

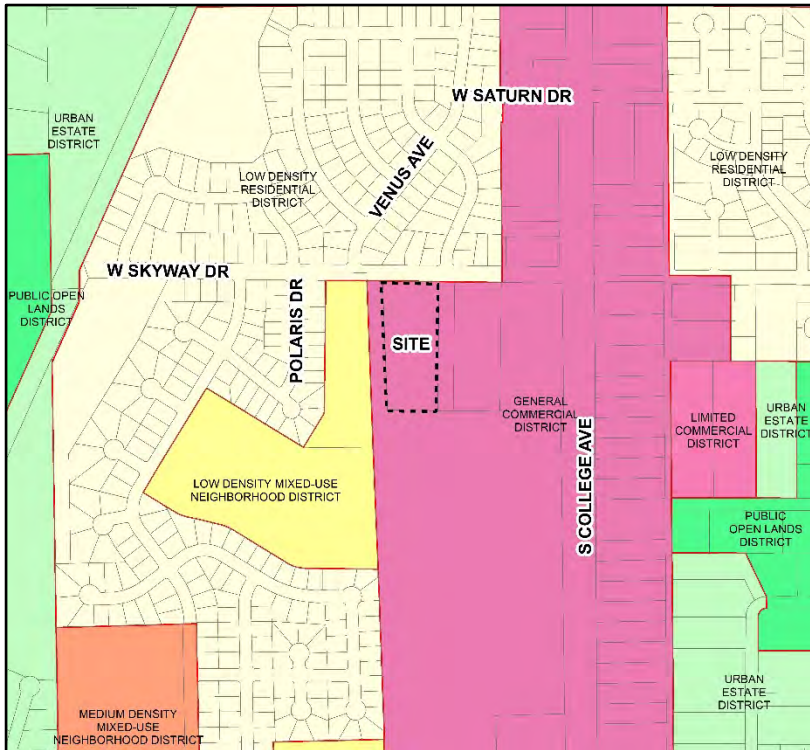
Planning & Zoning Commission Hearing: September 16, 2021

Mars Landing, Project Development Plan – PDP190013

Summary of Request

This is a request for a Project Development Plan (PDP) for the development of two, three-story multi-family buildings with 90 total dwelling units, with a total of 151 on-site parking spaces on 3.79 acres. Access will be taken from two points along Mars Drive. The property is within the General Commercial (CG) zone district and is subject to Planning and Zoning Commission (Type 2) Review.

Zoning Map (ctrl + click map to follow link)



Next Steps

If approved by the decision maker, the applicant will be eligible to submit a Final Development Plan. Subsequent rounds of review will be required to finalize site engineering and corrections to the plan before the applicant can apply for site and building permits.

Site Location

The site is located at the northwest corner of S College Avenue and Skyway Drive and adjacent to the Storage Star enclosed mini-Storage facility (parcel # 9611421001).

Zoning

General Commercial (C-G)

Property Owner

Goodwin Knight LLC
 c/o Mark Johnson
 8605 Explorer Drive, Ste 250
 Colorado Springs, CO 80920-1013

Applicant/Representative

Galloway and Company
 James Prelog, PE
 5265 Ronald Reagan Blvd., Ste 210
 Johnstown, CO 80534

Staff

Pete Wray, Senior City Planner

Contents

- 1. Project Introduction 2
- 2. Public Outreach 4
- 3. Article 2 – Applicable Standards 5
- 4. Article 3 - Applicable Standards..... 5
- 5. Article 4 – Applicable Standards:..... 20
- 6. Findings of Fact/Conclusion 21
- 7. Recommendation 21
- 8. Attachments 21
- 9. Links..... 21

Staff Recommendation

Approval of Project Development Plan with conditions.

1. Project Introduction

A. PROJECT DESCRIPTION

- This is a request to construct two, market rate, multi-family buildings containing 90 units. The unit breakdown consists of 58 1-bedroom, 24 2-bedroom, and 6 3-bedroom apartments.
- The property is rectangular in shape and is generally slopes to the south and east, with stormwater runoff draining into the southeast corner of the site.
- This site contains 8 significant trees which includes:
 - A major belt of Cottonwood trees (in fair to poor condition) that run diagonally north to south along the existing irrigation ditch
 - A few other trees including Willow and Russian Olive (in fair condition) are also located along the irrigation ditch on either side of property line
- The existing irrigation ditch is proposed to be relocated and piped underground. As a result, the existing trees will be removed based on condition and location. Of the 8 existing trees to be removed, the project is required to provide 9 upsized trees to be planted on site and within the buffer zone.
- Primary access to the site will be taken from two curb cuts on Mars Drive, connecting to a private drive, which bisects the site and runs north to south. This project proposes to demolish the temporary roundabout and extend Mars Drive south to the south property boundary to allow for the installation of the second drive-cut.
- The South College Corridor Plan includes a trail connection from Skyway Drive on the north to Trilby Road on the south, which runs parallel to S College Avenue. This future pedestrian/bike trail is located on the abutting vacant property to the west, with the PDP providing a path stub-out connection to this future trail alignment.
- On-site amenities include three separate central feature and gathering spaces with shade structure, seating, grill, and tables. A soft path is located adjacent to the northwest gathering space within the landscaped buffer and drainage area.
- Off-site improvements include streetscape landscaping along the south side of Skyway Drive and frontage of S. College Avenue.

B. SITE CHARACTERISTICS

1. Development Status/Background

The site is currently vacant land.

This site was annexed as part of the Timan First Annexation in 1988.

The overall property is divided into three lots including Lot 1 (Five-Star Storage site), and out lot B (fronting S. College Avenue), and out lot A (this proposed PDP site west of storage site).

2. Surrounding Zoning and Land Use

	North	South	East	West
Zoning	General Commercial (CG) and Low Density Residential (RL)	General Commercial	General Commercial	General Commercial
Land Use	Commercial and Residential	Vacant land	Five-Star Storage	Vacant land

C. OVERVIEW OF MAIN CONSIDERATIONS

The plan has gone through five rounds of review with extensive exploration of issues between rounds of review. Major issues that required clarification and refinement through the review process have included:

- Natural habitat buffer and enhanced landscaping at northwest portion of site.
- Realignment and underground piping of the existing irrigation ditch.
- Building model variety and architecture.
- Location and design of central feature and gathering spaces.
- Off-site streetscape landscaping on Skyway Drive and S College Avenue.
- Ensuring that the highly visible detention pond at the corner of Skyway Drive and Mars Drive provides adequate undulation and landscaping, and viable transition between PDP and existing neighborhood.

D. CITY PLAN (2019)

City Plan is the City’s comprehensive plan for land use, transportation, and transit. Several principles and policies are relevant to the evaluation of the current proposal. While the *South College Corridor Plan* is the primary guiding document for this area of the community, the proposal for development of this site also aligns well with the guidance contained in *City Plan*:

- *Policy LIV 4.1 - NEW NEIGHBORHOODS Encourage creativity in the design and construction of new neighborhoods that: Provides a unifying and interconnected framework of streets, sidewalks, walkway spines and other public spaces; and expands housing options, including higher density and mixed-use buildings.*
- *Policy LIV 4.2 - COMPATIBILITY OF ADJACENT DEVELOPMENT Ensure that development that occurs in adjacent districts complements and enhances the positive qualities of existing neighborhoods. Developments that share a property line and/or street frontage with an existing neighborhood should promote compatibility by: Continuing established block patterns and streets to improve access to services and amenities from the adjacent neighborhood; Incorporating context-sensitive buildings and site features (e.g., similar size, scale and materials); and Locating parking and service areas where impacts on existing neighborhoods—such as noise and traffic—will be minimized.*
- *Policy LIV 5.3 - LAND FOR RESIDENTIAL DEVELOPMENT Use density requirements to maximize the use of land for residential development to positively influence housing supply and expand housing choice.*

- *Principle ENV 8 – Create and maintain a safe, healthy, and resilient urban forest. The tree preservation and mitigation plan for this PDP align with guidance to protect existing trees and enhance the urban tree canopy with new tree plantings as development takes place.*

City Plan designates the site of the current PDP as a “Suburban Mixed-Use” place type on the Structure Plan Map. Mixed-use district provides opportunities for a range of retail and commercial services, office and employment, multifamily residential, civic, and other complementary uses in a compact, pedestrian and transit-supportive setting.

E. SOUTH COLLEGE CORRIDOR PLAN

In 2008, City Council adopted the South College Corridor Plan, which offers the following relevant policy guidance:

“Policy LU 2.3 - Residential Development. Encourage the development of additional residential uses to increase market support for neighborhood-serving retail uses.” (p 40)

“Policy LU 3.2 - Transit-Oriented Uses. Uses that enhance the transit station - including high-density housing, offices, employment centers, and neighborhood commercial uses - are preferred over other uses. Such transit supportive uses will be the focus of City incentives.” (p 41)

“Policy LU 3.3 - Convenient Access. Convenient multi-modal access will be provided from the PDP to South College and connecting transit. (p 41)

“Policy LU 3.4 - Building Character and Orientation. The character, massing, and orientation of multi-story buildings will play a critical role in defining this area. In general, fronting the edges of buildings at the sidewalk is encouraged to create a comfortable pedestrian environment. Providing interesting building details at a human scale also creates visual interest.” (p 41)

“Policy T 1.1 - Implementation of the Access Control Plan. Development projects and public highway improvement projects will implement the adopted ACP. Short-term and long-range improvements will balance the needs of pedestrians, cyclists, motorists, and businesses. Any ACP elements proposed for implementation will have meaningful involvement of the adjacent businesses and property owners.” (P. 42)

“Policy T 3.1 - South College Multi-Use Path. In addition to on street bicycle lanes, pedestrian and bicycle circulation will be enhanced by the project connecting to the future pedestrian trail between Skyway and Trilby. The PDP: will provide a n eight-foot detached, multi-use path paralleling South College (as identified in the US 287 Environmental Overview Study and the US 287/South College Avenue Bicycle Lane Project). This is a slight modification to the City’s standard Six-Lane Arterial Cross Section.” (p. 43)

The proposed development provides several elements that support the *South College Corridor Plan*, including higher density residential, an 8’ multi-use path along S College, stub out path connection to the future north/south multi-use trail, and compliance with the South College Access Control Plan.

2. Public Outreach

A. NEIGHBORHOOD MEETING

A neighborhood meeting was held on August 26, 2019. Approximately 25 members of the public were in attendance. A summary of the public comments received during the neighborhood meeting are attached.

B. PUBLIC COMMENTS:

Staff has not received any comments for this proposal. Any comments received between the public notice period and hearing will be forwarded to the P&Z Commission to be considered when making a decision on the project.

3. Article 2 – Applicable Standards

A. PROJECT DEVELOPMENT PLAN PROCEDURAL OVERVIEW

1. Preliminary Design Review – PDR190007

A preliminary design review meeting was held on July 31, 2019.

2. Neighborhood Meeting

Pursuant to *LUC Section 2.2.2 – Step 2: Neighborhood Meetings*, a neighborhood meeting is required for Planning and Zoning Commission (Type 2) projects. A neighborhood meeting was held for this project on August 26, 2019.

3. First Submittal – PDP190013

The first submittal of this project was completed on September 13, 2019. The PDP required 5 rounds of staff review.

4. Notice (Posted, Written and Published)

Posted Notice: September 12, 2019, Sign #510

Written Hearing Notice: September 2, 2021; 253 addresses mailed.

Published Hearing Notice: September 5, 2021

4. Article 3 - Applicable Standards

A. DIVISION 3.2 - SITE PLANNING AND DESIGN STANDARDS

Applicable Code Standard	Summary of Code Requirement and Analysis	Staff Findings
3.2.1 – Landscaping and Tree Protection	<p>The standards of this section require that a development plan demonstrate a comprehensive approach to landscaping that enhances the appearance and function of the neighborhood, buildings, and pedestrian environment. The proposed plan provides the following:</p> <ul style="list-style-type: none"> • The plan provides a comprehensive landscape plan that includes landscaping around the entire perimeter of each building. Special attention has been given to landscaping around ground mounted air condensers. • The plan offers a diverse palette of shrubs, grasses, and perennials in the following quantities: <ul style="list-style-type: none"> • 145 evergreen shrubs • 617 grasses • 65 perennials • 651 deciduous shrubs • Full tree stocking is provided within 50 feet of all high-use or high-visibility sides of the building. This includes 17 deciduous, 5 evergreen, and 24 ornamental trees for a total of 46 trees. • All proposed trees will be upsized to provide on-site mitigation for the 7 trees that are proposed to be removed. Mitigation proposes 2” canopy shade trees, 8-foot height (6’ min) for evergreen trees, and 2-inch caliper (2” min) for ornamental trees. In total, 9 mitigation trees are required and 9 are provided meeting the standard. • Trees meet maximum spacing requirements of 30-40 foot spacing for canopy shade trees and 20-40 foot spacing for evergreen or ornamental trees. • Species diversity limits do not exceed the 15% max of any one species. 	<p>Complies</p>

	<ul style="list-style-type: none"> The Plan provides a total of 122 trees on and off-site. Of that total, 61 are canopy shade trees, meeting the required minimum 50%. Planting beds that contain shrub and ground cover in appropriate quantities and in all areas of the site not covered by impervious asphalt, concrete, buildings, or structures. <p>Further refinement of quantities and species will be finalized at Final Development Plan.</p>	
3.2.1(E)(3) – Water Conservation	<p>Landscape plans are required to be designed in a way that employs water efficient techniques, such as using low water use plants, limiting high water-use turf to areas of high traffic, efficient irrigation design and use of mulch to conserve moisture. Landscape plans may not exceed an average of fifteen gallons per square foot of landscape.</p> <ul style="list-style-type: none"> The landscape plan demonstrates moderate (10 gallons/square feet/season) and low (3 gallons/square feet/season), and very low water zones. Combined, all landscape areas within the site are calculated to average 6 gallons per square foot, in compliance with the Maximum allowance of 15 gallons/square foot. 	Complies
3.2.1(F) – Tree Preservation and Mitigation	<p>This standard requires that developments provide on-site mitigation in the form of a defined number of replacement trees if existing significant trees are removed. The number of mitigation trees is determined by City Forestry staff based off existing tree species, breast diameter, and health/condition. Mitigation values can range between 1 and 6 for a tree that is removed. Dead, dying, and certain invasive species are exempt from this standard.</p> <p>There is a total of 7 existing trees on site proposed to be removed. A total of 9 upsized mitigation trees are provided in compliance with this standard.</p>	Complies
3.2.2 – Access, Circulation and Parking	<p>This standard requires that development projects accommodate the movement of vehicles, bicycles, pedestrians, and transit throughout the project and to and from surrounding areas safely and conveniently and contribute to the attractiveness of the neighborhood. In compliance, the PDP includes the following:</p> <ul style="list-style-type: none"> Detached street sidewalk system along both Mars Drive, Skyway Drive, and S College Ave. A central pedestrian spine provides a connection between Mars Drive and west edge of property, which then connects to the planned future multi-use trail that will provide pedestrian connectivity between Skyway and Trilby. A series of 5,6 and 8 foot walkways internal to the site. Curb cuts and ramps in safe and convenient locations throughout the site. 	Complies
3.2.2(C)(4) – Bicycle Parking Space Requirements	<p>Bicycle parking requirements for multifamily residential use are 1 space per bedroom. To meet the standards of this Section, the plan is required to provide 128 bicycle parking spaces (77 enclosed 60% and 51 fixed racks (40%).</p> <ul style="list-style-type: none"> The Plan proposes 90 units that combined, contain 128 bedrooms. The project proposes 128 spaces, including 32 on hanging racks under building eaves, or spaces inside detached garage spaces, and 96 fixed spaces on bike racks distributed throughout the site. <p>Staff is including a Condition of Approval No. 1 to be addressed at FDP to provide 60% covered bicycle spaces (77 spaces), and 40% fixed rack spaces (51 spaces).</p>	Complies with Condition
3.2.2(C)(5) (a, b) – Walkways and Street Crossing	<p>This standard requires that walkways within the site be located and aligned to connect areas or points of pedestrian origin or destination and where walkways cross a street or internal roadway, crossings must emphasize and place priority on the pedestrian through several mitigating elements such as pavement treatments, striping, signals, lighting, refuge areas and landscaping.</p> <p>The Plan provides walkways consistent with the standard of this section using decorative concrete, landscape bulb-outs and lighting.</p>	Complies

<p>3.2.2(C) (6,7) – Direct On/Off-Site Access to Pedestrian and Bicycle Destinations</p>	<p>These standards require that the on-site/off-site pedestrian and bicycle circulation system be designed to provide for direct connections to major pedestrian and bicycle destinations, including, trails, parks, schools, Neighborhood Centers, Neighborhood Commercial Districts, and transit stops that are located either within the development or adjacent to the development.</p> <p>The most notable pedestrian and bicycle destinations within the vicinity are along S College to the east. The Plan provides direct connections into the S College and existing Transit stop, with routes that connect to the South Transit Station. Further, the Plan provides several direct connections into the street sidewalk system that provide greater connectivity to the areas along Skyway and ultimately to Trilby by a future trail connection.</p>	<p>Complies</p>								
<p>3.2.2(C)(8) – Transportation Impact Study</p>	<p>The Transportation Impact Study finds that all level of service requirements for the City of Fort Collins are met.</p> <p>Traffic Engineering Staff has reviewed the report and in general the conclusions have been accepted.</p>	<p>Complies</p>								
<p>3.2.2(K)(1)(a)(1) – Parking</p>	<p>The following are parking requirements for multi-family projects.</p> <table border="1" data-bbox="375 764 1339 987"> <thead> <tr> <th>Number of Bedrooms/Dwelling Unit</th> <th>Parking Spaces Per Dwelling Unit*</th> </tr> </thead> <tbody> <tr> <td>One or less</td> <td>1.5</td> </tr> <tr> <td>Two</td> <td>1.75</td> </tr> <tr> <td>Three</td> <td>2.0</td> </tr> </tbody> </table> <p>Based on the bedroom and unit count, the project is required to provide 145 parking spaces. The plan provides the following total of 151 spaces exceeding compliance with the standards of this Section:</p> <ul style="list-style-type: none"> • 130 standard surface parking spaces • 8 accessible spaces • 13 garage spaces 	Number of Bedrooms/Dwelling Unit	Parking Spaces Per Dwelling Unit*	One or less	1.5	Two	1.75	Three	2.0	<p>Complies</p>
Number of Bedrooms/Dwelling Unit	Parking Spaces Per Dwelling Unit*									
One or less	1.5									
Two	1.75									
Three	2.0									
<p>3.2.2(K)(5) – Handicap Parking</p>	<p>Handicap-accessible spaces must have a stall width of 13 feet and be placed as close as possible to the nearest building entrance. Parking standards require a minimum amount of 8 handicap spaces based on the total spaces in the lot.</p> <p>The PDP complies with this standard by providing 6 accessible surface spaces located in convenient areas adjacent to entryways around the site, and 2 accessible parking garage spaces.</p>	<p>Complies</p>								
<p>3.2.2(L) – Parking Stall Dimensions</p>	<p>Land Use Code Section 3.2.2(L) details parking stall and drive-aisle requirements for parking lots. The parking provided in this PDP is designed primarily for residents and qualifies as a “long term” parking use as outlined in Section 3.2.2(L)(3).</p> <p>The proposed project meets the parking stall and drive-aisle dimensions required in the Land Use Code for all parking stalls and provides the following:</p> <ul style="list-style-type: none"> • 90°: 130, 9’x17’ spaces (8’x15’ min req) • The internal private street is 26 feet in width. (24 feet min req) 	<p>Complies</p>								
<p>3.2.2(M) – Landscaping</p>	<p>This section requires that ten (10) percent of the interior space of any parking lot with more than one hundred (100) spaces be devoted to landscaping.</p> <ul style="list-style-type: none"> • The PDP proposes interior parking lot landscaping more than the minimum standard of this section. 	<p>Complies</p>								

<p>3.2.4 – Site Lighting</p>	<p>This standard requires that exterior lighting not adversely affect the properties, neighborhood, or natural features adjacent to the development. Further, the standard requires exterior lighting to be examined in a way that considers the light source, level of illumination, hours of illumination and need.</p> <p>The PDP provides 24 light fixtures that provide lighting around building entryways, garages, sidewalks, parking, streets, and internal drives. Pole mounted luminaires are limited to 17'-6" feet in height. Lighting is used in all needed areas of the site and complies with the requirements of this section using fully shielded, down-directional, 3,000 Kelvin or less fixtures and do not exceed the lumen limit of 0.1 when measured 20 feet beyond the property boundary.</p> <p>The site is located within the LC Lighting Context Area. The proposed fixtures comply with backlight, up light and glare requirements based on the context area.</p>	<p>Complies</p>
<p>3.2.5 – Trash and Recycling Enclosures</p>	<p>The purpose of this standard is to ensure the provision of areas, compatible with surrounding land uses, for the collection, separation, storage, loading and pickup of trash, waste cooking oil, compostable and recyclable materials.</p> <p>The PDP proposes two trash enclosures distributed adjacent to the two buildings on site. Each enclosure contains an equal distribution of trash and recycling capacity. Enclosures are constructed of cedar fence and posts, separate pedestrian entrance, and main steel gates and posts. Colors are neutral and match the overall theme of the development.</p> <p>Staff is including a Condition of Approval No. 2 - to ensure the enclosures are screened with a more durable material in place of cedar fencing such as textured concrete block, CMU blocks, or all metal fencing. This will include interior curbing or metal strips to buffer dumpster bins from hitting walls.</p>	<p>Complies with Condition</p>

B. 3.3 ENGINEERING STANDARDS

Applicable Code Standard	Summary of Code Requirement and Analysis	Staff Findings
<p>3.3.1(C) – Public Sites, Reservations and Dedications</p>	<p>This standard requires the applicant to dedicate rights-of-way for public streets, drainage easements and utility easements as needed to serve the area being developed. In cases where any part of an existing street is abutting or within the property being developed, the applicant must dedicate such additional rights-of-way to meet the minimum width required by Larimer County Urban Area Street Standards and the City of Fort Collins Land Use Code. The PDP complies with this standard by:</p> <ul style="list-style-type: none"> • The College Ave., Skyway and Mars Drive ROW and utility easements were all dedicated with the South College Storage plat. • The onsite easements being dedicated include emergency access, pedestrian access, and utility. There are also temporary slope easements to be dedicated by the adjacent property owner on the south side for grading to tie into existing. 	<p>Complies</p>

C. 3.4 ENVIRONMENTAL, NATURAL AREA, RECREATIONAL AND CULTURAL RESOURCE PROTECTION STANDARDS

The purpose of this Section is to ensure that when property is developed consistent with its zoning designation, the way in which the proposed physical elements of the development plan are designed and arranged on the site will protect the natural habitats and features and historic resources both on the site and in the vicinity of the site.

