations of the trails and pathways system.

This Trails and Pathways Master Plan is a guide for the development of future trails and pathways within the Town of Black Diamond. The locations of the trails on the maps are schematic and are not to be used for layout and construction purposes, but rather used as a guide along with the goals, objectives and design standards set forth in this document. When a trail is to be implemented, a consultant(s) with expertise in trail and pathway development should be contracted to provide consulting services. Upon which the construction and layout should be in keeping with all the standards set forth in this document; in order to preserve the vision of the Town of Black Diamond for the Trails and Pathways Master Plan.

PLAN OF ACTION:

1. Assign Coordination Team.
2. Review budget for yearly construction and maintenance.
3. Apply for outside funding or other fundraising options.
4. Select trail and pathway segment for development and/or repair as per this master plan.
5. Contact potential consultants for proposal for professional services.

4.2 FUNDING

In order for the goals and objectives of this Plan to be realized, funding must be secured. It is desirable to establish a secure base of funding to ensure continued expansions, development and maintenance of these important amenities. Trails and pathways should not be developed if funding or budgets to develop and maintain them is not available.



4. Implementation Strategy

An immediate source of funding is from the Town. Where possible, funding should be secured from the annual budget since trails and pathways are such an added amenity and value to the Town.

External sources of funding include community planning. As the pathway system extends into new areas of development there are opportunities to utilize the standard development agreement, whereby developers are required to build regional pathways as part of the parks and open space program. With the Master Plan in place suggesting locations and priorities, the Town could either ask the developer to build the trail system that is directly in contact with the development or take the money in lieu to be used to build another segment of the pathways plan which may have a more pressing priority.

4.2.1 PROVINCIAL FUNDING

Provincial funding is also an option and should be researched annually. Some agencies to contact are:

Alberta Sport, Recreation, Parks and Wildlife Foundation: Alberta Community Development

This agency is funded through Lottery monies. Government departments may be considered for grants through partnerships; government agencies may be funded through arms' length bodies (societies, councils, etc).

Provincial Active Living Network

This is comprised of individuals, groups, companies, municipalities and organizations to promote active living; includes Alberta Community Development as a member. Program delivery and service groups include:

- The Alberta Centre for Well-being
- Alberta's Be Fit For Life Network



4. Implementation Strategy

4.2.2 OTHER FUNDING

Governments are not the only source of funding. Non-profit and environmental agencies make monies available for environmentally-positive initiatives. These groups may not provide capital funding, but often provide money to towards studies or plan implementation (eg., education programs, special events).

Examples of agencies which may help fund trail and pathway projects/programs include:

- Sustainable Alberta
- Alberta Environment Network Society
- Alberta Sport, Recreational, Parks and Wildlife Foundation – will fund trail building.
- Alberta TrailNet
- Trans-Canada Trail Foundation

Private corporations which provide funding for environmental initiatives include:

- Canada Trust: Friends of the Environment Canada Fund
- Allstate Foundation Canada – provides financial support to registered charitable organizations delivering educational programs on the environment.
- Shell Environmental Fund – projects must be action-oriented to improve and protect the Canadian environment.



Community fund raising is also an option that should be explored and can be initiated by anyone in the Town to generate excitement and awareness of the Trails and Pathways System. Donations could also be accepted for smaller items such as site furniture or signage.

5. Design Standards and Maintenance

It is important that the development of all trails and pathways within the Town of Black Diamond follow these standards. Furthermore, the Town should only develop trails and pathways if funding is also in place to maintain the pathways.

5.1 TRAIL STANDARDS

Numerous surface treatment options are available for natural pathways. Possibilities include compacted soil, wood mulch, shale, or some form of crushed gravel. The standard width of a natural pathway is 1.5 meters with a 0.5 meter clearance on both sides of the path. Rehabilitation with topsoil and seed should also occur within a minimum of a 0.5 meter distance on either side of the path after construction is complete. A vertical clearance of 2.1 to 2.4 meters is recommended requiring clearing and pruning of trees as required within this vertical and horizontal zone (*refer to Exhibit 5.1: Natural Pathway Detail*). The natural pathway location should be reviewed on a site-by-site basis and aligned to minimize the amount of disturbance to the existing trees and natural environment.

Natural trails or pathways require annual maintenance and should be inspected throughout the year to ensure the surface is safe for pedestrians. As part of the annual maintenance trails should be inspected to identify areas requiring repair. Typical maintenance on this standard of trail would include some minor re-grading and top lift of the surface treatment (soil, gravel, shale, etc.) and compaction to achieve a consistent level surface.

5.2 PATHWAY STANDARDS

There are two acceptable widths for asphalt pathways: 2.0 meters and 2.5 meters. The width of the pathway should be determined on a site-by-site basis, depending on available space and hierarchy of pathway required. Asphalt pathways are to have a 1.0 meter clearance on both sides of the path with a vertical clearance of 2.5 meters. Clearing and pruning of trees within these clearances is required. A minimum of a 1.0 meter distance on either side of the path will need to be rehabilitated with topsoil and seed once construction of the pathway is complete. The asphalt pathway should be aligned to minimize the amount of disturbance to the environment (*refer to Exhibit 5.2.1: 2.5m Width Asphalt Pathway Detail and Exhibit 5.2.2: 2.0m Width Asphalt Pathway Detail*).

5. Design Standards and Maintenance

Maintenance for paved pathways should include annual inspections to identify any failure, damage, or rehabilitation required. Based on hierarchy and available maintenance budgets, it is our recommendation that all paved pathways remain clean and clear of debris to allow year round accessibility for all users.

5.3 SIDEWALK STANDARDS

All sidewalks are to be constructed of concrete. Currently, the existing sidewalks within the Town tend to vary in width. To achieve some consistency in the design and construction of concrete sidewalks the Town of Black Diamond needs to adopt some standard specifications. It is our recommendation that the Town consider the following options for concrete sidewalks:

- One option is a 1.4 meter-wide separate sidewalk. The separate sidewalk is the most desirable option and should be considered along major roadways or collector roads where boulevard room permits and also along residential roadways identified as secondary pathway routes. Separate sidewalks should also be required in any future developments and allow for boulevard landscaping in order to create a desirable streetscape along collector roads (*refer to Exhibit 5.3.1: 1.4m Separate Sidewalk Detail*).
- A second option is a 1.5 meter monolithic sidewalk. This type of concrete walk should be implemented along residential streets and should connect residential blocks continuously along at least one side of the road and also where boulevard room does not permit. Upgrades to existing sidewalk should be considered when concrete has deteriorated into an unsafe condition, a connection between pedestrian is required or when budget allows (*refer to Exhibit 5.3.2: 1.5m Monolithic Sidewalk Detail*).



Wheelchair ramps should be incorporated at all intersections where a separate sidewalk, monolithic sidewalk or paved surface exists.

Maintenance inspections for concrete walkways should be completed annually with primary and secondary pedestrian routes budgeted for regular clearing of snow and debris.

5. Design Standards and Maintenance

5.4 MARKINGS

Different pavement markings required for the Town of Black Diamond Trail System include: crosswalk lines, stop lines, and pathway centre lines and/or directional lines. All lighted pedestrian and future pedestrian crossings should have crosswalk lines. Crosswalk lines are also required at major intersections (for example, Government Road and Centre Avenue) where no lights exist. Stop lines should also be added at every pedestrian crossing location. All asphalt pathways are to have a yellow painted centre line. Pavement markings should be inspected annually and maintained on an as required basis when deterioration occurs. Pavement markings should be designed in accordance with the standards in Division C1 of the Manual of Uniform Traffic Control Devices for Canada. Additional design standards can be found in the guide 'Bikeway Traffic Control Guidelines for Canada' (refer to *Exhibit 5.4: Pavement Markings*).

5.5 SIGNAGE

Signage is an integral part of an overall trail and pathway system and should be used to provide information to users while on the pathway system. Signage can be utilized in a number of ways and not limited to the following:

- Directional signage guiding users on the pathway system to various destination points or points of interest;
- Location maps indicating position of user on the pathway system;
- Historical, cultural and interpretive signage informing the pathway users;
- Safety signage in terms of crosswalks, stop signs, grade changes and directions.



Location maps should be incorporated at all entrances, pathway trail hubs and main intersections within the Town. Location maps should include an overall map of the Black Diamond Trail System, showing pathway locations, pathway surfacing, pathway lengths and destination points within the Town.

Educational or interpretive information about Black Diamond may also be included on the location maps. Interpretive signs are to be located at numerous areas of interest

5. Design Standards and Maintenance

identified within the Town of Black Diamond. The signs are to include informative and educational text and photos regarding the focal point (refer to *Exhibit 5.5.1: Examples of Location Maps and Interpretive Signage*).

Directional signage should be located at trailheads and intersections. The directional signs will indicate the distance and direction of the path ahead. Additional signage may be used if desired. Signs such as 'Automobiles Prohibited', 'Littering Prohibited', and 'Shared Pathway' may be placed at trailheads and reviewed on a site-by-site basis. Warning signage along roads, such as 'Pedestrian and Bicycle Crossing Ahead', is strongly recommended (refer to *Exhibit 5.5.2: Signage Examples*). All signage shall adhere to standards set out in the Manual of Uniform Traffic Control Devices for Canada. The design of the signage once determined by the committee overseeing trails and pathways development should be set as a standard.

5.6 INTERSECTIONS

The placement/design of intersections is an important element to ensure the safety of all pathway users. Intersections should have a minimum sight triangle to provide a totally unobstructed view for 11.5m (45') from the intersection of the edge of pavement when measured from a height of 0.6m (2') to 1.5m (5'). Tree trunks are considered an obstruction, however low shrubs that are below 0.6m are permitted (refer to *Exhibit 5.6 Visible Sight Triangle at Intersections*).

5.6.1 RELOCATION

Consideration should be made for relocation of existing pedestrian crossings to a location of higher use or as dictated by pedestrian movement. Flashing pedestrian crossings should always be located at major intersections where vehicles are required to slow down. It is imperative that pathways line up directly across from each other at an intersection. Mid-block crossings should be avoided if possible or clearly identified for the safety of the pedestrian.



5. Design Standards and Maintenance

5.6.2 SIGNAGE

All intersections should be properly marked with signage and/or pavement markings. Warning signs, pedestrian crossing lights, and stop lines should be added to the road notifying drivers of an important intersection or pedestrian crossing ahead. It is also recommended that warning signage be placed along the pathways indicating an intersection ahead.

5.7 ACCESSIBILITY



The Trails and Pathway System for Black Diamond is designed as a looped system to provide accessibility for all user groups. The proposed asphalt and concrete pathways are to accommodate all user groups, making it possible for strollers, wheelchairs, bicycles, and pedestrians etc. to access the pathway system. Wheelchair ramps are to be provided at all corners to ensure accessibility of all users. The natural pathways accommodate some user groups and are easily accessible, branching off from the paved pathways. It is imperative that there be a smooth transition between varying trail surfaces.

6. Summary



The Trails and Pathways Master Plan projected focus is on the enhancement and expansion of the entire trail and pathway system. With time, trails and pathways will erode and human use will damage the surrounding vegetation. As such, attention should be placed on maintaining and improving the natural environment surrounding the trails and providing a safe and accessible surface along the pathways.

Ultimately the expenditure costs for trail and pathway maintenance and development will determine the duration needed to complete this entire master plan, and it is to be expected that changing conditions such as the population will alter the hierarchy of development within this master plan. This Trails and Pathways Master Plan should always be flexible with the phasing of development, to meet the needs of the town without compromising the integrity of the natural environment and community.

Exhibits

Exhibit 1.1 Study Area Map
Exhibit 3.1 Master Plan Design Process
Exhibit 3.2.1 January 19, 2006 Open House: Areas of Interest within and around the Town map
Exhibit 3.2.2 January 19, 2006 Open House: Missing Linkages and Corridors Map
Exhibit 3.2.3 January 19, 2006 Open House: Opportunities and Constraints Map
Exhibit 3.3 Compilation Map from January 19, 2006
Exhibit 3.3.1 Priorities and Surfacing Map for February 28, 2006
Exhibit 3.5 Hierarchy Trails and Pathways Master Plan
Exhibit 3.5.1 Primary Pathway Plan
Exhibit 3.5.2 Secondary Pathway Plan
Exhibit 3.5.3 Tertiary Pathway Plan
Exhibit 3.6 Phasing Plan
Exhibit 3.6.1 Phase 1: High Priority Trails Plan
Exhibit 3.6.2 Phase 2: Medium Priority Trails Plan
Exhibit 3.6.3 Phase 3: Medium Priority Trails Plan
Exhibit 3.7 Surfacing Plan
Exhibit 3.7.1 Asphalt Surfacing Plan
Exhibit 3.7.2 Sidewalk / Concrete Surfacing Plan
Exhibit 3.7.3 Natural Surfacing Plan
Exhibit 5.1 Natural Pathway Detail
Exhibit 5.2.1 2.5m Width Asphalt Pathway Detail
Exhibit 5.2.2 2.0m Width Asphalt Pathway Detail
Exhibit 5.3.1 1.4m Separate Sidewalk Detail
Exhibit 5.3.2 1.5m Monolithic Sidewalk Detail
Exhibit 5.4 Pavement Markings
Exhibit 5.5.1 Examples of Location Maps and Interpretive Signage
Exhibit 5.5.2 Signage Examples
Exhibit 5.6 Visible Sight Triangle at Intersections



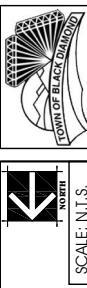
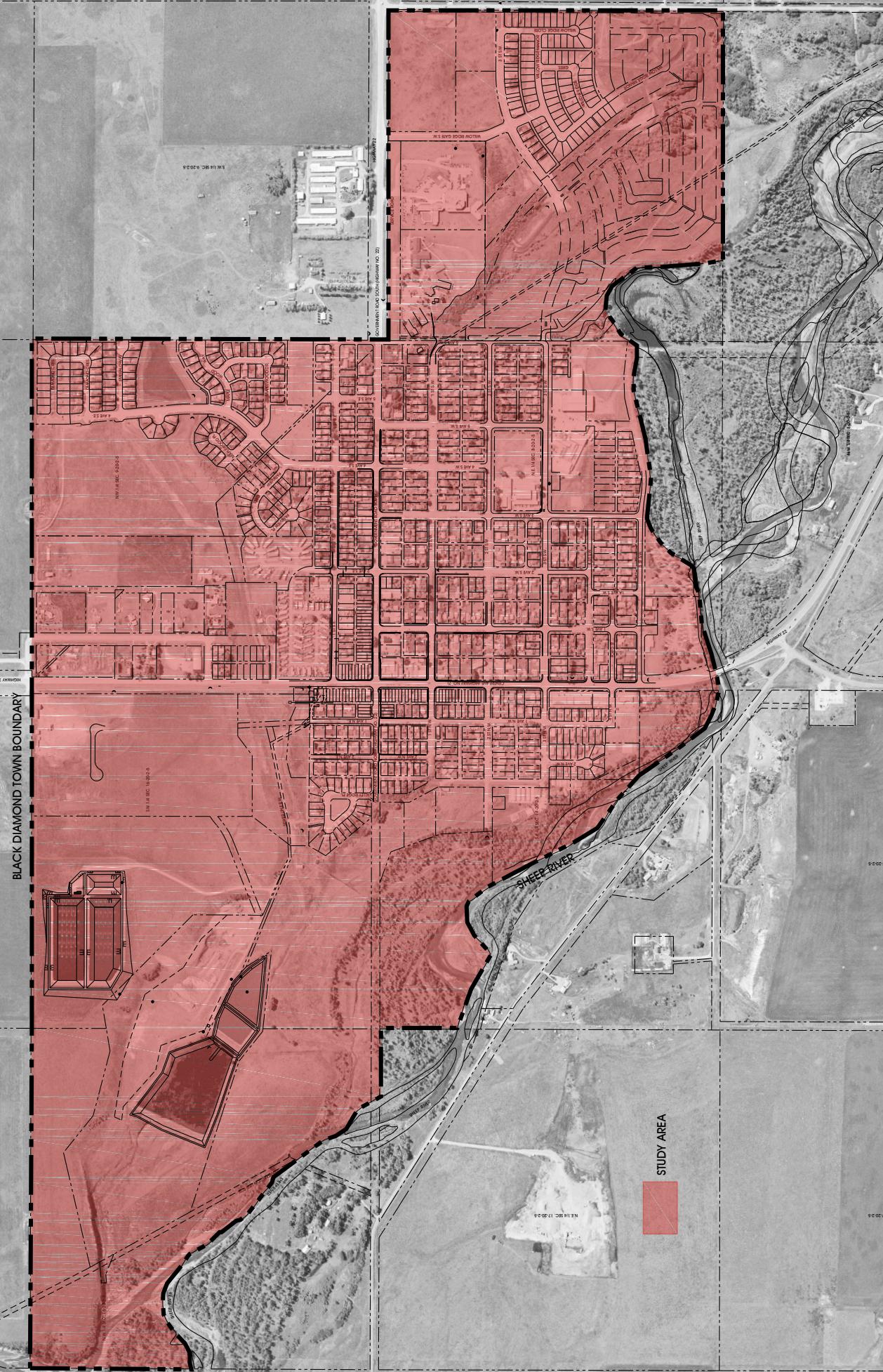
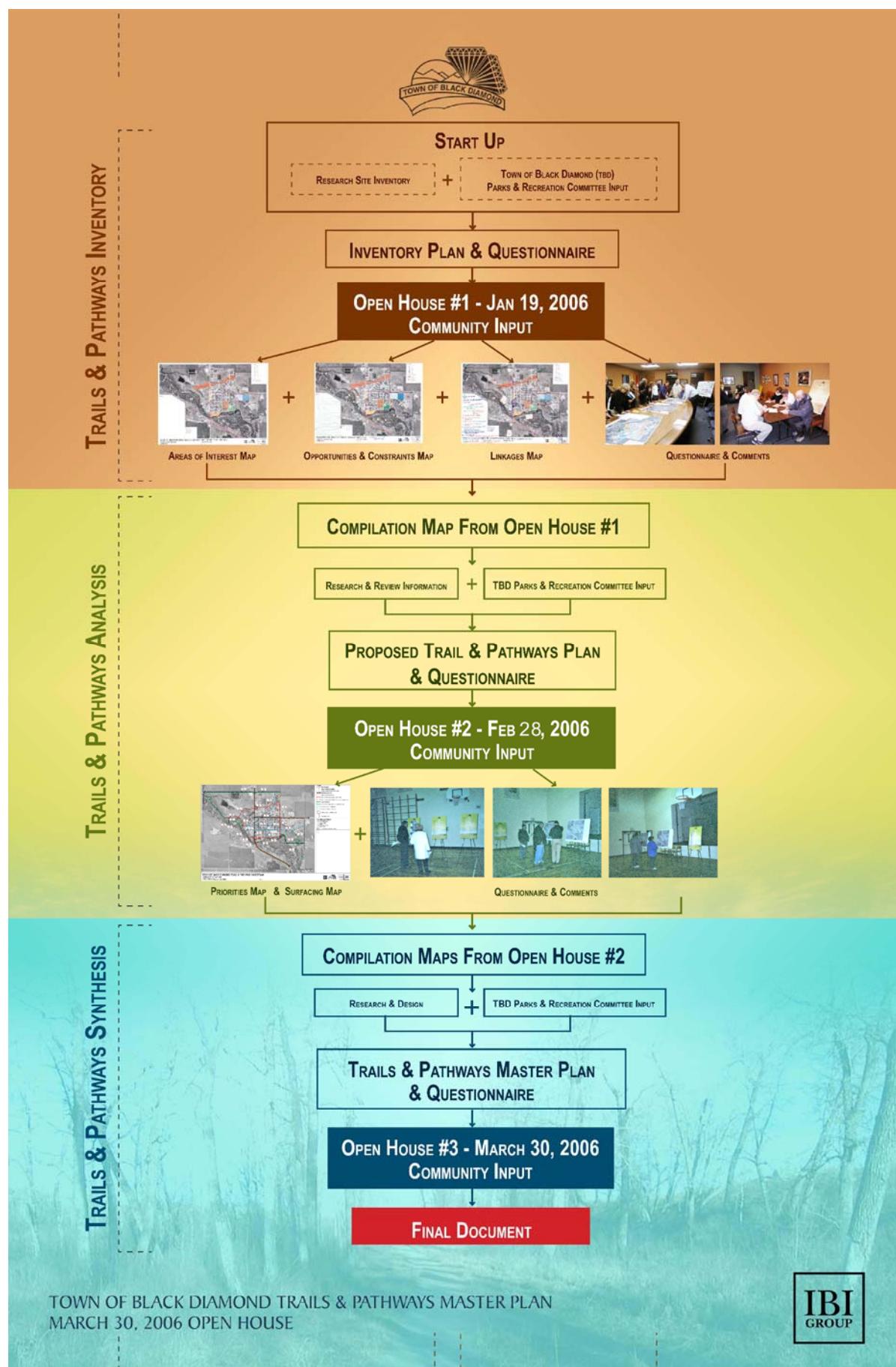


EXHIBIT 1.1

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

STUDY AREA MAP



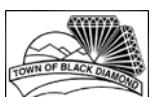


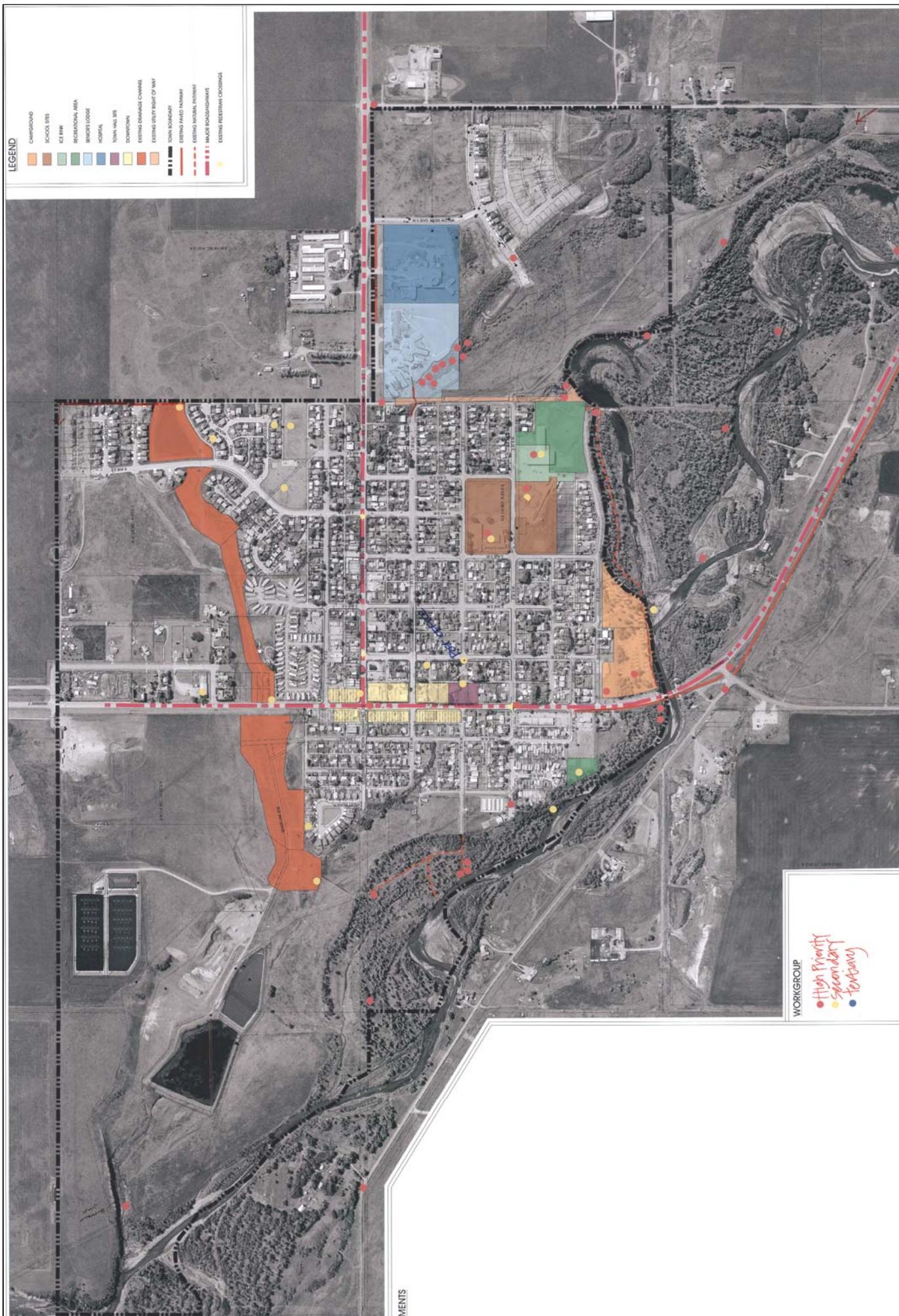
TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 3.1

MASTER PLAN DESIGN PROCESS

SCALE: N.T.S.





January 29, 2006 Open House: AREAS OF INTEREST WITHIN AND AROUND THE TOWN

EXHIBIT 3.2.1





SCALE: NTS.