Applicable Code Standard	Summary of Code Requirement and Analysis	Staff Findings
<p>3.4.1 – Natural Habitats</p>	<p>The General Standard requires, to the maximum extent feasible, the development plan be designed and arranged to be compatible with and to protect natural habitats and features and the plants and animals that inhabit them and integrate them within the developed landscape of the community by: (1) directing development away from sensitive resources; (2) minimizing impacts and disturbance through the use of buffer zones; (3) enhancing existing conditions; or (4) restoring or replacing the resource value lost to the community when a development will result in the disturbance of natural habitats or features.</p> <p>b. Section 3.4.1(E)(1) (a-i) Buffer Zone Performance Standards allow the decision maker [Planning and Zoning Board] to determine buffer zones that may be multiple and noncontiguous. The general buffer zone distance for each natural habitat or feature is established in the quantitative buffer zone table, but the Planning and Zoning Board may reduce or enlarge any portion of the general buffer zone distance to ensure qualitative performance standards are achieved.</p> <p>Background: The Ecological Characterization Study (ECS) was completed by Wildlife Specialties, LLC in December 2019, and was later updated in October 2020. The report highlights several resources on and near the property that warrant protection or mitigation, including: the Loudon Ditch, a 3.5 acre prairie dog colony, and an active Red-tailed hawk nest located 450-feet east of the project site. Other than these features, the site is dominated by non-native grasses (smooth brome and crested wheatgrass), non-native trees (Russian olive, Chinese elm) and invasive weeds (cheatgrass, bindweed, and leafy spurge).</p> <p>Development Proposal:</p> <p>In 2018 the property owner piped the ditch and City staff required the trench to remain as a wildlife movement corridor. The resulting buffer zone for the ditch amounts to 1.5 acres of low-quality uplands, and .014 ac of low-quality fringe wetlands along the ditch embankments.</p> <p>The Mars Landing development proposes to fill the ditch trench and prairie dog colony. Proposed onsite mitigation will create .85 ac of restored uplands and .043 ac of wetlands. The condition of the buffer will be higher in quality than what exists today through enhanced native plantings and weed mitigation. The buffer zone is located on the western and northern sides of the site and connects to the buffer zone on the adjacent property to the west. This will allow for the continuance and enhancement of the existing wildlife movement corridor. Because the onsite uplands mitigation will not amount to a 1:1 mitigation value, the development will make a payment to the City Natural Areas Department for one acre of uplands restoration.</p> <p>The prairie dog colony will be mitigated by trapping and donating the animals to the raptor center. To do this, the applicant will have to obtain a permit from Colorado Parks & Wildlife and provide detailed day-by-day timeline of trapping activities to the City Environmental Planner for review and approval. A final report will be submitted to the City Environmental Planner after trap and donate activities have been completed.</p> <p>The Red-tailed Hawk nest is located approximately 450-feet away from the development site. LUC 3.4.1 requires that Red-tailed Hawk nests be protected by a 450-foot buffer during nesting season on the first year of a multi-year construction project. Because the buffer overlaps the property boundary, work performed within this buffer must occur outside the nesting season on the first year of construction.</p>	<p>Complies</p>

Performance Standards: The applicant proposes meeting LUC 3.4.1 (E) natural habitat buffer zone performance standards, which are as follows:

- (a) *The project shall be designed to preserve or enhance the ecological character or function and wildlife use of the natural habitat or feature and to minimize or adequately mitigate the foreseeable impacts of development.*

The existing site contains a total of .014 ac of low-quality wetlands and 1.5 ac of low-quality uplands. The development proposes the creation of .043 ac wetlands and .85 ac of uplands. The resultant buffer zone on site will be of higher quality than what exists today through weed mitigation, species, and structural diversity. Enhanced plantings have been located near the parking area to mitigate noise and light from cars. Lighting has been designed so that no light spills into the buffer zone.

- (b) *The project, including, by way of example and not by way of limitation, its fencing, pedestrian/bicycle paths and roadways, shall be designed to preserve or enhance the existence of wildlife movement corridors between natural habitats and features, both within and adjacent to the site.*

The wildlife movement corridor will be retained along the western side of the site and connects to a buffer immediately west of the property.

- (c) *The project shall be designed to preserve existing trees and vegetation that contribute to the site's ecological, shade, canopy, aesthetic, habitat, and cooling value. Notwithstanding the requirements of Section 3.2.1(F), all trees and vegetation within the Limits of Development must be preserved or, if necessary, mitigated based on the values established by the Ecological Characterization Study or the City Environmental Planner. Such mitigation, if necessary, shall include trees, shrubs, grasses, or any combination thereof, and must be planted within the buffer zone.*

Existing vegetation is predominantly weedy and invasive therefore wetlands and uplands will be restored. Restoration will include a combination of shrubs and trees for improved structural and species diversity and the understory will be replaced with native seed.

- (d) *The project shall be designed to protect from adverse impact to species utilizing special habitat features such as key raptor habitat features, including nest sites, night roosts and key feeding areas as identified by the Colorado Parks and Wildlife Division ("CPW") or the Fort Collins Natural Areas Department ("NAD"); key production areas, wintering areas and migratory feeding areas for waterfowl; heron rookeries; key use areas for wading birds and shorebirds; key use areas for migrant songbirds; key nesting areas for grassland birds; fox and coyote dens; mule deer winter concentration areas as identified by the CPW or NAD; prairie dog colonies one (1) acre or greater in size; key areas for rare, migrant or resident butterflies as identified by the NAD; areas of high terrestrial or aquatic insect diversity as identified by the NAD; remnant native prairie habitat; mixed foothill shrubland; foothill ponderosa pine forest; plains cottonwood riparian woodlands; and wetlands of any size.*

The Red-tailed Hawk nest will be protected per LUC 3.4.1 standards. Prairie dogs will be trapped and donated to the raptor center, which provides a higher conservation approach than euthanizing the animals.

- (e) *The project shall be designed so that the character of the proposed development in terms of use, density, traffic generation, quality of runoff water, noise, lighting, and similar potential development impacts shall minimize the degradation of the ecological character or wildlife use of the affected natural habitats or features.*

The project went through several design iterations to mitigate impacts. For example, detached garage buildings were relocated to the south and the gathering area was relocated to the east to expand the buffer zone and reduce noise and lighting impacts. Additional plantings have been placed around the parking lot for screening from traffic, lighting, and noise.

	<p>(f) <i>The project shall be designed to integrate with and otherwise preserve existing site topography, including, but not limited to, such characteristics as steepness of slopes, existing drainage features, rock outcroppings, river and stream terraces, valley walls, ridgelines and scenic topographic features.</i></p> <p>The Loudon Ditch trench will be filled which will impact the character of the site. However, the site would be rendered undevelopable if the trench remains as the ditch diagonally bisects the site.</p> <p>(g) <i>The project shall be designed to enhance the natural ecological characteristics of the site. If existing landscaping within the buffer zone is determined by the decision maker to be incompatible with the purposes of the buffer zone, then the applicant shall undertake restoration and mitigation measures such as regrading and/or the replanting of native vegetation.</i></p> <p>All buffers will be restored to native vegetation. Additionally, weed mitigation and enhancement plantings will be incorporated to improve the natural ecological characteristics of the site.</p> <p>(h) <i>The project may be designed to provide appropriate human access to natural habitats and features and their associated buffer zones to serve recreation purposes, provided that such access is compatible with the ecological character or wildlife use of the natural habitat or feature.</i></p> <p>A pedestrian connection is proposed through the western side of the site that connects to a future regional trail. This connection will not compromise the buffer zone serving as a wildlife corridor and provides appropriate human access to nature.</p> <p>(i) <i>Fencing associated with the project shall be designed to be compatible with the ecological character and wildlife use of the natural habitat or feature.</i></p> <p>No fencing is being proposed in the buffer zone.</p> <p>Summary: The onsite mitigation results in the creation of .85 ac uplands and .043 ac of wetlands. Because the onsite mitigation will not amount to a 1:1 mitigation value, the development will make a payment to the City Natural Areas Department for one acre of uplands restoration. In addition, the applicant is trapping and donating existing prairie dogs on site.</p> <p>A native seed mix, weed mitigation, and additional native plantings throughout other areas of the site will further enhance the ecological character and habitat value of the site.</p>	
<p>3.4.3 – Water Quality</p>	<p>The Project is required to mitigate precipitation runoff flowing from the site is treated in accordance with the criteria set forth in the <i>Stormwater Criteria Manual</i>.</p> <ul style="list-style-type: none"> The Mars Landing development is meeting all City of Fort Collins Stormwater requirements. They are proposing quantity detention per City Criteria, extended detention, and underground storage (StormTech chambers) for water quality and LID respectively. The site outfalls to the east through a swale that was planned for with the “South College storage” development. All offsite easements were obtained previously, and no additional offsite easements are required with this development. 	<p>Complies</p>
<p>3.4.7 – Historic and Cultural Resources</p>	<p>This standard is intended to ensure that development is compatible with and protects historic resources and that the design of new structures is compatible with and protects the integrity of historic resources located within the area of adjacency.</p> <p>According to the requirements in 3.4.7(B), there are no historic resources within 200 feet of the subject site, therefore, Section 3.4.7 is not applicable to this project.</p>	<p>N/A</p>
<p>3.4.8 – Parks and Trails</p>	<p>This standard requires compliance of development plans with the Parks and Recreation Policy Plan to ensure that the community will have a fair and equitable system of parks, trail and recreation facilities as the community grows.</p> <p>The plan proposes a direct connection to the future multi-use trail rail that will connect between Skyway and Trilby.</p>	<p>Complies</p>

D. 3.5 BUILDING STANDARDS

The purpose of this Section is to ensure that the physical and operational characteristics of proposed buildings and uses are compatible when considered within the context of the surrounding area.

Applicable Code Standard	Summary of Code Requirement and Analysis	Staff Findings
<p>3.5.1(A) and (B) – Building Project and Compatibility, Purpose and General Standard</p>	<p>This section is designed to ensure compatibility of new buildings with the surrounding context. Absent any established character, the standard requires that new buildings set an enhanced standard of quality for future projects or redevelopment in the area.</p> <p><i>Compatibility shall mean the characteristics of different uses or activities or design which allow them to be located near or adjacent to each other in harmony. Some elements affecting compatibility include height, scale, mass, and bulk of structures. Other characteristics include pedestrian or vehicular traffic, circulation, access, and parking impacts. Other important characteristics that affect compatibility are landscaping, lighting, noise, odor, and architecture. Compatibility does not mean "the same as." Rather, compatibility refers to the sensitivity of development proposals in maintaining the character of existing development.</i></p> <p>The character of the surrounding architectural context can be described as follows:</p> <p>The area adjacent to the south is future vacant commercial land.</p> <p>To the north, the existing established Skyview neighborhood includes single-family detached homes. The existing homes are a combination of single-story and two-story building heights.</p> <p>To the west is the future vacant land and existing residential homes.</p> <p>To the east is the existing three-story Five-Star enclosed mini-storage commercial building. This building features masonry, metal siding, and stucco wall materials, and pitched metal roof treatments.</p> <p>In conformance with the General Standard of this section, the architectural character of the area is established with the existing residential neighborhood and newly constructed enclosed storage building across Mars Drive to the east. Therefore, in terms of the General Standard, the project is required to reflect and be compatible with the established character of the area.</p> <ul style="list-style-type: none"> • The proposed building architecture reflects similar residential design elements and compatible with the adjacent commercial building design. • A generous landscape area is located behind the Skyway ROW, providing sufficient landscape buffer and transition between the north multi-family building and existing neighborhood across Skyway Drive. 	<p>Complies</p>
<p>3.5.1 (C)– Building Size, Height, Bulk, Mass, Scale</p>	<p>Buildings shall either be similar in size and height, or, if larger, be articulated and subdivided into massing that is proportional to the mass and scale of other structures, if any, on the same block face, abutting or adjacent to the subject property, opposing block face or cater-corner block face at the nearest intersection.</p> <ul style="list-style-type: none"> • Articulation of accent details, recesses and projections are used consistently throughout all faces of the two respective building designs. These elements help subdivide the massing and create appropriate proportions compatible with the design in the surrounding area. The north building that fronts Skyway includes a two-story height reduction and step back, consistent with the one and two story homes in the adjacent Skyview neighborhood. • The proposed 42 unit building is 38'-4" in height, and the 48 unit building is 39'-6" in height, less than the 40 foot height requirement for additional analysis. 	<p>Complies</p>

<p>3.5.1 (E)– Building Materials</p>	<p>This section addresses building materials, glare, and windows. Building materials shall either be similar to the materials already being used in the neighborhood or, if dissimilar materials are being proposed, other characteristics such as scale and proportions, form, architectural detailing, color, and texture, shall be utilized to ensure that enough similarity exists for the building to be compatible, despite the differences in materials.</p> <ul style="list-style-type: none"> Exterior materials consist of, hardboard lap siding, stone veneer, architectural grade metal panels, stucco, vinyl windows and standing seam metal roofing. These elements combined are similar to the adjacent storage building and reflect similar materials and design features with the existing homes to the north. 	<p>Complies</p>
<p>3.5.1 (F)– Building Color</p>	<p>Color shades shall be used to facilitate blending into the neighborhood and unifying the development. The color shades of building materials shall draw from the range of color shades that already exist on the block or in the adjacent neighborhood.</p> <ul style="list-style-type: none"> The adjacent commercial building and existing residential homes consist of a range of light and dark earth tone colors. The proposed two buildings include a range of tan, brown, blue, and grey colors, consistent with the established pattern in the area. 	<p>Complies</p>
<p>3.5.2(D) – Relationship of Dwellings to Streets and Parking</p>	<p>This section requires that every front facade with a primary entrance to a dwelling unit face a connecting walkway with no primary entrance more than two hundred (200) feet from a street sidewalk. A primary entrance may be up to three hundred fifty (350) feet from a street sidewalk if the primary entrance faces and opens directly onto a connecting walkway that qualifies as a major walkway spine.</p> <ul style="list-style-type: none"> The two multi-family buildings face Mars Drive to the east and include primary entrances and side entrances that connect directly to the public sidewalk. The west façade of the buildings includes two primary entrances that connect to the private street and parking areas. 	<p>Complies</p>
<p>3.5.2(G)(1)(a, b) – Perimeter Garages</p>	<p>To add visual interest and avoid the effect of a long blank wall with no relation to human size, accessibility needs or internal divisions within the building, this section sets standards for minimum wall articulation along rear walls of multifamily garages.</p> <p>This standard applies to the garages located along the west property line. The area contains three 5-space garages. The plan provides the following in compliance with the standard:</p> <ul style="list-style-type: none"> No garage exceeds the maximum length of 60 feet. Garages are separated by generous landscaping and pedestrian path, that break up an otherwise continuous row of garage walls and that meets the intent of the standard. Each garage design provides articulation through changes in siding materials, colors, and roof planes. 	<p>Complies</p>
<p>3.5.2(G)(2)(a) – All Garages</p>	<p>Rear doorways shall be provided as determined by the decision maker to be reasonably necessary to allow direct access to living units without requiring people to walk around the garage to access their living units.</p> <ul style="list-style-type: none"> No buildings are located behind the proposed three detached garages. Each garage includes an automatic door opening for vehicle access. 	<p>NA</p>

E. 3.6 TRANSPORTATION AND CIRCULATION

Applicable Code Standard	Summary of Code Requirement and Analysis	Staff Findings
3.6.1(D) – Compliance with Access Control Plans	<p>The transportation network of any proposed development shall be in conformance with the City of Fort Collins Master Street Plan, as well as City adopted access control plans and the Larimer County Urban Area Street</p> <p>This plan provides compliance with the City's Master Street Plan and dedicates the necessary ROW for the future 6-lane arterial cross section of S College Avenue. The plan also complies South College Avenue (US 287) Access Control Plan by proposing access from Skyway Drive and future extension of Mars Drive to the south to Trilby as development occurs.</p>	Complies
3.6.2(M) – Private Streets	<p>Private streets shall be allowed in a development, provided that their function will be primarily to provide access to property within the development. Private streets shall not be permitted if (by plan or circumstance) such streets would, in the judgment of the City Engineer, attract "through traffic" in such volumes as to render public streets necessary as connections between developments, neighborhoods or other origins and destinations outside of the development plan.</p> <p>All drives within the development are private and will only serve the multi-family development. Maintenance of the internal circulation system will be the responsibility of the owner and are designed in a way that promotes the health safety and welfare of the city. The private drives include 13 ft travel lanes; perpendicular parking, attached sidewalks and tree islands.</p>	Complies
3.6.3 – Street Pattern and Connectivity	<p>This standard states: <i>"The local street system of any proposed development shall be designed to be safe, efficient, convenient and attractive, considering use by all modes of transportation that will use the system, (including, without limitation, cars, trucks, buses, bicycles, pedestrians and emergency vehicles). The local street system shall provide multiple direct connections to and between local destinations such as parks, schools, and shopping. Local streets must provide for both intra- and inter-neighborhood connections to knit developments together, rather than forming barriers between them. The street configuration within each parcel must contribute to the street system of the neighborhood."</i></p> <p>The project fronts the extension of Mars Drive that will extend to the south based on future development. The site also fronts Skyway Drive as it connects east/west to S College. This configuration allows for future neighborhood connectivity for vehicles and bicycles and sidewalks for pedestrians.</p>	Complies

<p>3.6.4 – Transportation Level of Service Requirements</p>	<p>A Traffic Memo was required with the submittal of this project and is attached. The memo has been reviewed by the city. The study evaluates the potential impacts to the transportation system in the surrounding areas of the proposed development.</p> <p>The information provided in the Traffic Memo demonstrated that all the project access point and adjacent intersections will continue to operate at an acceptable level of service for in the AM and PM peak hours. The anticipated traffic/trips that will be generated by this site are not expected to have significant impacts on the level of service, or delay that would cause these intersections to no longer meet the requirements outline in the Larimer County Urban Area Street Standards.</p> <p>The Traffic Memo also included an extensive evaluation of the College and Skyway intersection for the eastbound movement. This was based on concerns with the operation of this signal from neighborhood input. With certain limitations in the ability to expand this intersection, this evaluation concluded that the geometric modifications to the striping will help improve the operation and reduce the delay for the eastbound traffic. These changes will be implemented according to the plans.</p> <p>The general conclusions of the Traffic Memo have been accepted by the city along with the proposed striping changes that will be implemented as improvements to the College and Skyway intersection.</p>	<p>Complies</p>
<p>3.6.6 – Emergency Access</p>	<p>This standard states, " all developments shall provide adequate access for emergency vehicles and for those persons rendering fire protection and emergency services by complying with Article 9, Fire Department Access and Water Supply, of the Uniform Fire Code as adopted and amended pursuant to Chapter 9 of the City Code. All emergency access ways, easements, rights-of-way or other rights required to be granted pursuant to the Uniform Fire Code must include not only access rights for fire protection purposes, but also for all other emergency services."</p> <p>The project has been reviewed by Poudre Fire Authority (PFA) and is found to meet aerial access, water supply, and general access requirements.</p>	<p>Complies</p>

F. 3.7 COMPACT URBAN GROWTH

Applicable Code Standard	Summary of Code Requirement and Analysis	Staff Findings
<p>3.7.3 – Adequate Public Facilities</p>	<p>This section requires that any approval of a development is conditioned on the provision of all services necessary to serve the new development. This includes transportation, water, wastewater, storm drainage, fire and emergency services, electrical power and any other public facilities and services as required.</p> <ul style="list-style-type: none"> • The project is served by the Fort Collins Loveland Water District and South Fort Collins Sanitation District, Fort Collins Light and Power, and the Poudre Fire Authority. Each party has commented on the project and have demonstrated existing infrastructure capable of serving the proposed project at the developer's expense. • The project meets several goals of this section by improving air quality by reducing vehicle miles traveled and by encouraging mass transit and alternatives to the private automobile, making possible the efficient use of existing infrastructure and cost-effective extensions of new services: and encouraging infill development and reinvestment in built-up areas of the city. 	<p>Complies</p>

G. 3.8.30 MULTI-FAMILY AND SINGLE-FAMILY ATTACHED DWELLING DEVELOPMENT STANDARDS

The standards in this section apply to all multi-family developments that contain at least four (4) dwelling units and single-family attached developments that contain at least four (4) dwelling units where there is no reasonably sufficient area for outdoor activities and useable outdoor space on an individual per lot basis. This section is intended to promote variety in building form and product, visual interest, access to parks, pedestrian-oriented streets, and compatibility with surrounding neighborhoods.

Applicable Code Standard	Summary of Code Requirement and Analysis	Staff Findings
3.8.30(B) – Multi-Family Mix of Housing Types	<p>A complete range of the permitted housing types is encouraged in a neighborhood and within any individual development plan, to the extent reasonably feasible, depending on the size of the parcel.</p> <p>This standard does not apply because the PDP is contained within a 3-acre parcel.</p>	N/A
3.8.30(C) – Access to a Park, Central Feature or Gather Place	<p>For multi-family projects containing 2 or more acres, the buildings must be located within 1,320 feet (¼ mile) of either a neighborhood park, a privately owned park or a central feature or gathering place that is located either within the project or within adjacent development. The distance must be measured along street frontage without crossing an arterial street.</p> <ul style="list-style-type: none"> • The PDP provides three separate central feature and gathering spaces on site. • Two of the gathering spaces are located along the frontage of Mars Drive adjacent to the buildings and includes tables, seating, and shelter amenities • The larger west gathering space is located on edge of the buffer area and detention pond. This space includes a covered shelter, tables and seating and soft path that connects to Skyway sidewalk. 	Complies
3.8.30(D) – Block Requirements	<p>This standard requires multi-family projects to establish a block structure that creates no greater than a 7-acre block bound by streets on all four sides. This standard allows for exceptions to this rule and allows for irrigation ditches, high-voltage power lines, and other substantial physical features to form up to two sides of a block.</p> <ul style="list-style-type: none"> • The plan area is 3.79 acres in size, so this block requirement is not applicable. 	NA
3.8.30(E) – Buildings	<p>This standard requires that for all applicable buildings, the minimum required setbacks are:</p> <ul style="list-style-type: none"> • Arterial Street (S College) 15 feet • Non-Arterial Street (Fairway Lane and Fossil Blvd) 9 feet. <p>The project complies with all required setbacks by providing a 15 foot setback for the two buildings fronting Mars Drive.</p>	Complies

3.8.30(F)(2) – Variation Among Buildings

The standard states, “For any such development containing more than five (5) buildings (excluding clubhouses/leasing offices), there shall be at least three (3) distinctly different building designs. For all developments, there shall be no similar buildings placed next to each other along a street, street-like private drive or major walkway spine. Building designs shall be considered similar unless they vary significantly in footprint size and shape. Building designs shall be further distinguished by including unique architectural elevations and unique entrance features within a coordinated overall theme of roof forms, massing proportions and other characteristics. Such variation among buildings shall not consist solely of different combinations of the same building features.

The plan provides the following:

- Two distinctly different designs.
- No similar building placed next to one another along a street.
- Variation among building types includes size of footprint and shape, wall articulation, building materials, finishes and colors, window treatments and roof form.

South Building – 42 Unit



Complies

	<p>North Building – 48 Unit</p> <p>1 NORTH ELEVATION 1/8" = 1'-0"</p> <p>2 NORTH - EAST BUILDING PERSPECTIVE</p> <p>4 EAST ELEVATION 1/8" = 1'-0"</p> <p>5 WEST ELEVATION 1/8" = 1'-0"</p>	
<p>3.8.30(F)(3) – Variation of Color</p>	<p>The standard states, “each multi-family building shall feature a palette of muted colors, earth tone colors, natural colors found in surrounding landscape or colors consistent with the adjacent neighborhood. For all developments, there shall be no more than two (2) similarly colored structures placed next to each other along a street or major walkway spine.”</p> <ul style="list-style-type: none"> The PDP complies with the standard by placing no two similarly colored structures next to one another and by providing the following two color schemes: <p>Color Scheme 1 – South 42 Unit Building Color shades of tan, grey, brown and forest green (see above elevations for colors).</p> <p>Color Scheme 2 – North 48 Unit Building Color shades of tan, brown, dark teal blue and grey (see above elevations for colors).</p>	<p>Complies</p>
<p>3.8.30(F)(4) – Entrances</p>	<p>The standard states, “entrances shall be made clearly visible from the streets and public areas through the use of architectural elements and landscaping.”</p> <ul style="list-style-type: none"> The plan provides three main entrance points for each building. Main entrances are clearly visible from the street using architectural brackets, canopy overhangs, wall projections, large planters, and landscaping around each respective entrance. 	<p>Complies</p>

<p>3.8.30(F)(5) – Roofs</p>	<p>The standard states, “Roof lines may be either sloped, flat or curved, but must include at least two (2) of the following elements:</p> <ul style="list-style-type: none"> a) The primary roof line shall be articulated through a variation or terracing in height, detailing and/or change in massing. b) Secondary roofs shall transition over entrances, porches, garages, dormers, towers, or other architectural projections. c) Offsets in roof planes shall be a minimum of two (2) feet in the vertical plane. d) Termination at the top of flat roof parapets shall be articulated by design details and/or changes in materials and color. e) Rooftop equipment shall be hidden from view by incorporating equipment screens of compatible design and materials.” <ul style="list-style-type: none"> • The PDP complies with this standard by providing articulation of roof forms through a variation in height, variation in detailing using brackets, and changes in massing that match the projecting and recessing footprint of the building. 	<p>Complies</p>
<p>3.8.30(F)(6) – Facades and Walls</p>	<p>The standard states, “Each multi-family dwelling shall be articulated with projections, recesses, covered doorways, balconies, covered box or bay windows and/or other similar features, dividing large facades and walls into human-scaled proportions similar to the adjacent single- or two-family dwellings, and shall not have repetitive, undifferentiated wall planes. Building facades shall be articulated with horizontal and/or vertical elements that break up blank walls of forty (40) feet or longer. Facade articulation may be accomplished by offsetting the floor plan, recessing or projection of design elements, change in materials and/or change in contrasting colors. Projections shall fall within setback requirements.”</p> <ul style="list-style-type: none"> • The PDP complies with this standard by providing projections and recesses along the façade every 12-22 foot intervals that are often paired with changes in the application of both material (manufactured stone, vertical lap siding, horizontal lap siding, board, and batten), and colors. 	<p>Complies</p>
<p>3.8.30 – Colors and Materials</p>	<p>Colors of non-masonry materials shall be varied from structure to structure to differentiate between buildings and provide variety and individuality. Colors and materials shall be integrated to visually reduce the scale of the buildings by contrasting trim, by contrasting shades or by distinguishing one (1) section or architectural element from another. Bright colors, if used, shall be reserved for accent and trim.</p> <ul style="list-style-type: none"> • An alternating color and material scheme is applied to vertical modules of the two buildings. Vertical and horizontal color schemes are divided by individual wall panels or design features. Use of color and material combine to create a reduced sense of scale and visual interest for the project. 	<p>Complies</p>

5. Article 4 – Applicable Standards:

A. DIVISION 4.21 – GENERAL COMMERCIAL DISTRICT (C-G)

The General Commercial District is intended to be a setting for development, redevelopment, and infill of a wide range of community and regional retail uses, offices, and personal and business services. Secondly, it can accommodate a wide range of other uses including creative forms of housing.

While some General Commercial District areas may continue to meet the need for auto-related and other auto-oriented uses, it is the City's intent that the General Commercial District emphasize safe and convenient personal mobility in many forms, with planning and design that accommodates pedestrians.

Applicable Code Standard	Summary of Code Requirement and Analysis	Staff Findings
4.21(B) – Permitted Uses	<p>Any residential use consisting in whole or in part of multi-family dwellings that contain more than fifty (50) dwelling units, or more than seventy-five (75) bedrooms is a permitted use subject to Type 2 (Planning and Zoning Commission) review.</p> <ul style="list-style-type: none"> The PDP includes 90 dwelling units and 128 bedrooms. 	Complies
4.21(D) – Land Use Standards	<p>This standard limit the maximum building height to four stories.</p> <ul style="list-style-type: none"> The PDP proposes two, three-story multi-family buildings. 	Complies
4.21(E)(2) (a, b) – Site Design	<p>This standard requires pedestrian-oriented outdoor spaces shall be placed next to activity areas that generate the users (such as street corners, shops, stores, offices, day care and dwellings). Because liveliness created by the presence of people is the main key to the attractiveness of such spaces, to the maximum extent feasible, the development shall link outdoor spaces to and make them visible from streets and sidewalks. Sculpture, kiosks, or shelters are encouraged to be prominently placed in outdoor spaces.</p> <ul style="list-style-type: none"> The project provides compliance with this standard using a central walkway corridor that connects Mars Drive to the future multi-use trail west of property. The two multi-family buildings include a central outdoor gathering space between the buildings and public sidewalk on Mars Drive. These spaces include landscaping, tables, and seating amenities. At the northwestern boundary of the site the plan includes a larger gathering space and connection to the landscape detention area and Skyway Drive by a soft path. This outdoor space combines a covered shelter, tables, seating, and BBQ amenities. 	Complies

6. Findings of Fact/Conclusion

In evaluating the request for the Mars Landing Project Development Plan, PDP190013, Staff makes the following findings of fact:

1. The Project Development Plan complies with the policy direction of *City Plan* and the *S College Corridor Plan*.
2. The Project Development Plan complies with the applicable procedural and administrative requirements of Article 2 of the Land Use Code.
3. The Project Development Plan complies with relevant standards located in Article 3 – General Development Standards, with conditions of approval.
4. Staff recommends a Condition of Approval (1) regarding compliance with 3.2.2 (C) (4) – Bicycle Facilities, addressed at FDP, **to provide 60% covered bicycle spaces (77 spaces), and 40% fixed rack spaces (51 spaces)**.
5. Staff recommends a Condition of Approval (2) regarding compliance with 3.2.5 – Trash and Recycling Enclosure Wall Materials, addressed at FDP, **to ensure the enclosures are screened with a more durable material in place of cedar fencing such as textured concrete block, CMU blocks, or all metal fencing. This will include interior curbing or metal strips to buffer dumpster bins from hitting walls.**
6. The Project Development Plan complies with relevant standards located in Division 4.21 General Commercial of Article 4 – Districts.

7. Recommendation

Staff recommends approval of the Mars Landing Project Development Plan, PDP190013, based on the aforementioned Findings of Fact.

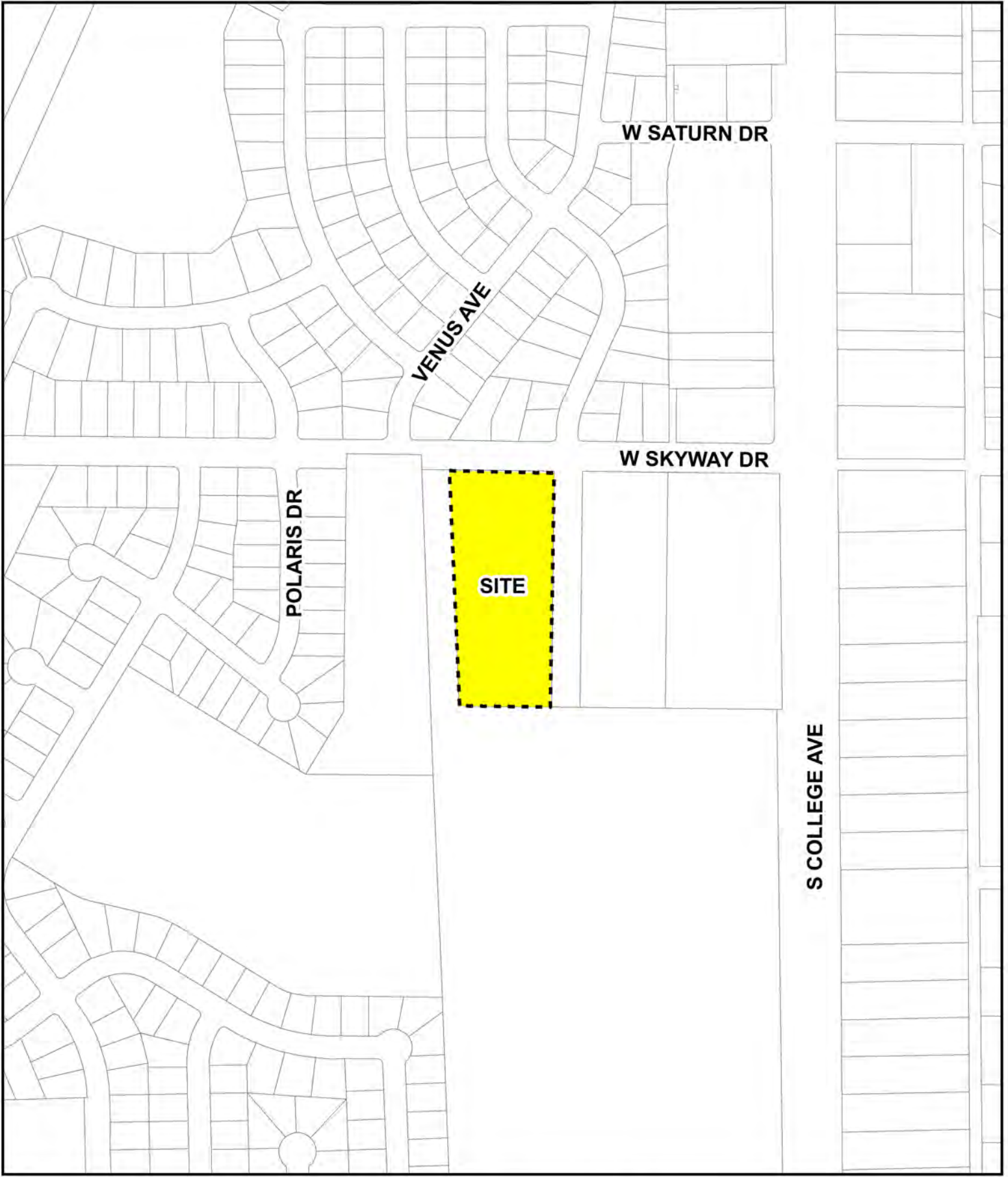
8. Attachments

1. Vicinity Map
2. Project Narrative
3. Planning Set: Project Site, Landscape, Lighting, and Building Elevations
4. Utility Plan
5. Plat
6. Neighborhood Meeting Summary
7. Updated Traffic Memo (10-30-20)
8. Updated Ecological Characterization Study (10-23-20)
9. Staff Presentation

9. Links

The documents available at the following links provide additional information regarding the development proposal under review and are incorporated by reference into the hearing record for this item:

1. [Drainage Report](#)
2. [TIS Report](#)
3. [ECS Report](#)
4. [Loudon Ditch Response](#)
5. [Staff Comments R1](#)
6. [Staff Comments R2](#)
7. [Staff Comments R3](#)
8. [Staff Comments R4](#)
9. [Staff Comments R5](#)



MARS LANDING



To: Tenae Beane
Development Review Coordinator
City of Fort Collins
281 N College
Fort Collins, CO 80524

From: Galloway & Company, Inc.
5265 Ronald Reagan Blvd, Suite 210
Johnstown, CO 80525

Date: September 11, 2019

Re: Mars Landing Preliminary Development Plan–PROJECT NARRATIVE

The Mars Landing project includes the proposed development of a 3.79 acre parcel located at the southwest corner of Mars Drive and W Skyway Drive in Fort Collins. The property is currently undeveloped. The proposed use is classified as Multi-family Dwellings with more than 50 dwelling units, which is an approved use for the General Commercial zoning. The high-density development is adjacent to an existing commercial use and is approximately 0.1 miles from the S College Avenue/US HWY 287 corridor. Development will consist of two high-density, three-story apartment buildings with a total of 90 dwelling units; separated garage buildings; a single-story clubhouse building; and associated drives, off-street parking, and utilities. An application for Preliminary Design Review (PDR190007) was submitted to Staff on July 3, 2019. The applicant and owner met with Staff on July 31, 2019 to review comments for the PDR application. A neighborhood meeting for the Mars Landing project was held on August 26, 2019. A previous Preliminary Design Review was submitted for the project site titled Skyway Townhomes (PDR180003), April 2018. Comments were issued for this review, however, this application was not pursued any further.

Vehicular access to the project site will be made via two drive-cuts from Mars Drive, which is a public road. Per the comment letter issued for PDR180003, the northernmost drive-cut may align with the existing access on the east side of Mars Drive that serves the South College Storage Units. Connectivity to the surrounding neighborhood and developments will be provided via access to Skyway Drive from Mars Drive. Mars Drive currently features a temporary roundabout near the south property boundary of the project site. This project proposes to demolish the temporary roundabout and extend Mars Drive south to the south property boundary to allow for the installation of the second drive-cut. The future extension of Mars Drive beyond the limits of the south property boundary will be done by others and is not part of this project. There is an existing public sidewalk along Skyway Drive along the north property boundary. The project proposes to connect to the existing sidewalk in Skyway and install new public sidewalk along the west right-of-way of Mars Drive. Connections to the proposed public sidewalk in Mars Drive will provide pedestrian access to the project site. As part of the development agreement for the South College Storage Units on the east side of Mars Drive, development of the Mars Landing parcel requires construction of certain South College Avenue improvements adjacent to the project site. Per conversations with the City engineering department, these improvements are limited to a 7' detached sidewalk and incidental construction relating to grading and existing utilities. Off-street parking will be



provided in a surface lot on the project site. There will also be parking available to tenants in rentable garage spaces. The project proposes 140 surface parking spaces and 28 garage parking spaces, for a total of 168 off-street parking spaces. Landscape provided for this development will be consistent with City of Fort Collins xeric design standards. An evergreen buffer will be provided along the western boundary of the property to screen the garages. While ornamental plantings will be provided along the street frontages and at the clubhouse / amenity area. Mitigation has been provided for existing trees that must be removed from the site.

Under existing conditions, the project site generally drains overland from west to east. Runoff generated by the project site is currently captured in an inlet at the northeast property corner where it is conveyed via underground storm sewer and open channel flow to a culvert that runs under South College Avenue. The Mars Landing development proposes to capture and detain on-site generated flows in a pond at the northeast corner of the site prior to releasing into the existing storm drain system as it does in the existing condition. Water quality treatment of captured runoff will be achieved by implementation of an approved Low-Impact Development strategy. Detention and water quality features will be designed to comply with the City of Fort Collins Stormwater Criteria Manual and Fossil Creek Drainage Basin Master Plan.

There are no designated natural features or wetlands on the project site. The proposed occupiable buildings will be equipped with automatic fire sprinklers. An existing ditch bisects the project site but has been recently been abandoned. Per correspondence with the North Loudon Ditch Company, the ditch has been relocated and piped underground. A development agreement exists for the property and is recorded under Larimer County Public Records Doc. No. 20170069535.

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

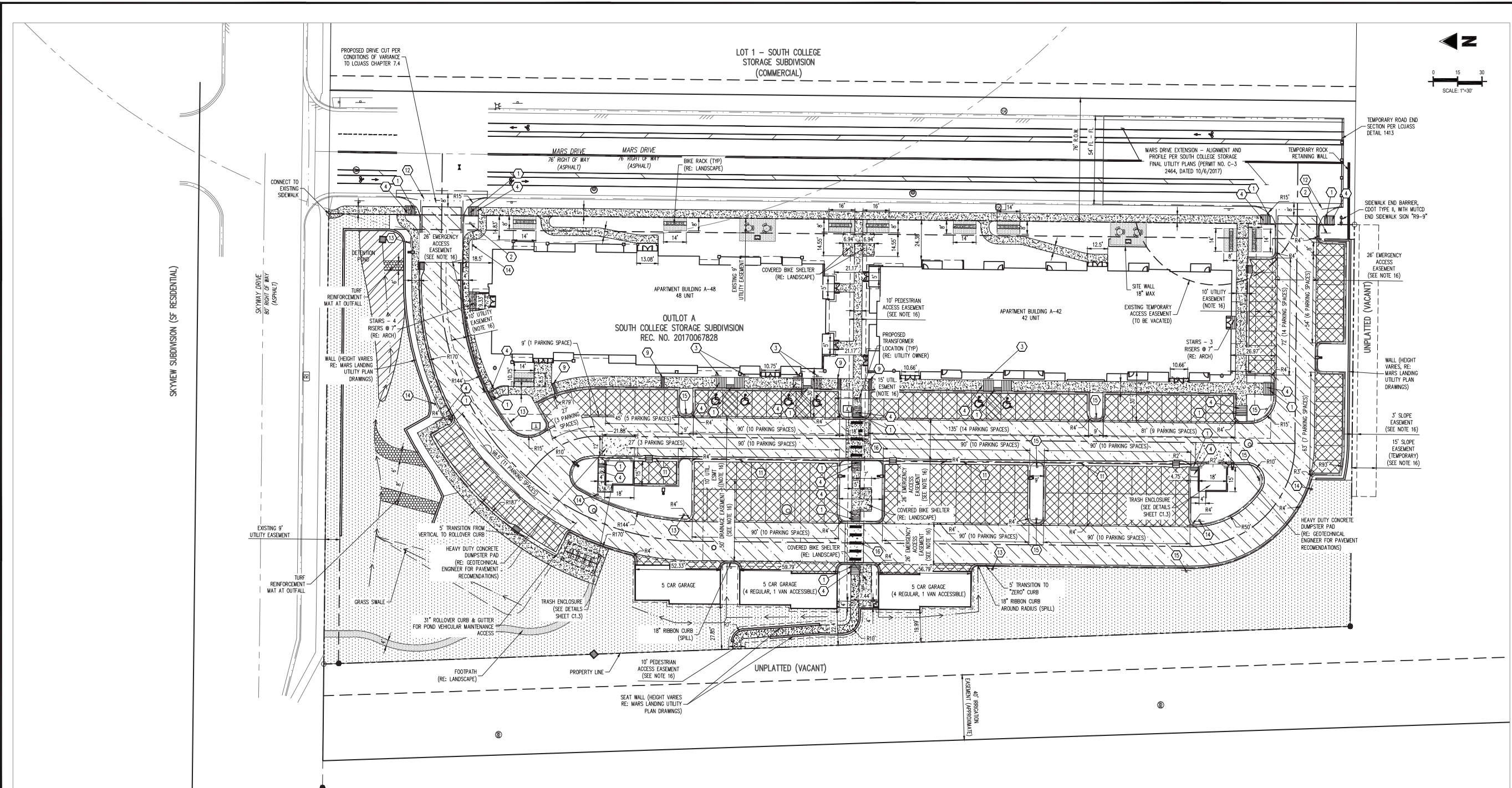
COPYRIGHT

THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.

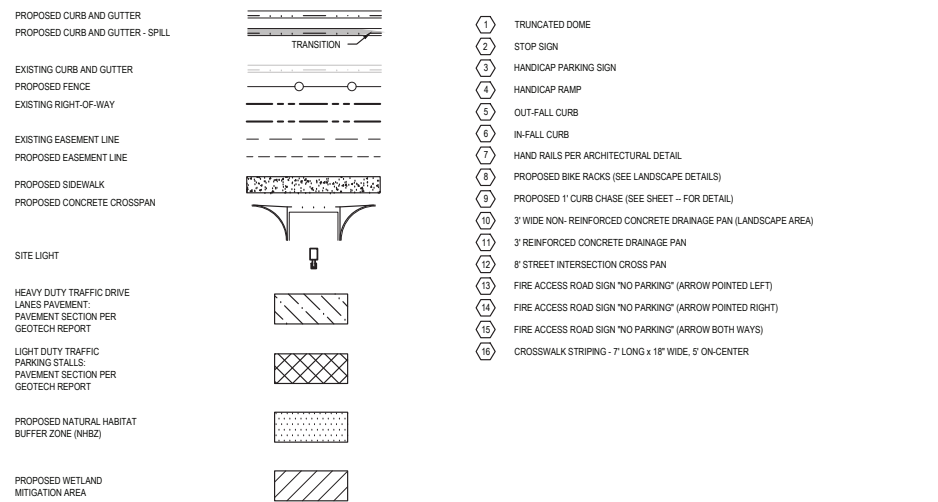


MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO



LEGEND:



NOTES:

- 1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
- 2. REFER TO LANDSCAPE PLANS FOR STREET TREE INFORMATION, AND SURVEY DOCUMENTS FOR ADDITIONAL RIGHT-OF-WAY, EASEMENT AND ROADWAY CENTERLINE INFORMATION.
- 3. BUILDING POINTS ARE AT CORNERS OF NOMINAL BUILDING FOOTPRINTS. CONTRACTOR SHALL CONFIRM ALL BUILDING CORNERS AND DIMENSIONS WITH ARCHITECT PRIOR TO CALLING FOR STAKES.
- 4. ALL DIMENSIONS REFERENCE FLOWLINE, BUILDING OR PROPERTY LINE UNLESS SPECIFIED OTHERWISE.
- 5. CONTRACTOR TO COORDINATE WITH CIVIL ENGINEER AND ARCHITECT PRIOR TO STAKING BUILDING COORDINATES.
- 6. FOR ALL CATCH AND SPILL CURB INFORMATION AND TRANSITIONS, SEE GRADING PLANS C2.1-C2.2.
- 7. ALL STRIPING AND PAVEMENT MARKINGS SHALL COMPLY WITH THE MUTCD AND SECTION 627 OF THE CDOT SPECIFICATIONS FOR SKYWAY DRIVE AND SOUTH COLLEGE AVENUE INTERSECTION IMPROVEMENTS.
- 8. ALL STRIPING AND PAVEMENT MARKING FOR SKYWAY DRIVE AND MARS DRIVE SHALL COMPLY WITH THE CITY OF FORT COLLINS STREET DESIGN AND CONSTRUCTION STANDARDS.
- 9. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD WITH REGARD TO SIGN TYPE, SIZE, LOCATION AND MOUNTING SPECIFICATIONS.
- 10. ALL ON-SITE CURB AND GUTTER SHALL BE 18" CATCH OR SPILL CURB AND GUTTER UNLESS NOTED.
- 11. ALL H/C RAMPS SHALL HAVE TRUNCATED DOMES PER SITE PLAN DETAILS SHEET.
- 12. REFER TO DETAIL SHEET - FOR H/C PARKING STALL DETAILS AND SIGN REQUIREMENTS - ALL SPACES ARE VAN ACCESSIBLE AND SHOULD BE POSTED AS SUCH. PROVIDE 2'5" CLEAR FROM FLOWLINE TO POST.
- 13. THERE SHALL BE A 3' MINIMUM TRANSITION FROM SPILL TO CATCH CURB AND GUTTER.
- 14. ALL SIGNS TO BE HIGH INTENSITY PRISMATIC GRADE SHEETING.
- 15. FOR PAVEMENT DESIGN, PAVEMENT SECTIONS, AND SUBGRADE PREPARATION, REFER TO PRELIMINARY SURFACE EXPLORATION REPORT DATED JULY 17, 2019 BY EARTH ENGINEERING CONSULTANTS. CONTRACTOR TO VERIFY FINAL PAVEMENT AND SUBGRADE DESIGN WITH GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
- 16. ALL PROPOSED EASEMENTS ARE TO BE RECORDED BY SEPARATE DOCUMENT.

NATURAL AREAS CALCULATIONS:

	AREA (AC)
EXISTING UPLANDS	1.50
EXISTING WETLANDS	0.014
EXISTING PRAIRIE DOG COLONY	3.50
EXISTING UPLANDS TO BE VACATED	1.50
EXISTING WETLANDS TO BE VACATED	0.014
EXISTING PRAIRIE DOG COLONY TO BE VACATED	3.50
EXISTING UPLANDS TO REMAIN	0.00
EXISTING WETLANDS TO REMAIN	0.00
EXISTING PRAIRIE DOG COLONY TO REMAIN	0.00
PROPOSED UPLANDS MITIGATION	0.87
PROPOSED WETLANDS MITIGATION	0.043
PRAIRIE DOG COLONY MITIGATION	**

BLACK TAILED PRAIRIE DOG COLONY MITIGATION NOTE

BLACK-TAILED PRAIRIE DOGS LOCATED WITHIN THE PARCEL WILL BE TRAPPED AND DONATED TO EITHER A RAPTOR REHABILITATION PROGRAM OR A BLACK-FOOTED FERRET RECOVERY PROGRAM. ALL CONTROL ETC. WILL BE DONE PER CITY OF FORT COLLINS, CPW AND COLORADO DEPARTMENT OF AGRICULTURE REQUIREMENTS. CONTROL WILL BE CONDUCTED VIA THE INTRODUCTION OF CARBON MONOXIDE INTO THE BURROWS. POST-CONTROL OF THE PRAIRIE DOGS A REPORT WILL BE PREPARED WHICH WILL IDENTIFY THE CONTROL METHOD USED AND THE NUMBER OF PRAIRIE DOGS TRAPPED/DONATED.