EXHIBIT 3.2.2

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

January 29, 2006 Open House: MISSING LINKAGES AND CORRIDORS MAP

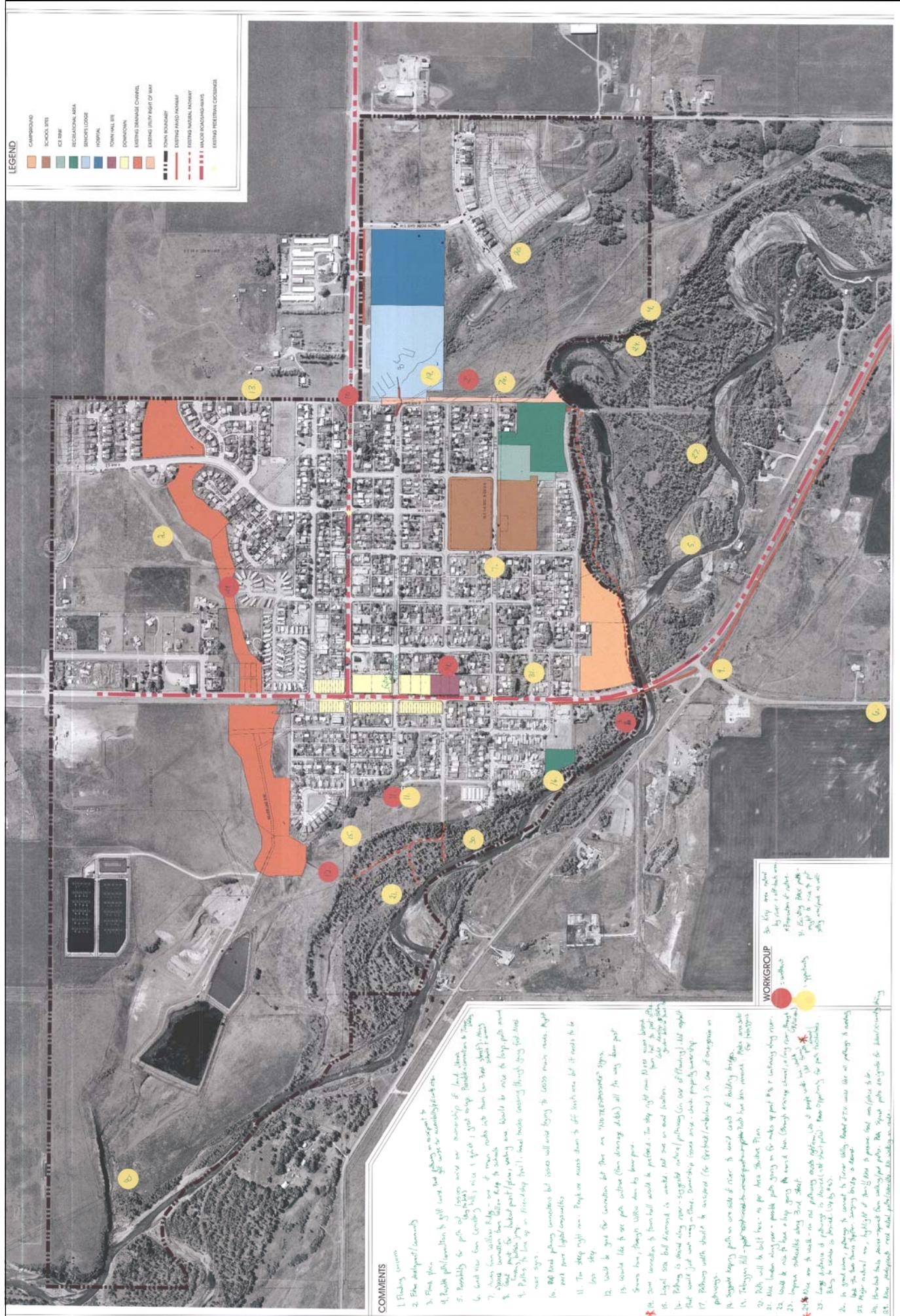
1. What town, roads & sidewalks are fine.
2. Bike lane, sidewalk improvement
3. Accessibility
4. Community to connect to school - children to have better access.
5. Main trail used > like to improve but make sure it will not affect flood plain.
6. Bring back the trails, students.
7. Connect community from the North to Friendship Hall.
8. Among the river is the nicest trail environment!
9. Walkway exists but no maintained & not acceptable.
10. Opening through the fence to drainage channel to service community
11. Walk & golf course in winter, to it?
12. Ridge: great views, feeling of being out of town (BUFFALO JUMP)
13. Improve sidewalks in lower valley (small bridge, 'bridges') & back on the other side

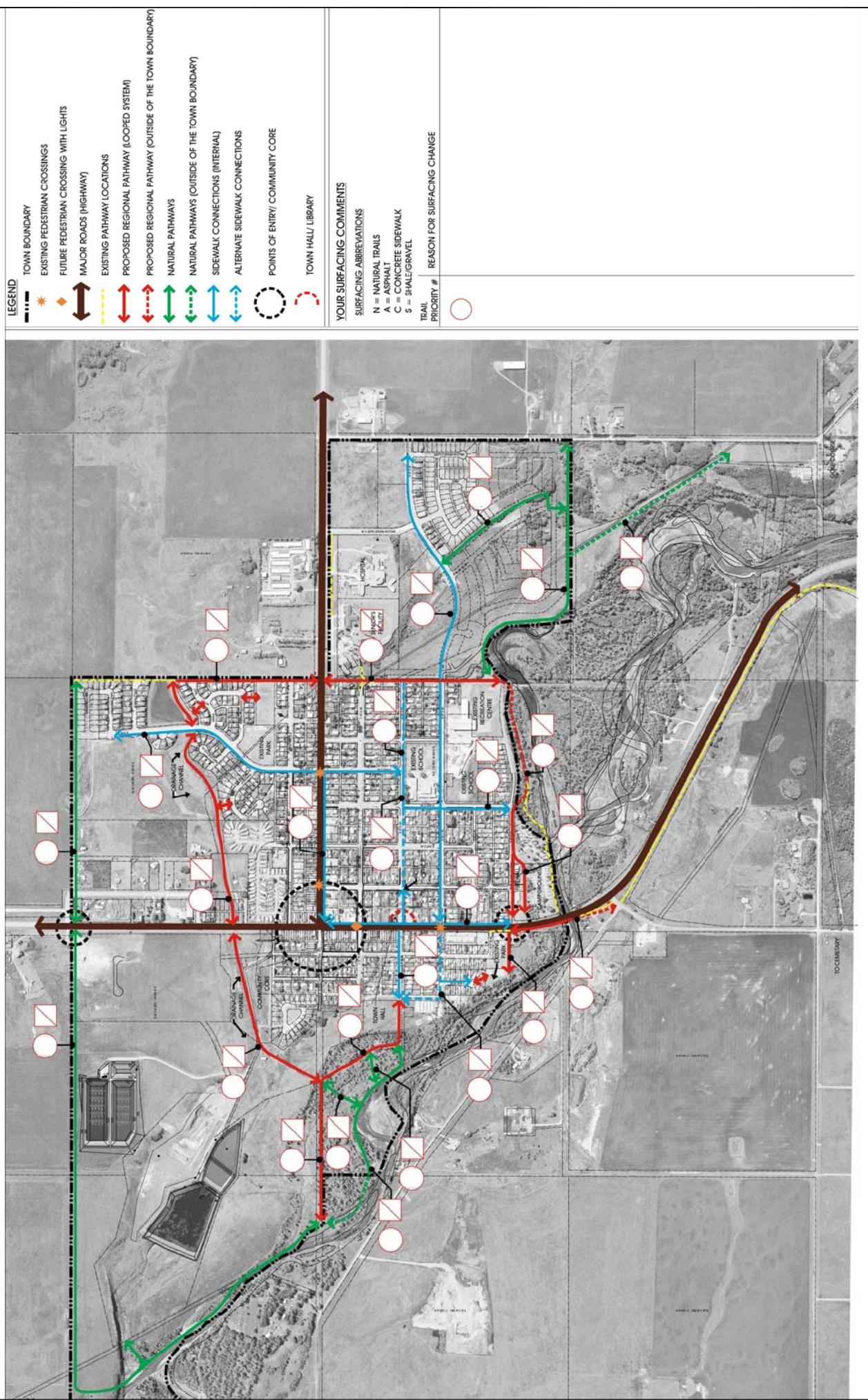




TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

January 29, 2006 Open House: OPPORTUNITIES AND CONSTRAINTS MAP





TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

February 28, 2006 Open House: PRIORITIES AND SURFACING MAP

EXHIBIT 3.3.1

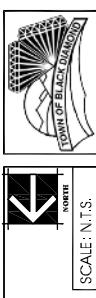


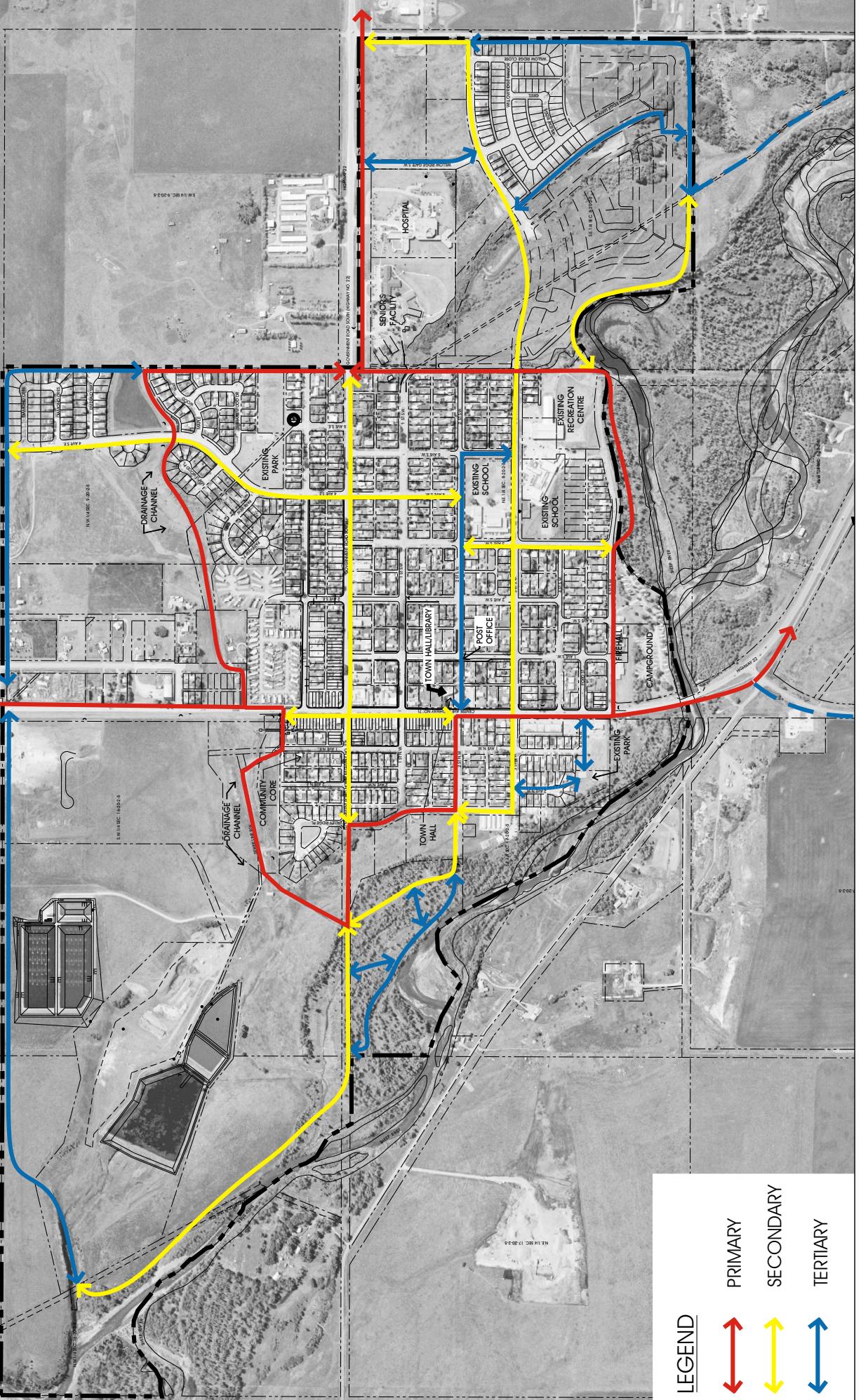


EXHIBIT 3.5



SCALE: NTS.

HIERARCHY TRAILS AND PATHWAY MASTER PLAN



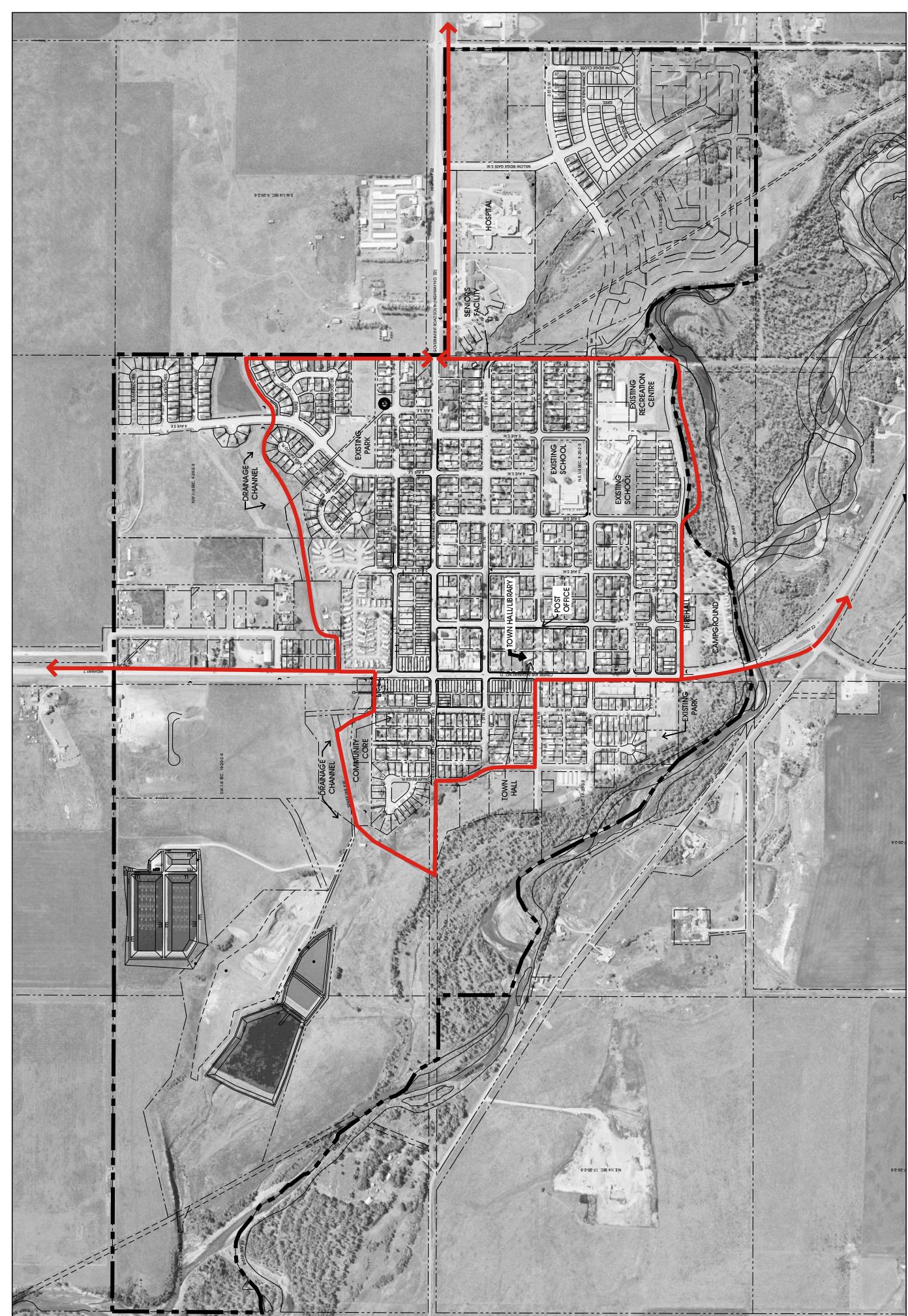
LEGEND

- PRIMARY (Red double-headed arrow)
- SECONDARY (Yellow double-headed arrow)
- TERTIARY (Blue double-headed arrow)

TOWN OF BLACK DIAMOND TRAILS AND PATHWAY MASTER PLAN

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 3.5.1



TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

 EXHIBIT 3.5.2

SECONDARY PATHWAY PLAN

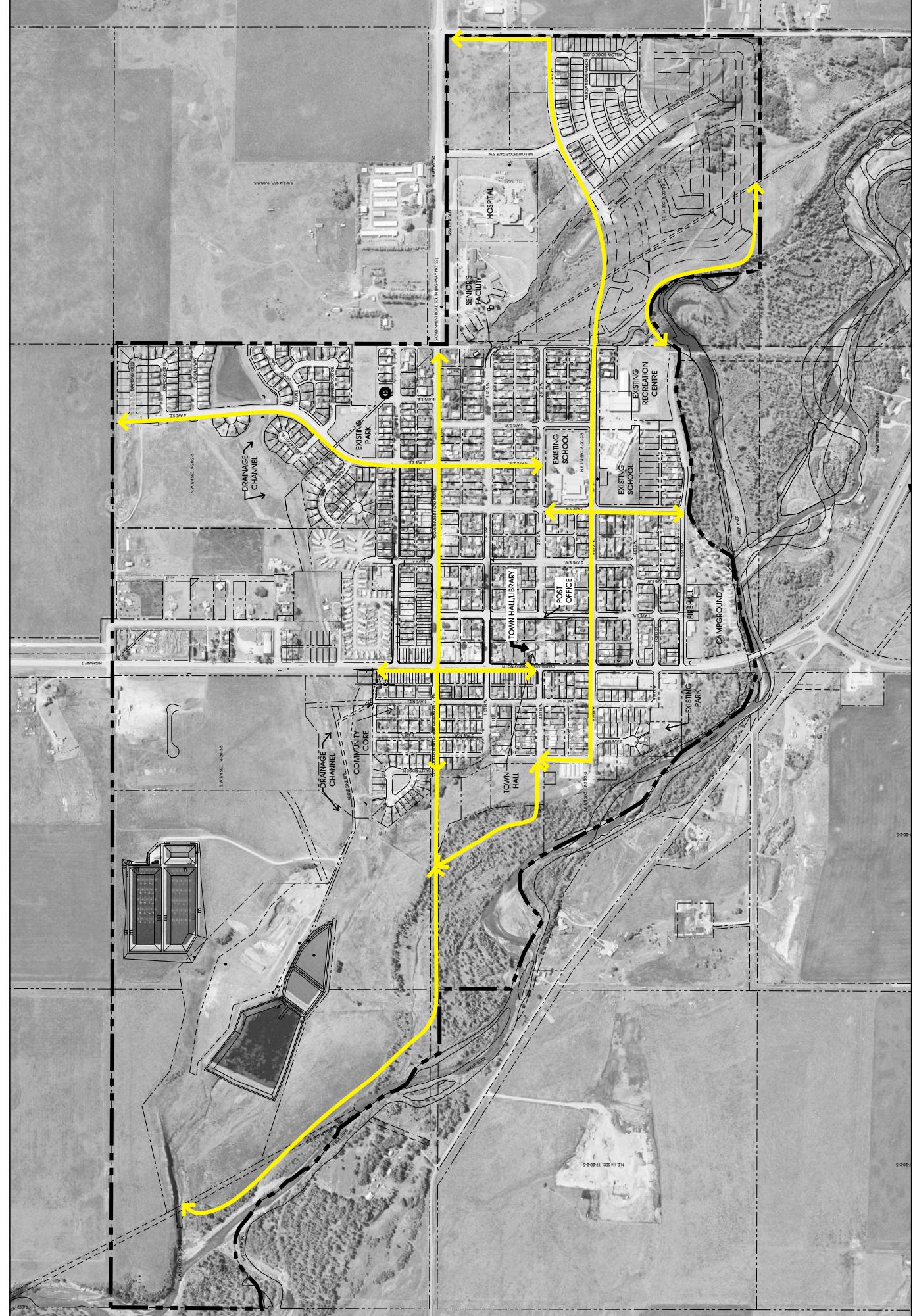




EXHIBIT 3.5.3

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

TERTIAL PATHWAY PLAN



SCALE: N.T.S.

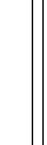
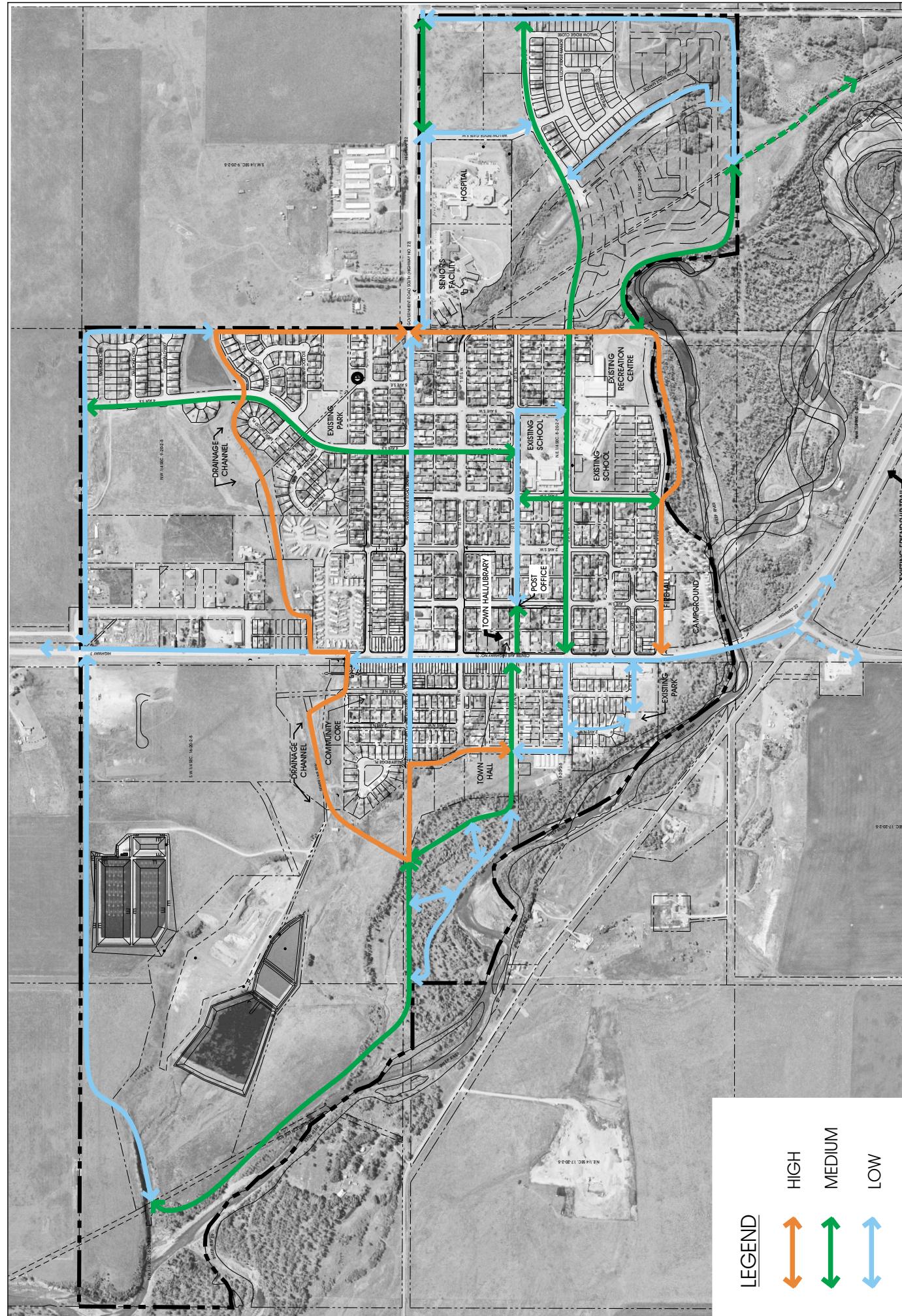
TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 3.6