CAUTION - NOTICE TO CONTRACTOR

- 1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES. PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT. PRIOR TO CONSTRUCTION REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY. EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- 4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



PLANNING CERTIFICATE

APPROVED BY THE DIRECTOR OF COMMUNITY DEVELOPMENT AND NEIGHBORHOOD SERVICES OF THE CITY OF FORT COLLINS, COLORADO ON THIS _____ DAY OF _____, 20____

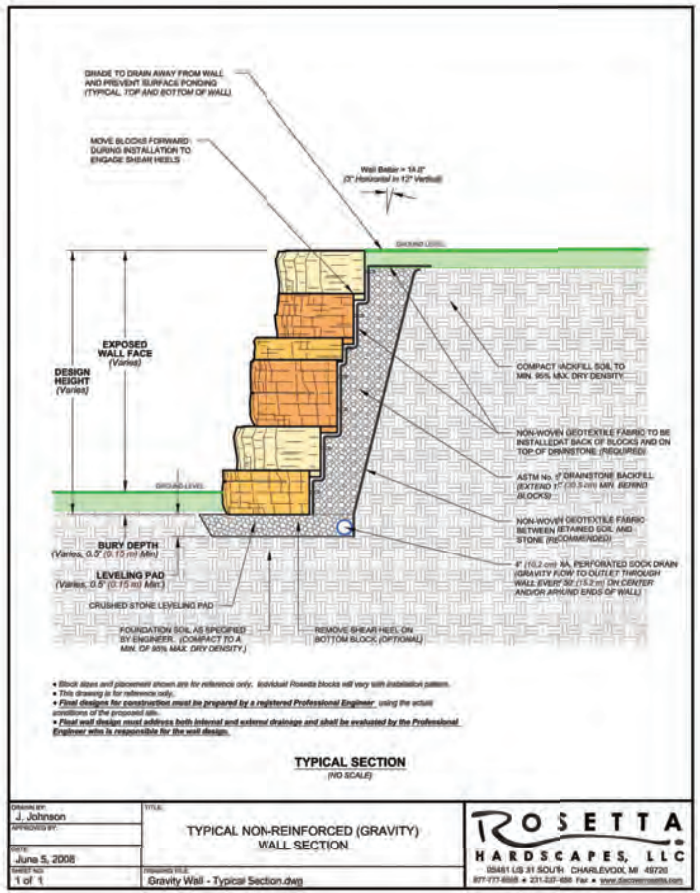
Director Signature _____

#	Date	Issue / Description	Init.

Project No: GNK000008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

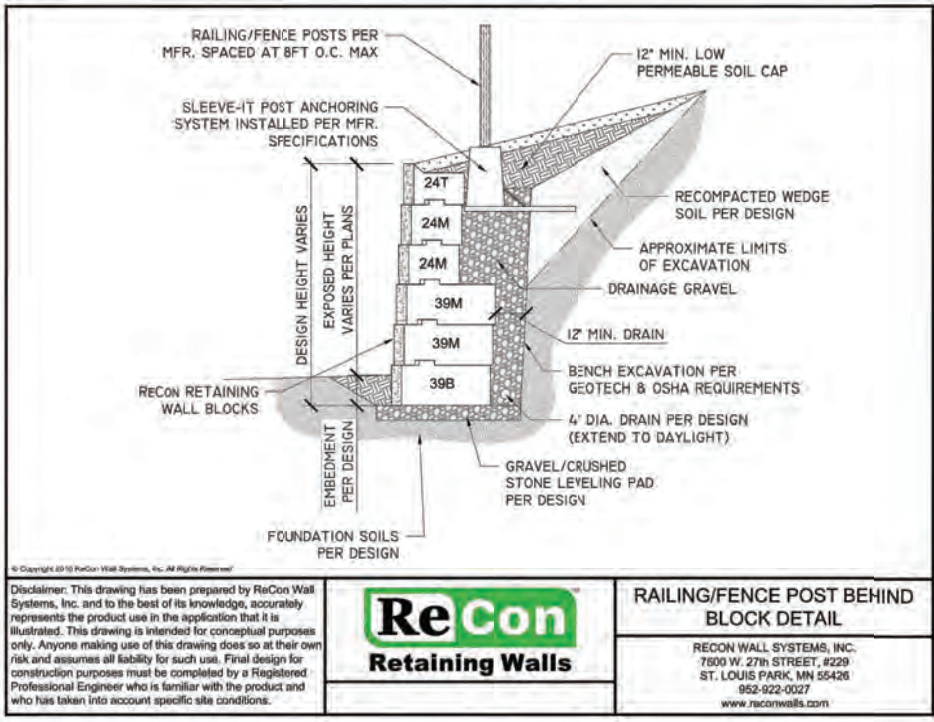
SITE PLAN

C1.0



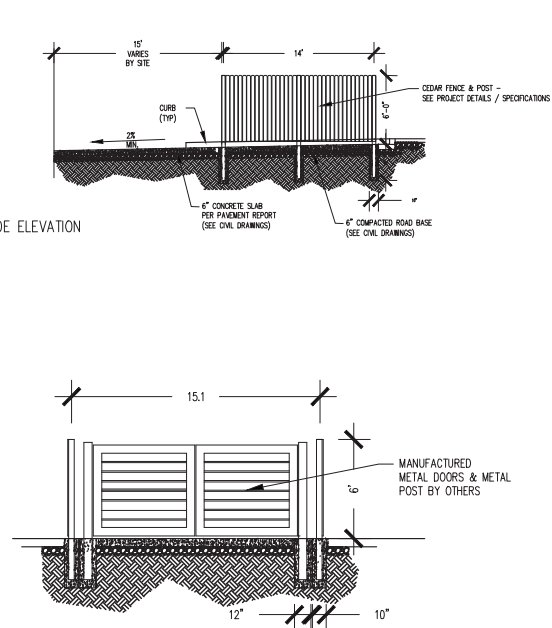
2
C2.0

DETENTION POND WALL



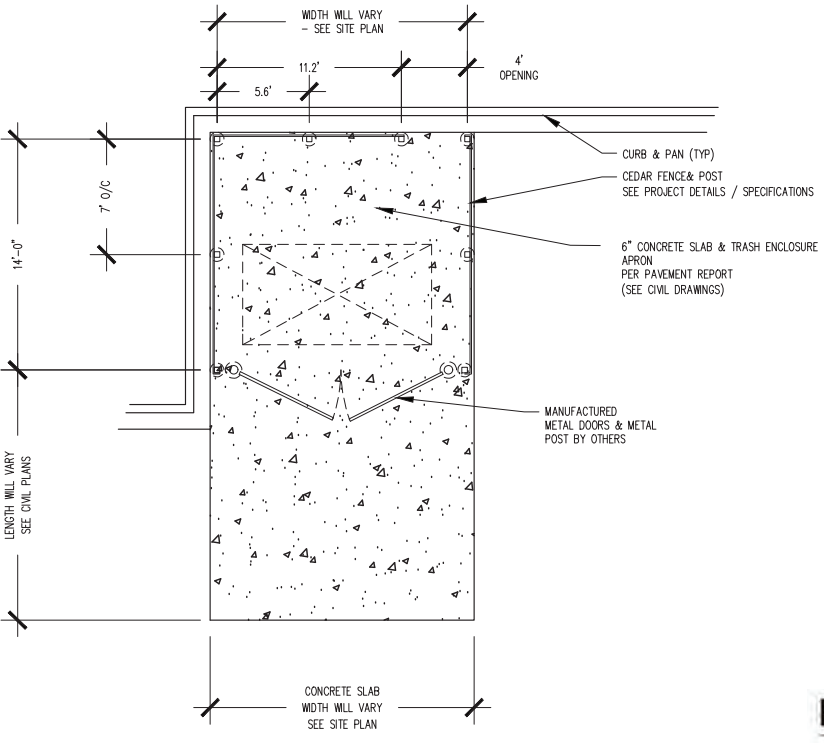
3
C2.0

SOUTH RETAINING WALL WITH SCREEN FENCE



1
C2.0

TRASH AND RECYCLING ENCLOSURE



PLAN VIEW

PLANNING CERTIFICATE

APPROVED BY THE DIRECTOR OF COMMUNITY DEVELOPMENT AND NEIGHBORHOOD SERVICES OF THE CITY OF FORT COLLINS, COLORADO ON THIS _____ DAY OF _____, 20____.

Director Signature _____

**PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION**

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



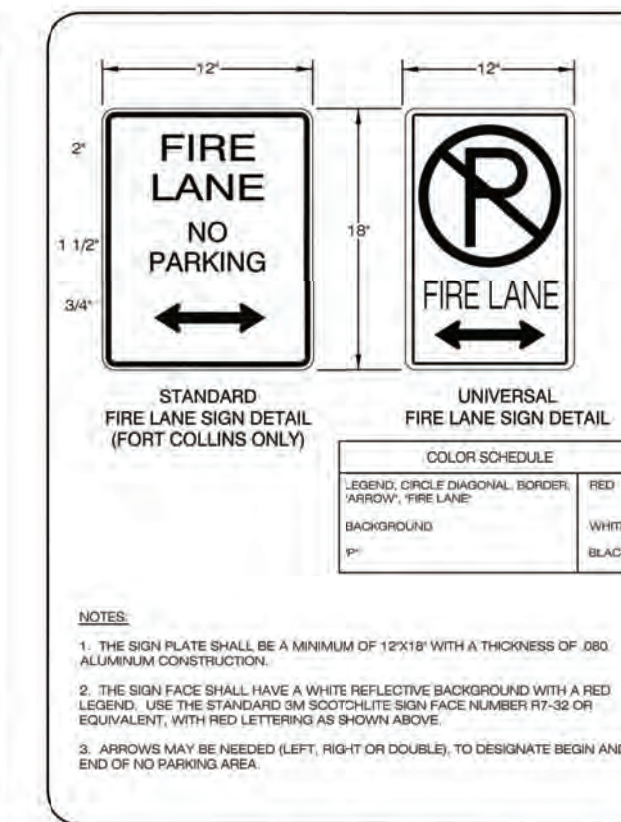
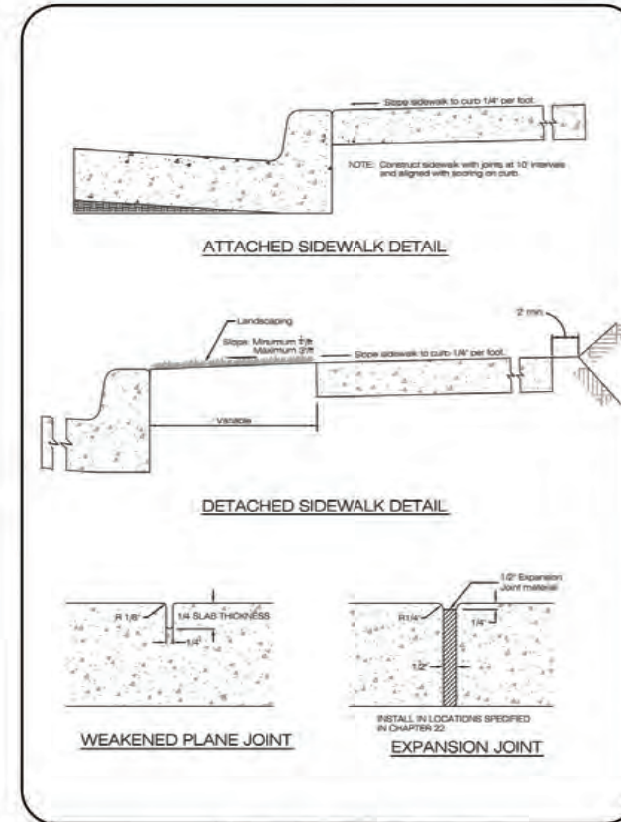
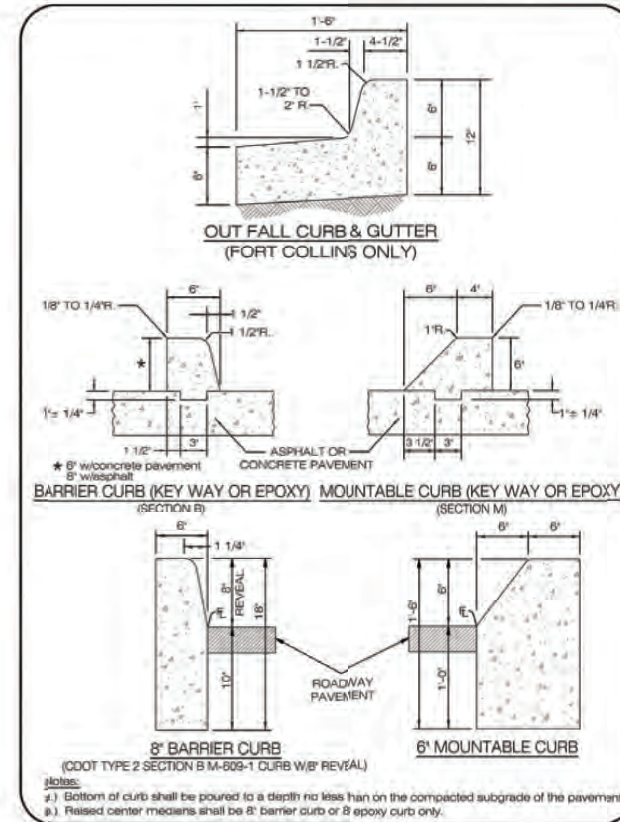
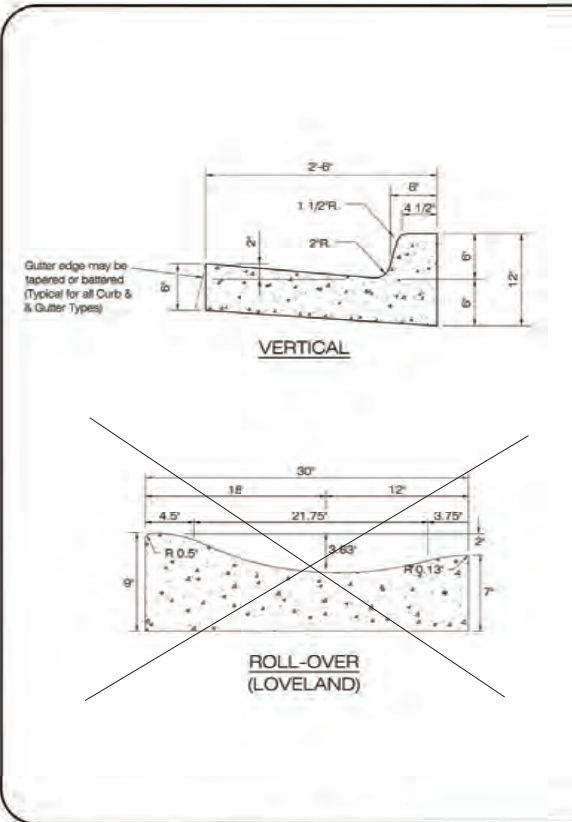
MARS LANDING
PROJECT DEVELOPMENT PLAN
FORT COLLINS, CO

#	Date	Issue / Description	Init.

SITE DETAILS

C1.1

© 2021 Galloway US, Inc. All rights reserved. This drawing is the property of Galloway US, Inc. and may not be reproduced without written consent. Project No. GNK000008. Date: 07/28/2021.

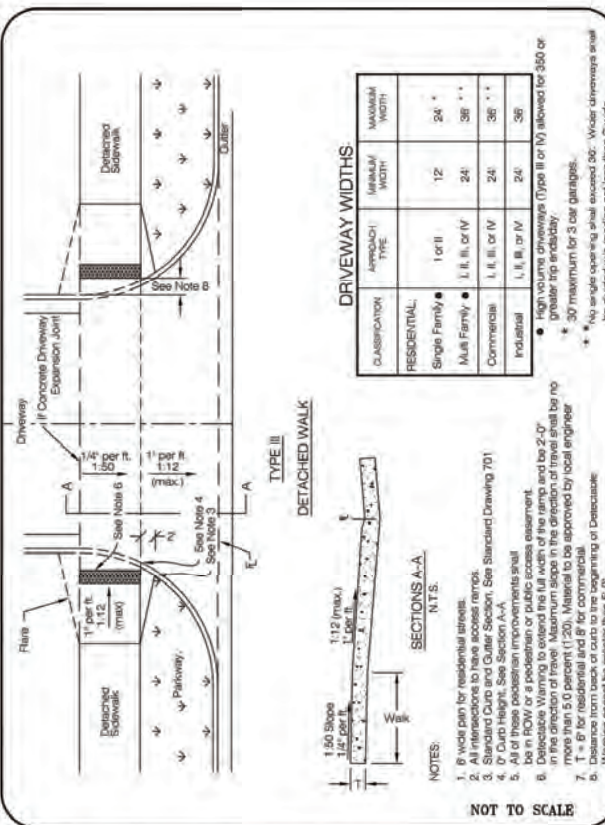


CURB AND GUTTER			
LARIMER COUNTY URBAN AREA STREET STANDARDS	CONSTRUCTION DRAWINGS	REVISION NO: 1 DATE: 03/01/02	DRAWING 701

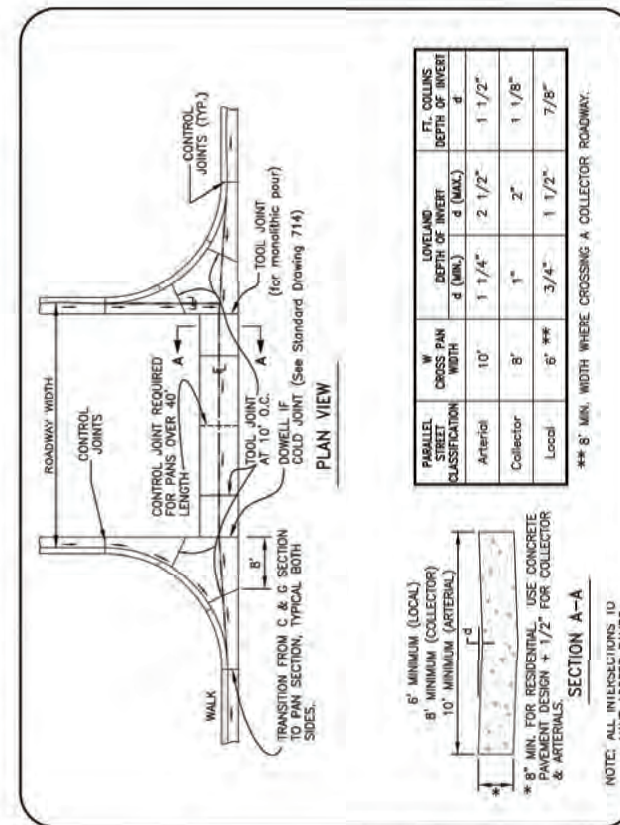
MEDIAN (ISLAND CURBS)			
LARIMER COUNTY URBAN AREA STREET STANDARDS	CONSTRUCTION DRAWINGS	REVISION NO: 2 DATE: 04/01/07	DRAWING 703

SIDEWALK DETAIL			
LARIMER COUNTY URBAN AREA STREET STANDARDS	CONSTRUCTION DRAWINGS	REVISION NO: 2 DATE: 04/01/07	DRAWING 1602

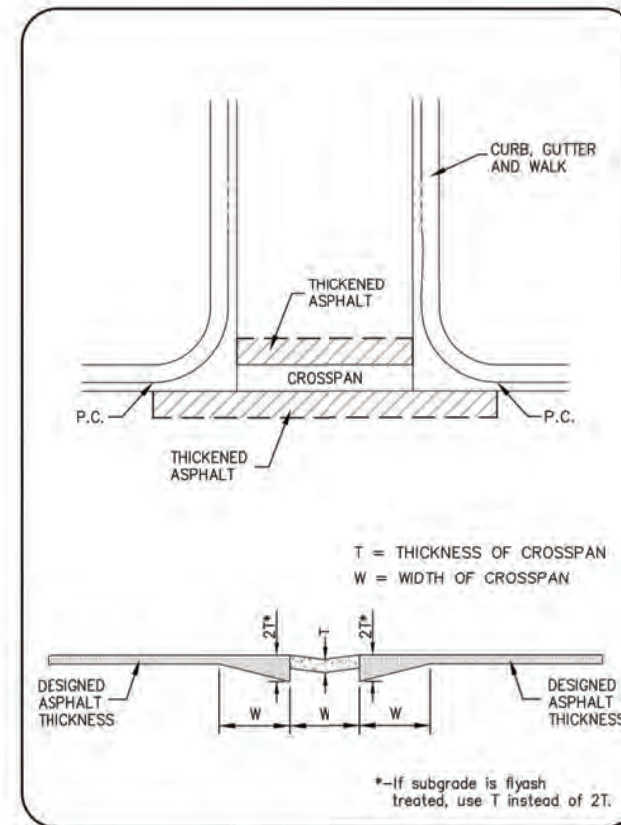
FIRE ACCESS ROAD SIGNS			
LARIMER COUNTY URBAN AREA STREET STANDARDS	CONSTRUCTION DRAWINGS	REVISION NO: 2 DATE: 04/01/07	DRAWING 1418



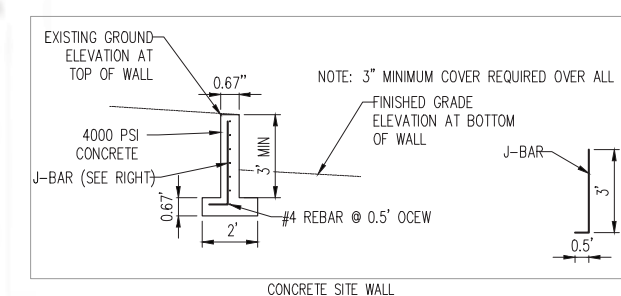
STANDARD DRIVEWAY APPROACH (HIGH VOLUME DRIVE TYPE III)			
LARIMER COUNTY URBAN AREA STREET STANDARDS	CONSTRUCTION DRAWINGS	REVISION NO: 1 DATE: 02/17/15	DRAWING 707.1



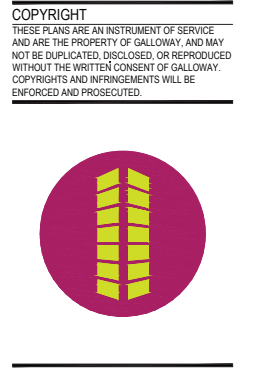
STREET INTERSECTION CROSSSPAN			
LARIMER COUNTY URBAN AREA STREET STANDARDS	CONSTRUCTION DRAWINGS	REVISION NO: 2 DATE: 04/01/07	DRAWING 708



ASPHALT PAVING DETAIL (CROSSSPAN)			
LARIMER COUNTY URBAN AREA STREET STANDARDS	CONSTRUCTION DRAWINGS	REVISION NO: 1 DATE: 04/01/07	DRAWING 710



PLANNING CERTIFICATE			
LARIMER COUNTY URBAN AREA STREET STANDARDS	CONSTRUCTION DRAWINGS	REVISION NO: 1 DATE: 04/01/07	DRAWING 710



COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.

MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNC000008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

SITE DETAILS

C1.3

STREET TREE NOTES:
 1. A PERMIT MUST BE OBTAINED FROM THE CITY FORESTER BEFORE ANY TREES OR SHRUBS AS NOTED ON THIS PLAN ARE PLANTED, PRUNED OR REMOVED IN THE PUBLIC RIGHT-OF-WAY. THIS INCLUDES ZONES BETWEEN THE SIDEWALK AND CURB, MEDIANS AND OTHER CITY PROPERTY. THIS PERMIT SHALL APPROVE THE LOCATION AND SPECIES TO BE PLANTED. FAILURE TO OBTAIN THIS PERMIT IS A VIOLATION OF THE CITY OF FORT COLLINS CODE SUBJECT TO CITATION SECTION 27.511 AND MAY ALSO RESULT IN REPLACING OR RELOCATING TREES AND A HOLD ON CERTIFICATE OF OCCUPANCY.

SHEET L1.1

SHEET L1.4

NOT A PART

MITIGATION DATA:
 EXISTING
 1.50 AC RES LOWER ECOLOGICAL VALUE UPLANDS
 0.014 ACRES OF LOWER ECOLOGICAL VALUE WETLANDS HABITAT

PROPOSED
 UPLAND BUFFER: 0.41 AC
 UPLAND POLLINATOR: 0.34 AC
 RIPARIAN: 0.14 AC
 WETLAND: 0.043 AC

TOTAL PROPOSED: 0.913 AC

REMAINING 0.601 AC OF REQUIRED MITIGATION IS MADE UP WITH HIGHER QUALITY PLANTINGS/HABITAT

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
 PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

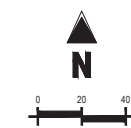
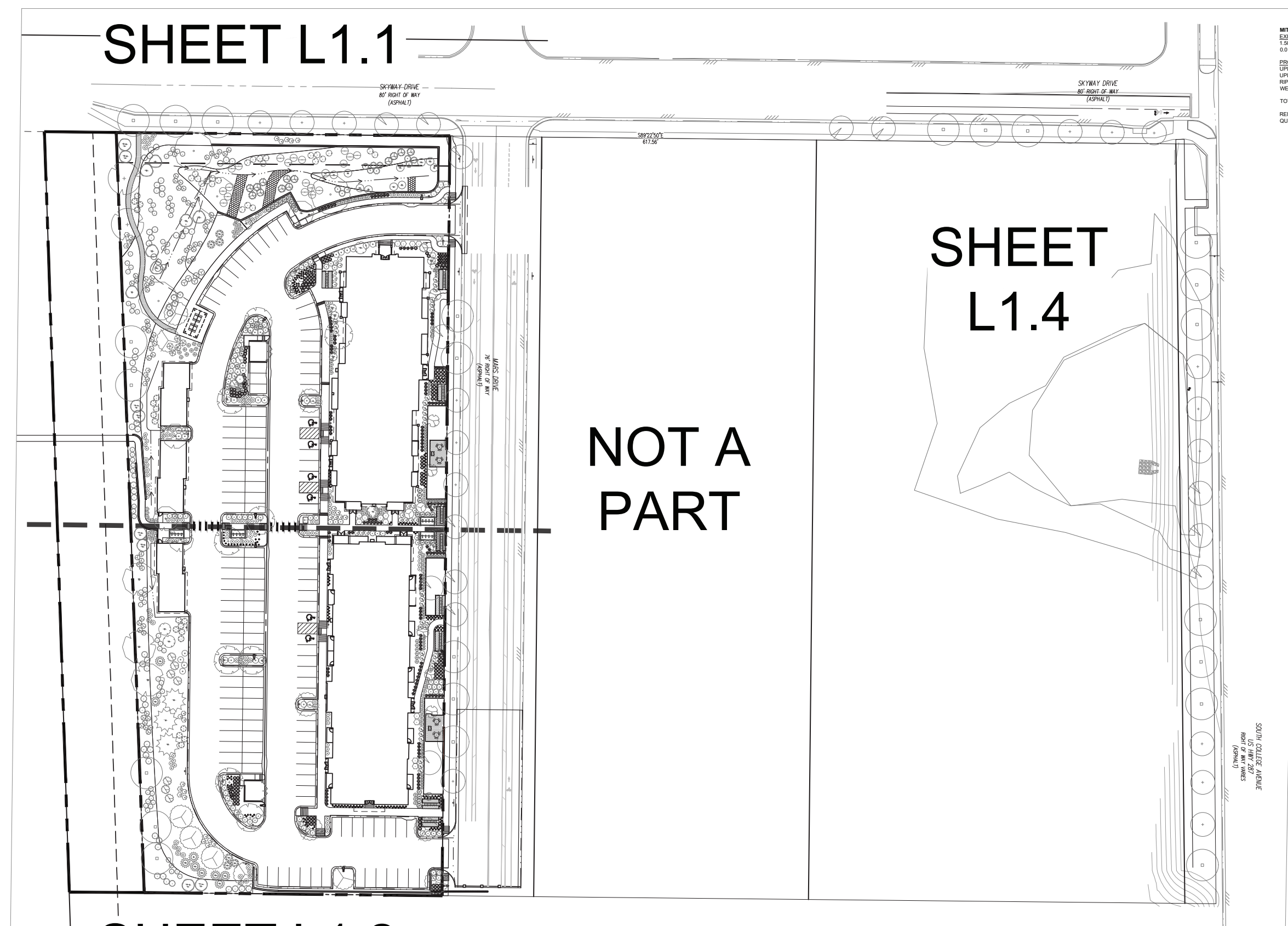
#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: AS
 Checked By: SRA
 Date: 07.28.2021

OVERALL LANDSCAPE PLAN

L1.0

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION



SHEET L1.2

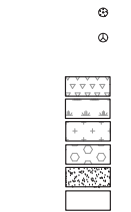
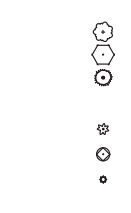
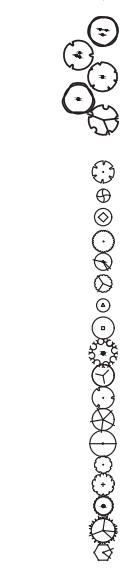
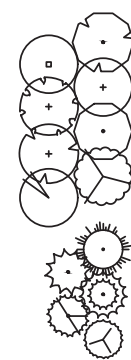
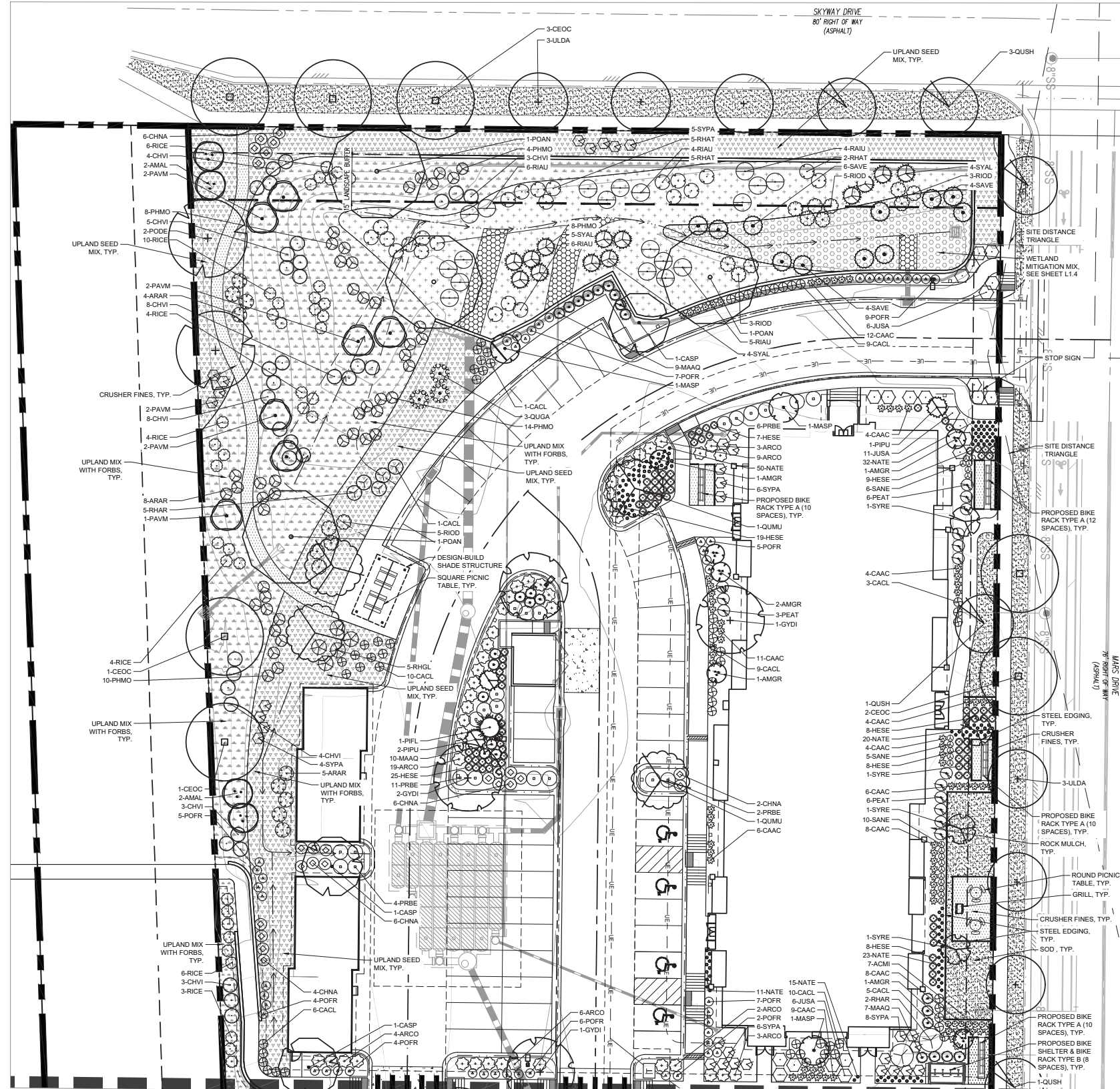
C:\Users\jgarcia\OneDrive\Documents\2021\07\28\2021\0728\08_01_L1_0_Sheet\08_01_L1_0_Sheet.dwg 1:1, 07/28/2021 10:00:00 AM, 1:1, 07/28/2021 10:00:00 AM, 1:1, 07/28/2021 10:00:00 AM, 1:1, 07/28/2021 10:00:00 AM, 1:1, 07/28/2021 10:00:00 AM, 1:1, 07/28/2021 10:00:00 AM

CITY OF FORT COLLINS STREET TREE NOTE

STREET TREE NOTES:

1. A PERMIT MUST BE OBTAINED FROM THE CITY FORESTER BEFORE ANY TREES OR SHRUBS AS NOTED ON THIS PLAN ARE PLANTED, PRUNED OR REMOVED IN THE PUBLIC RIGHT-OF-WAY. THIS INCLUDES ZONES BETWEEN THE SIDEWALK AND CURB, MEDIANS AND OTHER CITY PROPERTY. THIS PERMIT SHALL APPROVE THE LOCATION AND SPECIES TO BE PLANTED. FAILURE TO OBTAIN THIS PERMIT IS A VIOLATION OF THE CITY OF FORT COLLINS CODE SUBJECT TO CITATION (SECTION 27.31) AND MAY ALSO RESULT IN REPLACING OR RELOCATING TREES AND A HOLD ON CERTIFICATE OF OCCUPANCY.

CAUTION
UTILITIES EXIST WITHIN CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THEIR LOCATION PRIOR TO CONSTRUCTION.



PLANTING LEGEND

PLANT	SYMBOL	PLANT NAME	PLANT CODE	PLANT SIZE	PLANT TYPE	PLANT QUANTITY
1	[Symbol]	1-POAN	POAN	12\"/>		

VEGETATION TABLE

PLANT	PLANT NAME	PLANT CODE	PLANT SIZE	PLANT TYPE	PLANT QUANTITY
1	POAN	POAN	12\"/>		

PLANTING SCHEDULE

PLANT	PLANT NAME	PLANT CODE	PLANT SIZE	PLANT TYPE	PLANT QUANTITY
1	POAN	POAN	12\"/>		

VEGETATION TABLE

PLANT	PLANT NAME	PLANT CODE	PLANT SIZE	PLANT TYPE	PLANT QUANTITY
1	POAN	POAN	12\"/>		

VEGETATION TABLE

PLANT	PLANT NAME	PLANT CODE	PLANT SIZE	PLANT TYPE	PLANT QUANTITY
1	POAN	POAN	12\"/>		

VEGETATION TABLE

PLANT	PLANT NAME	PLANT CODE	PLANT SIZE	PLANT TYPE	PLANT QUANTITY
1	POAN	POAN	12\"/>		

MITIGATION DATA:

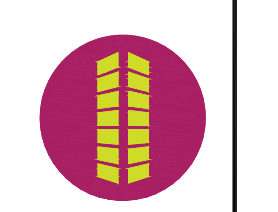
EXISTING	UPLAND BUFFER	UPLAND POLLINATOR	RRPARIAN	WETLAND
150 ACRES OF LOWER ECOLOGICAL VALUE UPLANDS	0.41 AC	0.36 AC	0.14 AC	0.043 AC

TOTAL PROPOSED: 0.913 AC
REMAINING 0.087 AC OF REQUIRED MITIGATION IS MADE UP WITH HIGHER QUALITY PLANTING HABITAT

Galloway
5265 Ronald Reagan Blvd., Suite 210
Johnstown, CO 80534
970.800.3300
GallowayUS.com

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING PROJECT DEVELOPMENT PLAN
FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GN000008
Drawn By: AS
Checked By: SRA
Date: 07.28.2021

LANDSCAPE PLAN
L1.1

CITY OF FORT COLLINS STREET TREE NOTE

STREET TREE NOTES:

1. A PERMIT MUST BE OBTAINED FROM THE CITY FORESTER BEFORE ANY TREES OR SHRUBS AS NOTED ON THIS PLAN ARE PLANTED, PRUNED OR REMOVED IN THE PUBLIC RIGHT-OF-WAY. THIS INCLUDES ZONES BETWEEN THE SIDEWALK AND CURB, MEDIANS AND OTHER CITY PROPERTY. THIS PERMIT SHALL APPROVE THE LOCATION AND SPECIES TO BE PLANTED. FAILURE TO OBTAIN THIS PERMIT IS A VIOLATION OF THE CITY OF FORT COLLINS CODE SUBJECT TO CITATION (SECTION 27-31) AND MAY ALSO RESULT IN REPLACING OR RELOCATING TREES AND A HOLD ON CERTIFICATE OF OCCUPANCY.



DERO: SWERVE BIKE RACK
 QTY: 50
 MOUNTING: SURFACE MOUNT
 COLOR: POWDER COAT IRON GRAY
 LOCATION: SEE PLANS



DERO: VIZOR BIKE SHELTER
 QTY: 4
 MOUNTING: SURFACE MOUNT
 COLOR: POWDER COAT LIGHT GRAY
 LOCATION: SEE PLANS



DERO: HOOP BIKE RACK
 QTY: 16
 MOUNTING: SURFACE MOUNT
 COLOR: POWDER COAT DEEP RED
 LOCATION: SEE PLANS

MITIGATION DATA:

EXISTING	
1.50 ACRES LOWER ECOLOGICAL VALUE UPLANDS	
0.014 ACRES OF LOWER ECOLOGICAL VALUE WETLANDS HABITAT	
PROPOSED	
UPLAND BUFFER:	0.41 AC
UPLAND POLLINATOR:	0.34 AC
RIPARIAN:	0.14 AC
WETLAND:	0.043 AC
TOTAL PROPOSED:	0.913 AC

REMAINING 0.601 AC OF REQUIRED MITIGATION IS MADE UP WITH HIGHER QUALITY PLANTINGS/HABITAT

1 BIKE RACK: TYPE A

NOT TO SCALE

2 BIKE SHELTER

NOT TO SCALE

3 BIKE RACK: TYPE B - WITH SHELTER

NOT TO SCALE



WABASH VALLEY: SPYDER SERIES ROUND PICNIC TABLE
 QTY: 4
 MOUNTING: SURFACE MOUNT
 COLOR: BLACK
 LOCATION: SEE PLANS

4 ROUND PICNIC TABLE

NOT TO SCALE



WABASH VALLEY: COVERED GRILL
 QTY: 2
 MOUNTING: IN-GROUND
 COLOR: BLACK
 LOCATION: SEE PLANS

5 GRILL

NOT TO SCALE

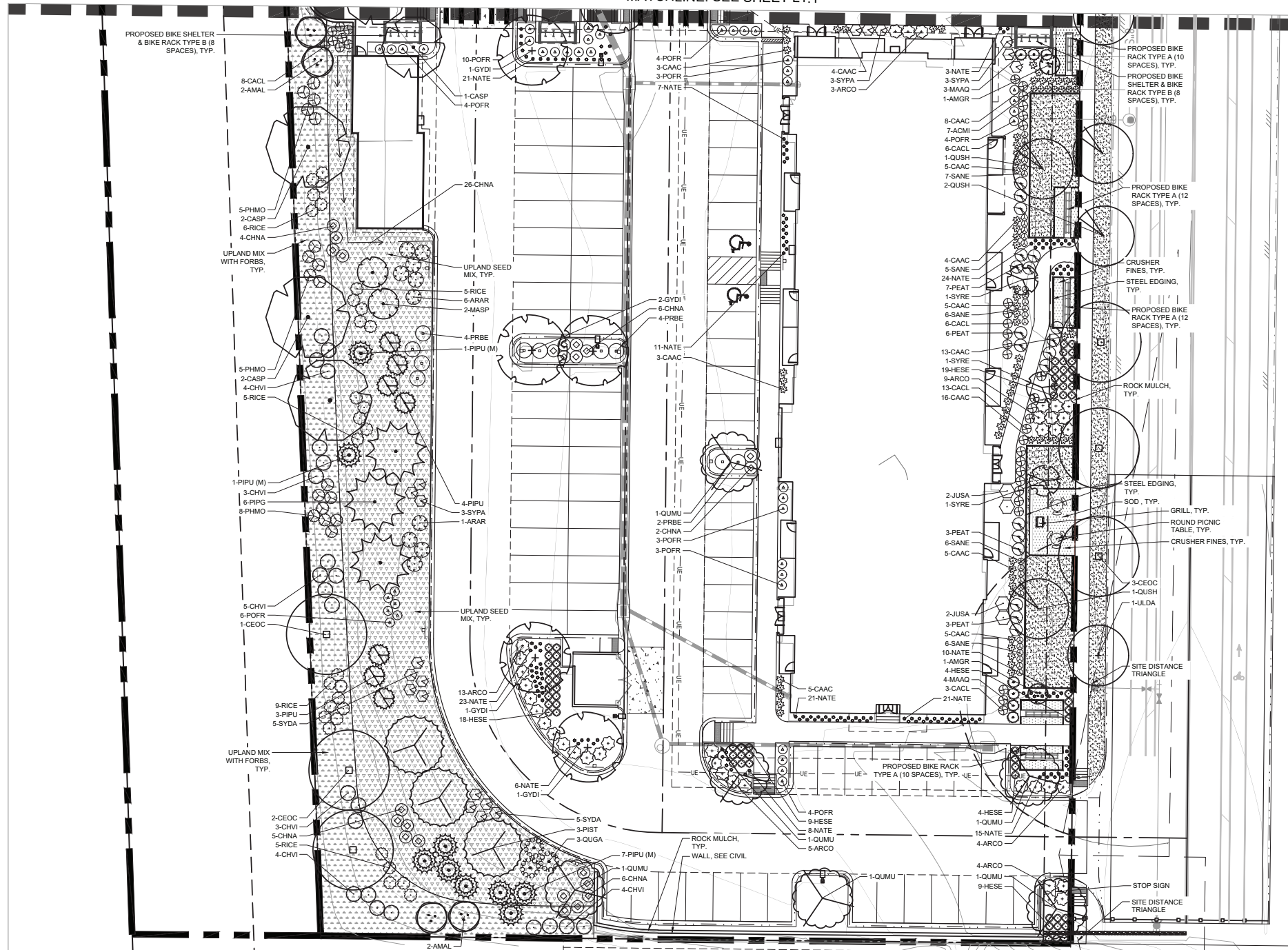


WABASH VALLEY: COVERED GRILL
 QTY: 2
 MOUNTING: IN-GROUND
 COLOR: BLACK
 LOCATION: SEE PLANS

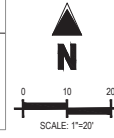
6 SQUARE PICNIC TABLE

NOT TO SCALE

MATCHLINE: SEE SHEET L1.1



CAUTION
 UTILITIES EXIST WITHIN CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THEIR LOCATION PRIOR TO CONSTRUCTION



PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY. AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
 PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNW000008
 Drawn By: AS
 Checked By: SRA
 Date: 07.28.2021

LANDSCAPE PLAN

L1.2

CITY OF FORT COLLINS STANDARD NOTES

STREET TREE NOTES:

- 1. A PERMIT MUST BE OBTAINED FROM THE CITY FORESTER BEFORE ANY TREES OR SHRUBS AS NOTED ON THIS PLAN ARE PLANTED...
2. CONTACT THE CITY FORESTER TO INSPECT ALL STREET TREE PLANTINGS AT THE COMPLETION OF EACH PHASE OF THE DEVELOPMENT...
3. STREET LANDSCAPING, INCLUDING STREET TREES, SHALL BE SELECTED IN ACCORDANCE WITH ALL CITY CODES AND POLICIES...

TREE PROTECTION NOTES:

- 1. ALL EXISTING TREES WITHIN THE LIMITS OF THE DEVELOPMENT AND WITHIN ANY NATURAL AREA BUFFER ZONES SHALL REMAIN AND BE PROTECTED...
2. WITHIN THE DRIP LINE OF ANY PROTECTED EXISTING TREE, THERE SHALL BE NO CUT OR FILL OVER A FOUR-INCH DEPTH UNLESS A QUALIFIED ARBORIST...
3. ALL PROTECTED EXISTING TREES SHALL BE PRUNED TO THE CITY OF FORT COLLINS FORESTRY STANDARDS...

LARGE PROPERTY AREAS CONTAINING PROTECTED TREES AND SEPARATED FROM CONSTRUCTION OR LAND CLEARING AREAS, ROAD RIGHTS-OF-WAY AND UTILITY EASEMENTS MAY BE 'RIBBONED OFF' RATHER THAN ERECTING PROTECTIVE FENCING AROUND EACH TREE AS REQUIRED IN SUBSECTION (G)(3)...

8. THE INSTALLATION OF UTILITIES, IRRIGATION LINES OR ANY UNDERGROUND FIXTURES REQUIRING EXCAVATION DEEPER THAN SIX (6) INCHES SHALL BE ACCOMPLISHED BY BORING UNDER THE ROOT SYSTEM OF PROTECTED EXISTING TREES AT A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES...

Table with 4 columns: Tree Diameter at Breast Height (inches), Auger Diameter (inches), Tree Height (feet), and Spacing (feet). Rows include 8-12, 12-18, 18-24, and Over 24 inch diam.

9. TREE REMOVAL SHALL BE COMPLETED OUTSIDE OF THE SONGBIRD NESTING SEASON (FEB 1 - JULY 31) OR CONDUCT A SURVEY OF TREES ENSURING NO ACTIVE NESTS IN THE AREA.

GENERAL LANDSCAPE NOTES:

- 1. PLANT QUALITY: ALL PLANT MATERIAL SHALL BE A-GRADE OR NO. 1 GRADE - FREE OF ANY DEFECTS, OF NORMAL HEALTH, HEIGHT, LEAF DENSITY AND SPREAD...
2. IRRIGATION: ALL LANDSCAPE AREAS WITHIN THE SITE INCLUDING TURF, SHRUB BEDS AND TREE AREAS SHALL BE IRRIGATED WITH AN AUTOMATIC IRRIGATION SYSTEM...
3. TOPSOIL: TO THE MAXIMUM EXTENT FEASIBLE, TOPSOIL THAT IS REMOVED DURING CONSTRUCTION ACTIVITY SHALL BE CONSERVED FOR LATER USE ON AREAS REQUIRING REVEGETATION AND LANDSCAPING...

LANDSCAPE CALCULATIONS

Table with 3 columns: Category, Description, and Amount. Categories include Parking Lot Perimeter, Parking Lot Interior, Tree Biodiversity, and Tree Stocking.

SEED NOTES

NOTE: FOR ALL SEEDED AREAS USE CITY OF FORT COLLINS DETENTION BASIN MIX OR AS NOTED ON PLANS.

CITY OF FORT COLLINS NATIVE SEED MIX NOTES

- 1. PREPARE SOIL AS NECESSARY AND APPROPRIATE FOR NATIVE SEED MIX SPECIES THROUGH AERATION AND ADDITION OF AMENDMENTS, THEN SEED IN TWO DIRECTIONS TO DISTRIBUTE SEED EVENLY OVER ENTIRE AREA...
2. IF CHANGES ARE TO BE MADE TO SEED MIX BASED ON SITE CONDITIONS THEN APPROVAL MUST BE PROVIDED BY CITY ENVIRONMENTAL PLANNER...

UTILITY NOTES

- 1. THE LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER PUBLIC OR PRIVATE AGENCY NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION...
2. THIS DRAWING IS A PART OF A COMPLETE SET OF BID DOCUMENTS, SPECIFICATIONS, ADDITIONAL DRAWINGS, AND EXHIBITS...
3. THE LOCATION OF THE ALL UNDERGROUND UTILITIES ARE LOCATED ON THE ENGINEERING DRAWINGS FOR THIS PROJECT...

CAUTION UTILITIES EXIST UNDER CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THEIR LOCATION PRIOR TO CONSTRUCTION.

UPLAND POLLINATOR & HABITAT PLANTINGS AND UPLAND POLLINATOR AND HABITAT BUFFER PLANTINGS

IF TO BE INSTALLED SEPTEMBER THROUGH APRIL, SEE DESIGNATED AREAS IN ACCORDANCE WITH FORT COLLINS SEED NOTES. IF TO BE INSTALLED MAY THROUGH AUGUST, PLANT AS PLUGS SPACED 6'-11" O.C.

Table of Ornamental Grass Seed and Perennials. Includes species like Andropogon gerardii, Bouteloua curtipendula, and various grasses and flowering plants.

RIPARIAN POLLINATOR AND HABITAT PLANTINGS

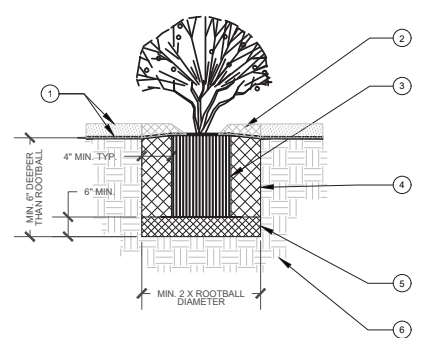
IF TO BE INSTALLED SEPTEMBER THROUGH APRIL, SEE DESIGNATED AREAS IN ACCORDANCE WITH FORT COLLINS SEED NOTES. IF TO BE INSTALLED MAY THROUGH AUGUST, PLANT AS PLUGS SPACED 6'-11" O.C.

Table of Ornamental Grass Seed and Perennials. Includes species like Carex nebrascensis, Carex praeegracilis, and various grasses and flowering plants.