PHASING PLAN

LEGEND


 HIGH

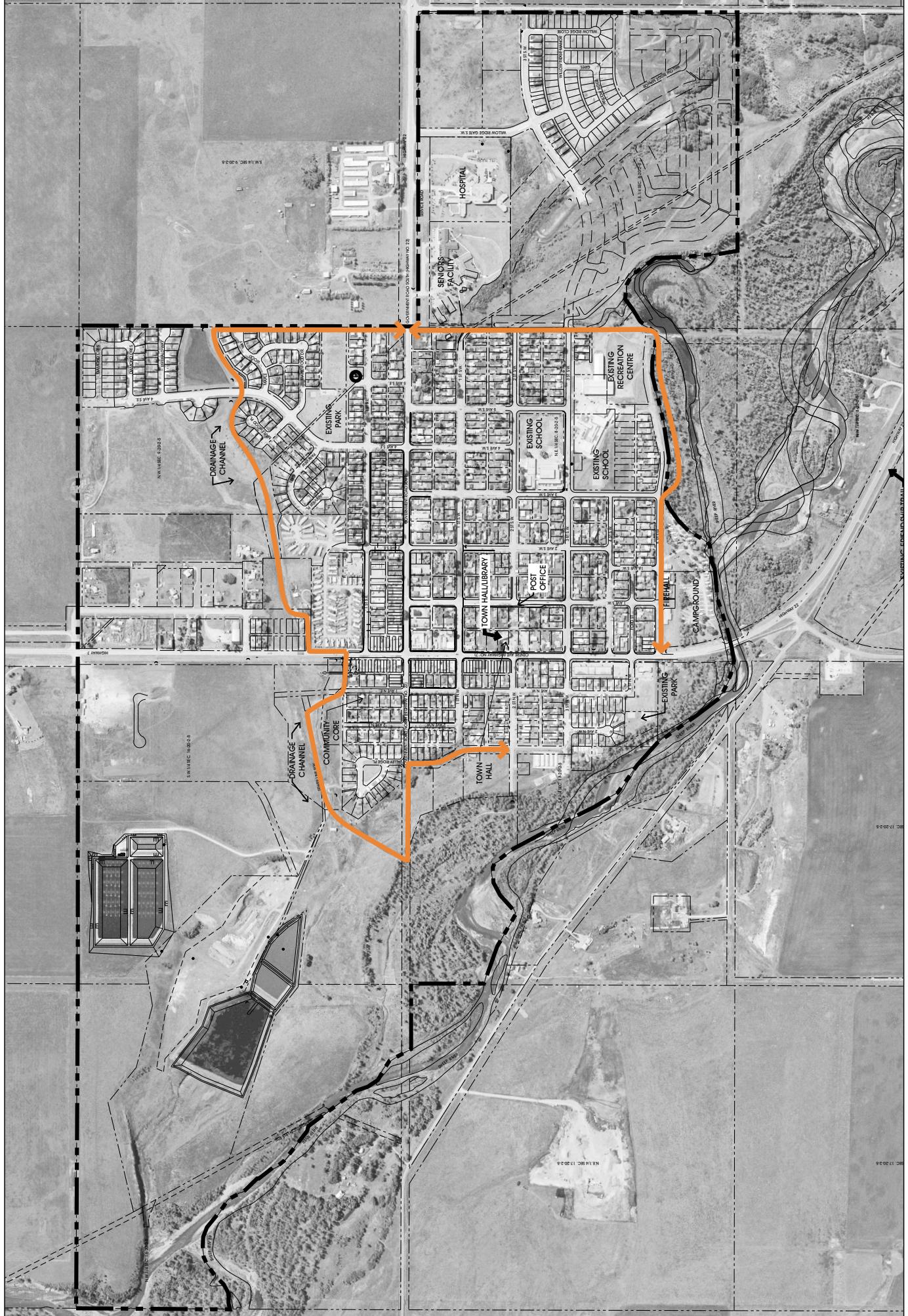
 MEDIUM

 LOW




SCALE: NTS

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 3.6.1



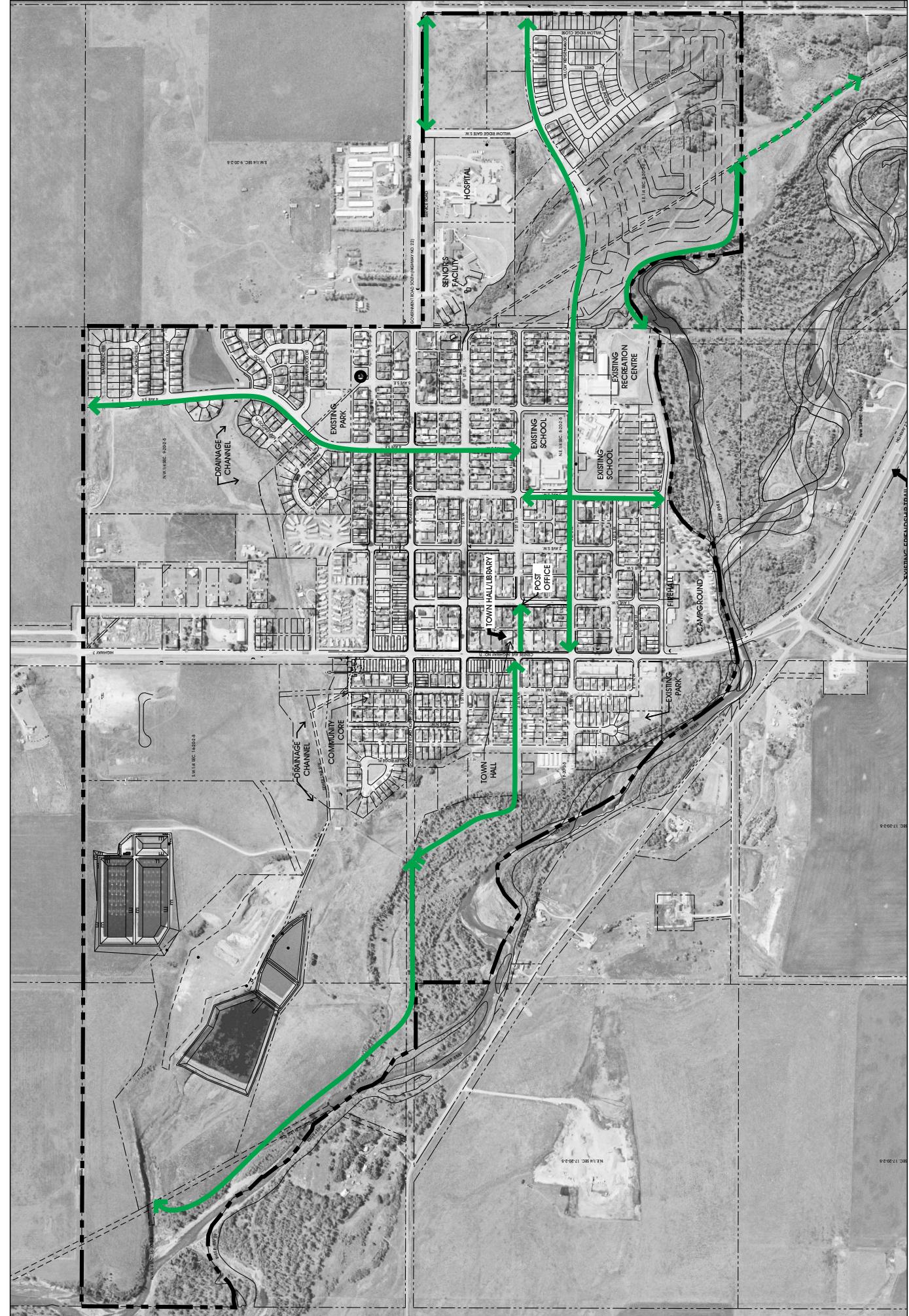


SCALE: N.T.S.
NORTH

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 3.6.2

MEDIUM PRIORITY TRAILS PLAN

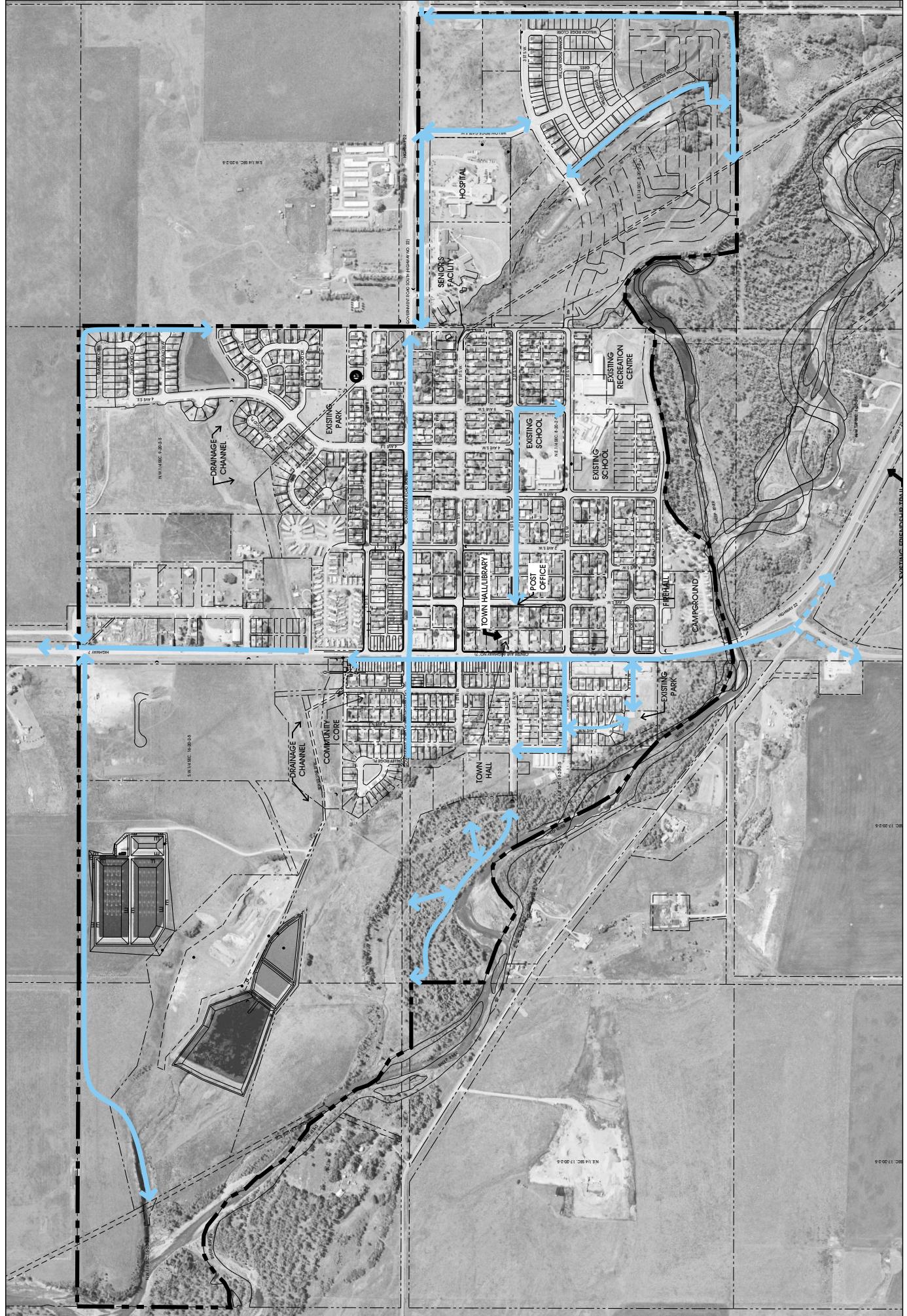




 N
SCALE: N.T.S.

LOW PRIORITY TRAILS PLAN

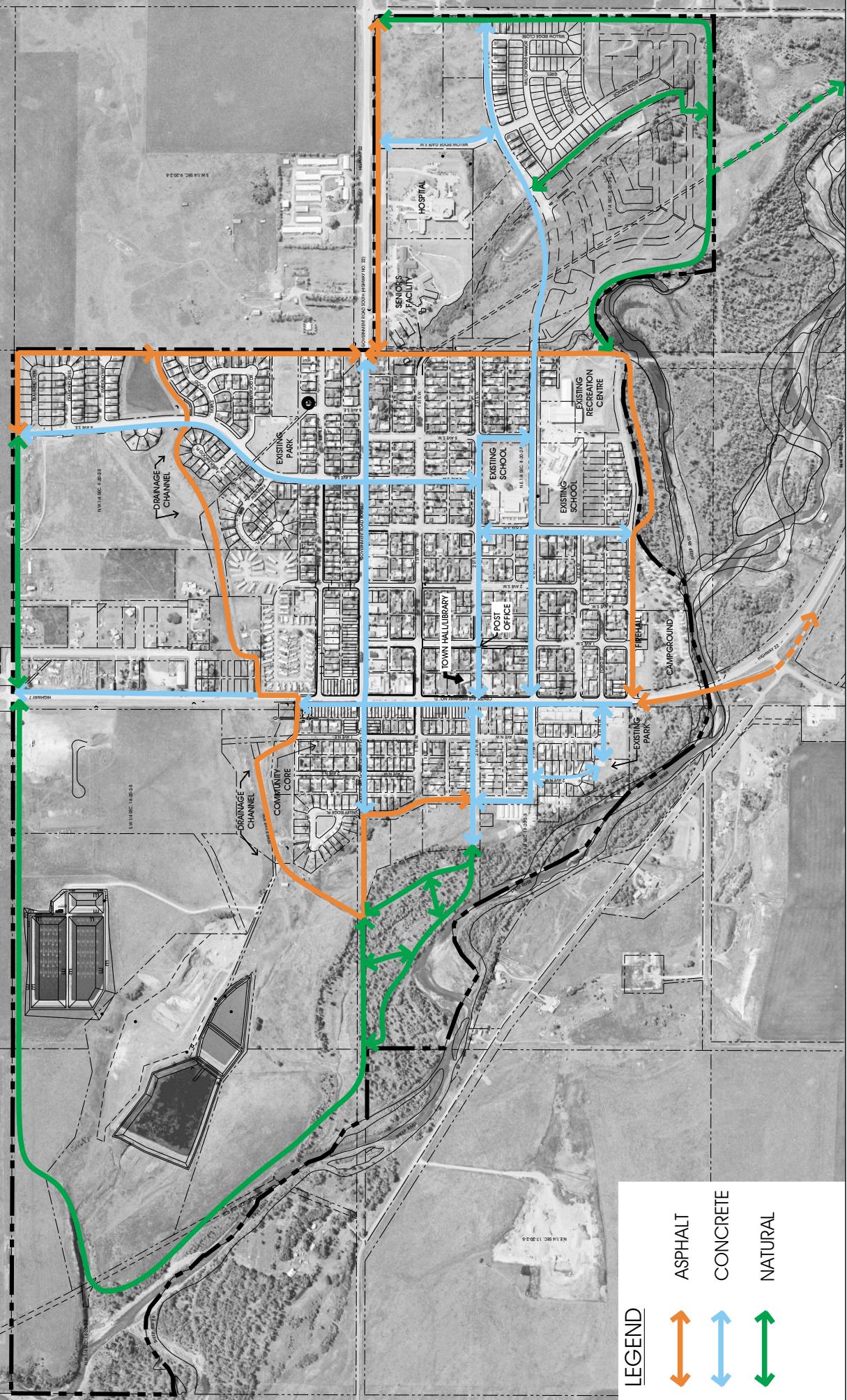
EXHIBIT 3.6.3



TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 3.7

SURFACING PLAN



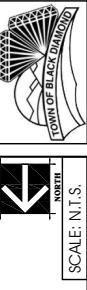
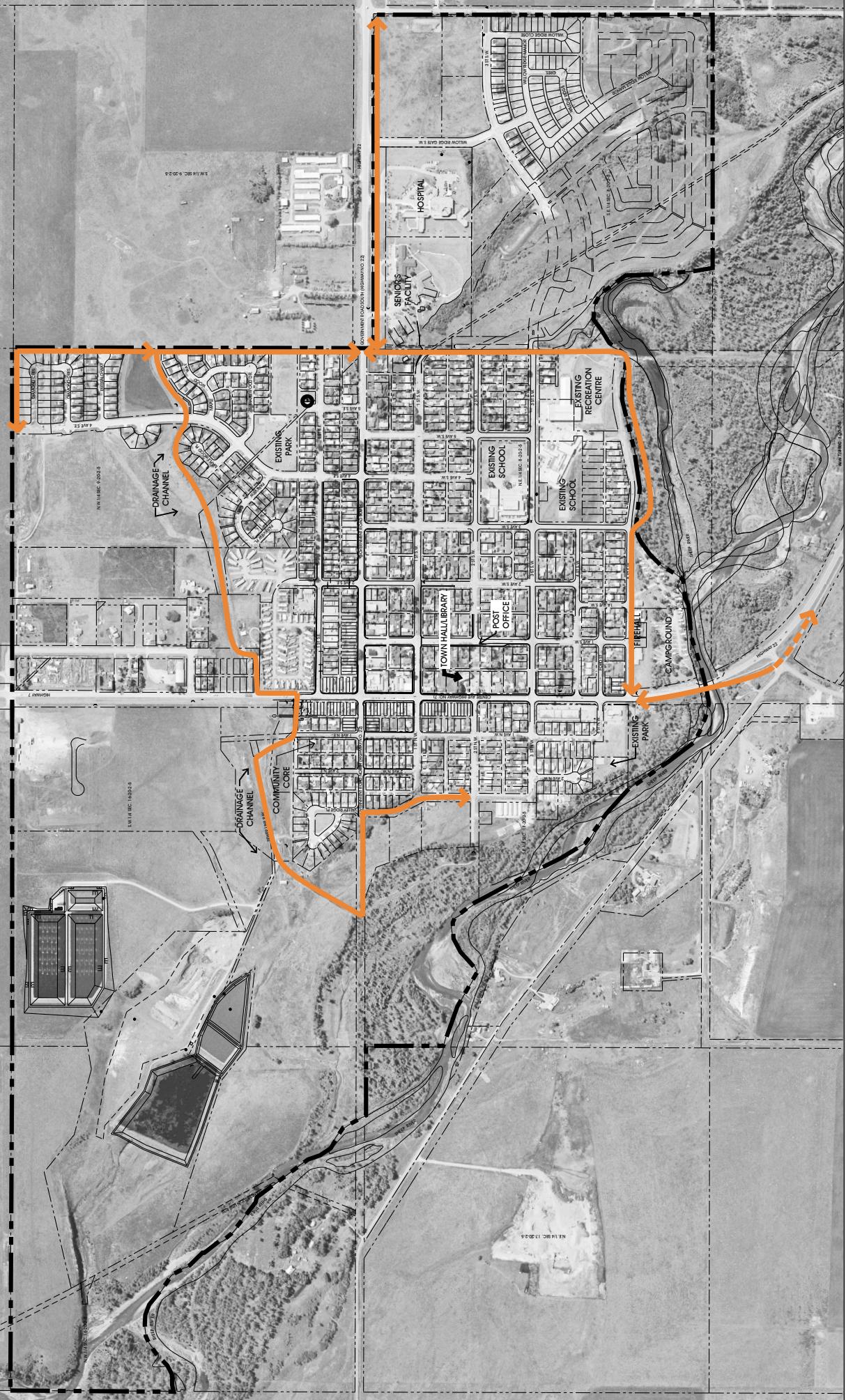


EXHIBIT 3.7.1



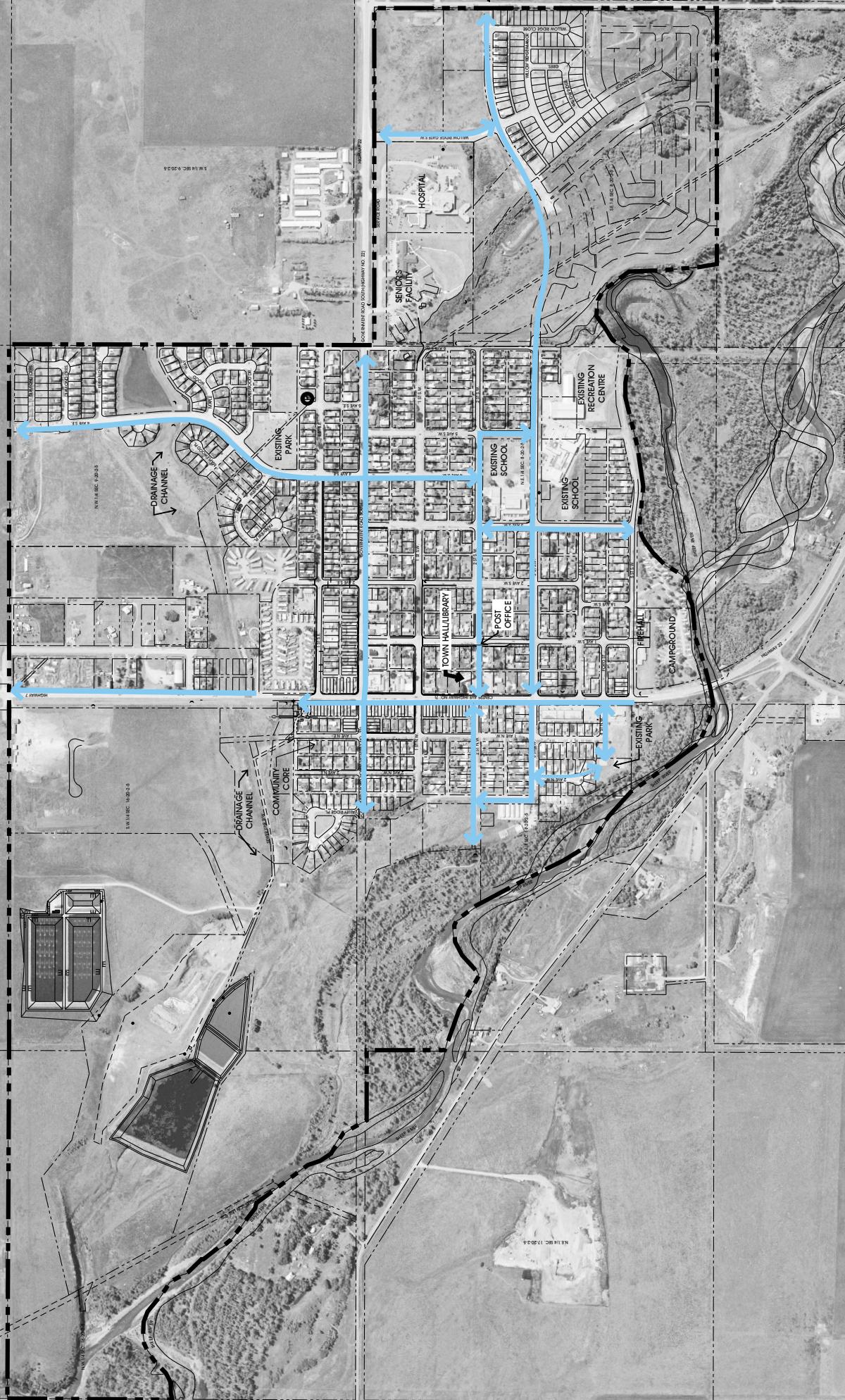
TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

ASPHALT SURFACING PLAN



TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

SIDEWALK/ CONCRETE SURFACING PLAN



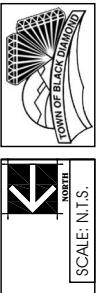
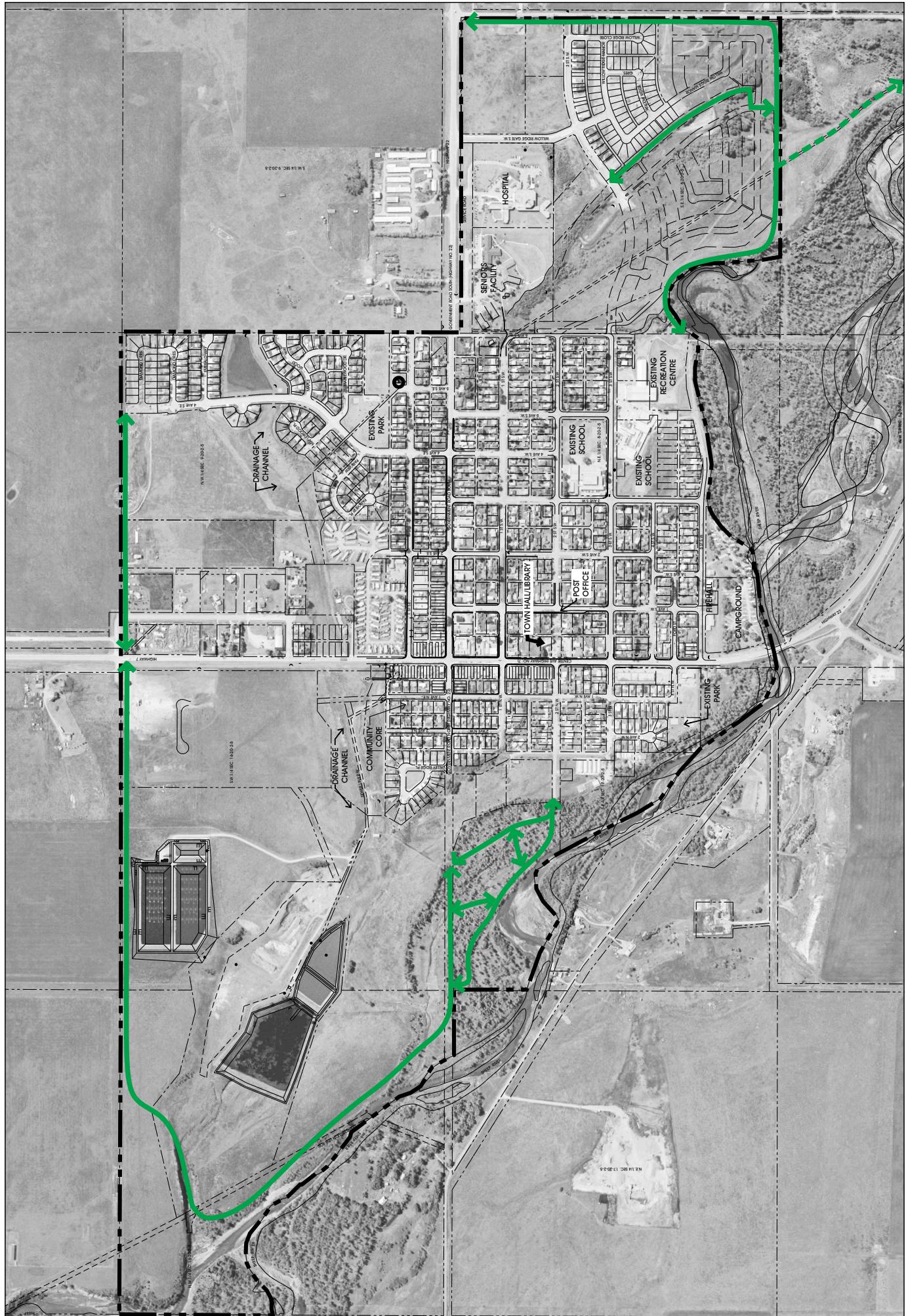
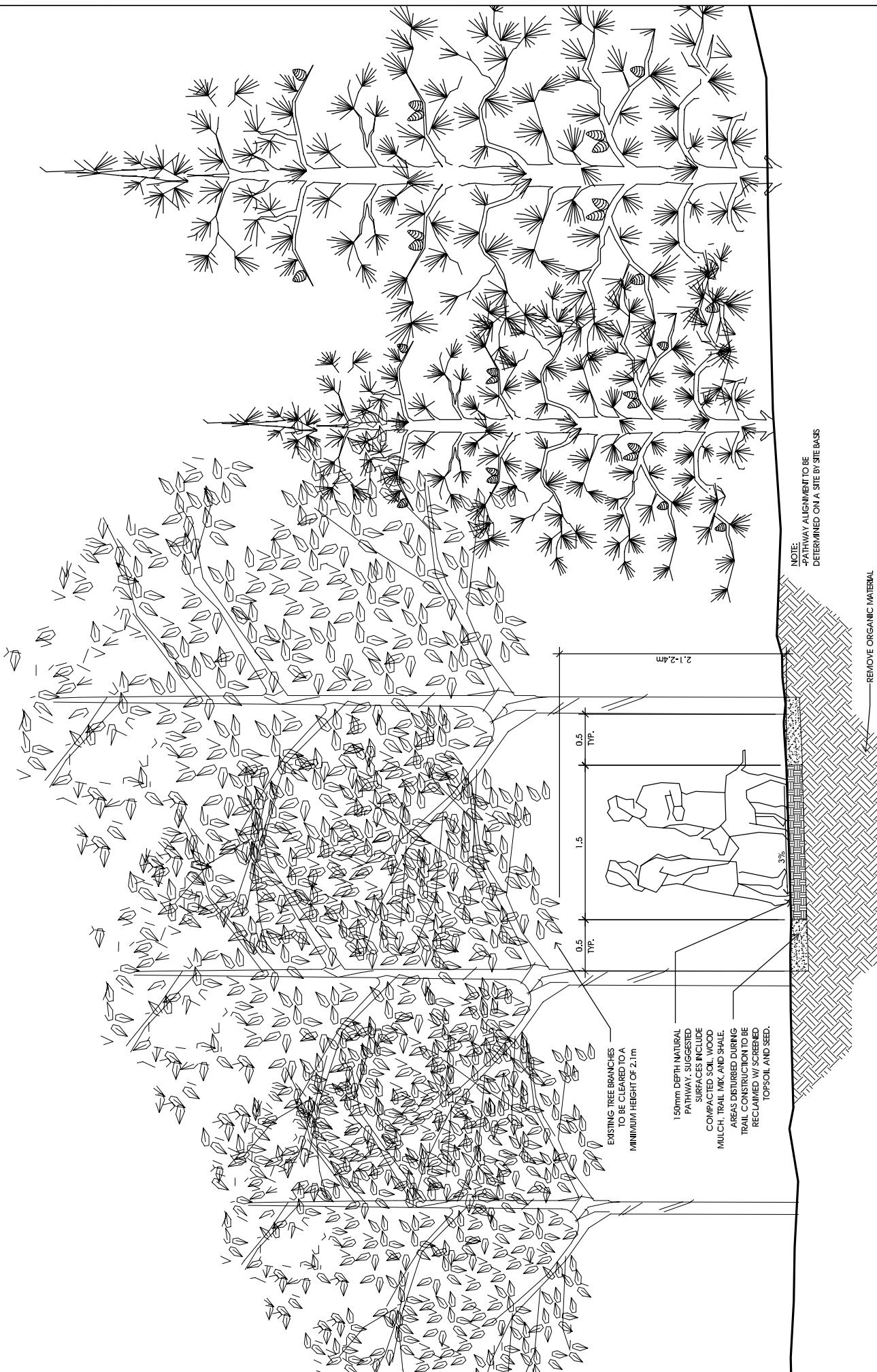