WETLAND POLLINATOR & HABITAT PLANTINGS

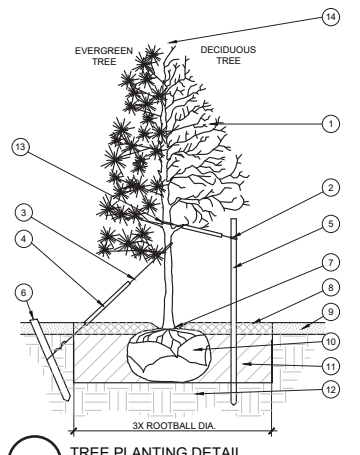
IF TO BE INSTALLED SEPTEMBER THROUGH APRIL, SEE DESIGNATED AREAS IN ACCORDANCE WITH FORT COLLINS SEED NOTES. IF TO BE INSTALLED MAY THROUGH AUGUST, PLANT AS PLUGS SPACED 6'-11" O.C.

Table of Grass Seed and Perennials. Includes species like Carex nebrascensis, Carex praeegracilis, and various grasses and flowering plants.

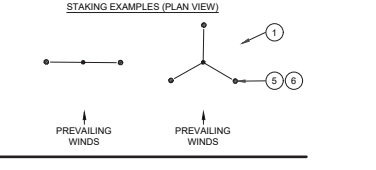


- 1. FINISH GRADE. SEE PLANTING PLAN FOR GROUND COVER TREATMENT.
2. SHREDDED BARK MULCH, 3" MIN. DEPTH, ROUGHLY THE EXTENTS OF ROOTBALL.
3. PLANT ROOT BALL. SET TOP ROOTBALL 2" ABOVE ADJACENT GRADE...
4. BACKFILL MIX (PER PLANTING SPECIFICATIONS); AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS...
5. COMPACTED BACKFILL MIX (75%).
6. UNDISTURBED NATIVE SOIL.

1 SHRUB AND PERENNIAL DETAIL SCALE: NOT TO SCALE



- 1. TREE CANOPY.
2. NYLON TREE STRAPS AT ENDS OF WIRES. SECURE TO STAKE OR DEADEN WITH NAILS.
3. 12 GAUGE GALVANIZED WIRE. SECURE TO TRUNK, JUST ABOVE LOWEST MAJOR BRANCHES.
4. 24" X 3/4" P.V.C. MARKERS OVER WIRES.
5. PRESSURE-TREATED WOOD STAKE, 2" DIA. EXTEND STAKES 12" MIN. INTO UNDISTURBED SOIL.
6. PRESSURE-TREATED WOOD DEADEN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
7. TRUNK FLARE.
8. WOOD MULCH TREE RING 3" DIA MIN. TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 3" OF TRUNK.
9. FINISH GRADE. SEE PLANTING PLAN FOR GROUND COVER TREATMENT.
10. ROOT BALL-SEE NOTE 3, THIS DETAIL.
11. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
12. UNDISTURBED NATIVE SOIL.
13. SOFT VELCRO, OR OTHER FABRIC WRAP.
14. CENTRAL LEADER, SEE PLANTING NOTES.



2 TREE PLANTING DETAIL SCALE: NOT TO SCALE

Galloway 5265 Ronald Reagan Blvd., Suite 210, Johnstown, CO 80534, 970.800.3300, GallowayUS.com

PRELIMINARY NOT FOR BIDDING NOT FOR CONSTRUCTION

COPYRIGHT THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY.



MARS LANDING PROJECT DEVELOPMENT PLAN FORT COLLINS, CO

Table with 4 columns: #, Date, Issue / Description, Init. Multiple empty rows for tracking changes.

Project No: GNM00008 Drawn By: AS Checked By: SRA Date: 07.28.2021

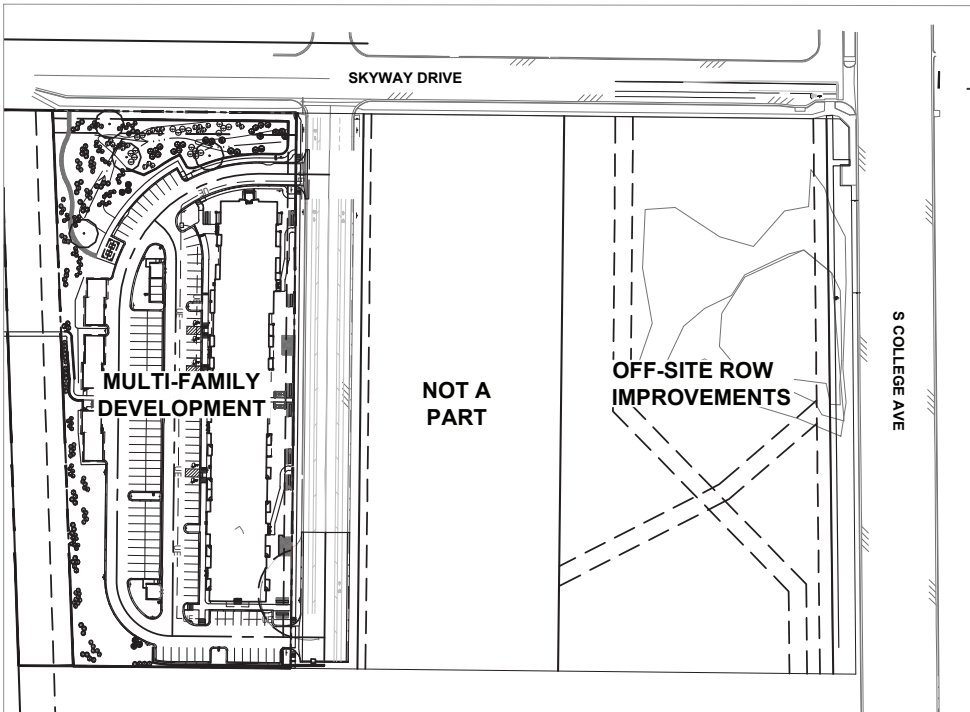
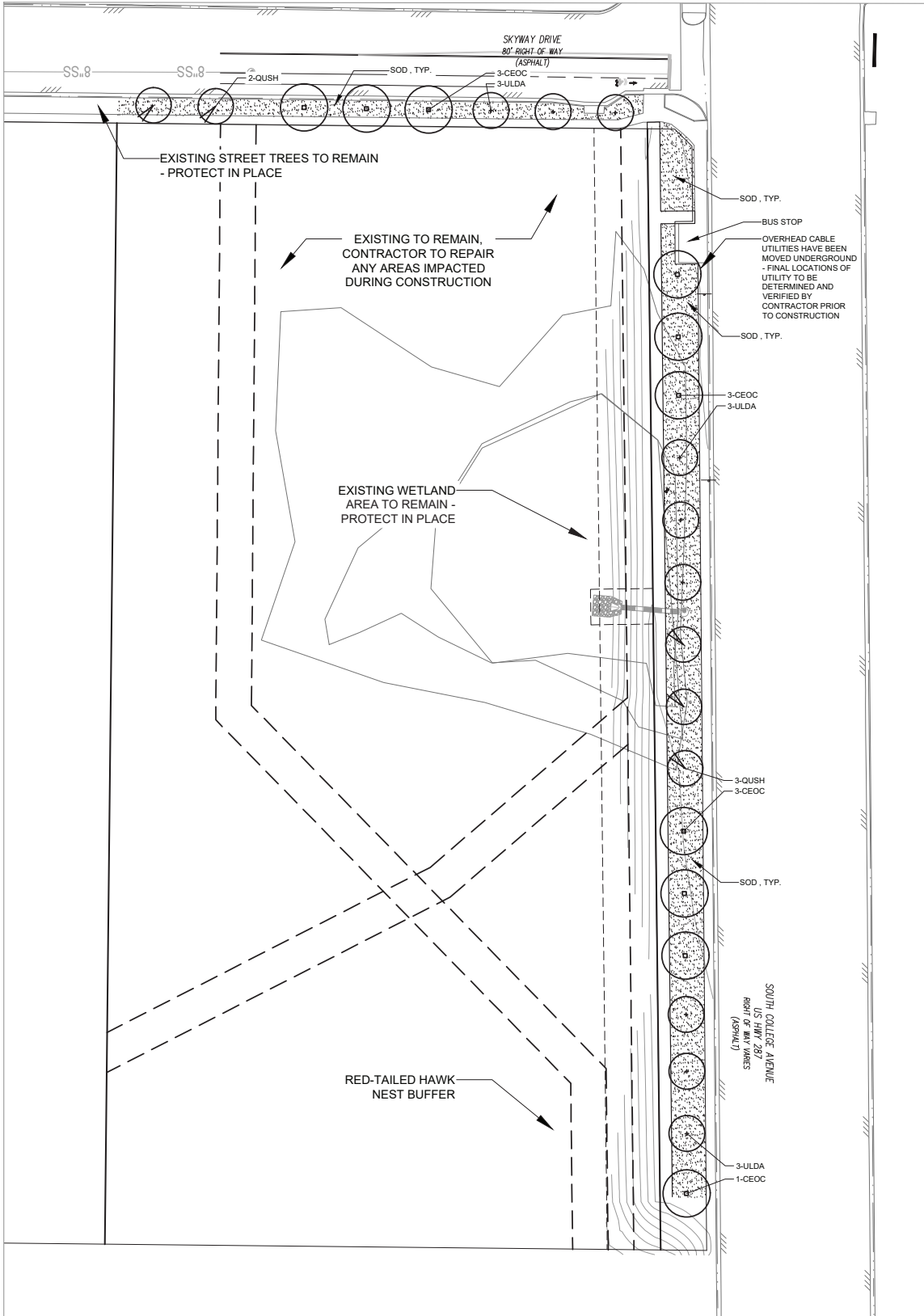
LANDSCAPE NOTES AND DETAILS

L1.3

CITY OF FORT COLLINS STREET TREE NOTE

STREET TREE NOTES:
 1. A PERMIT MUST BE OBTAINED FROM THE CITY FORESTER BEFORE ANY TREES OR SHRUBS AS NOTED ON THIS PLAN ARE PLANTED, PRUNED OR REMOVED IN THE PUBLIC RIGHT-OF-WAY. THIS INCLUDES ZONES BETWEEN THE SIDEWALK AND CURB, MEDIANS AND OTHER CITY PROPERTY. THIS PERMIT SHALL APPROVE THE LOCATION AND SPECIES TO BE PLANTED. FAILURE TO OBTAIN THIS PERMIT IS A VIOLATION OF THE CITY OF FORT COLLINS CODE SUBJECT TO CITATION (SECTION 27-31) AND MAY ALSO RESULT IN REPLACING OR RELOCATING TREES AND A HOLD ON CERTIFICATE OF OCCUPANCY.

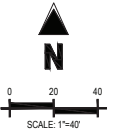
CAUTION
 UTILITIES EXIST WITHIN CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THEIR LOCATION PRIOR TO CONSTRUCTION.



KEY MAP
 SCALE: 1" = 100'

PLANTING LEGEND

SYM	BOTANICAL NAME	COMMON NAME	PLANTING SIZE	PLANTING DATE	PLANTING METHOD
⊙	DIKICUSUS TRIFL.				
⊙	3-CEOC	CL'S OCCIDENTALIS	2" CAL. B&B	6/24/21	L
⊙	3-ULDA	SM. V. DAVIDIANA 'COCOLINTA'	2" CAL. USB	4/19/21	L
⊙	3-QUSH	QUINQUEFOLIOLENS	2" CAL. B&B	4/19/21	L
⊙	3-SOD	SODIUM			
⊙	MISC. ANEMONES				



Galloway
 5265 Ronald Reagan Blvd., Suite 210
 Johnstown, CO 80534
 970.800.3300
 GallowayUS.com

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNM000008
 Drawn By: AS
 Checked By: SRA
 Date: 07.28.2021

LANDSCAPE PLAN

L1.4

© GallowayUS.com | Fort Collins - 02/20/2021 | Mars Landing Project (202108) | L1.4 Landscape Plan - 04/13/2021

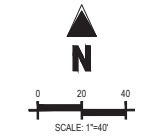
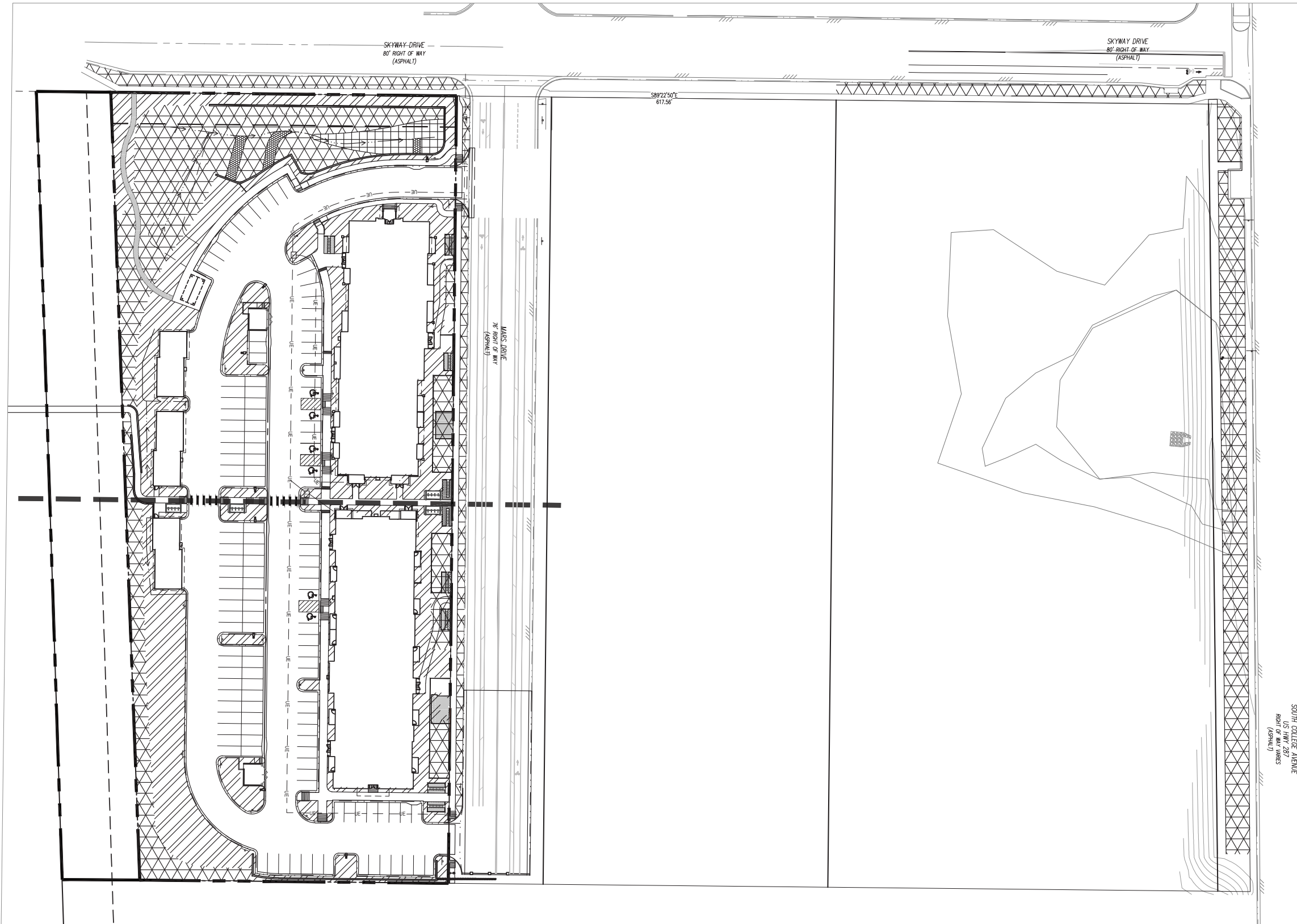
CITY OF FORT COLLINS STREET TREE NOTE

STREET TREE NOTES:
 1. A PERMIT MUST BE OBTAINED FROM THE CITY FORESTER BEFORE ANY TREES OR SHRUBS AS NOTED ON THIS PLAN ARE PLANTED, PRUNED OR REMOVED IN THE PUBLIC RIGHT-OF-WAY. THIS INCLUDES ZONES BETWEEN THE SIDEWALK AND CURB, MEDIANS AND OTHER CITY PROPERTY. THIS PERMIT SHALL APPROVE THE LOCATION AND SPECIES TO BE PLANTED. FAILURE TO OBTAIN THIS PERMIT IS A VIOLATION OF THE CITY OF FORT COLLINS CODE SUBJECT TO CITATION (SECTION 27-31) AND MAY ALSO RESULT IN REPLACING OR RELOCATING TREES AND A HOLD ON CERTIFICATE OF OCCUPANCY.

HYDROZONE CHART

HYDROZONE	AREA	WATER NEEDS	ANNUAL WATER USE
HIGH HYDROZONE	0 SQUARE FEET	18 GALLONS / SQUARE FEET / SEASON	0 GALLONS
MODERATE HYDROZONE	23,811 SQUARE FEET	10 GALLONS / SQUARE FEET / SEASON	238,110 GALLONS
LOW HYDROZONE	65,583 SQUARE FEET	3 GALLONS / SQUARE FEET / SEASON	590,247 GALLONS
VERY LOW HYDROZONE	26,239 SQUARE FEET	0 GALLONS / SQUARE FEET / SEASON	0 GALLONS

TOTAL: 115,633 SQUARE FEET 7 GALLONS / SQUARE FEET / SEASON 828,357 GALLONS
 NOTE: ALL PLANTING BEDS NOT LABELED "MODERATE HYDROZONE" ARE CONSIDERED LOW HYDROZONE.



PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
 PROJECT DEVELOPMENT PLAN
 FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNM000008
 Drawn By: AS
 Checked By: SRA
 Date: 07.28.2021

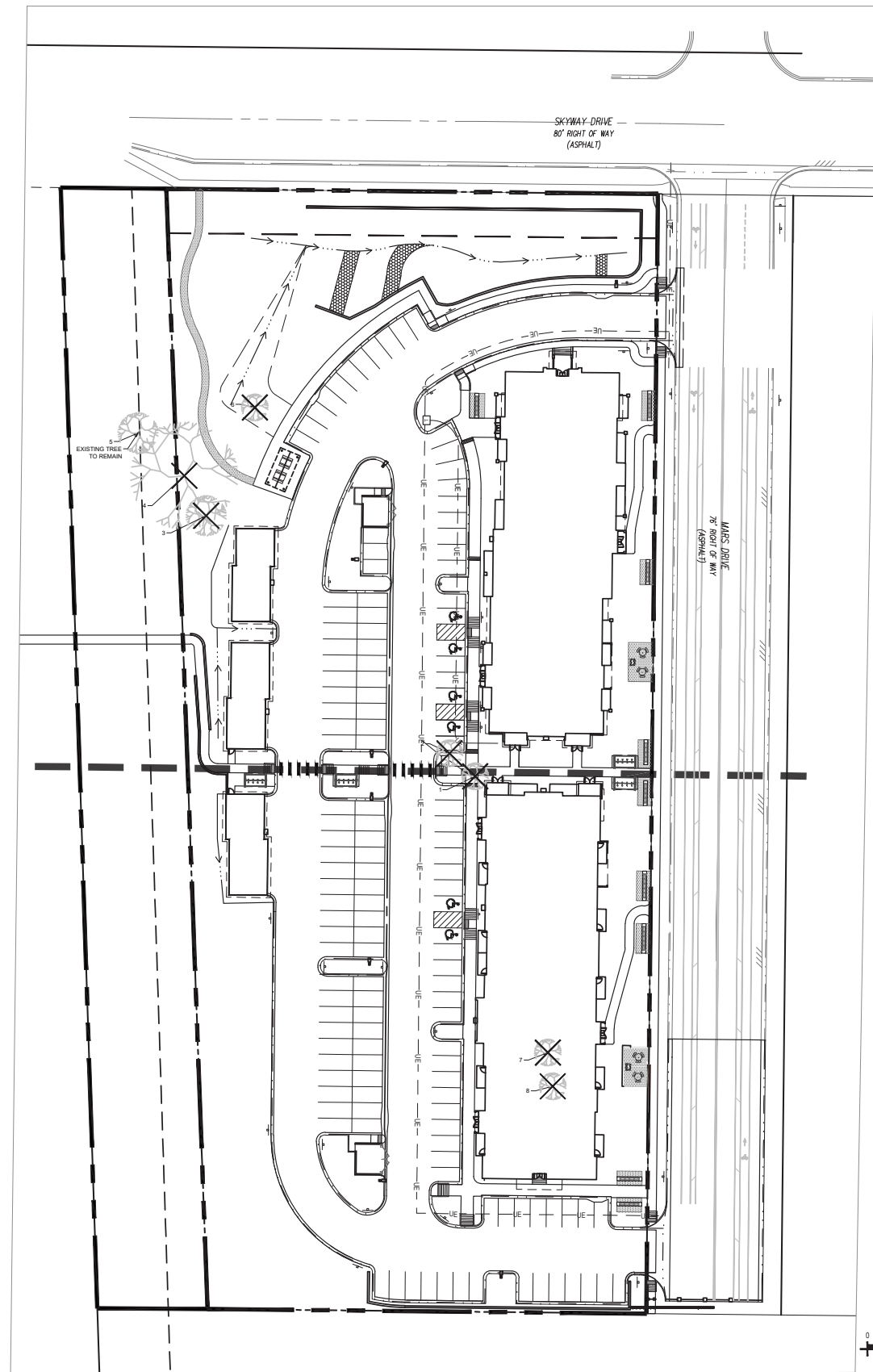
HYDROZONE PLAN

L1.5

© GallowayUS.com. All rights reserved. Mars Landing Project Development Plan - Hydrozone Plan - 07/28/2021

CITY OF FORT COLLINS STREET TREE NOTE

STREET TREE NOTES:
 1. A PERMIT MUST BE OBTAINED FROM THE CITY FORESTER BEFORE ANY TREES OR SHRUBS AS NOTED ON THIS PLAN ARE PLANTED, PRUNED OR REMOVED IN THE PUBLIC RIGHT-OF-WAY. THIS INCLUDES ZONES BETWEEN THE SIDEWALK AND CURB, MEDIANS AND OTHER CITY PROPERTY. THIS PERMIT SHALL APPROVE THE LOCATION AND SPECIES TO BE PLANTED. FAILURE TO OBTAIN THIS PERMIT IS A VIOLATION OF THE CITY OF FORT COLLINS CODE SUBJECT TO CITATION SECTION 27-31) AND MAY ALSO RESULT IN REPLACING OR RELOCATING TREES AND A HOLD ON CERTIFICATE OF OCCUPANCY.



Tree Inventory and Mitigation Information: Mars Landing E.C.D.E Sean Adamson - Galloway

#	Species	Diameter	Condition	Forestry Mitigation	Environmental Mitigation	Notes
1	Q. macrocarpa	12"	FAIR	0	0	
2	P. pennsylvanicus	8"	FAIR	0	0	
3	P. pennsylvanicus	10"	FAIR	0	0	
4	P. pennsylvanicus	10"	FAIR	0	0	
5	P. pennsylvanicus	10"	FAIR	0	0	
6	P. pennsylvanicus	10"	FAIR	0	0	
7	P. pennsylvanicus	10"	FAIR	0	0	
8	P. pennsylvanicus	10"	FAIR	0	0	
9	P. pennsylvanicus	10"	FAIR	0	0	
10	P. pennsylvanicus	10"	FAIR	0	0	
11	P. pennsylvanicus	10"	FAIR	0	0	
12	P. pennsylvanicus	10"	FAIR	0	0	

FORESTRY MITIGATION REQUIRED- 7 UPSIZED TREES
ENVIRONMENTAL MITIGATION REQUIRED- 2 UPSIZED TREES PLANTED IN BUFFER (NHBZ)

MITIGATION DATA:
EXISTING:
 1.50 ACRES LOWER ECOLOGICAL VALUE UPLANDS
 0.014 ACRES OF LOWER ECOLOGICAL VALUE WETLANDS HABITAT

PROPOSED:
 UPLAND BUFFER: 0.41 AC
 UPLAND POLLINATOR: 0.34 AC
 RIPARIAN: 0.14 AC
 WETLAND: 0.043 AC
TOTAL PROPOSED: 0.913 AC
 REMAINING 0.601 AC OF REQUIRED MITIGATION IS MADE UP WITH HIGHER QUALITY PLANTINGSHABITAT

CITY OF FORT COLLINS TREE PROTECTION NOTES:

- ALL EXISTING TREES WITHIN THE LIMITS OF THE DEVELOPMENT AND WITHIN ANY NATURAL AREA BUFFER ZONES SHALL REMAIN AND BE PROTECTED UNLESS NOTED ON THESE PLANS FOR REMOVAL.
- WITHIN THE DRIP LINE OF ANY PROTECTED EXISTING TREE, THERE SHALL BE NO CUT OR FILL OVER A FOUR-INCH DEPTH UNLESS A QUALIFIED ARBORIST OR FORESTER HAS EVALUATED AND APPROVED THE DISTURBANCE.
- ALL PROTECTED EXISTING TREES SHALL BE PRUNED TO THE CITY OF FORT COLLINS FORESTRY STANDARDS. TREE PRUNING AND REMOVAL SHALL BE PERFORMED BY A BUSINESS THAT HOLDS A CURRENT CITY OF FORT COLLINS ARBORIST LICENSE WHERE REQUIRED BY CODE.
- PRIOR TO AND DURING CONSTRUCTION, BARRIERS SHALL BE ERECTED AROUND ALL PROTECTED EXISTING TREES WITH SUCH BARRIERS TO BE OF ORANGE FENCING A MINIMUM OF FOUR (4) FEET IN HEIGHT, SECURED WITH METAL T-POSTS, NO CLOSER THAN SIX (6) FEET FROM THE TRUNK OR ONE-HALF (1/2) OF THE DRIP LINE, WHICHEVER IS GREATER. THERE SHALL BE NO STORAGE OR MOVEMENT OF EQUIPMENT, MATERIAL, DEBRIS OR FILL WITHIN THE FENCED TREE PROTECTION ZONE.
- DURING THE CONSTRUCTION STAGE OF DEVELOPMENT, THE APPLICANT SHALL PREVENT THE CLEANING OF EQUIPMENT OR MATERIAL OR THE STORAGE AND DISPOSAL OF WASTE MATERIAL SUCH AS PAINTS, OILS, SOLVENTS, ASPHALT, CONCRETE, MOTOR OIL OR ANY OTHER MATERIAL HARMFUL TO THE LIFE OF A TREE WITHIN THE DRIP LINE OF ANY PROTECTED TREE OR GROUP OF TREES.
- NO DAMAGING ATTACHMENT, WIRES, SIGNS OR PERMITS MAY BE FASTENED TO ANY PROTECTED TREE.
- LARGE PROPERTY AREAS CONTAINING PROTECTED TREES AND SEPARATED FROM CONSTRUCTION OR LAND CLEARING AREAS, ROAD RIGHTS-OF-WAY AND UTILITY EASEMENTS MAY BE "RIBBONED OFF" RATHER THAN ERECTING PROTECTIVE FENCING AROUND EACH TREE AS REQUIRED IN SUBSECTION (G)(3) ABOVE. THIS MAY BE ACCOMPLISHED BY PLACING METAL T-POST STAKES A MAXIMUM OF FIFTY (50) FEET APART AND TYING RIBBON OR ROPE FROM STAKE-TO-STAKE ALONG THE OUTSIDE PERIMETERS OF SUCH AREAS BEING CLEARED.
- THE INSTALLATION OF UTILITIES, IRRIGATION LINES OR ANY UNDERGROUND FIXTURE REQUIRING EXCAVATION DEEPER THAN SIX (6) INCHES SHALL BE ACCOMPLISHED BY BORING UNDER THE ROOT SYSTEM OF PROTECTED EXISTING TREES AT A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES. THE AUGER DISTANCE IS ESTABLISHED FROM THE FACE OF THE TREE (OUTER BARK) AND IS SCALED FROM TREE DIAMETER AT BREAST HEIGHT AS DESCRIBED IN THE CHART BELOW:

TREE DIAMETER AT BREAST HEIGHT (INCHES)	AUGER DISTANCE FROM FACE OF TREE (FEET)
0-2	1
3-4	2
5-9	5
10-14	10
15-19	12
OVER 19	15

9. ALL TREE REMOVAL SHOWN SHALL BE COMPLETED OUTSIDE OF THE SONGBIRD NESTING SEASON (FEB 1 - JULY 31) OR CONDUCT A SURVEY OF TREES ENSURING NO ACTIVE NESTS IN THE AREA.

TREE REMOVAL:

NO TREES SHALL BE REMOVED DURING THE SONGBIRD NESTING SEASON (FEBRUARY 1 TO JULY 31) WITHOUT FIRST HAVING A PROFESSIONAL ECOLOGIST OR WILDLIFE BIOLOGIST COMPLETE A NESTING SURVEY TO IDENTIFY ANY ACTIVE NESTS EXISTING ON THE PROJECT SITE. THE SURVEY SHALL BE SENT TO THE CITY ENVIRONMENTAL PLANNER. IF ACTIVE NESTS ARE FOUND, THE CITY WILL COORDINATE WITH RELEVANT STATE AND FEDERAL REPRESENTATIVES TO DETERMINE WHETHER ADDITIONAL RESTRICTIONS ON TREE REMOVAL AND CONSTRUCTION APPLY.

Galloway
 5265 Ronald Reagan Blvd., Suite 210
 Johnstown, CO 80534
 970.800.3300
GallowayUS.com

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY. AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: AS
 Checked By: SRA
 Date: 07.28.2021

TREE PRESERVATION PLAN

L1.6

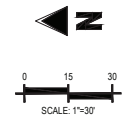
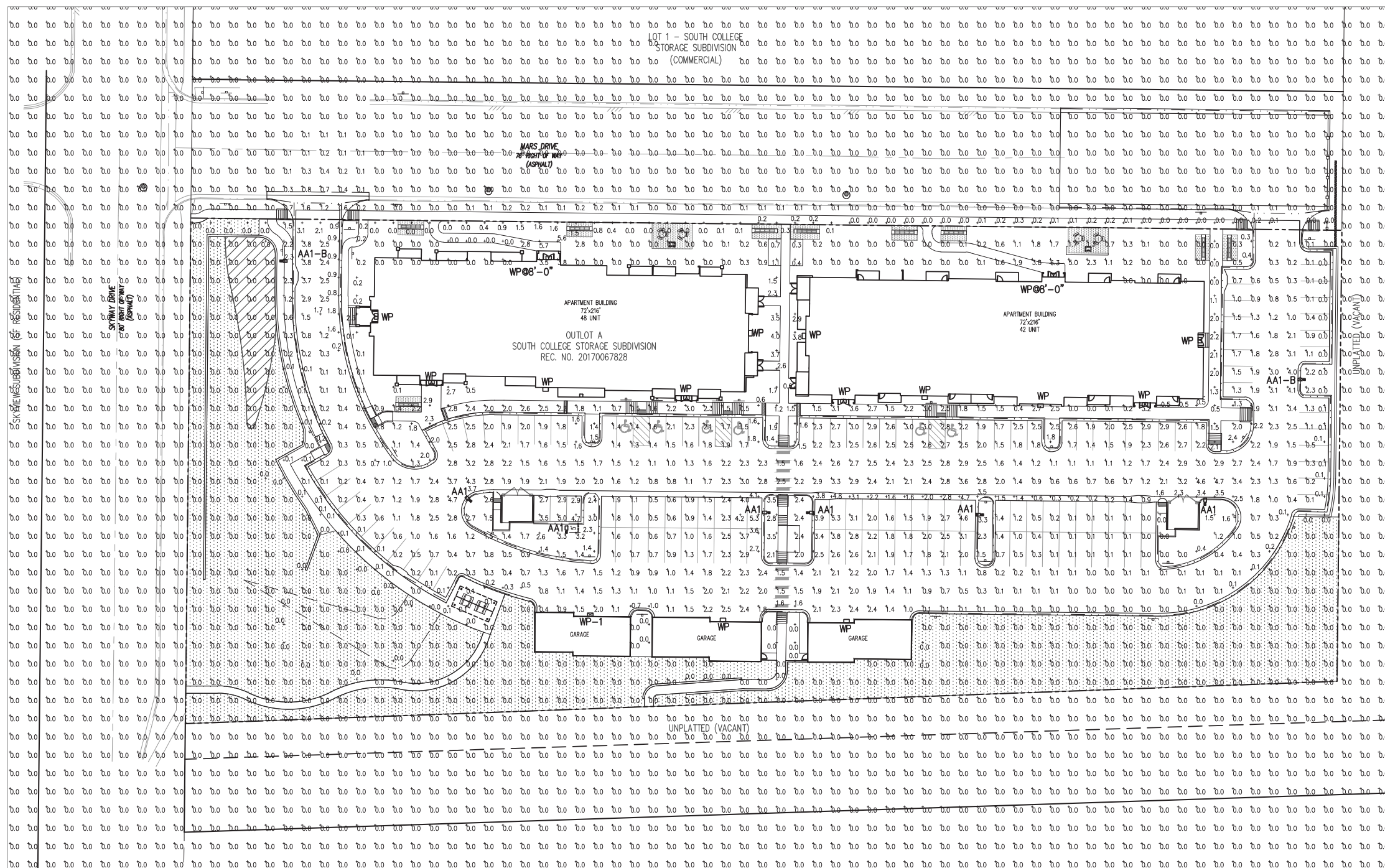
G:\Projects\2021\072821\Mars Landing\072821\Mars_Landing_Plan_Arborist_Signage.dwg, Sean Adamson, 8/3/2021

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN
FORT COLLINS, CO



1 PHOTOMETRIC SITE PLAN
SCALE: 1=30'-0"

LABEL	UNITS	AVG	MIN.*	MAX	MIN
PARKING LOT AREA	FC	1.50	1.0	5.3	0.0
RESIDENTIAL AREAS	FC	1.56	0.2	5.0	0.0
WITHIN PROPERTY LINE	FC	0.92	N.A.	6.3	0.0

* PER FORT COLLINS LAND USE, 3.24 SITE LIGHTING, (C) LIGHTING LEVELS

MARK	SYMBOL	QTY	LAMP	HEIGHT	LLF	LUMENS	MODEL #	DESCRIPTION	COLOR TEMPERATURE
AA1-BLC		2	LED	17'-6" POLE	1.0	5,974	DSX1 LED 40C 700 30K BLC MVOLT DOBXD	SINGLE HEAD LED FULL CUT-OFF LUMINAIRE, TYPE BALK LIGHT CONTROL, BRONZE COLOR, MOUNTED ON POLE #SS15-5-4C-DM19AS-FBC-100BXD	3000K
AA1		6	LED	17'-6" POLE	1.0	10,120	DSX1 LED 40C 700 30K TFM MVOLT DOBXD	SINGLE HEAD LED FULL CUT-OFF LUMINAIRE, TYPE TFM, BRONZE COLOR, MOUNTED ON POLE #SS15-5-4C-DM19AS-FBC-100BXD	3000K
WP		15	LED	14'-0" WALL	1.0	5,078	DSXMT LED 20C 700 30K T3M MVOLT DOBXD	LED WALL LUMINAIRE, FULL CUT-OFF, 20 LEDS, TYPE 3M, DARK BRONZE COLOR, MOUNTED AT 14'-0" ABOVE GRADE UNLESS OTHERWISE NOTED	3000K
WP-1		1	LED	14'-0" WALL	1.0	2,614	DSXMT LED 10C 700 30K TFM MVOLT DOBXD	LED WALL LUMINAIRE, FULL CUT-OFF, 10 LEDS, TYPE TFM, DARK BRONZE COLOR, MOUNTED AT 14'-0" ABOVE GRADE UNLESS OTHERWISE NOTED	3000K

CAUTION - NOTICE TO CONTRACTOR

- 1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- 4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



#	Date	Issue / Description	Init.

Project No: GNK000008
Drawn By: DBC
Checked By: JEP
Date: 07.21.2021

PHOTOMETRIC PLAN

PP1.0

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING PROJECT DEVELOPMENT PLAN FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: DBC
 Checked By: JEP
 Date: 07.21.2021

PHOTOMETRIC DETAILS

PP1.1

D-Series Size 1 LED Wall Luminaire

Capable Luminaire: **FIXTURE WP & WP1**

Specifications Luminaire

Width: 13-3/4" (35.4 mm)	Weight: 12 lbs (5.4 kg)
Depth: 10" (25.4 mm)	Height: 6-3/8" (16.5 mm)

Back Box (BBW, ELCW)

Width: 13-3/4" (35.4 mm)	BBW Weight: 5 lbs (2.3 kg)
Depth: 4" (102 mm)	ELCW Weight: 10 lbs (4.5 kg)
Height: 6-3/8" (16.5 mm)	

Introduction
 The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

Ordering Information EXAMPLE: **DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD**

Series	LEDs	Drive Current	Color Temperature	Beam Spread	Mounting	Control System	Shipped In	Shipped Included
DSXW1 LED	PK 10/100 1000 1000 mil (1.6")	20C 300 mA	40K 10000K	T35 Type II Sharp	WP1	DSXW1	Shipped In	PK DSG 15.5" mounting height (15.5") P8 15.5" mounting height (15.5") P8FCV 15.5" mounting height (15.5") P8FCV 15.5" mounting height (15.5")

Accessories

- DSXW1A - Mounting plate for WP1
- DSXW1B - Mounting plate for WP
- DSXW1C - Mounting plate for WP1
- DSXW1D - Mounting plate for WP
- DSXW1E - Mounting plate for WP1
- DSXW1F - Mounting plate for WP
- DSXW1G - Mounting plate for WP1
- DSXW1H - Mounting plate for WP
- DSXW1I - Mounting plate for WP1
- DSXW1J - Mounting plate for WP
- DSXW1K - Mounting plate for WP1
- DSXW1L - Mounting plate for WP
- DSXW1M - Mounting plate for WP1
- DSXW1N - Mounting plate for WP
- DSXW1O - Mounting plate for WP1
- DSXW1P - Mounting plate for WP
- DSXW1Q - Mounting plate for WP1
- DSXW1R - Mounting plate for WP
- DSXW1S - Mounting plate for WP1
- DSXW1T - Mounting plate for WP
- DSXW1U - Mounting plate for WP1
- DSXW1V - Mounting plate for WP
- DSXW1W - Mounting plate for WP1
- DSXW1X - Mounting plate for WP
- DSXW1Y - Mounting plate for WP1
- DSXW1Z - Mounting plate for WP

Notes:
 1. JVC 1000 is not available with P8, P8FCV or P8FCVFC.
 2. DSXW1A through DSXW1Z are not available with WP1.
 3. Single head WP1 requires 15.5, 27.7 or 34.1 mounting height. Double head WP1 requires 20.8, 24.8 or 40.0 mounting height.
 4. Only available with 20C, 2700K or 10000K. Not available with P8, P8FCV, P8FCVFC, or P8FCVFCFC.
 5. Photometric (FO) requires DS, DSX, DSX2, 277 or 34.1 mounting height. Not available with non-standard light fixture (P8 or P8FCV).
 6. Back box ships mounted on frame. Cannot be field installed. Cannot be retrofitted or modified.
 7. Reference Mounting Sensor table on page 5.
 8. Cold weather (CWC) rated. Not compatible with control systems. Not available with WP1 mounting option. Not available with WP1 or 400 mounting height.
 9. Not available with ELCW.
 10. Not available with DSXW1Z.
 11. Not available with 400 mounting height.
 12. Not available with 400W.

POLES FOR AA1 & AA1-B

FEATURES & SPECIFICATIONS

INTENDED USE — Square straight steel pole for up to 39-foot mounting height.

CONSTRUCTION — Available grade, hot rolled, commercial-quality square steel tubing with a minimum yield of 50,000 psi (1.1 ksi) or 60,000 psi (1.4 ksi) strength, and a wall thickness of .1875" or .1787". Shunt is one piece with a full length longitudinal high-frequency electric resistance weld. Individually square to cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4, 5 and 6 inches.

Anchor base is fabricated from hot rolled carbon steel plate conforming to ASTM A36, that meets or exceeds a minimum yield strength of 36,000 psi. Base plate and shaft are circumferentially welded top and bottom. Base cover is finished to match pole.

A handhole having normal dimensions of 1" x 1" for all shafts. Included a cover with attachment screws. Top cap provided with all 6.5mm round and open top 3/16" pole.

Accessories are high strength galvanized, zinc-plated or stainless steel.

Flange Mounting Options:
 Flange Mounting: Precision laser cut, laser cut, and laser cut. (See table for details)
 Flange Mounting: Precision laser cut, laser cut, and laser cut. (See table for details)

Ordering Information Lead times may vary depending on options selected. Consult with your sales representative.

Series	Mounting Height (ft)	Shaft Diameter (in)	Material	Notes
SSS	17	4C	SSS	Example: SSS 20 SC DM 19 DDB

Notes:
 1. PT upper top pole includes top cap. When ordering lower mounting and all mounting for the same pole, indicate the mounting height for the shaft. The combination includes a standard end handle.
 2. The shunt length is not used for a specific location. Determine the location that is used before the handhole has been cut out of the base of the pole for mounting.
 3. Mount "1" or "2" to designate flange size (e.g. 1801802).

D-Series Size 1 LED Area Luminaire

Capable Luminaire: FIXTURES AA1 & AA1-B

Specifications Luminaire

Length: 33" (838 mm)	Width: 13" (330 mm)	Height: 7-3/8" (188 mm)	Weight (incl. base): 27 lbs (12.3 kg)
----------------------	---------------------	-------------------------	---------------------------------------

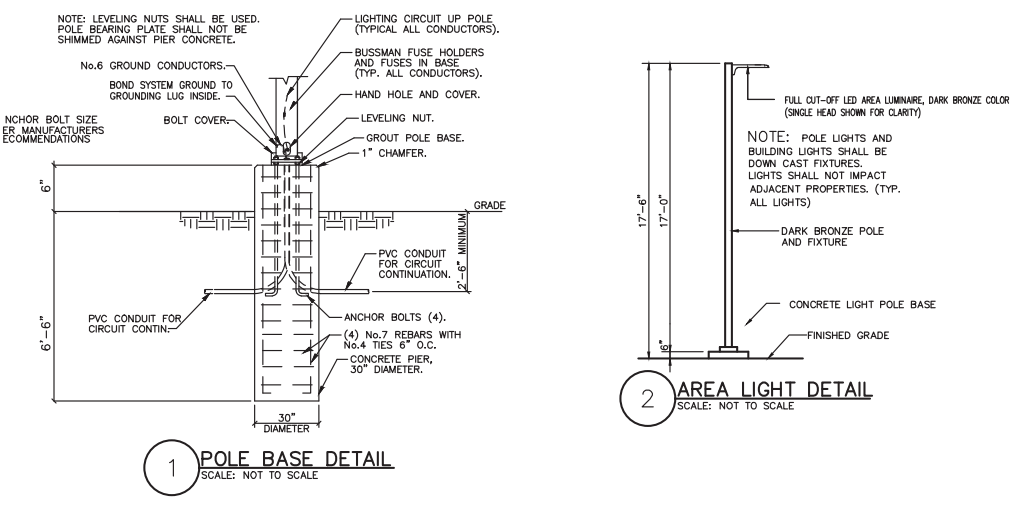
Introduction
 This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

Ordering Information EXAMPLE: **DSX1 LED 60C 1000 40K T3M MVOLT SPA DDBTXD**

Series	LEDs	Drive Current	Color Temperature	Beam Spread	Mounting	Control System	Shipped In	Shipped Included
DSX1 LED	PK 60/120 1000 1000 mil (1.6")	60C 300 mA	40K 10000K	T35 Type II Sharp	AA1	DSX1	Shipped In	PK DSG 15.5" mounting height (15.5") P8 15.5" mounting height (15.5") P8FCV 15.5" mounting height (15.5") P8FCV 15.5" mounting height (15.5")

Accessories

- DSX1A - Mounting plate for AA1
- DSX1B - Mounting plate for AA1-B
- DSX1C - Mounting plate for AA1
- DSX1D - Mounting plate for AA1-B
- DSX1E - Mounting plate for AA1
- DSX1F - Mounting plate for AA1-B
- DSX1G - Mounting plate for AA1
- DSX1H - Mounting plate for AA1-B
- DSX1I - Mounting plate for AA1
- DSX1J - Mounting plate for AA1-B
- DSX1K - Mounting plate for AA1
- DSX1L - Mounting plate for AA1-B
- DSX1M - Mounting plate for AA1
- DSX1N - Mounting plate for AA1-B
- DSX1O - Mounting plate for AA1
- DSX1P - Mounting plate for AA1-B
- DSX1Q - Mounting plate for AA1
- DSX1R - Mounting plate for AA1-B
- DSX1S - Mounting plate for AA1
- DSX1T - Mounting plate for AA1-B
- DSX1U - Mounting plate for AA1
- DSX1V - Mounting plate for AA1-B
- DSX1W - Mounting plate for AA1
- DSX1X - Mounting plate for AA1-B
- DSX1Y - Mounting plate for AA1
- DSX1Z - Mounting plate for AA1-B



© 2021 LITHONIA LIGHTING. ALL RIGHTS RESERVED. PHOTOGRAPHY BY GARY SCHROEDER FOR GALLOWAY. SEE GALLOWAY.COM FOR MORE INFORMATION.

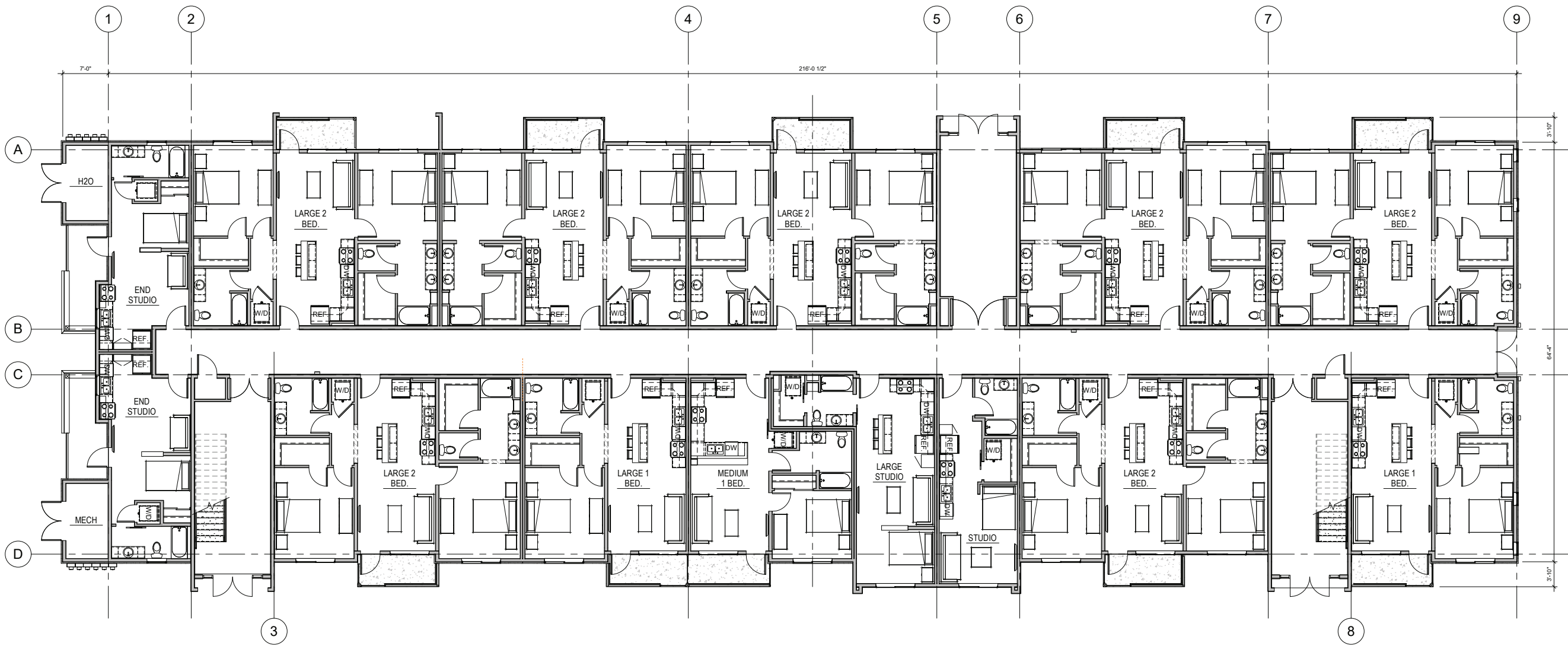
PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO



1 FIRST FLOOR
 1/8" = 1'-0"



#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

BUILDING A-42 - FIRST LEVEL

A1.10

P:\Projects\2021\060921\060921-01\060921-01-01\060921-01-01-01\060921-01-01-01-01.dwg
 06/09/2021 10:00:00 AM
 1/8" = 1'-0"

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

BUILDING A-42 -
 SECOND LEVEL

A1.11



1 SECOND FLOOR
 1/8" = 1'-0"

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

BUILDING A-42 -
 THIRD LEVEL

A1.12



1 THIRD FLOOR
 1/8" = 1'-0"

C:\Users\jcollins\Documents\2021\06\09\2021\A-42\THIRD FLOOR\THIRD FLOOR.dwg - 06/09/2021 10:54:41 AM

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE
 AND ARE THE PROPERTY OF GALLOWAY, AND MAY
 NOT BE DUPLICATED, DISCLOSED, OR
 REPRODUCED WITHOUT THE WRITTEN CONSENT
 OF GALLOWAY. COPYRIGHTS AND
 INFRINGEMENTS
 WILL BE ENFORCED AND PROSECUTED.