EXHIBIT 3.7.3

NATURAL SURFACING PLAN

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN





TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

NATURAL PATHWAY DETAIL



SCALE: 1:50

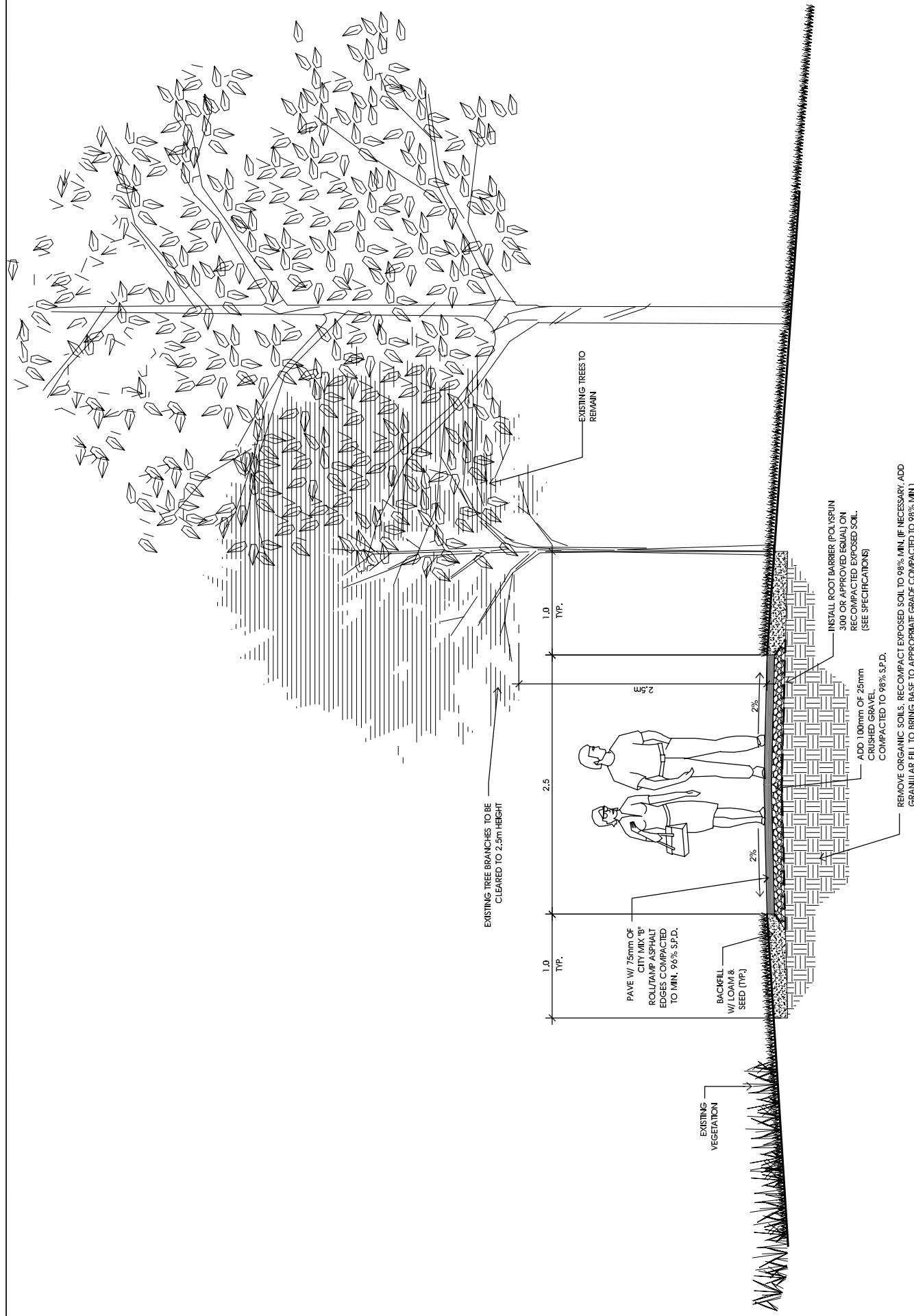


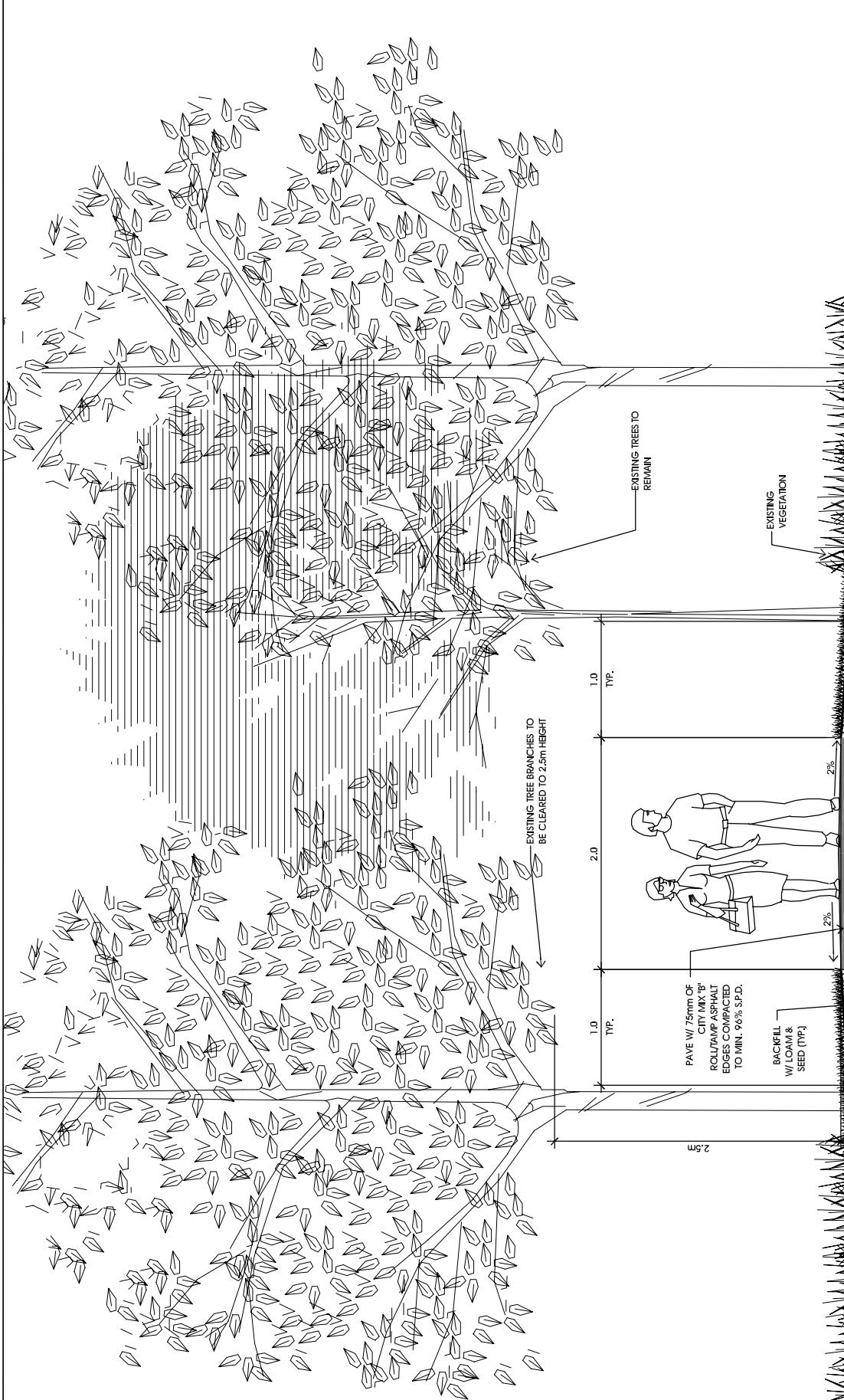
EXHIBIT 5.2.1

SCALE: 1:50

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

2.5m WIDTH ASPHALT PATHWAY DETAIL





EXISTING TREES TO
REMAIN

EXISTING
VEGETATION

2.0m
2.5m

1.0
1.0
TYP.

1.0
1.0
TYP.

PAVE W/ 75mm OF
CITY MIX 15°
ROLL/TAMP ASPHALT
EDGES COMPACTED
TO MIN. 90% S.P.D.

BACKFILL
W/ LOAM &
SEED (TYP.)

2%
2%
2%
2%

INSTALL ROOT BARRIER (POLYSPUN
300 OR APPROVED EQUAL ON
RECOMPACTED EXPOSED SOIL.
(SEE SPECIFICATIONS)

ADD 100mm of 25mm
CRUSHED GRAVEL,
COMPACTED TO 98% S.P.D.

REMOVE ORGANIC SOILS. RECOMPACT EXPOSED SOIL TO 98% MIN. (IF NECESSARY ADD
GRANULAR FILL TO BRING BASE TO APPROPRIATE GRADE COMPACTED TO 98% MIN.)

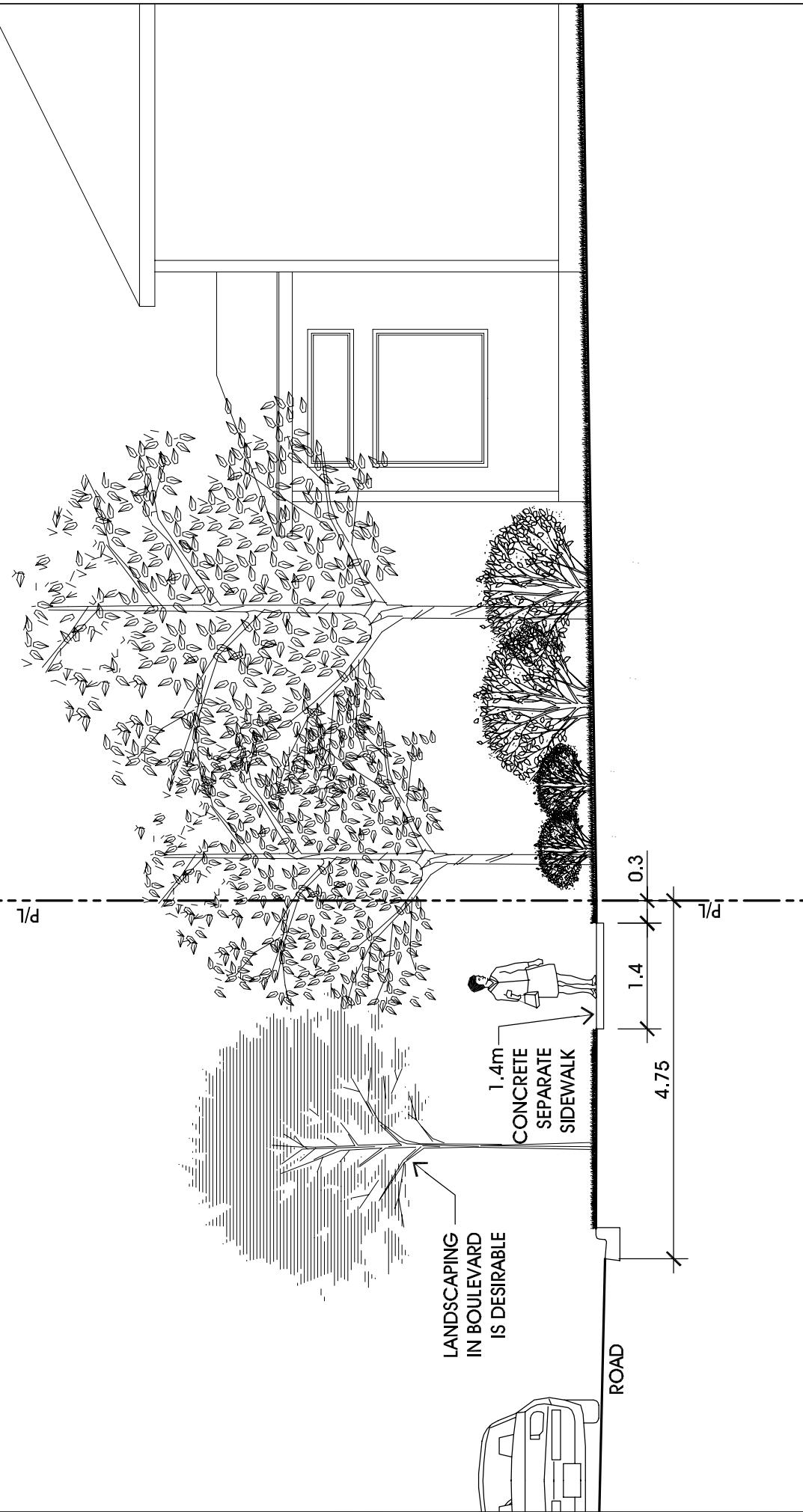
TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 5.2.2

2.0m WIDTH ASPHALT PATHWAY DETAIL



SCALE: 1:50



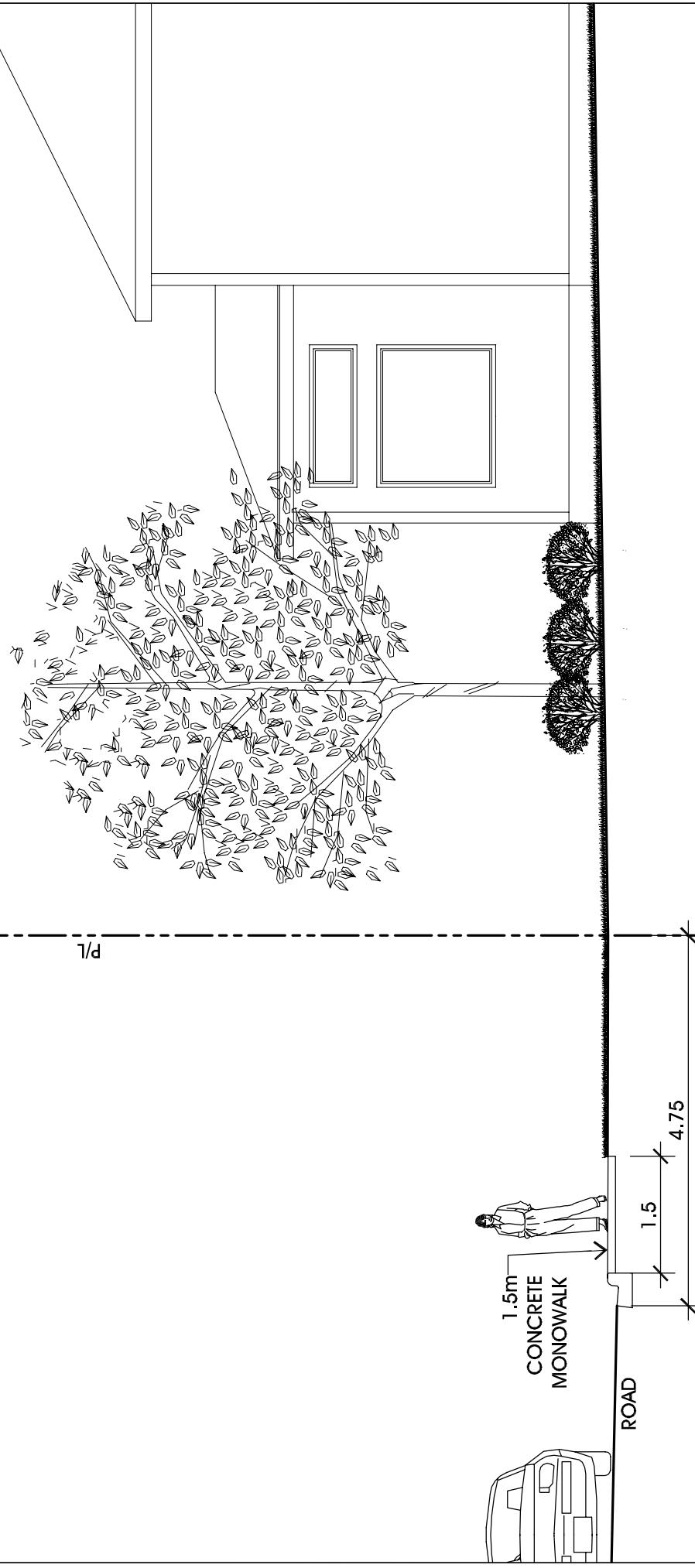
TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 5.3.1

1.4m SEPARATE SIDEWALK DETAIL



SCALE: 1:75



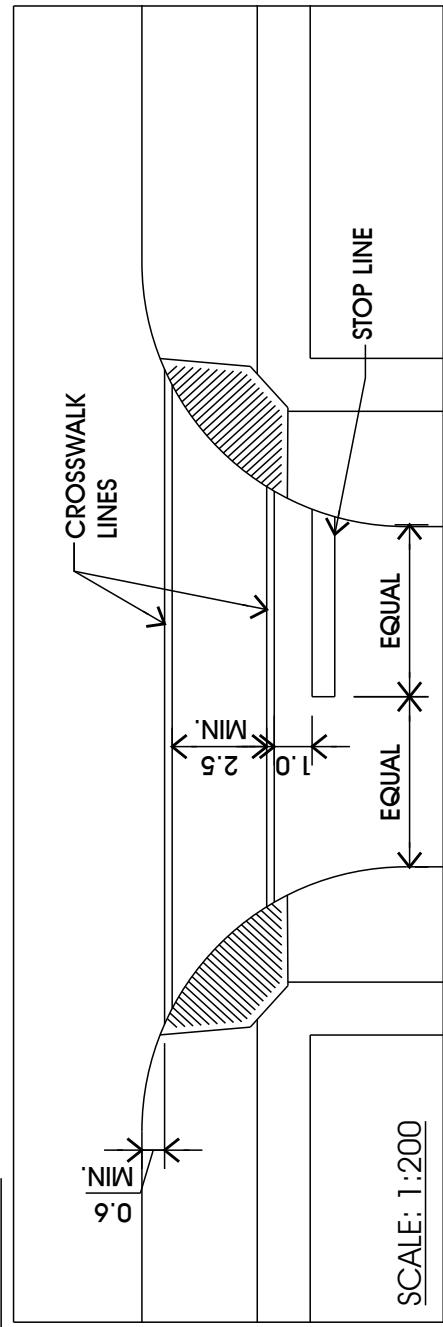
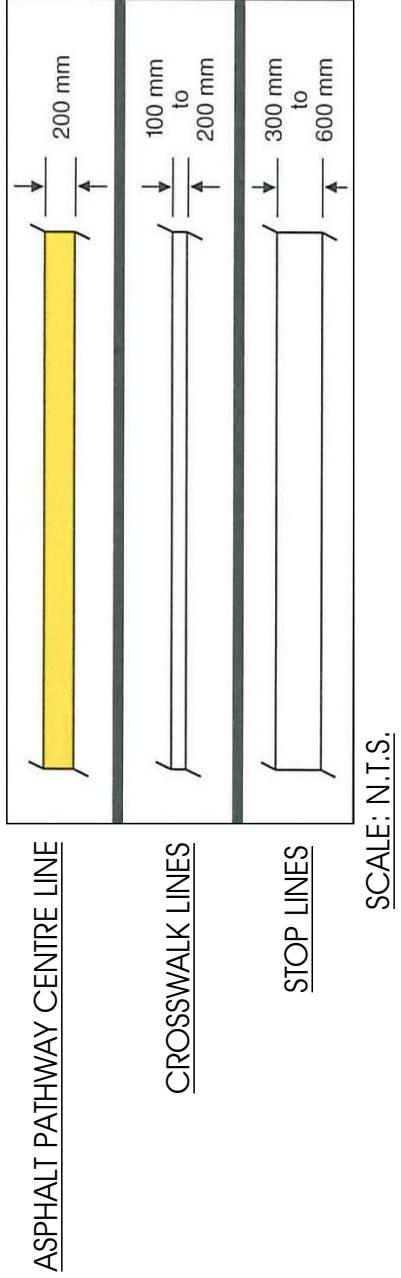
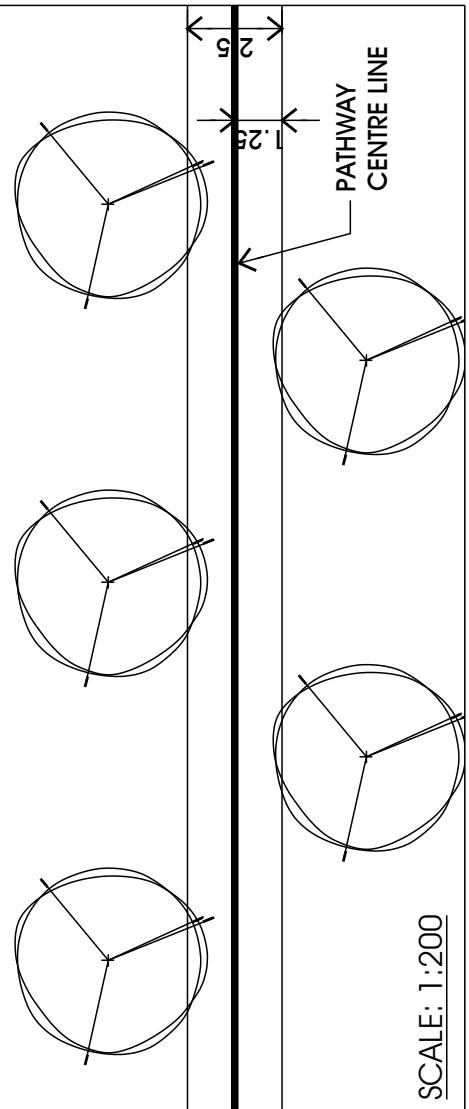
TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 5.3.2

1.5m MONOLITHIC SIDEWALK DETAIL



SCALE: 1:75

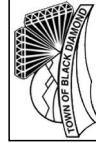


TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 5.4

PAVEMENT MARKINGS

SCALE: AS NOTED



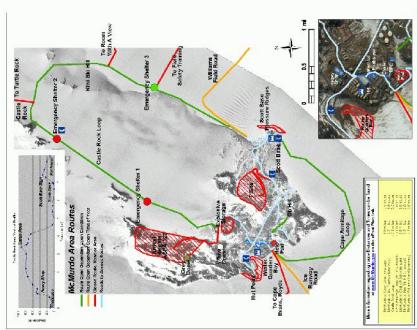


PHOTO COURTESY OF: <http://antarctic-scott.blogspot.com>



PHOTO COURTESY OF: www.tobecanyon.org



LOCATION MAPS



INTERPRETIVE SIGNAGE



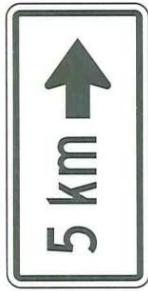
TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXAMPLES OF LOCATION MAPS AND INTERPRETIVE SIGNAGE



EXHIBIT 5.5.1

SCALE: N.T.S.



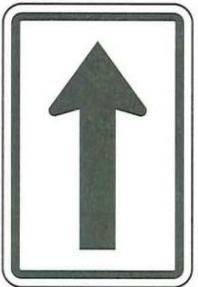
IS-7

600 mm x 300 mm

450 mm x 300 mm



IS-8R



IS-8R

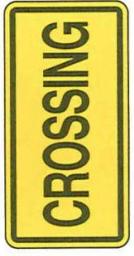
450 mm x 300 mm

DIRECTIONAL SIGNAGE



WC-46

600 mm x 300 mm



WC-7S

600 mm x 300 mm

WARNING SIGNAGE



RB-93

300 mm x 450 mm



RC-5

600 mm x 600 mm



RB-88

600 mm x 600 mm

OPTIONAL SIGNAGE

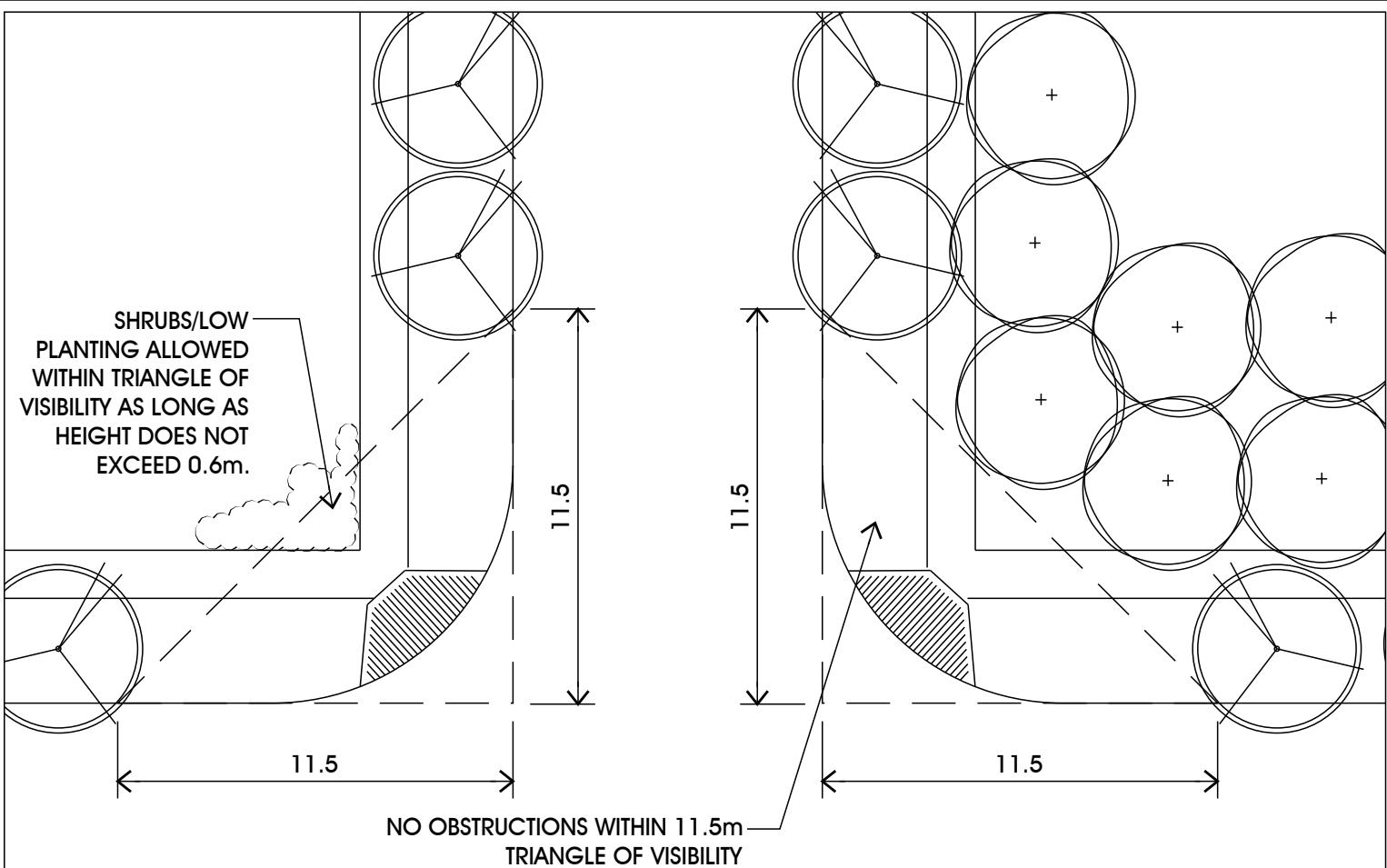
TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN

EXHIBIT 5.5.2

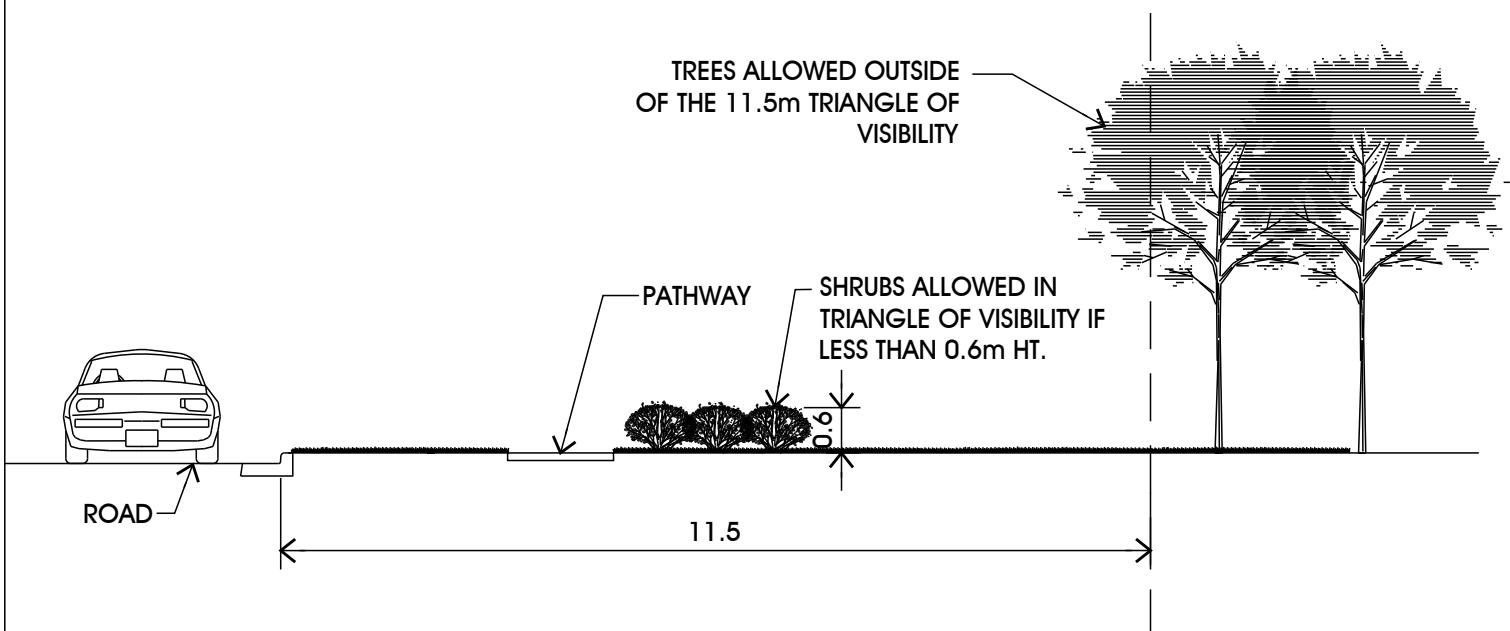
SIGNAGE EXAMPLES



SCALE: N.T.S.



SCALE: 1:200



SCALE: 1:100

Appendices

Appendix A

Supporting Document From the January 19, 2006 Open House

Appendix B

Supporting Document From the February 28, 2006 Open House

Appendix C

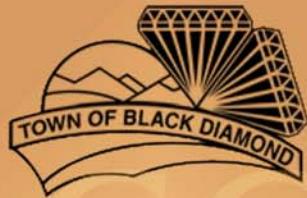
Supporting Document From the March 30, 2006 Open House



Appendix A

Supporting Document From the January 19, 2006 Open House





WELCOME!

Community Workshop and Open House for the

TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTER PLAN DEVELOPMENT

January 19, 2006
6:30 - 9:00 PM

Black Diamond Council Chambers



Welcome to the First Community Workshop and Open House for the
Town of Black Diamond Trails and Pathway Master Plan Development.

Your involvement is important! Come in, fill in a questionnaire, and then
proceed to all three of our mapping stations (in no particular order).

Feel free to ask any questions.

Please review all of the information provided and add your name to
our contact list at the sign-in table.





TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTERPLAN
EXISTING CONDITIONS- ADDITIONAL PHOTOS
WORKSHOP 1

JANUARY 19, 2006



ARCHITECTS
ENGINEERS
PLANNERS



TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTERPLAN

EXISTING CONDITIONS PHOTOS

JANUARY 19, 2006

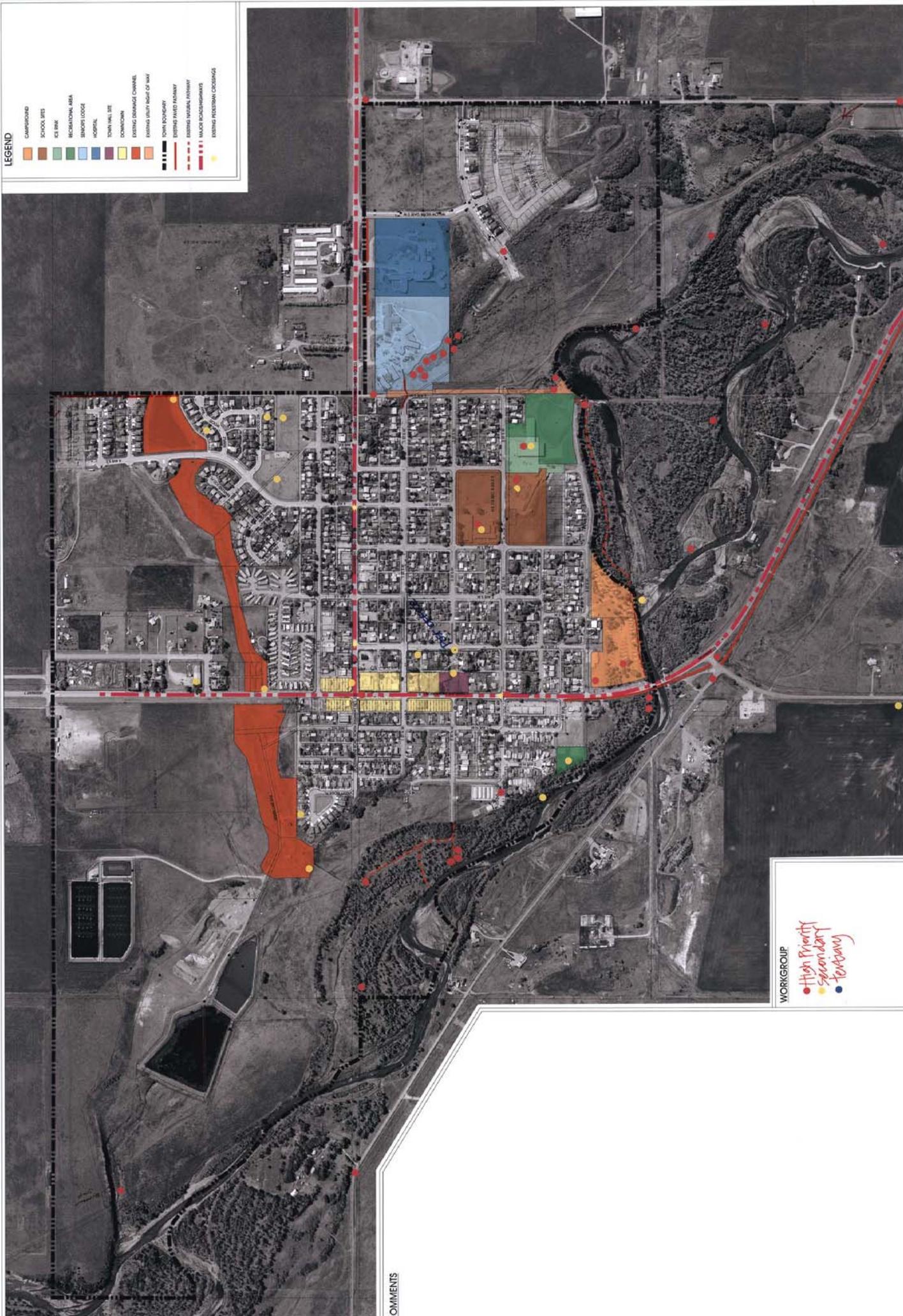
EXISTING CONDITIONS PHOTOS WORKSHOP 1

SCALE: 1:3000



IBI
GROUP



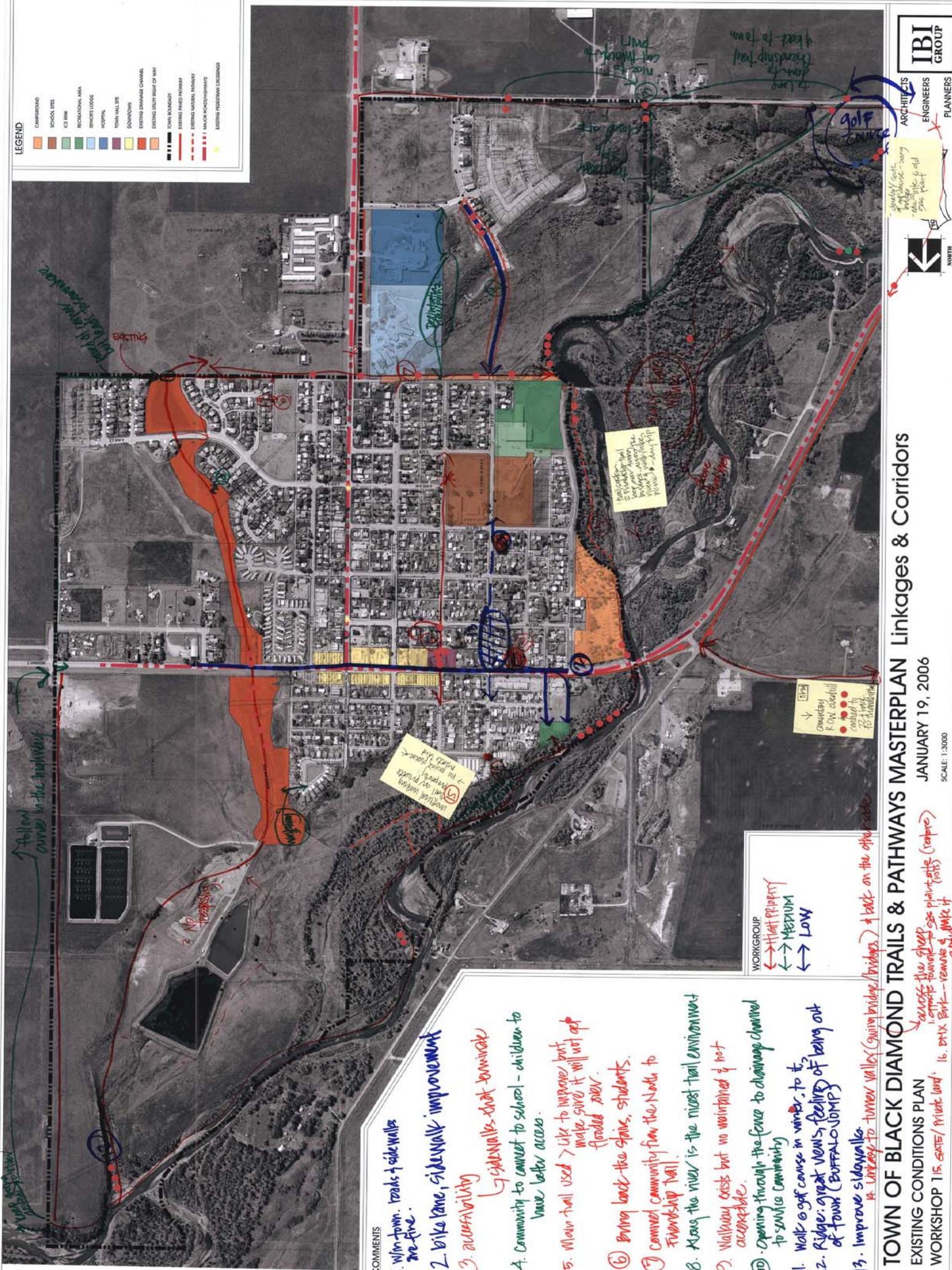


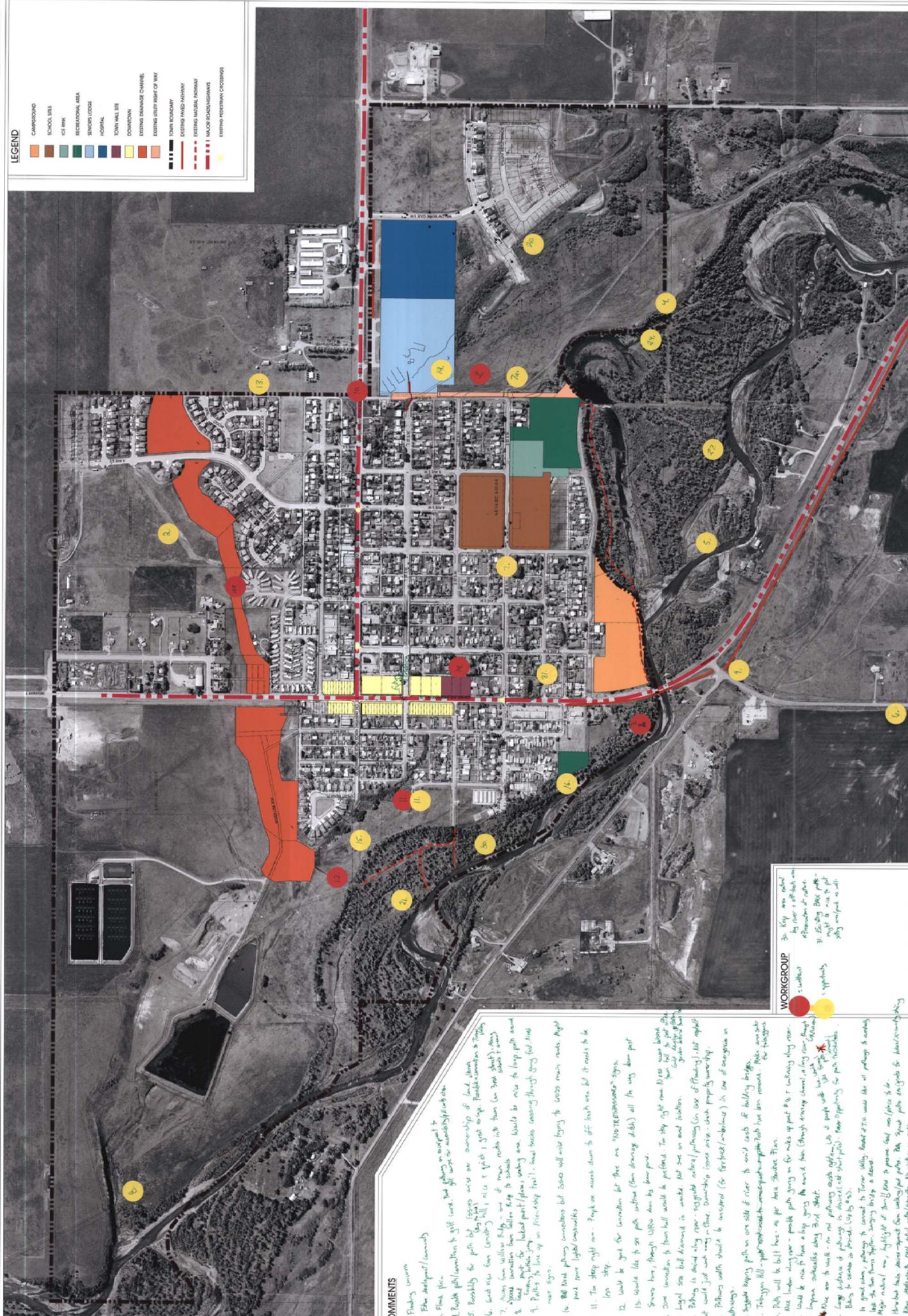
TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTERPLAN Areas of Interest
JANUARY 19, 2006

SCALE: 1:3000

NORTH

EXISTING CONDITIONS PLAN
WORKSHOP 1





OPPORTUNITIES

MASTERPLAN
JANUARY 19 2006

SCALE: 1:3000

TOWN OF BLACK DIAMOND EXISTING CONDITIONS PLAN WORKSHOP 1





Community Workshop for the Trails and Pathways Master Plan Development

Black Diamond Council Chambers
January 19, 2006, 6:30pm

Questionnaire

Name: _____

Association or Group Affiliation: _____

Email : _____

Phone number : _____

Address : _____

Please indicate if we may contact you for additional feedback yes no

1. What words best describe your town? (ex. Place for family, friendly, quiet, active)

2. What things do you enjoy doing within the Town?

3. Please indicate in order of preference which recreational activities/ pastimes you enjoy in general (1 being your most favourite, 2 being your second favourite etc... leave activities that you do not enjoy blank)

<input type="checkbox"/> Baseball / softball	<input type="checkbox"/> Biking	<input type="checkbox"/> Horseback riding
<input type="checkbox"/> Hiking	<input type="checkbox"/> Hockey	<input type="checkbox"/> Playing at the playground
<input type="checkbox"/> Skiing	<input type="checkbox"/> Shopping	<input type="checkbox"/> Soccer
<input type="checkbox"/> Walking/jogging	<input type="checkbox"/> Walking your dog or pet	<input type="checkbox"/> Fishing
<input type="checkbox"/> Water activity (specify _____)	<input type="checkbox"/> Other activity (please specify _____)	

Questionnaire

4. Please indicate in order of preference which recreational activities/ pastimes you enjoy **participating in within the Town of Black Diamond** (1 being your most favourite, 2 being your second favourite etc... leave activities that you do not enjoy blank)

<input type="checkbox"/> Baseball / softball	<input type="checkbox"/> Biking	<input type="checkbox"/> Horseback riding
<input type="checkbox"/> Hiking	<input type="checkbox"/> Hockey	<input type="checkbox"/> Playing at the playground
<input type="checkbox"/> Skiing	<input type="checkbox"/> Shopping	<input type="checkbox"/> Soccer
<input type="checkbox"/> Walking/jogging	<input type="checkbox"/> Walking your dog or pet	<input type="checkbox"/> Fishing
<input type="checkbox"/> Water activity (specify _____)	<input type="checkbox"/> Other activity (please specify _____)	

5. Do you use the existing Trails and Pathways System in Black Diamond?
 yes(go to #7) no (go to #6)

6. If you answered no, please explain why? _____

7.
8. If you answered yes, what activities do you do on the Trails and Pathways System. _____

9. The following are elements of a trails and pathway system, please rank. (1 being of highest importance, 10 being of least importance to you)

<input type="checkbox"/> accessible pathways	<input type="checkbox"/> continuous trails and pathway system (looped)
<input type="checkbox"/> connect areas of interest in the town	<input type="checkbox"/> wooded and covered
<input type="checkbox"/> Open green space	<input type="checkbox"/> safe road crossings
<input type="checkbox"/> lit pathways	<input type="checkbox"/> preserve nature
<input type="checkbox"/> mixed use	<input type="checkbox"/> single use

**Community Workshop for the Trails and Pathways
Master Plan
Black Diamond Council Chambers
JANUARY 19, 2006, 6**

Questionnaire

10. Please indicate your preference for trails surfacing (1 being highest in preference)

<input type="checkbox"/> asphalt	<input type="checkbox"/> crushed shale
<input type="checkbox"/> compacted soil (natural)	<input type="checkbox"/> gravel
<input type="checkbox"/> other (please specify _____)	

11. What do you like most about the existing trails and pathway system?

12. What do you like least about the existing trails and pathway system?

Additional Comments:

Please proceed to all three mapping stations and indicate where you feel are areas of interest, important linkages and corridors, and areas of conflict or constraints and opportunities.

Thank you for your time and input. If you have any questions or wish to fax this questionnaire at a later time please contact :

IBI Group and ask for Scott Wright or Joyce Tang
T: 403-270-5600
F: 403-270-5610
E: swright@ibigroup.com or jtang@ibigroup.com



Community Workshop for the Trails and Pathways Master Plan Development

Black Diamond Council Chambers
January 19, 2006, 6:30pm

Compilation of Questionnaire Results

- Where rankings were required and none were given, all boxes checked off were ranked as 1.
- Some people seemed to not differentiate between question 3 and question 4; therefore results for question 3 may not properly reflect all activities in which people participate.
- Some people use the same ranking for multiple choices.
- Some people did not rank all options for questions 9 and 10.

Name: _____

Association or Group Affiliation: _____

Email : _____

Phone number : _____

Address : _____

Please indicate if we may contact you for additional feedback yes no

#	Name	Asso/Group	Email	Phone No	Address	Contact
1	?					
2	Matthew Lozinsky, kid					
3	Betty McIntosh					
4	Fay Lyon					
5	Sheelagh Matthews	BD Parks & Rec Committee				
6	Joy Hinman	Citizen				Yes
7	Clover Slusar	Community Member				Yes
8	Linda Abrams	Protect the Sheep River				
9	Carl Fisher					Yes
10	Mae Fisher					Yes
11	Joanne Irwin	Town of BD				Yes
12	Wayne Barracough					Yes
13	Marilyn Barracough	Home-Owner				Yes
14	Marc Dallas					

#	Name	Asso/Group	Email	Phone No	Address	Contact
15	Jeannine Tucker					Yes
16	Ted MacLeod	BD Parks & Rec Committee				Yes
17	James Tucker	Scouts Canada				Yes
18	Lykke Patterson (Lou)					Yes
19	Joe Patterson	Town Councilor				
20	Linda Petryshen	Foothills Lions Club				Yes
21	John Stoli	Park and Rec				Yes
22	Carol Gauzer					Yes
23	Maureen Lynch	BD Parks & Rec Board				Yes
24	Les Quinton	Town of Black Diamond				Yes
25	Doug Elias					Yes
26	Ken McIntosh	Community Member				

1. **What words best describe your town? (ex. Place for family, friendly, quiet, active)**

- safe, beautiful little town, managing growing pains at an intelligent pace
- friendly atmosphere
- vibrant arts and business communities, is a friendly, spacious setup in the foothills
- Regarding Turner Valley: place for family, friendly, quiet, active, all of the above. I live on the golf course townsite, a quiet, friendly community, mixed-age population, cost to TV/BD towns, both with unique shops and services as well as restaurants, close to 2 good banks, flare/n derrick "concert hall" and schools
- country, small town living where a sense of community is valued – by the people who live here – not necessarily by the ???
- small town sustainable community with true sense of small town values
- an excellent town to enjoy out life and friendly people
- bedroom community, quaint, artsy, fully serviced, growing, unique
- quaint, friendly, scenic
- progressive, friendly, far enough from big city NOT big city
- friendly, busy, fun, active
- promising, quiet, rustic, bland
- A friendly family based place ready to grow and expand
- interesting, 'old town', quaint, friendly, community oriented, family oriented, some areas 'low income'
- my future
- it's a great community to raise family, it's quiet and the people are very friendly, its close to fishing, hunting, etc
- all the above, along with country atmosphere, nested in the Foothills

- great place to live, love the small town feeling, its quiet and there's a lot to do in our area, wouldn't leave ever to go back to the city
- small town life, people are friendly
- quiet, great artistic community, unique businesses
- small town, quality lifestyle, love the river valley
- a nice place to raise a family, friendly
- small town life
- a moderate to progressive small town with a delightful flavour for living comfortable.

2. *What things do you enjoy doing within the Town?*

- walking along river
- I like the forest by the toboggan hill
- enjoy all special events and occasions that town features and promotes
- walking my dog, going to the sat jam, meetings over coffee in a local café, eating at the Wild Horse Bistro, getting my photocopying and other admin needs looked after by Diamond Valley business supplies, working from my home office
- regarding Turner Valley and Black Diamond: walks, occasional bike-riding, shopping, eating at restaurants, occasional swimming, playgrounds with grandson, going to concerts and plays, going to the Valley Neighbours Club and Sheep Creek Arts Council
- I enjoy the sense of community – I shop for everything I can here but what I enjoy most is walking by the river and beaver ponds
- I own a business here – gives me a clear sense of place
- walking
- walking, shopping, visiting, curling
- walking, living/working
- walking, shopping, living, working at golf course, biking
- walking shopping, biking
- all there is for my interest is walking. I prefer outdoor, solitary and physical activities
- hiking, walking, biking
- walking, kiking, biking, sports in general, hangin' out at the river
- working, walking, playing with my kids in the park
- 1. I work within town, 2. walking my dog occasionally, 3. local entertainment
- walking, walking, walking, take my dog out twice a day and we have lots of places to go
- playing hockey at indoor rink, taking walks with family, going out to eat
- walking, cycling, shopping
- walking my dog, spending tome in river valley
- curling, walking, biking
- music, library, dining, walking, cycling
- getting involved with initiative that have a flair for bettering our community

3. Please indicate in order of preference which recreational activities/ pastimes you enjoy in general (1 being your most favourite, 2 being your second favourite etc... leave activities that you do not enjoy blank)

	1	2	3	4	5	6	7	8	9	10	11
Baseball/Softball	✓		✓		✓✓						
Biking	✓✓✓✓✓✓	✓✓✓✓✓✓	✓✓	✓	✓		✓✓				
Horseback Riding		✓	✓	✓		✓					
Hiking	✓✓✓✓✓✓ ✓✓	✓✓✓✓✓	✓✓✓	✓		✓					
Hockey	✓						✓✓				
Playing at the Playground	✓✓	✓✓		✓	✓✓						
Skiing	✓	✓✓		✓	✓✓✓						✓
Shopping	✓✓	✓✓	✓✓	✓							
Soccer			✓								
Walking/Jogging	✓✓✓✓✓✓ ✓✓✓✓✓✓ ✓	✓✓✓✓✓✓	✓✓	✓✓							✓
Walking Pet	✓✓✓✓✓✓ ✓	✓	✓	✓	✓						
Fishing	✓✓		✓✓	✓		✓✓			✓		
Water Activity	✓✓		✓✓✓	✓✓	✓	✓	✓				
Other	✓✓✓✓✓	✓	✓			✓					

Water Activities Listed:

- tubing down Sheep River,
- boating,
- competitive swimming, swimming lengths,
- walking at river (don't have a dog),
- swim,
- boating,
- swimming

Skiing:

- two people specified cross country,
- one person specified downhill

Other Activities Listed:

- exploring,
- golf,
- going to the movies usually in Calgary
- going down to the river to just look and thrown rocks in,
- golf,
- curling,
- camping,
- swimming laps,
- family outdoor time,
- curling

4. Please indicate in order of preference which recreational activities/ pastimes you enjoy participating in within the Town of Black Diamond (1 being your most favourite, 2 being your second favourite etc... leave activities that you do not enjoy blank)

	1	2	3	4	5	6	7	8	9	10
Baseball/Softball			✓					✓		
Biking		✓✓✓✓✓✓	✓✓	✓✓						
Horseback Riding		✓✓								
Hiking	✓	✓✓✓✓	✓✓✓	✓						
Hockey	✓				✓					
Playing at the Playground	✓	✓	✓			✓	✓			
Skiing			✓	✓						
Shopping		✓✓✓	✓✓✓✓✓✓	✓						
Soccer						✓				
Walking/Jogging	✓✓✓✓✓✓	✓✓✓✓✓✓	✓✓✓	✓						
	✓✓✓✓✓✓	✓✓✓✓✓✓								
	✓									
Walking Pet	✓✓✓✓✓✓	✓✓	✓	✓						
Fishing			✓		✓					✓
Water Activity					✓				✓	
Other	✓✓✓✓✓									

Water Activities Listed:

- tubing down Sheep River,
- hanging out at river

Skiing:

- one person specified cross country

Other Activities Listed:

- exploring,
- library user,
- golf,
- curling,
- family time,
- curling

5. Do you use the existing Trails and Pathways System in Black Diamond?

Yes: ✓✓✓✓✓✓ ✓✓✓✓✓✓ ✓✓✓✓✓✓ ✓✓✓✓✓✓ ✓✓✓✓✓✓ = 25

No: ✓ = 1

6. If you answered no, please explain why

- I just walk in town
- (Q5=yes) I walk south of the Lions campground, then I turn along the river towards the golf course and a lot of my walk is not part of our current pathways system. I would be lost without my nature walk!

7. If you answered yes, what activities do you do on the Trails and Pathways System

- walk and walk with pet
- explore and play games with my friends
- walk, enjoy nature
- walk my dog
- walking in all seasons, especially friendship trail, what other pathways are there?
- I walk my dog. I love to walk where there is still a feeling of "natural nature. This is very important to me.
- walk, rollerblade
- walk and jog and sightsee
- walk to Turner on friendship trail
- walk and walk my dog
- walk for exercise through town onto friendship trail almost as far as turner valley and back home
- walking/biking
- I don't think I would refer to it as a "system". I have walked, jogged and biked in, around, and through Black Diamond, Turner Valley and the surrounding municipalities. Would really like to see some long, challenging and interconnected trails. A real system.
- bike and walk during summer only because most are not maintained during the winter
- biking, hiking (walking), natural paths by river – skip rocks (family stuff)
- walk, hike with family and scouts, cubs, beavers
- walk and sometimes bike
- walk, hike, walk the dog
- I enjoy walking them, there's lots of variety in the scenery from the river to the woods
- walk along the river
- walk and cycle
- walking dog
- walking
- walking, jogging, cycling
- walking and jogging are the basic reasons for using the pathways. Observing nature is another benefit gained by using the trails system.

8. The following are elements of a trails and pathway system, please rank. (1 being of highest importance, 10 being of least importance to you)

	1	2	3	4	5	6	7	8	9	10
Accessible Pathway	✓✓✓✓✓✓ ✓	✓✓	✓✓✓✓✓	✓✓✓✓✓✓ ✓			✓✓	✓✓		✓
Continuous Trails and Pathway System (looped)	✓✓✓✓✓✓ ✓✓✓✓✓✓	✓✓✓	✓	✓✓	✓✓✓	✓	✓✓	✓✓	✓	
Connect Areas of Interest in the Town		✓✓✓	✓✓✓	✓✓✓	✓✓✓✓✓✓	✓✓	✓✓	✓		✓✓
Wooded and Covered	✓✓	✓✓✓✓✓	✓✓✓✓✓	✓	✓✓	✓		✓✓✓	✓	✓
Open Green Space	✓	✓✓✓ ✓	✓✓✓✓✓✓	✓✓	✓✓	✓✓✓	✓✓✓			✓
Safe Road Crossings		✓✓	✓✓	✓✓	✓✓✓	✓✓✓✓✓✓	✓✓✓✓✓✓		✓✓	
Lit Pathways			✓✓	✓	✓	✓	✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓✓✓
Preserve Nature	✓✓✓✓✓✓ ✓✓✓✓	✓✓✓✓✓✓	✓✓	✓✓	✓			✓		
Mixed Use	✓		✓✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓✓✓✓✓	✓
Single Use		✓		✓		✓✓	✓	✓	✓✓✓✓✓	✓✓✓✓✓✓ ✓✓

Comment on Mixed Use:

- but only limited mixed use. For example, walking, biking but not something else heavy/intensive too,
- some of both mixed use and single use

General Comment:

- also long range plan to link with Turner valley (hoping for amalgamation),
- ranked as third choice wanting a distance far enough to provide about 1 hour walk for exercise

9. Please indicate your preference for trails surfacing (1 being highest in preference)

	1	2	3	4	5
Asphalt	✓✓✓✓✓✓ ✓✓✓✓✓✓ ✓✓✓	✓✓✓	✓✓✓	✓✓✓	
Crushed Shale	✓✓✓ ✓✓	✓✓✓✓✓✓ ✓✓✓✓✓✓	✓✓✓✓✓✓	✓✓✓	
Compacted Soil (Natural)	✓✓✓✓✓✓ ✓✓✓✓✓✓	✓✓✓✓✓✓ ✓	✓✓✓	✓✓✓	
Gravel		✓✓✓✓✓✓ ✓✓✓✓✓✓	✓✓✓✓✓	✓✓✓	
Other					✓

Other Surfaces Listed:

- as natural as possible,
- paved

General Comments:

- Request for small pea sized gravel,
- Asphalt year-round use for bikes and hikers but variety desirable eg shale or natural earth trails,
- please take this as a vote for "natural" only,
- really depends on where its located, don't know – depends on circumstance

10. What do you like most about the existing trails and pathway system?

- the location along the river, oxbows and beaver dams. Very few people in natural areas
- most of them are in the trees to explore, play games with friends and look at nature
- the friendship trail is very well maintained (eg snow is removed quickly)
- quiet, private feeling of being able to "get away from it all"
- (friendship trail) handy, accessible year-round, away from the roads, open space at the Turner Valley end
- as far as I know there isn't an existing trail and pathway system. I walk by the Lions campground but it is private land. I also walk east of Vales Greenhouse which is good but for a pathway "system" I go to Okotoks and walk along the trails beside the asphalt.
- areas adjacent to the river are lovely
- the panoramic view
- easy to use, always clean when I have used it
- natural, able to enjoy nature in places, quiet, safe
- quiet, can see some wildlife on some trails (friendship trail)

- other than the "friendship trail" all others are extremely short. I do most of my walking, jogging, biking on the municipal roadways, ROWs, bush trails on private land. In my opinion there is no system.
- nearby my neighbourhood, black top, not busy
- non-roadside travel
- I like the friendship trail, easy to walk on
- natural
- I like the natural feeling of pathways in town. The feeling of really being in the country.
- natural
- I enjoy accessibility to the river – would like to see this enhanced
- access to pristine river valley, connectivity
- enjoyable scenery
- connects the towns, no vehicles
- the existing trails are limited in length. They do however provide one with some solitude and an opportunity to enjoy nature and they are an easy asphalt walk.

11. *What do you like least about the existing trails and pathway system?*

- they just stop and don't really go anywhere
- if there is no nature
- occasionally one will encounter dogs running at large, would much prefer to see them under control (not so scary)
- the missing stairs down/up the hill by the library/town hall
- would like to see other trails/areas developed for kids with mountain bikes and bmx (not just the friendship trail. Fast bikes are a bit scary coming up on hikers!) Could there be something developed elsewhere in the river valley incorporating hilly sections? (eg between TV and BD)
- Please re-open the stairway beside town office/library. I know its gone because of some by-law – make an exception please!
- limited length and choice
- not enough, should be more along river
- Good!
- no linkage, hard to access
- within town is too short to really provide exercise
- the portions we have are not connected to one another
- no loop, poor for training, boring
- not all maintained summer or winter
- not enough - in open space; to playgrounds; some need retainment system – no location maps
- some areas are not kept in repair or maintained

- not enough of them, have to plan for the future developers to construct paths/trails within the developments
- the ice in the winter time
- not continuous
- flood damage needs to be repaired
- not enough of them
- constant change in walking surface
- they are very limited in their length and diversity

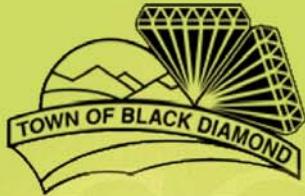
Additional Comments:

- It would have been really helpful to have info on land ownership in and around town where potential trails could be. Someone should have done that homework.
- More nature preserves and a computer lab for public use
- We need to make an exception to the town's "accessibility" bylaw (or whatever it is that is stopping us from putting those stairs back in [down/up the hill by the library/town hall])
- I hope eventually a larger area plan will be developed which will include a look at possible future development of the gas plant site. Please allow for this in the planning stages. It is my strong concern that new housing is being built without pedestrian walkways in the plans – just roads. This caters to cars as the only moving traffic. It ignores the needs of pedestrians of all ages: - mother with strollers or toddlers – kids walking to schools – people who would walk to pick up their mail and a few groceries – people walking their dogs – "serious" walkers or joggers who like to walk daily for exercise – mostly there are not pedestrian pathways and people have to use the roads. Also: When Turner Valley and Black Diamond join together we need a bigger plan to include the river valley connecting both towns. We could have pathways both sides of the Sheep River (above flood levels). We could have at least 2 "swing bridges" (suspension bridges) at intervals - so people could choose to walk a short loop, or a longer one. Also, pathways or trails for cross country skiing, for horse-riding, and toilets and garbage cans throughout.
- Thank you for the opportunity to participate in this process. Thank you for making this a part of our community design. Thank you for making sure Council and Diane Kreh see the input, participation and results.
- I would like us to be looking at larger picture – for biking – need a loop which includes Turner Valley – perhaps back along sheep river towards Okotoks
- I really appreciate the town taking the initiative to develop a trail system. I have lived, worked and travelled throughout the world and have seen communities with exceptional trail systems. Also, I have seen communities with none. Those with good trail systems are positive, dynamic and thriving.
- The town has great potential for future trails – we need some low impact planning
- Looks like we're going to get lots of comments. Great!
- Have a trail to schools for kids
- Good to see the town doing a master pathway plan

Appendix B

Supporting Document From the February 28, 2006 Open House





OPEN HOUSE FOR THE

Town of Black Diamond Trails and Pathways Master Plan Development

FEBRUARY 28, 2006
6:00-9:00 PM

IAN MCLAREN SCHOOL

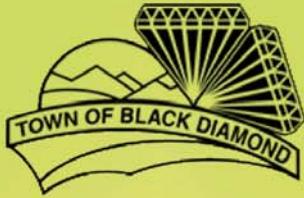
WELCOME!



Welcome to the second Open House for the
Town of Black Diamond Trails and Pathways Master Plan Development.

Your involvement is important! Come in, look at the summary panels from the first Open House, review the proposed draft trail and pathway map, and please fill out a questionnaire. Feel free to ask any questions. Please review all of the information provided and add your name to our contact list at the sign-in table.





Summary of Questionnaire from the January 19, 2006 Open House / Workshop

1. WORDS THAT BEST DESCRIBE YOUR TOWN

- Friendly
- Quiet
- Unique
- Family-oriented
- Small town
- Quaint
- Active
- Community-oriented
- Growing

2. THINGS YOU ENJOY DOING WITHIN THE TOWN OF BLACK DIAMOND

- Walking
- Biking
- Shopping
- Curling
- Outdoor Activities
- Living
- Attending special events
- Working
- Local Entertainment

3. GENERAL ACTIVITIES / PASTIMES YOU ENJOY (in order of popularity)

1. Walking/ jogging
2. Hiking
3. Biking
4. Walking a pet
5. Other (activities include golfing, curling, exploring, camping, swimming, going to movies)
6. Shopping
7. Water activity (activities included boating, swimming, tubing)
8. Playing at a playground
9. Fishing

4. ACTIVITIES/PASTIMES YOU ENJOY PARTICIPATING IN WITHIN THE TOWN OF BLACK DIAMOND (in order of popularity).

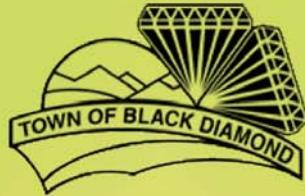
1. Walking/ jogging
2. Walking a pet
3. Biking
4. Hiking
5. Other (activities include golfing, curling, exploring, going to library, spending time with family)
6. Shopping
7. Playing at the playground
8. Hockey
9. Fishing
10. Skiing

5. DO YOU USE THE EXISTING TRAILS AND PATHWAYS SYSTEM IN BLACK DIAMOND?

96%- Yes 4%- No

6. IF YOU ANSWERED NO, PLEASE EXPLAIN WHY?

- Respondent walks in town
- Respondent walks in direction that is not part of Black Diamond's current pathway system.



Summary of Questionnaire from the January 19, 2006 Open House / Workshop

7. IF YOU ANSWERED YES, WHAT ACTIVITIES DO YOU DO ON THE TRAILS AND PATHWAY SYSTEM?

- Walking
- Biking
- Shopping
- Curling
- Outdoor Activities
- Living
- Attending special events
- Working
- Local Entertainment

8. RANKING OF TRAIL AND PATHWAY ELEMENTS IMPORTANT TO THE USER

1. Preserve nature
2. Continuous trails and pathway system (looped)
3. Accessible pathways
4. Wooded and covered
5. Open green space
6. Connection between areas of interest in town
7. Safe road crossings
8. Mixed Use
9. Lit pathways
10. Single use

9. RANKING OF PREFERENCE FOR TRAIL SURFACING

1. Asphalt
2. Compacted soil (natural)
3. Crushed shale
4. Gravel
5. Other (Other surface included paving material, pea sized gravel, and as natural as possible)

10. LIKES ABOUT THE EXISTING TRAILS AND PATHWAY SYSTEM:

- The location along the river
- Paths are quiet
- Paths are not located beside roads
- Paths provide solitude
- The Friendship Trail
- Paths are natural
- Enjoyable scenery

11. DISLIKES ABOUT THE EXISTING TRAILS AND PATHWAY SYSTEM:

- Paths are limited in length
- No location maps
- Paths are not continuous, no linkage
- Not enough paths
- Not all paths are maintained
- No stairs behind town hall



Areas of Interest

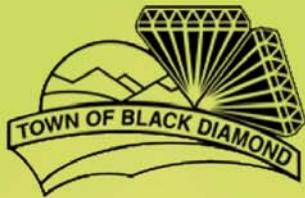


Linkages and Corridors



Opportunities and Constraints





COMMENTS

DESCRIPTION

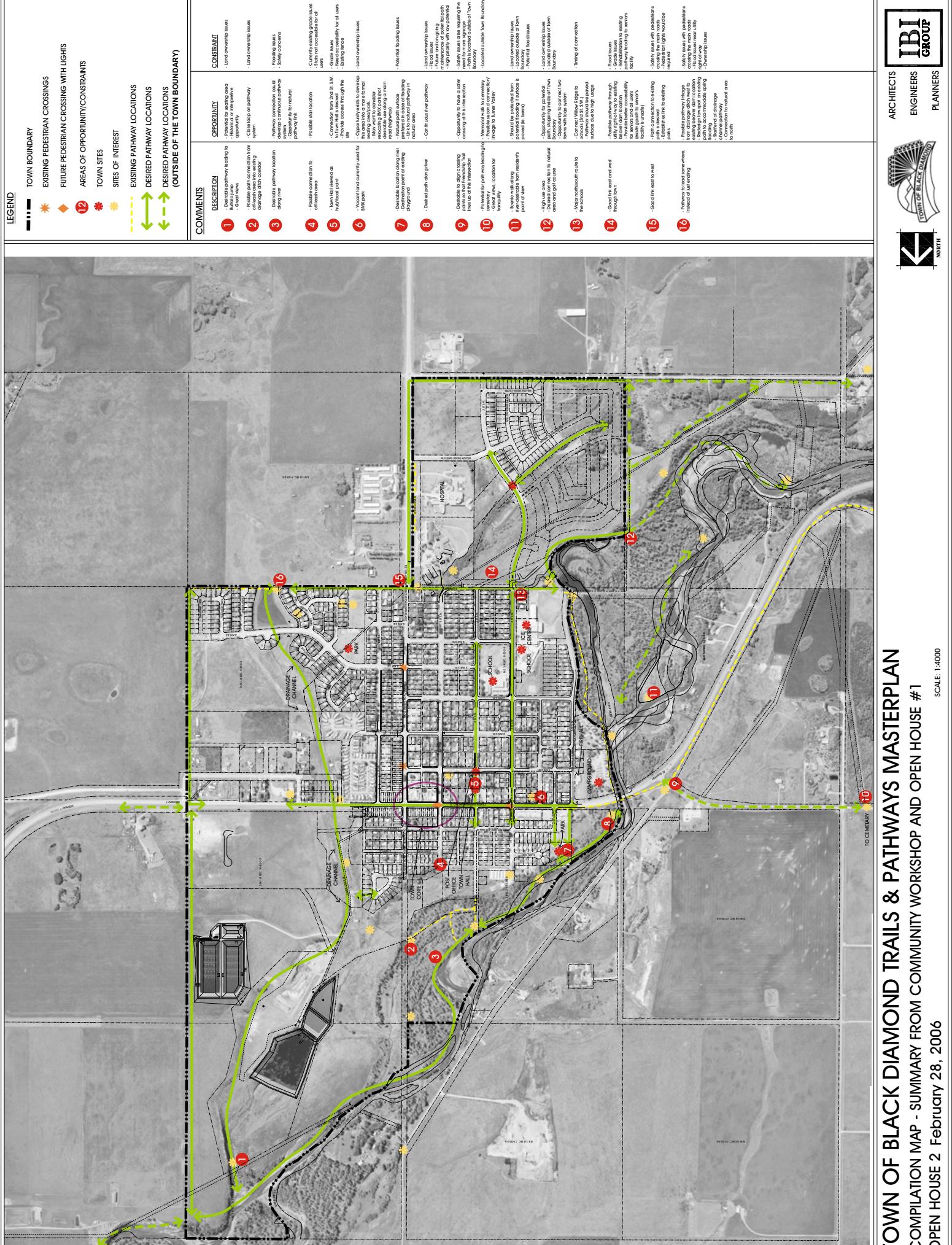
- 1 - Desirable pathway leading to Buffalo jump
- Great views
- 2 - Possible path connection from off-leash area into existing drainage ditch corridor
- 3 - Desirable pathway location along river
- 4 - Possible connection to off-leash area
- 5 - Town Hall viewed as hub/focal point
- 6 - Vacant land currently used for BMX park
- 7 - Desirable location along river
- Destination point at existing playground
- 8 - Desired path along river
- 9 - Desirable to align crossing points so that Friendship Trail lines up at this intersection
- 10 - Potential for pathway leading to cemetery
- Great views, location for tranquility
- 11 - Scenic walk along river-desirable from residents' point of view
- 12 - High use area
- Desired connection to natural area and golf course
- 13 - Major north/south route to the schools
- 14 - Good link east and west through town
- 15 - Good link east to west
- 16 - Pathway to lead somewhere, instead of just ending

OPPORTUNITY

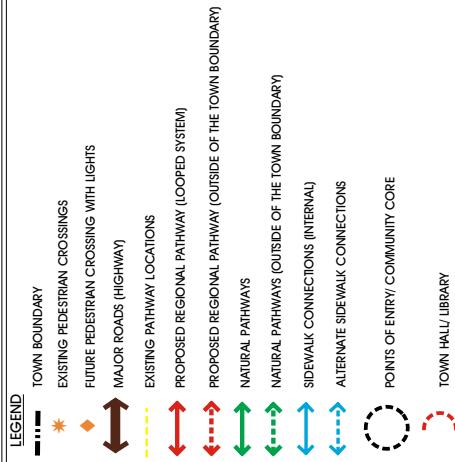
- Potential for seating area
- Historical or Interpretive opportunity
- Close loop on pathway system
- Pathway connection could develop continuous pathway system
- Opportunity for natural pathway link
- Possible stair location
- Connection from 2nd St. S.W. to Town Hall is desired
- Provide access through the site
- Opportunity exists to develop this area into a more formal seating area/park
- May want to consider relocating BMX park (not desirable use along a main road (highway))
- Natural path surface preferred in case of flooding
- Link to natural pathway in natural area
- Continuous river pathway
- Opportunity to have a safer crossing at this intersection
- Memorial walk to cemetery
- Possible second connection/linkage to Turner Valley
- Should be protected from potential flooding if surface is paved (i.e. berm)
- Opportunity for potential path, stopping inside of Town Boundary
- Opportunity to connect two towns with loop system
- Connect Willow Ridge to schools (3rd St. S.W.)
- Pathway should be paved surface due to high usage
- Possible pathway through utility right-of-way to existing beaver dam location
- Provide better accessibility for seniors and all users (existing path to senior's facility is unsafe)
- Path connection to existing path is desired
- Establishes link to existing parks
- Possible pathway linkage from drainage ditch west to existing beaver dam location
- Redesign low spot on existing path to accommodate spring flooding
- Start/end of drainage channel pathway
- Connection to natural area to north

CONSTRAINT

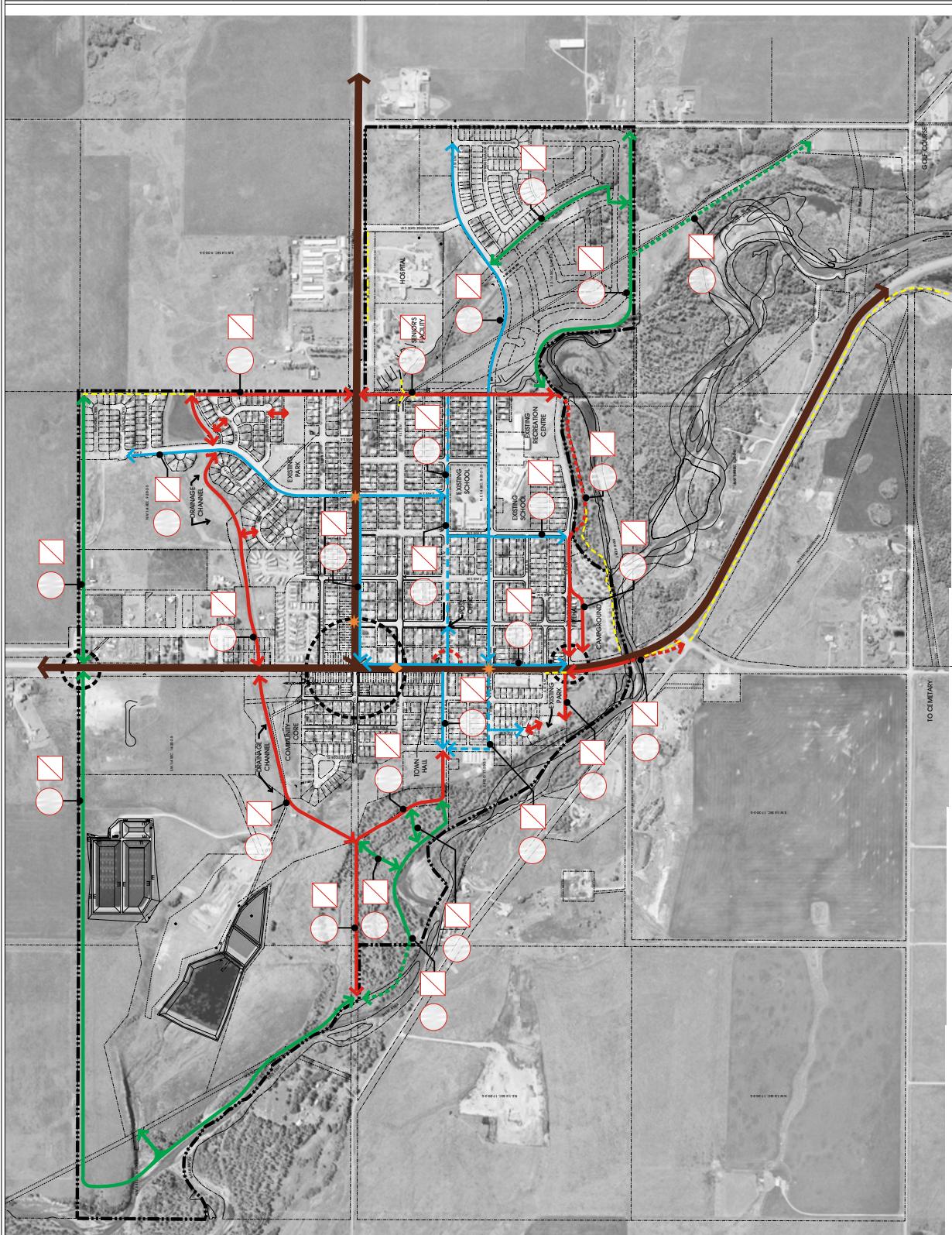
- Land ownership issues
- Land ownership issues
- Flooding issues
- Safety concerns
- Currently existing grade issues
- Stairs not accessible for all users
- Grade issues
- Need accessibility for all users
- Existing fence
- Land ownership issues
- Potential flooding issues
- Land ownership issues
- Flood issues
- Future and on-going maintenance of potential path
- High priority with low potential
- Safety issues arise requiring the need for more signage
- Path is located outside of Town Boundary
- Located outside Town Boundary
- Land ownership issues
- Located outside of Town Boundary
- Potential flood issues
- Land ownership issues
- Located outside of Town Boundary
- Timing of connection
- Flood issues
- Grade issues
- Rehabilitation to existing pathway leading to senior's facility
- Safety issues with pedestrians crossing the main roads
- Pedestrian lights would be required
- Safety issues with pedestrians crossing the main roads
- Flood issues near utility right-of-way
- Ownership issues



TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTERPLAN
COMPILATION MAP - SUMMARY FROM COMMUNITY WORKSHOP AND OPEN HOUSE #1
OPEN HOUSE 2 February 28, 2006



YOUR SURFACING COMMENTS	
SURFACING ABBREVIATIONS	
N = NATURAL TRAILS	
A = ASPHALT	
C = CONCRETE SIDEWALK	
S = SHALE/GRAVEL	
TRAIL =	
PRIORITY #	REASON FOR SURFACING CHANGE



TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTERPLAN

PRELIMINARY PATHWAY MAP
OPEN HOUSE 2, February 28, 2006

SCALE: N.M.S.



**COMMUNITY WORKSHOP AND OPEN HOUSE
FOR THE
Town of Black Diamond Trails and Pathways Master Plan Development
February 28, 2006
6:00pm**

Please sign in!

Name	Address	Phone # and Email	Organization	Can we contact you?
Edna MacLeod				Yes
Michelle Weston			Town of B	Yes
Andy Turcotte			BD	Yes
Doug Elias				Yes
Pat Holt			Foothills Cemetery	Yes
Ken McIntosh			Parks/Rec	Yes
Bruno Coats				Yes
Betty McIntosh				
Les Quinton			Town of BD	Yes
Jane Toews			SRCC	Yes
Julie Jacobson				
Linda Harren				
Joey Lyon ?				Yes
Spence ?				Yes
Linda ?				Yes
Carol Gauzer				Yes
Gary McGonigle			TV Golf Club	Yes
Rolly Magee			Town of BD	Yes
James Tucker			Scouts	Yes
Jeannine Tucker			Scouts	Yes
Ted MacLeod			BDP&R committee	Yes



Open House 2 for the Trails and Pathways Master Plan Development

Black Diamond – C. Ian McLaren School
February 28th 2006, 6:00pm

Questionnaire

Name: _____

Association or Group Affiliation: _____

Email : _____

Phone number : _____

Address : _____

Please indicate if we may contact you for additional feedback yes no

Did you attend the last community workshop/ open house yes no

1. How did you hear about this Open House? (please check)

newspaper radio
 community bulletin board word of mouth
 other (please specify _____)

2. If you attended the January 19th Open House, please indicate if you feel that the information shown on the panels summarized your input. yes no

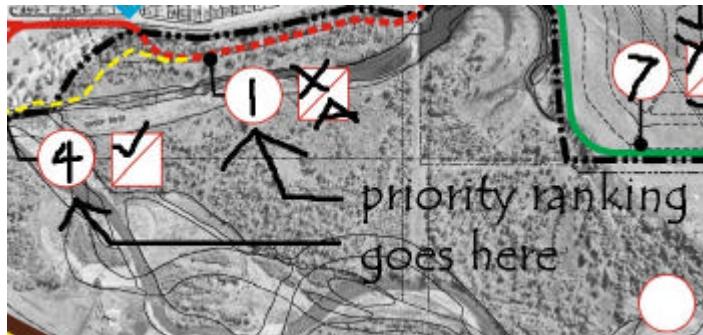
3. If you did not attend the January 19th Open House please provide us with any information that would be helpful as we develop the Town's pathway plan.

Trail and Pathways Development

a. Part 1: Priority:

Please refer to the attached map: Proposed Draft Trails and Pathways Master plan and indicate in the circle provided which trail segments you believe should have priority. 1 = first / highest priority and 10 being last/ lowest priority.

Example:



Questionnaire

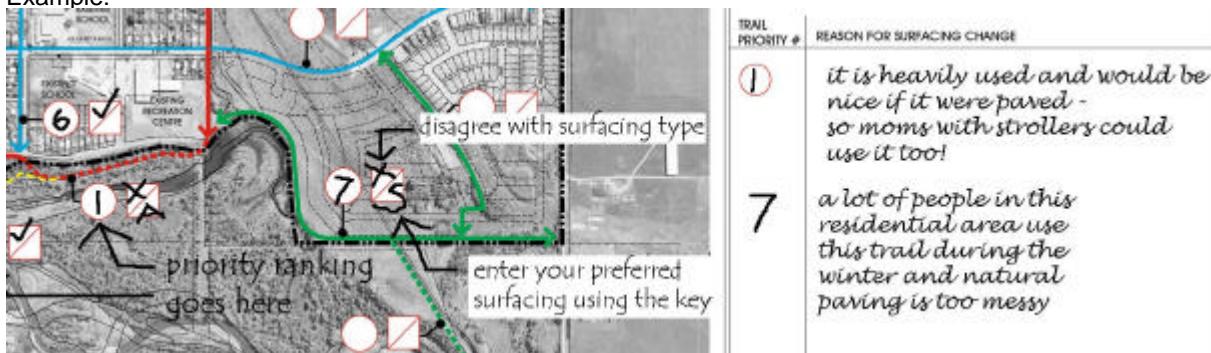
b. Part 2: Surface Treatment:

Again, referencing the attached **Proposed Draft Trails and Pathways Masterplan** please indicate if you agree with the suggested trail surfacing. If you agree please indicate by placing a **check** in the upper corner of the box. If you disagree please place an **X** in the upper corner of the box and indicate, and using the key provided, select your preferred surfacing type in the lower corner of the box and provide a reason why in the comment box to the left of the map.

N = natural trails (compacted soil) **A** = asphalt (paved)
C = concrete sidewalk (hard surface) **S** = shale or gravel

Example: The '1' indicates that you feel the dotted red trail should be highest in priority and the **X** indicates that you disagree with the paving type. The 'A' is your suggested surfacing type, which is asphalt and your reason is explained in the comment space to the right of the map. For trails where you agree with the surfacing type, such as trail marked with priority number '6' a **check** was placed and that is all that needs to be done. Trails where you feel a different surfacing type should be used, place the comments as shown, with the priority trail number to the left, and your reasoning to the right.

Example:



4. Do you feel that all user groups have been considered with respect to the overall development of the trails and Pathways shown? yes no
If no please explain:

Additional Comments:

Thank you for your time and input. If you have any questions or wish to fax this questionnaire at a later time please contact :

IBI Group and ask for Scott Wright or Joyce Tang
T: 403-270-5600
F: 403-270-5610
E: swright@ibigroup.com or jtang@ibigroup.com



LEGEND

LEGEND

- TOWN BOUNDARY**: A thick black line.
- EXISTING PEDESTRIAN CROSSINGS**: A black asterisk (*).
- FUTURE PEDESTRIAN CROSSING WITH LIGHTS**: A black diamond with a vertical line through it.
- MAJOR ROADS (HIGHWAY)**: A double-headed vertical arrow.
- EXISTING PATHWAY LOCATIONS**: A solid blue line.
- PROPOSED REGIONAL PATHWAY (LOOSED SYSTEM)**: A dashed blue line.
- PROPOSED REGIONAL PATHWAY (OUTSIDE OF THE TOWN BOUNDARY)**: A dashed red line.

NATURAL PATHWAYS (OUTSIDE OF THE TOWN BOUNDARY)

SIDEWALK CONNECTIONS (INTERNAL)

ALTERNATE SIDEWALK CONNECTIONS

POINTS OF ENTRY/ COMMUNITY CORE

TOWN HALL LIBRARY

SURFACING ABBREVIATIONS

A = ASPHALT
C = CONCRETE SIDEWALK
S = SHALE/GRAVEL

PRIORITY #	REASON FOR SURFACING CHANGE
1	



Open House 2 for the Trails and Pathways Master Plan Development

Black Diamond – C. Ian McLaren School
February 28th 2006, 6:00pm

Compilation of Questionnaire Results

Name: _____

Association or Group Affiliation: _____

Email : _____

Phone number : _____

Address : _____

Please indicate if we may contact you for additional feedback yes no

#	Name	Asso/Group	Email	Phone No	Address	Contact
1	Fay Lyon					
2	Sheelagh Matthews	BD Parks and Rec Committee				Yes
3	Rolly Magee	Mayor Town of BD				Yes
4	Andy Turcotte					
5	Ken McIntosh	BD Parks & Rec Comm				Yes
6	Carol Gauzer					Yes
7	James Tucker	Scouts				Yes
8	Bruno Coats					Yes
9	Julie Jacobson					
10	Gary McGonigle	Turner Valley Golf Club				Yes
11	Donna Rae Campbell					No
12	Michelle Weston	Town of BD				Yes
13	Betty McIntosh	Resident				Yes
14	Doug Elias					Yes
15	Spence Reicher					Yes
16	Ted MacLeod	BD P&R committee				Yes
17	Jane Toews					Yes
18	Les Quinton	Town of BD				Yes
19	Jeannine Tucker	parent, scouts, boys and girls				Yes

1. Did you attend the last community workshop/ open house

No: ✓✓✓✓✓✓✓✓✓✓ = 9

2. *How did you hear about this Open House?*

Newspaper ✓✓✓✓✓ ✓✓✓ = 8

Radio

Community Bulletin Board ✓✓✓✓ = 4

Word Of Mouth

Other (please specify)

On Council,
Big sign at entrance,
here for Tae Kwan Do,
Parks & Rec Board,
my husband told me I was coming

3. *If you attended the January 19th Open House, please indicate if you feel that the information shown on the panels summarized your input.*

Yes: ✓✓✓✓✓ ✓✓✓

8

✓ (but indicated they did not attend the first open house)

1

No: ✓ (but indicated they did not attend the first open house)

- 1
= 1

4. If you did not attend the January 19th Open House please provide us with any information that would be helpful as we develop the Town's pathway plan.

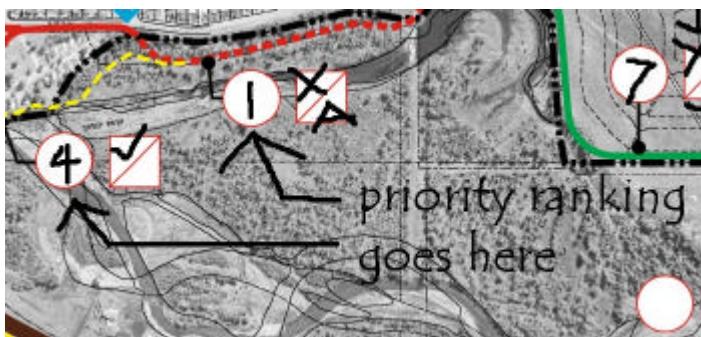
- thank you all for the work that you have done. I like very much what you have done
- north field behind my home has a natural flood plain along with willows and other trees. Developer is planning to cut down tree in order to sell more lots. It will impact future home owners (water) and privacy to them and ourselves. Save the 2nd line of trees and back up their homes (if necessary) to the trees and charge more. It would assist the homeowners and the people using the pathways.
- see comments re: buffalo jump area on map
- I like seeing pathways along river valleys and less in higher traffic areas – more natural settings with less road noise, safety
- more development of our pathways is much needed for this area

Trail and Pathways Development

a. **Part 1: Priority:**

Please refer to the attached map: Proposed Draft Trails and Pathways Master plan and indicate in the circle provided which trail segments you believe should have priority. 1 = first / highest priority and 10 being last/ lowest priority.

Example:



b. Part 2: Surface Treatment:

Again, referencing the attached **Proposed Draft Trails and Pathways Masterplan** please indicate if you agree with the suggested trail surfacing. If you agree please indicate by placing a **check** in the upper corner of the box. If you disagree please place an **X** in the upper corner of the box and indicate, and using the key provided, select your preferred surfacing type in the lower corner of the box and provide a reason why in the comment box to the left of the map.

N = natural trails (compacted soil) **A** = asphalt (paved)
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Example: The '1' indicates that you feel the dotted red trail should be highest in priority and the **X** indicates that you disagree with the paving type. The 'A' is your suggested surfacing type, which is asphalt and your reason is explained in the comment space to the right of the map. For trails where you agree with the surfacing type, such as trail marked with priority number '6' a **check** was placed and that is all that needs to be done. Trails where you feel a different surfacing type should be used, place the comments as shown, with the priority trail number to the left, and your reasoning to the right.

Example:



Trail and Pathways Development Comments on Map

- note: 1's are mostly natural pathways, so not much to do with them except leave as is if already there
- PUT STAIRS IN – TOP PRIORITY (location marked on map, to the north of existing schools at existing pedestrian crossing)
- preserve buffalo jump area in as natural state as possible
- 3rd street connector should be very pedestrian and bicycle friendly
- paths near river should be natural, not asphalt
- area 3 (by town hall) – path within floodplain and natural area, may be subject to damage
- area 0 (north of town) – prefer no development in this area
- buffalo jump is a provincial registered archaeological site and blackfoot cultural site, any pathway should be very careful not to disturb (further) the cliffs. Maybe re-route south and west of cliffs?
- there is a lot of growth in this area and from what I have seen it is quite a high use area.
- Pavement would be nice – as much pavement as is financially possible – these paths will see way more use than one's that are not paved.
- Location 1 spots, concrete sidewalks for permanence
- location 10 spots, asphalt to where?
- Location 5 water prone areas, us a less costly to repair surfacing
- p = paved paths
- I think all potential trails should be "developed". By developed I mean made known as a public route, not necessarily with a paved, engineered trail. The trails could be graded ie easy, moderate, difficult and let people decide if they are up to any given trail.

- Location 2 NE of town – become natural or shale transition from asphalt because pedestrian xing across highway. Should be controlled interchange (see diagram on map ...natural... pave ped.xing pave....)
- location 3A (added to map at north of town by town hall) asphalt leg connected to natural pathway (see diagram on map)
- the above [two] comments include less footprint in natural areas (listed natural paths as N, sidewalks as C, proposed pathway as A)
- All natural pathways, no paving in natural areas
- 1 and 2 (south of town) with future expansion of the town to the south a connecting sidewalk should be in place
- 3 (west of town) corners (?) existing sewer line if repairs are needed we do not want to be replacing asphalt
- 4, 5, 6, and 7 (nne of town) drainage area, natural area, natural walkway

5. *Do you feel that all user groups have been considered with respect to the overall development of the trails and Pathways shown?*

If no please explain:

- there might be a number of community groups that may not have had a chance to preview some of this

Additional Comments:

- Thank you, well done
- I am very much in favour of all the parks & rec community has done. Keep the good work up. Thank you
- I hope the town takes it seriously and not just a phase to go through (going through the motions)
- location of all trails to be accessible at the entrance of town
- keeping with natural trails is the most important. I feel all trails within town homes should be asphalt/concrete
- signs along the paths indicating points of interest, local wildlife, historical facts, nature info
- personally I really like what I see. I would like it if we chose to keep the beauty of the natural areas by keeping the affect of construction to a minimum. In the area developed and future developed areas, this is great.
- I feel that it would be important to plant trees along the pathways to shade the walkers. Too many trees coming down along sheep and town land and no replanting taking place.
- not all user groups may have attended and put input on the plan
- I'm glad to see the results of the consultation process being used and considered so strongly in this process. It makes living in BD even more of a desirable place to live. Thanks for the hard work.

Appendix C

Supporting Document From the March 30, 2006 Open House





WELCOME!

OPEN HOUSE FOR THE

Town of Black Diamond Trails and Pathways Master Plan Development

March 30, 2006
6:00-8:00 PM

C. IAN MCLAREN SCHOOL

WELCOME!



Welcome to the final Open House for the
Town of Black Diamond Trails and Pathways Master Plan Development.

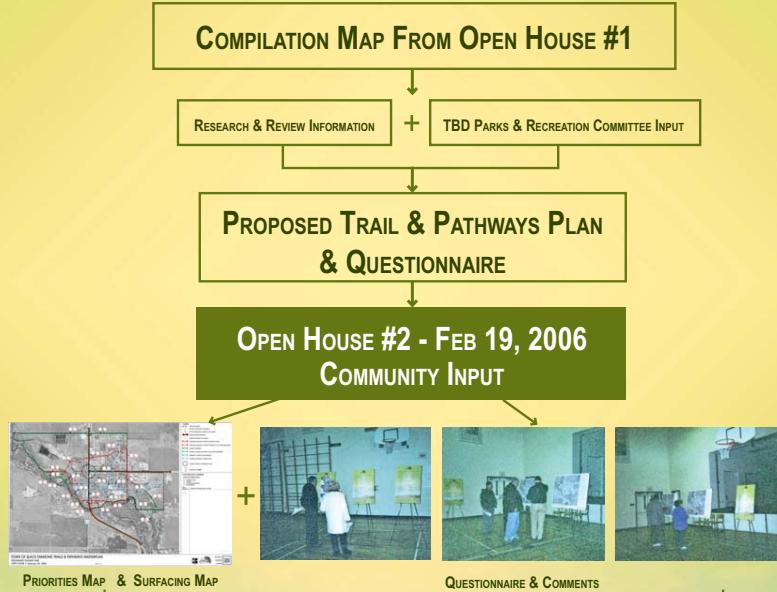
Your involvement is important! Come in, look at the summary panel from the second Open House, review the proposed trail and pathway maps, and fill out a questionnaire. Feel free to ask any questions. Please review all of the information provided and add your name to our contact list at the sign-in table.



TRAILS & PATHWAYS INVENTORY

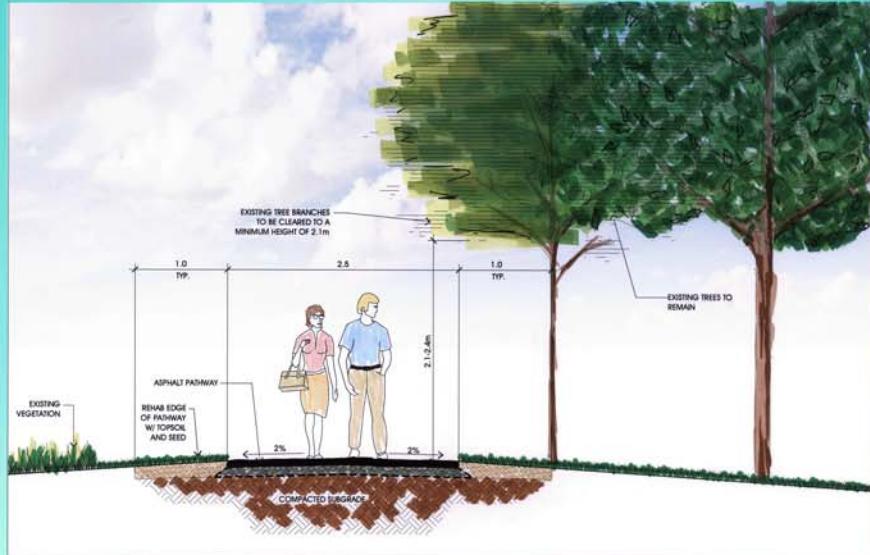


TRAILS & PATHWAYS ANALYSIS

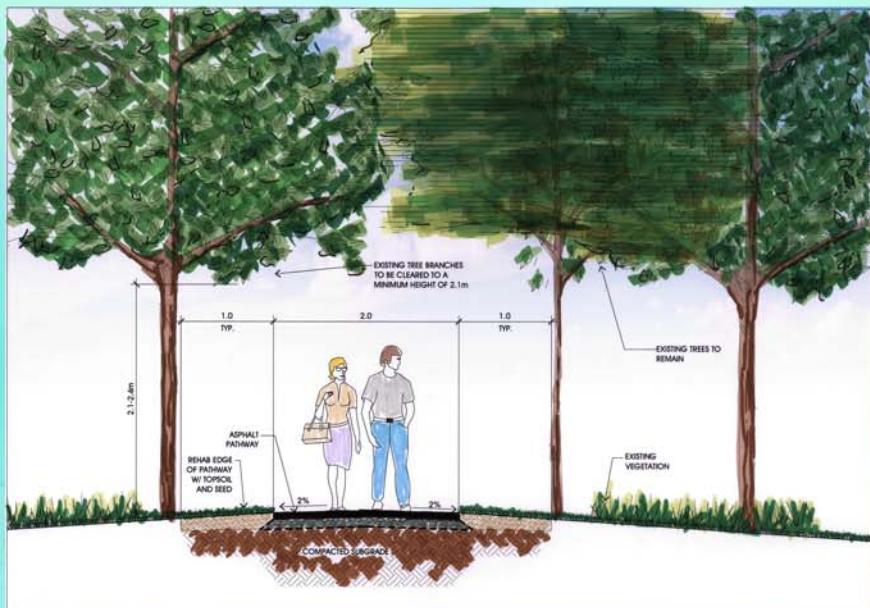


TRAILS & PATHWAYS SYNTHESIS





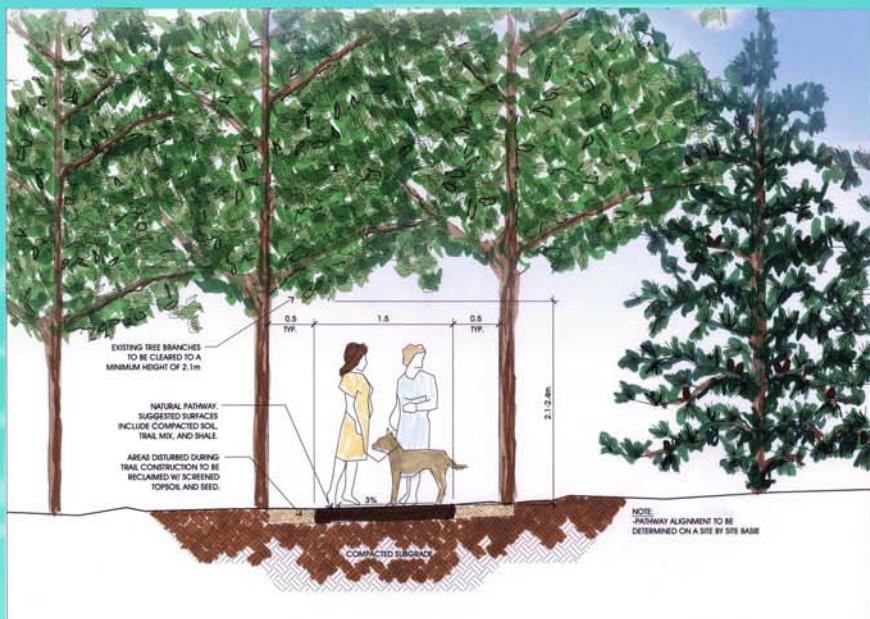
1 ASPHALT REGIONAL PATHWAY (2.5m WIDTH)
SCALE - 1:25



2 ASPHALT LOCAL PATHWAY (2.0m WIDTH)
SCALE - 1:25

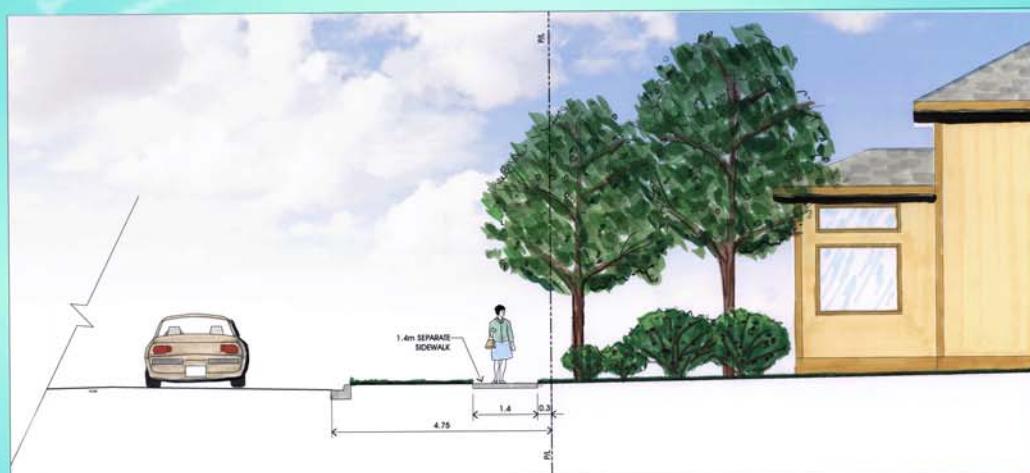
DESIGN DETAILS
TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTER PLAN
MARCH 30, 2006 OPEN HOUSE





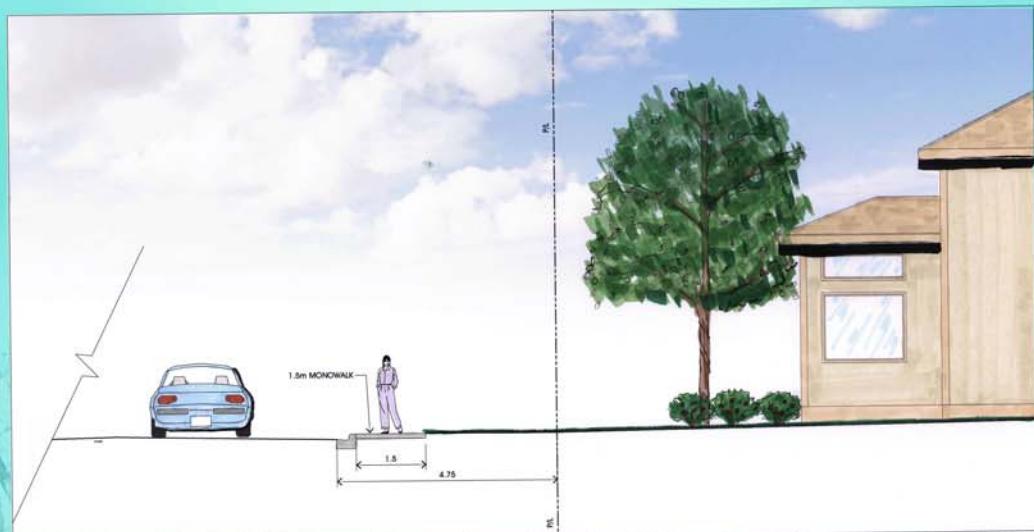
3 NATURAL PATHWAY

SCALE: 1:25



4 SEPARATE SIDEWALK

SCALE: 1:50

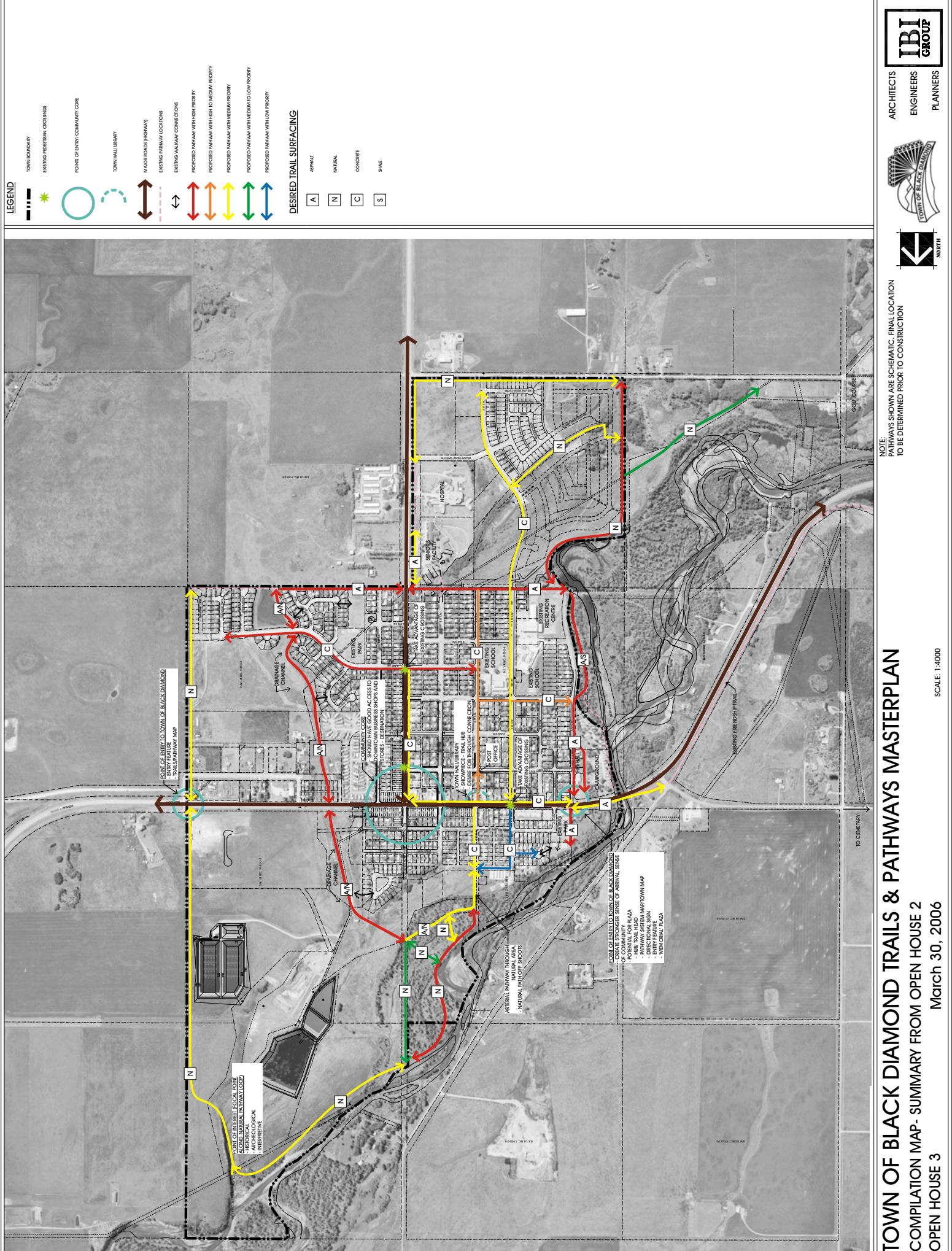


5 MONOLITHIC SIDEWALK

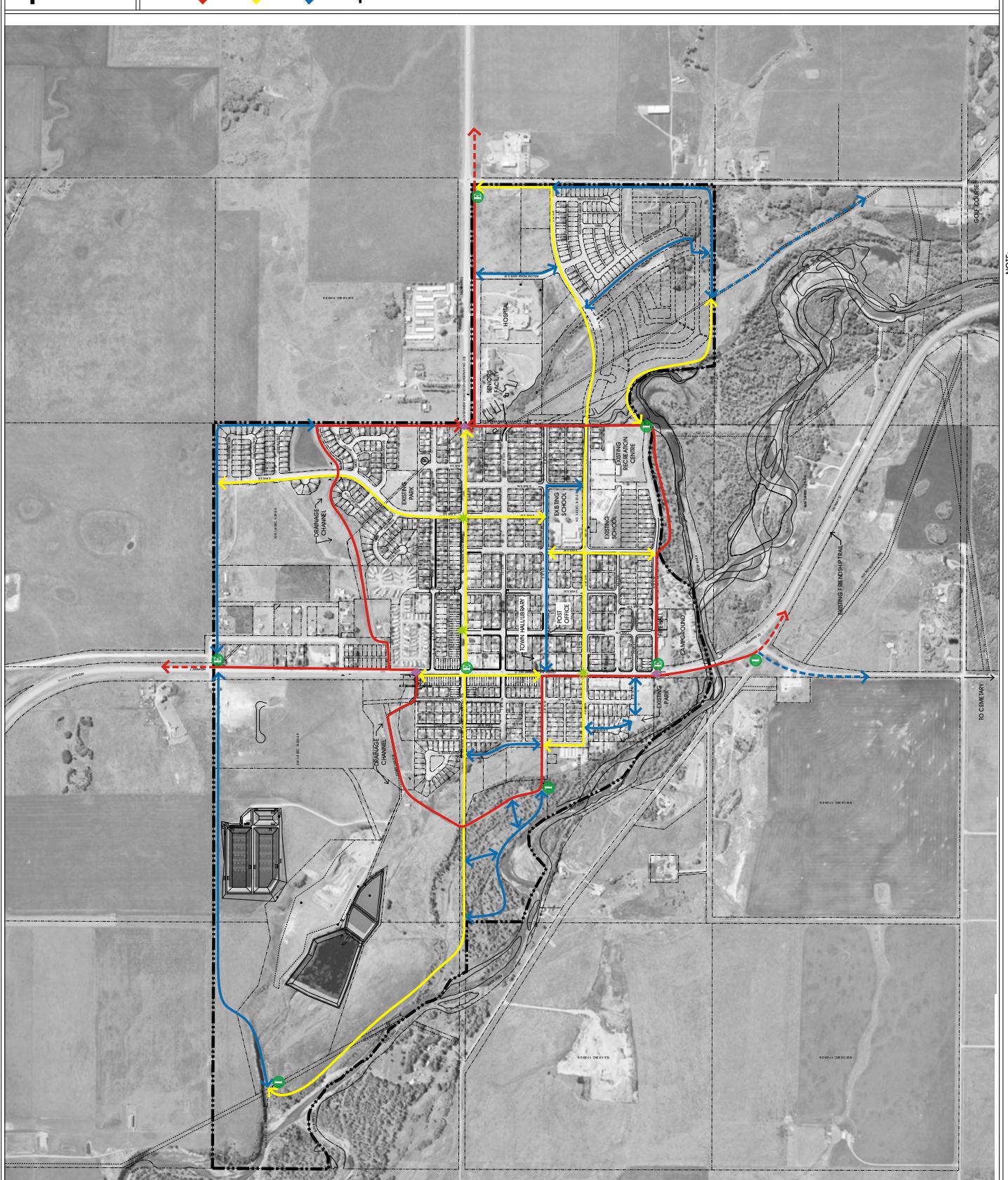
SCALE: 1:50

DESIGN DETAILS

TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTER PLAN
MARCH 30, 2006 OPEN HOUSE



LEGEND



ACKNOWLEDGMENTS

THANX TO THE FOLCHING PEOPLE FOR THEIR HELP IN THE DEVELOPMENT OF THE TOWN OF BLACK CANYON AND TRAILS AND PATHWAY, A MASTERSPLAN: BLACK CANYON TOWN COUNCIL.

MICHEL JACKSON
JOE PATERSON
BILL PRICE
MIKE ROSS

REAGAN NATIONAL AIRPORT, WASHINGTON, D.C. 20591-0001
ICE PATRONS
DEAN AMBROZ
WADEEN LYNCH
KEN WENKOSH
JOHN STOLL
TED WATCEO
LES CHUTIN, CHIEF CHANNOIN, PARSONS AND DIFCO, ON MANAGED

NOTE: PATHWAYS SHOWN ARE SCHEMATIC. FINAL LOCATION TO BE DETERMINED PRIOR TO CONSTRUCTION

SCALE 1:4000

OPEN HOUSE 3

The logo for the Town of Black Diamond features a stylized sunburst or fan shape at the top, with a circular base containing a mountain-like silhouette. The text "TOWN OF BLACK DIAMOND" is written vertically along the right side of the base.

A small icon in the bottom right corner of the slide, consisting of a white 'V' shape pointing down and to the right, with the word 'NORTH' written vertically to its right.

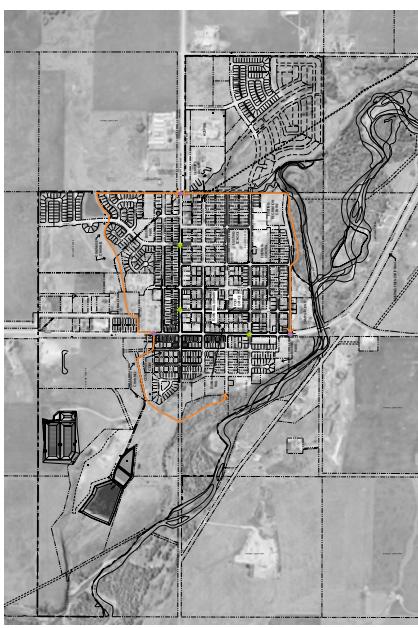
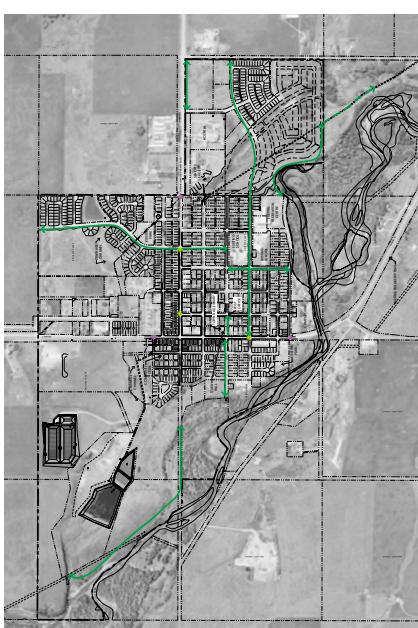
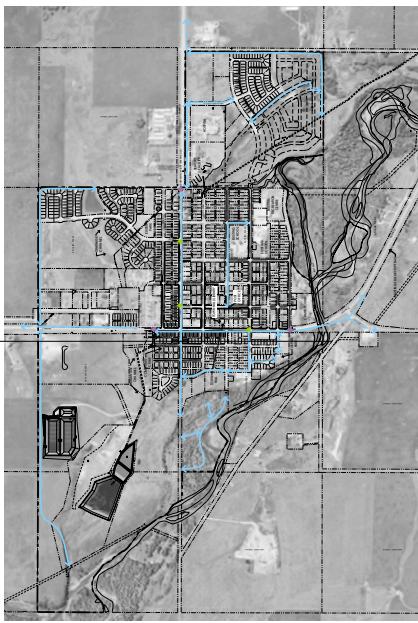
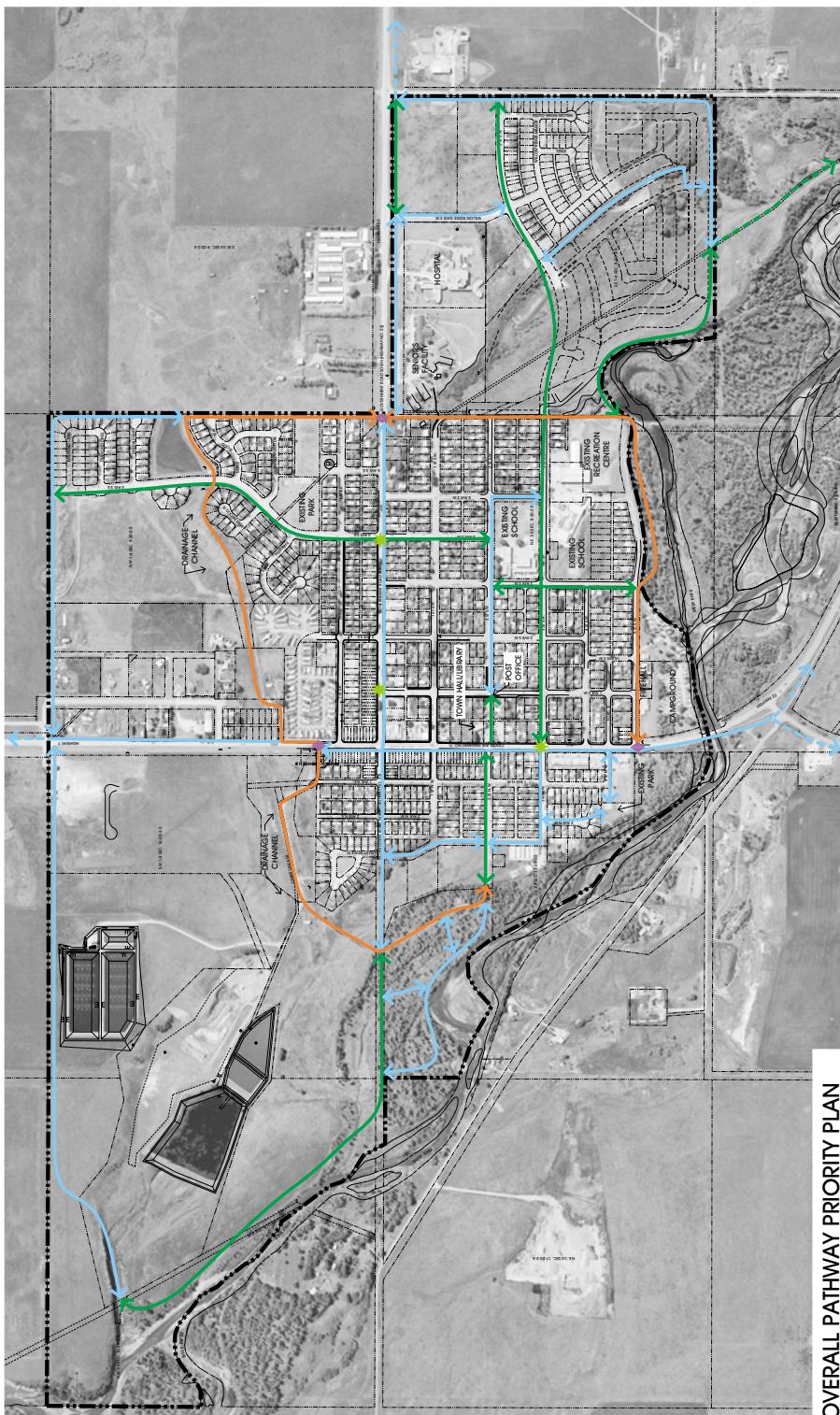
卷之三

ALLO
DUCTION

NOTE:
PATHWAYS SHOWN ARE SCHEMATIC, FINAL LOCATION
TO BE DETERMINED PRIOR TO CONSTRUCTION

OVERALL PATHWAY PRIORITY PLAN

SCALE: 1:4000



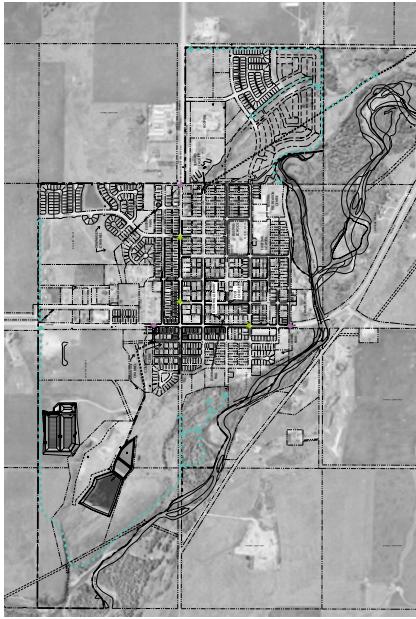
NOTE:
PATHWAYS SHOWN ARE SCHEMATIC, FINAL LOCATION
TO BE DETERMINED PRIOR TO CONSTRUCTION

OVERALL PATHWAY SURFACING PLAN

SCALE: 1:4000

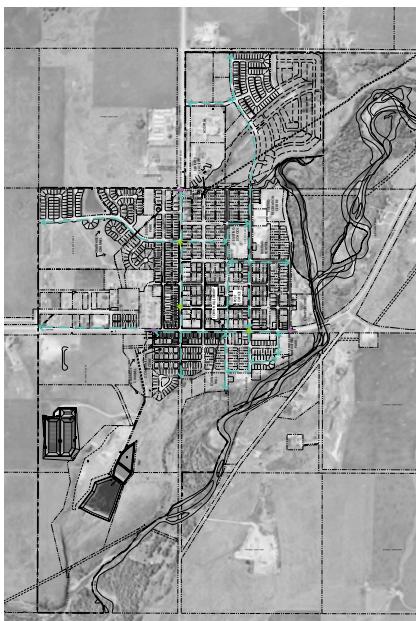
TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTERPLAN

March 30, 2006



NATURAL PATHWAYS

SCALE: 1:10,000



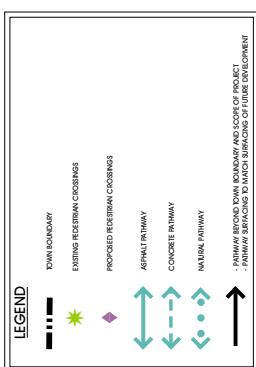
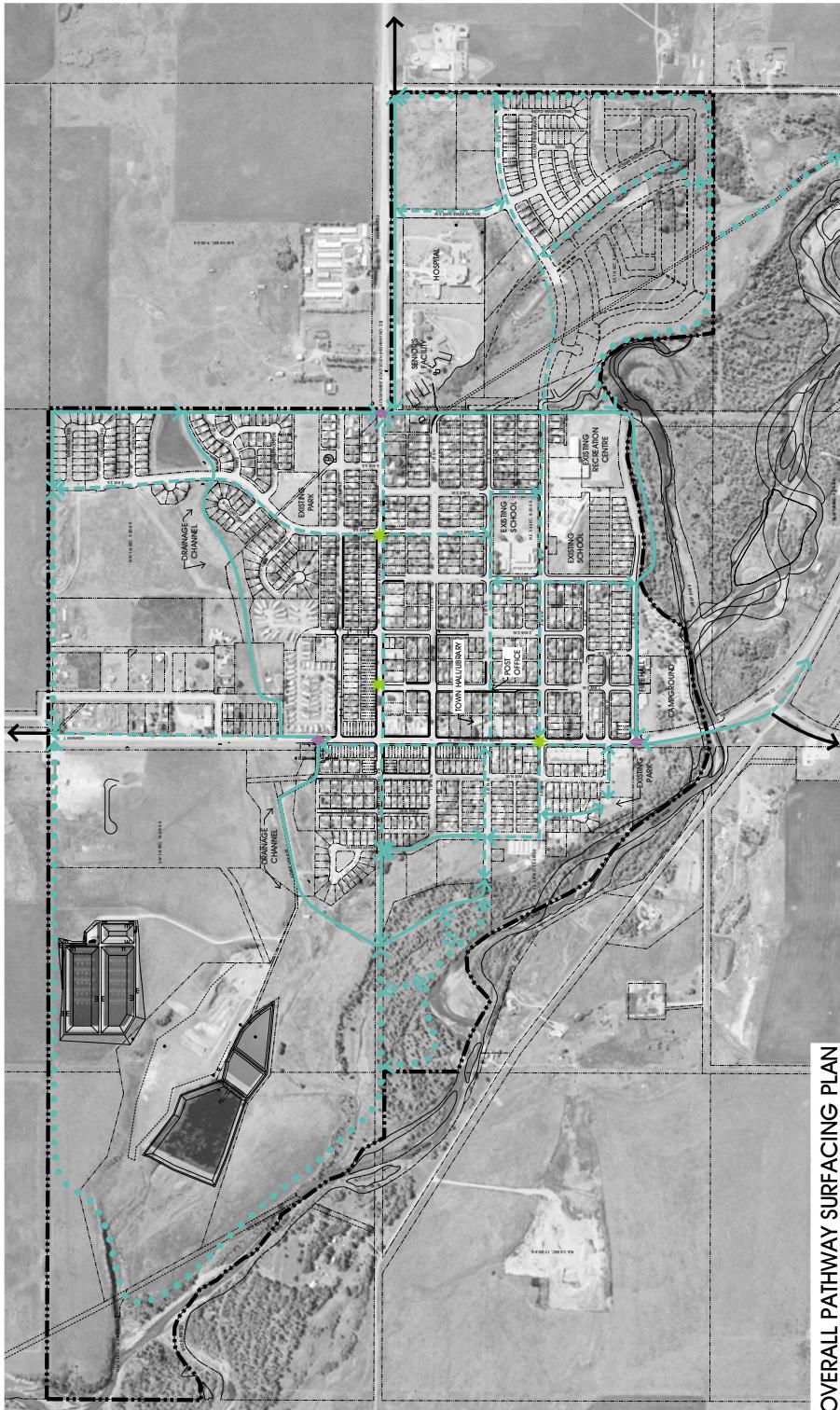
CONCRETE PATHWAYS/ SIDEWALKS

SCALE: 1:10,000

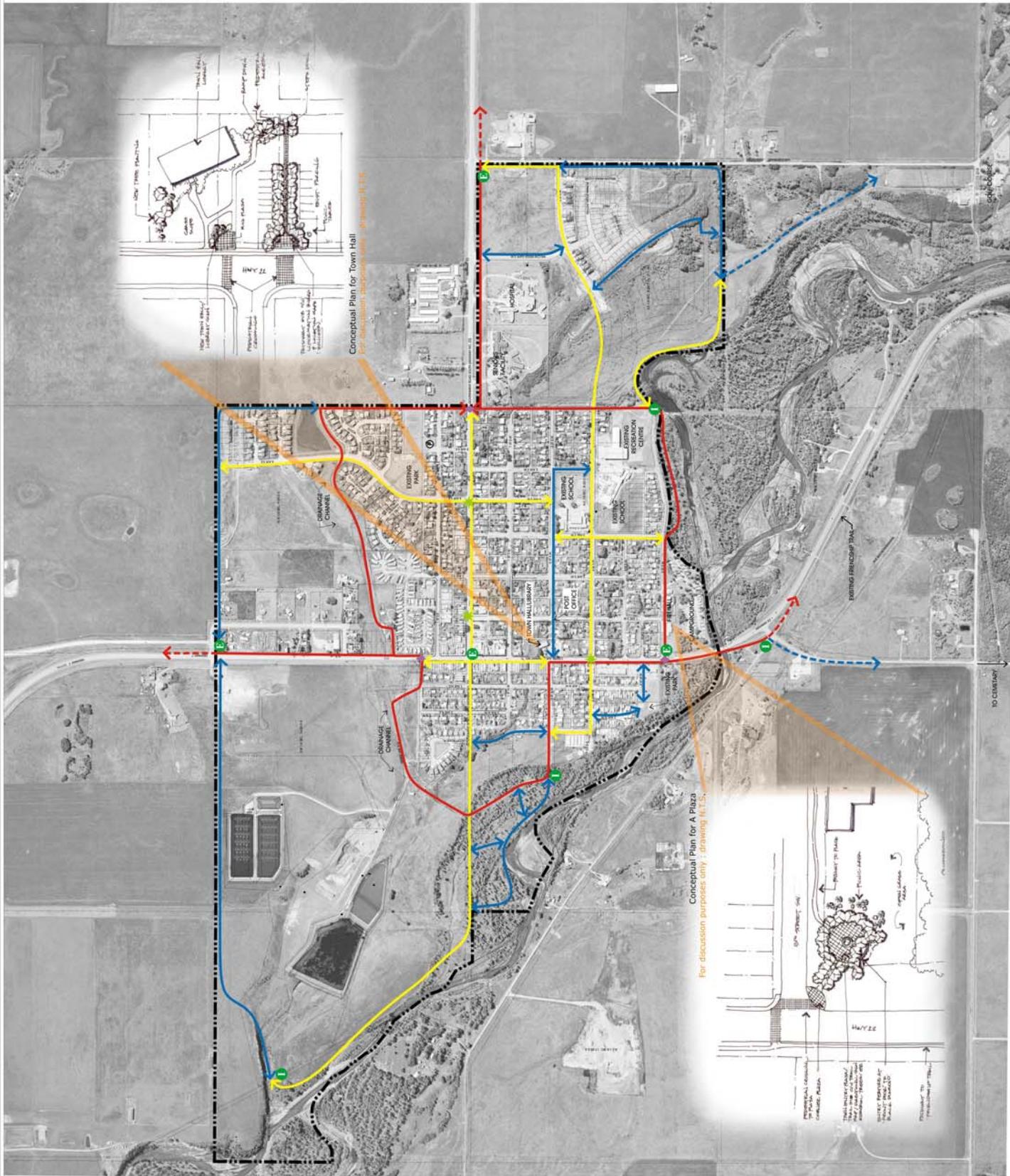
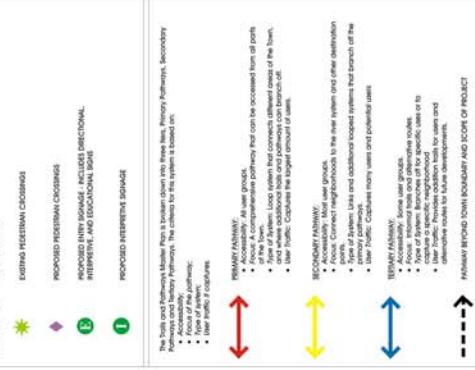


ASPHALT PATHWAYS

SCALE: 1:10,000



LEGEND



ACKNOWLEDGMENTS

THANKS TO THE FOLLOWING PEOPLE FOR THEIR HELP IN THE DEVELOPMENT OF THE TOWN OF BLACK DIAMOND TRAILS AND PATHWAYS MASTERPLAN.

DAVID DIAZ AND PATRICK MASTRAN

ROBY MAGG (TOWN COUNCIL)

SHARON BROWN

JOE PATTERSON

BILL PRICE

MIKE KELLY

BLACK DIAMOND PARKS AND RECREATION COMMITTEE

MARK PATTERSON

JOE PATTERSON

DAVID DIAZ

SHARON BROWN

JOE PATTERSON

ETI MARCHAND

TED MACLEOD

LES GARTH (BLACK DIAMOND PARKS AND RECREATION MANAGER)

THANKS TO THE PEOPLE OF BLACK DIAMOND AND SURROUNDING AREAS THAT ATTENDED THE OPEN HOUSES.

TOWN OF BLACK DIAMOND TRAILS & PATHWAYS MASTERPLAN

TRAILS AND PATHWAYS MASTERPLAN

OPEN HOUSE 3

March 30, 2006

SCALE: 1:4000



NOTE: PATHWAYS SHOWN ARE SCHEMATIC. FINAL LOCATION TO BE DETERMINED PRIOR TO CONSTRUCTION



**COMMUNITY WORKSHOP AND OPEN HOUSE
FOR THE
Town of Black Diamond Trails and Pathways Master Plan Development
March 30, 2006
6:00-8:00pm**

Please sign in!



Open House 3 for the Trails and Pathways Master Plan Development

Black Diamond – C. Ian McLaren School
March 30th 2006, 6:00-8:00pm

Questionnaire

Name: _____

Association or Group Affiliation: _____

Email : _____

Phone number : _____

Address : _____

Please indicate if we may contact you for additional feedback yes no

Did you attend the last community workshop/ open house yes no

1. How did you hear about this Open House? (please check)

<input type="checkbox"/> newspaper	<input type="checkbox"/> radio
<input type="checkbox"/> community bulletin board	<input type="checkbox"/> word of mouth
<input type="checkbox"/> other (please specify _____)	

2. If you attended the February 28th Open House, please indicate if you feel that the information shown on the panels summarized your input. yes no

3. If you did not attend the January 19th or the February 28th Open House please provide us with any information that would be helpful as we finalize the Town's pathway plan.

4. Do you agree with the proposed Master Plan? yes no
If no please explain:

5. Do you agree with the proposed Priority Plan? yes no
If no please explain:

Questionnaire

6. Do you agree with the Surfacing Plan? yes no
If no please explain:

7. Do you agree with the design details? yes no

Additional Comments:

Thank you for your time and input. If you have any questions or wish to fax this questionnaire at a later time please contact :

IBI Group and ask for Scott Wright or Joyce Tang
T: 403-270-5600
F: 403-270-5610
E: swright@ibigroup.com or jtang@ibigroup.com



Open House 3 for the Trails and Pathways Master Plan Development

Black Diamond – C. Ian McLaren School
March 30th 2006, 6:00-8:00pm

Compilation of Questionnaire Results

Name: _____

Association or Group Affiliation: _____

Email : _____

Phone number : _____

Address : _____

Please indicate if we may contact you for additional feedback yes no

#	Name	Asso/Group	Email	Phone No	Address	Contact
1	Ted MacLeod	BD Parks & Rec Com.				Yes
2	Anne Vale					Yes
3	James Tucker	Scouts				Yes
4	Diane M. Huffman	Self				Yes
5	Fay Lyon/Spence Reichert					Yes
6	Wayne and Marilyn Barracough	Resident				Yes

Did you attend the last community workshop/ open house

Yes: ✓✓✓✓ = 4

No: ✓✓ = 2

How did you hear about this Open House? (please check)

Newspaper ✓✓✓✓ = 4

Radio ✓✓ = 2

Community Bulletin Board ✓✓✓✓ = 4

Word Of Mouth ✓ = 1

Other (please specify) Self (Work)

1. If you attended the February 28th Open House, please indicate if you feel that the information shown on the panels summarized your input.

Yes: ✓✓✓✓ = 4

No: = 0

N/A: ✓ = 1

2. If you did not attend the January 19th or the February 28th Open House please provide us with any information that would be helpful as we finalize the Town's pathway plan.

- (attended Feb 28th) Ask Joyce regarding ownership of piece adjoining parcel P near river – this is a dogleg on Vale's greenhouse title

3. Do you agree with the proposed Master Plan?

If no please explain:

Yes: ✓✓✓✓✓ ✓ = 6

No: 0

➤ (responded yes) I wouldn't mind seeing the east boundary route past the lagoon/buffalo jump bumped up to the middle priority but other than that I feel it is spot on!

4. Do you agree with the proposed Priority Plan?

If no please explain:

Yes: ✓✓✓✓✓✓ ✓ = 6

No: = 0

5. Do you agree with the Surfacing Plan?

If no please explain:

Yes: ✓✓✓ = 3

No: ✓ = 1

- mainly yes, I would like to see local as 2.5m regionals as 3.0m (where applicable)
- (no response to yes/no) can you concrete or asphalt over main sewer line through parcel P and by the beaver dam upstream of campground – pathway from n.end of 2nd street nw to river very muddy
- (responded yes) I prefer all natural but understand the need for the even surfaces

6. Do you agree with the design details?

Yes: ✓✓✓✓✓ = 5

No: = 0

Additional Comments:

- very nice, simple, thanks for being sensitive to landowners.
- I love the town hall/library access and ramp, it's much needed
- Signage to include dog owners picking up after their dogs and even providing bags and/or gloves to help encourage same