1 FIRST FLOOR
 1/8" = 1'-0"

MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No:	GNK000008
Drawn By:	DA
Checked By:	CW
Date:	06.09.2021

BUILDING A-48 -
 FIRST LEVEL

A1.20

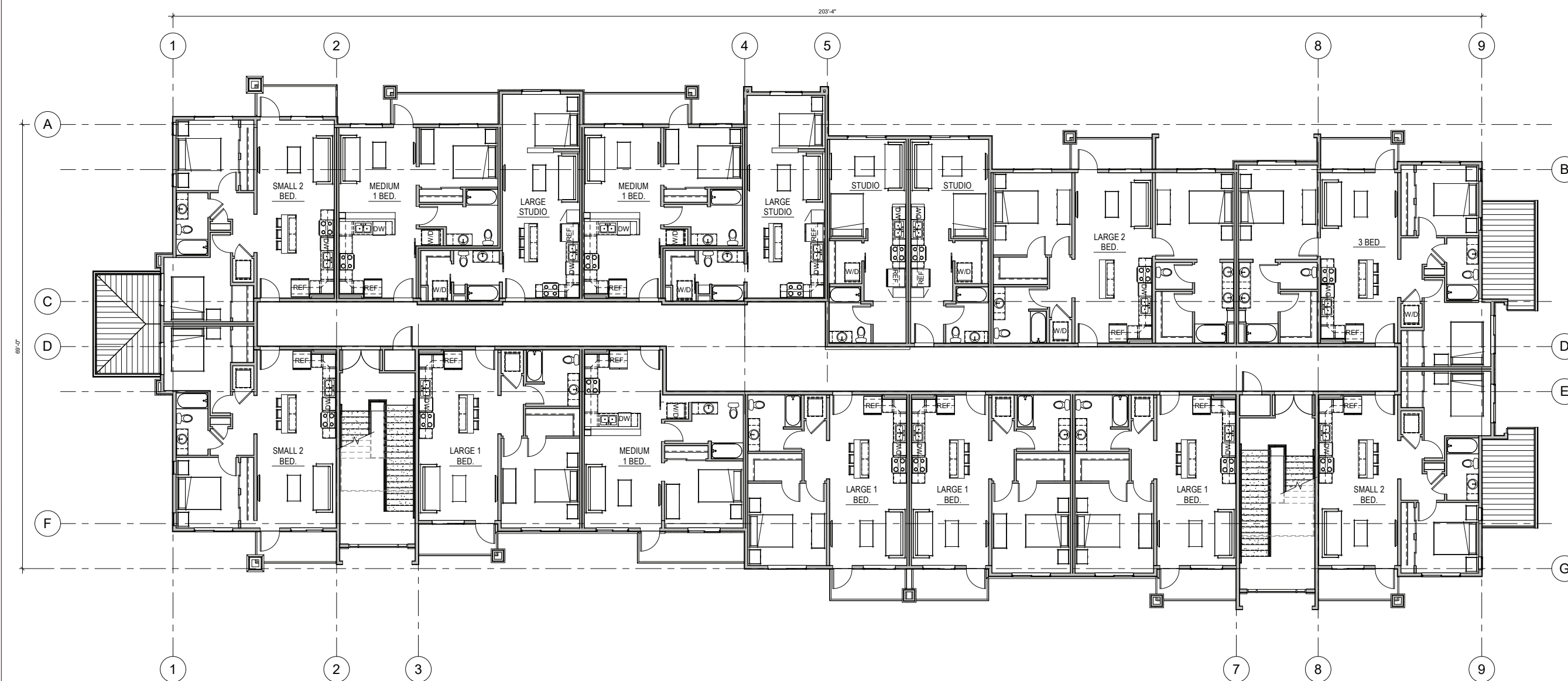
PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE
 AND ARE THE PROPERTY OF GALLOWAY, AND MAY
 NOT BE DUPLICATED, DISCLOSED, OR
 REPRODUCED WITHOUT THE WRITTEN CONSENT
 OF GALLOWAY. COPYRIGHTS AND
 INFRINGEMENTS
 WILL BE ENFORCED AND PROSECUTED.

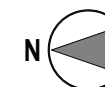


MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO



1 SECOND FLOOR
 1/8" = 1'-0"



#	Date	Issue / Description	Init.

Project No:	GNK000008
Drawn By:	DA
Checked By:	CW
Date:	06.09.2021

**BUILDING A-48 -
 SECOND LEVEL**

A1.21

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

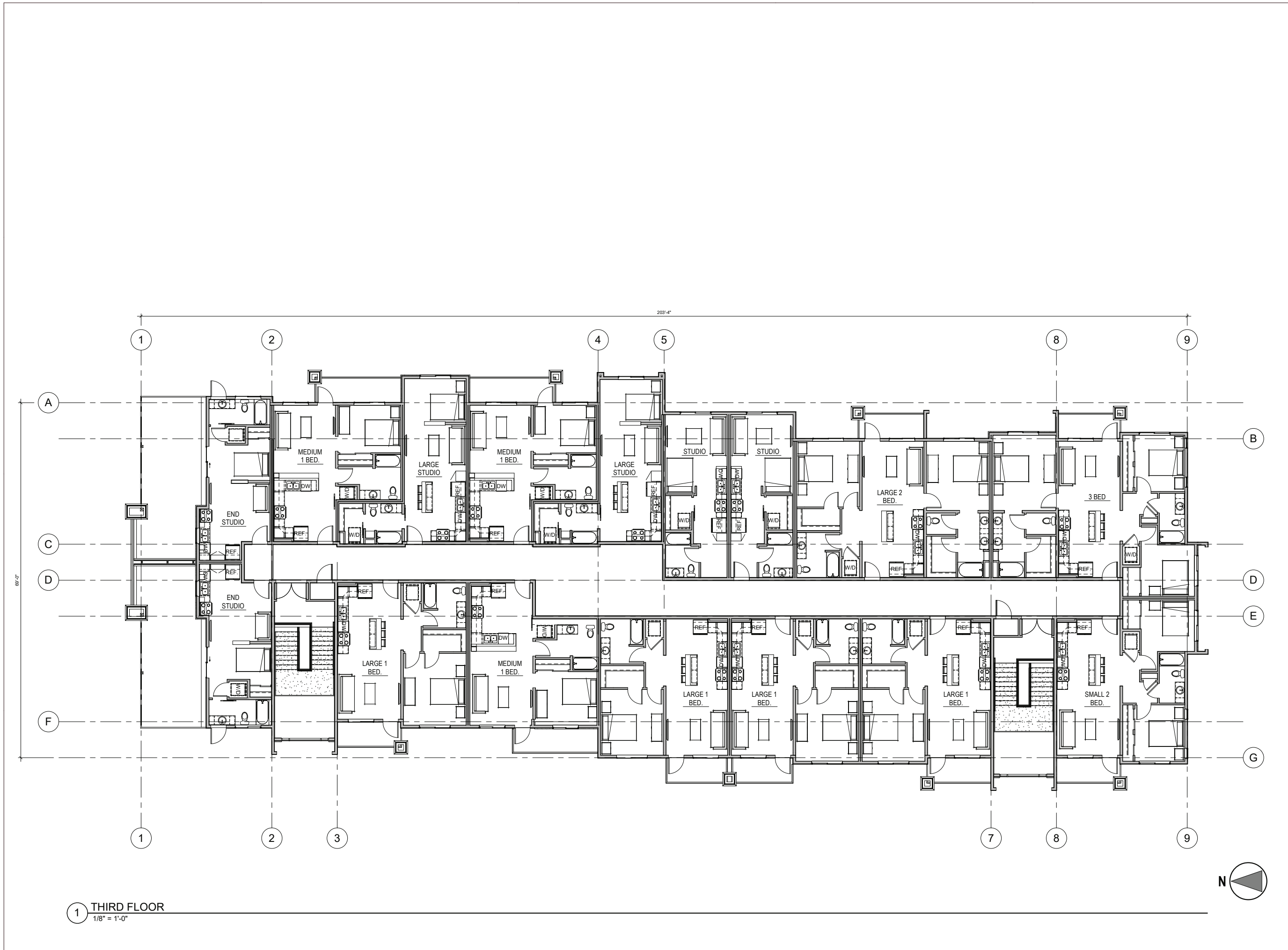
FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No:	GNK000008
Drawn By:	DA
Checked By:	CW
Date:	06.09.2021

BUILDING A-48 -
 THIRD LEVEL

A1.22

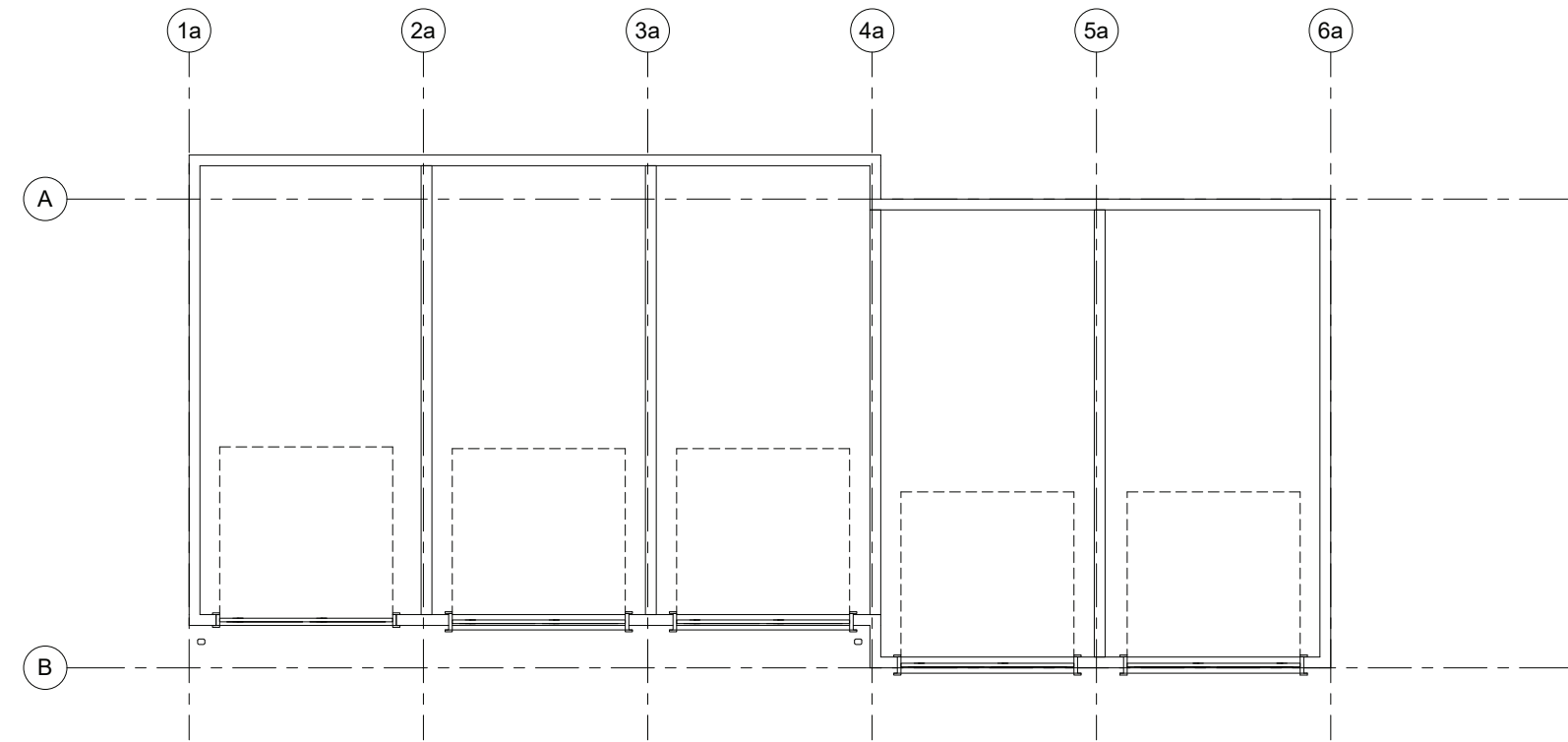


1 THIRD FLOOR
 1/8" = 1'-0"

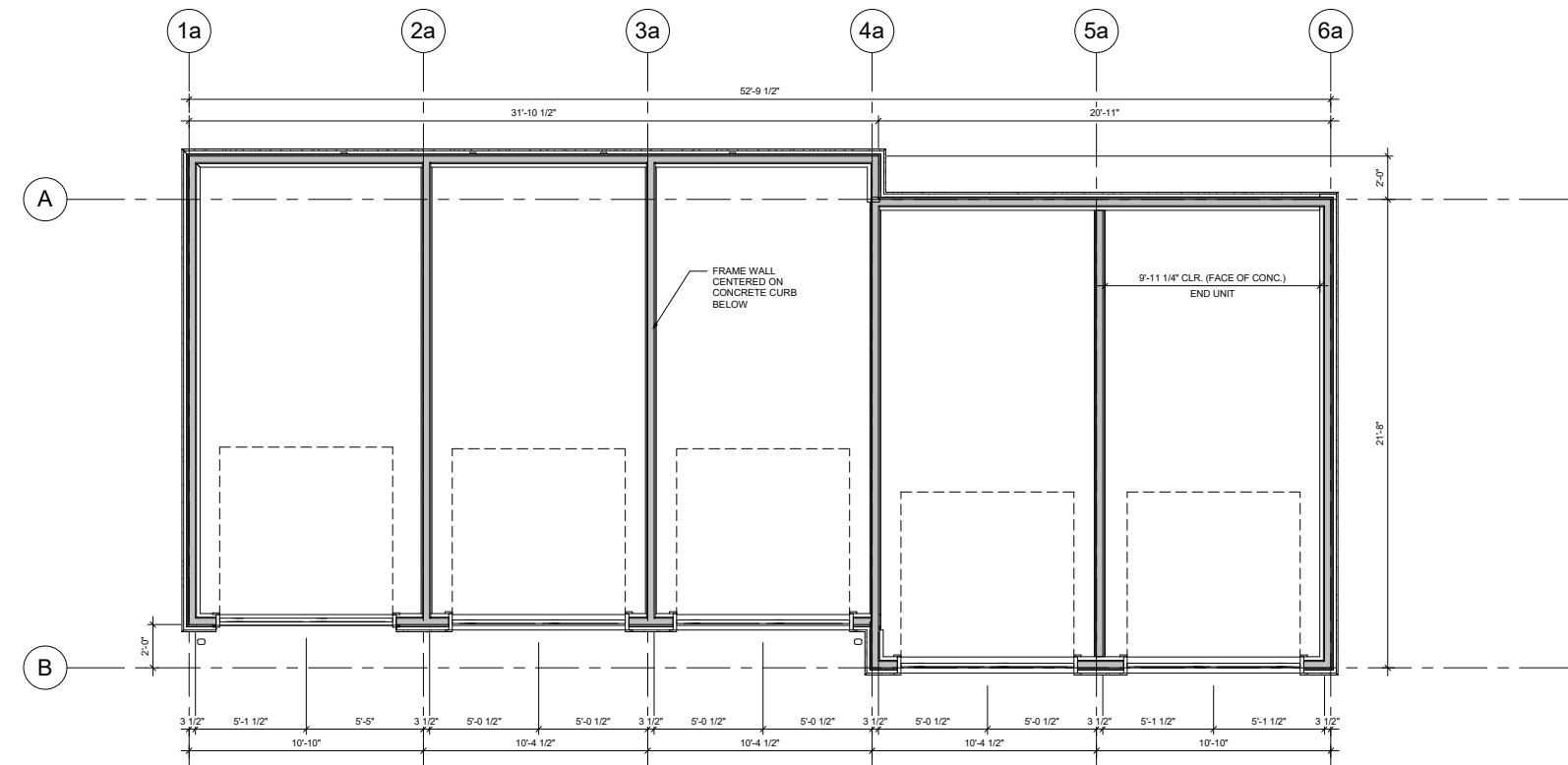
G:\Projects\A-48\A-48_T3RD\Floor Plans\A-48_T3RD_Floor Plan.dwg, 06/09/2021, 10:10:18 AM

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



2 GARAGE A - SLAB PLAN
 1/4" = 1'-0"



1 GARAGE A - 1ST LEVEL
 1/4" = 1'-0"

C:\Users\Galloway\OneDrive\Documents\Projects\2021\Garage A\1st Level\Garage A - 1st Level.dwg, 06/09/2021, 10:23:00 AM

MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

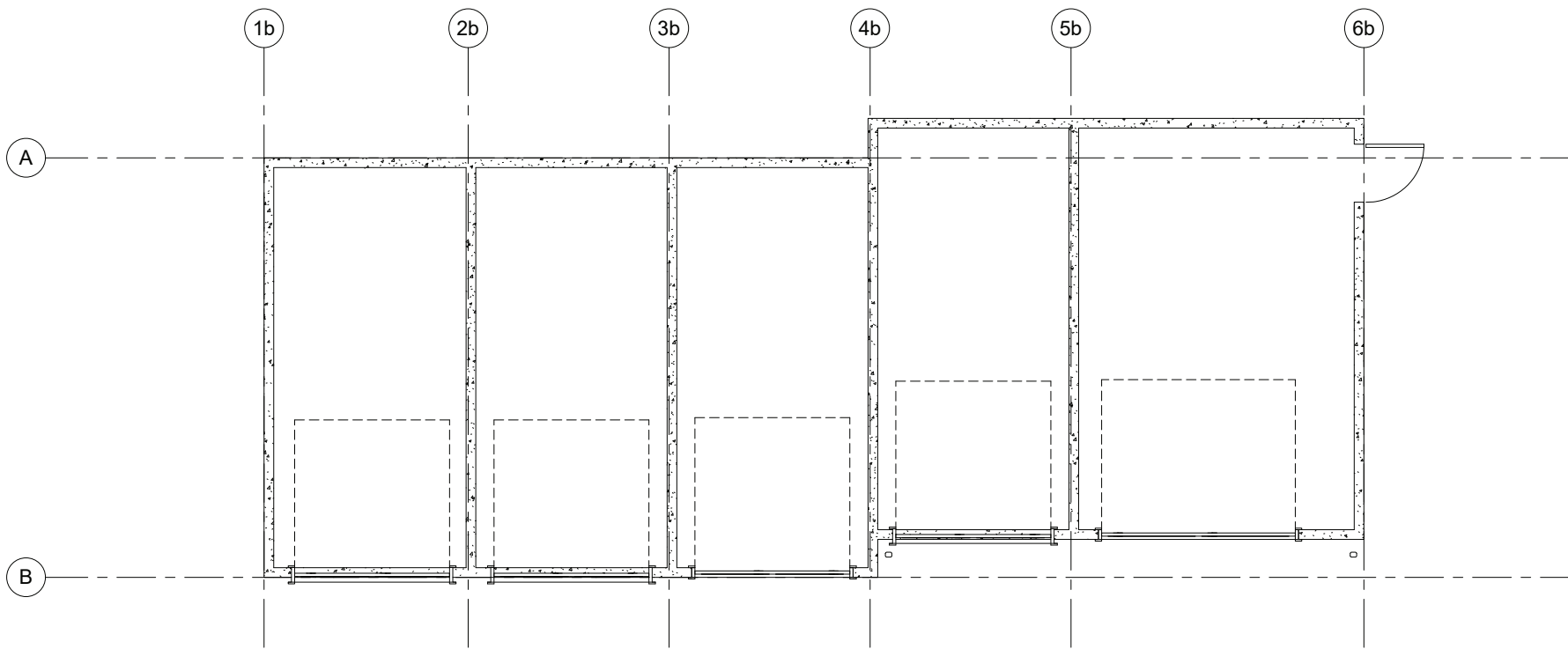
Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

GARAGE A PLANS

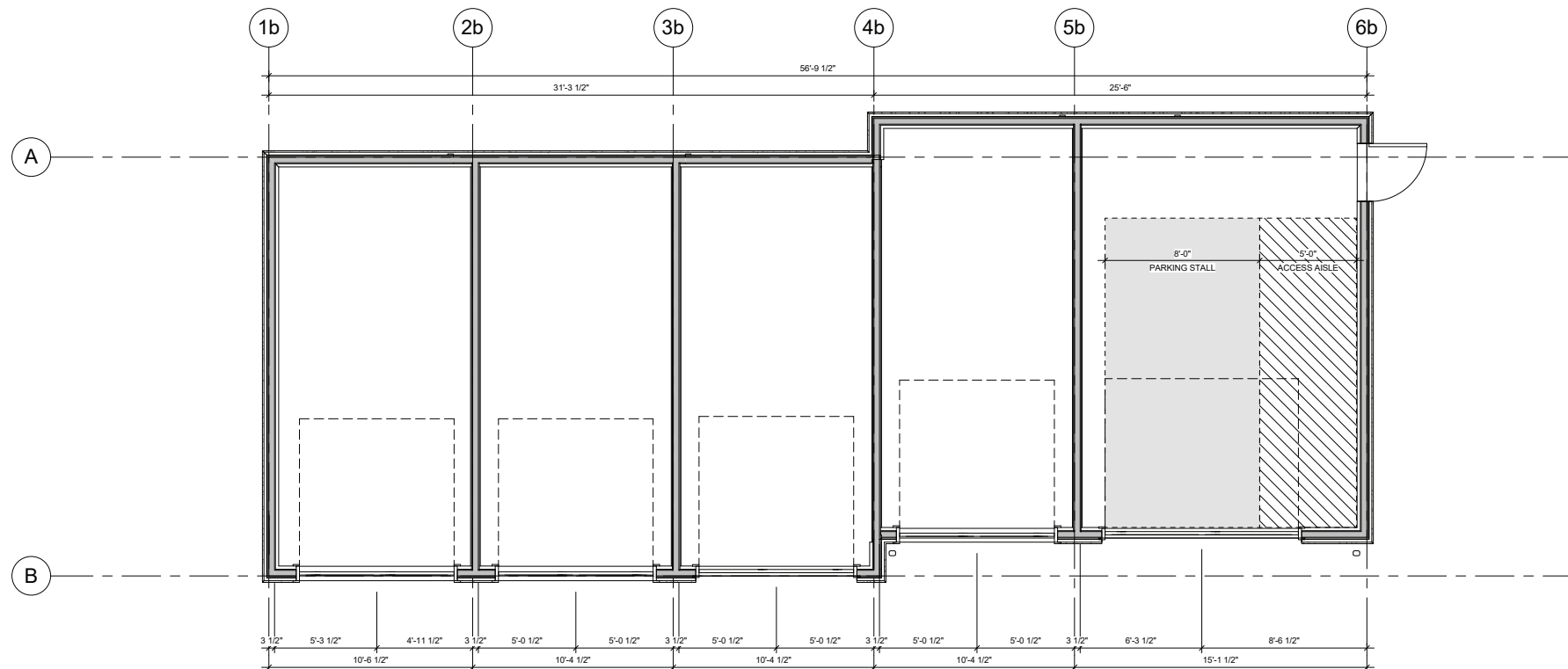
A1.30

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



2 GARAGE B - SLAB PLAN
1/4" = 1'-0"



1 GARAGE B - 1ST LEVEL
1/4" = 1'-0"

MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNK000008
Drawn By: DA
Checked By: CW
Date: 06.09.2021

GARAGE B PLANS

A1.32

C:\Users\jcollins\OneDrive\Documents\Galloway\Projects\2021\06092021\Garage B Plans\Garage B Plans.dwg

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



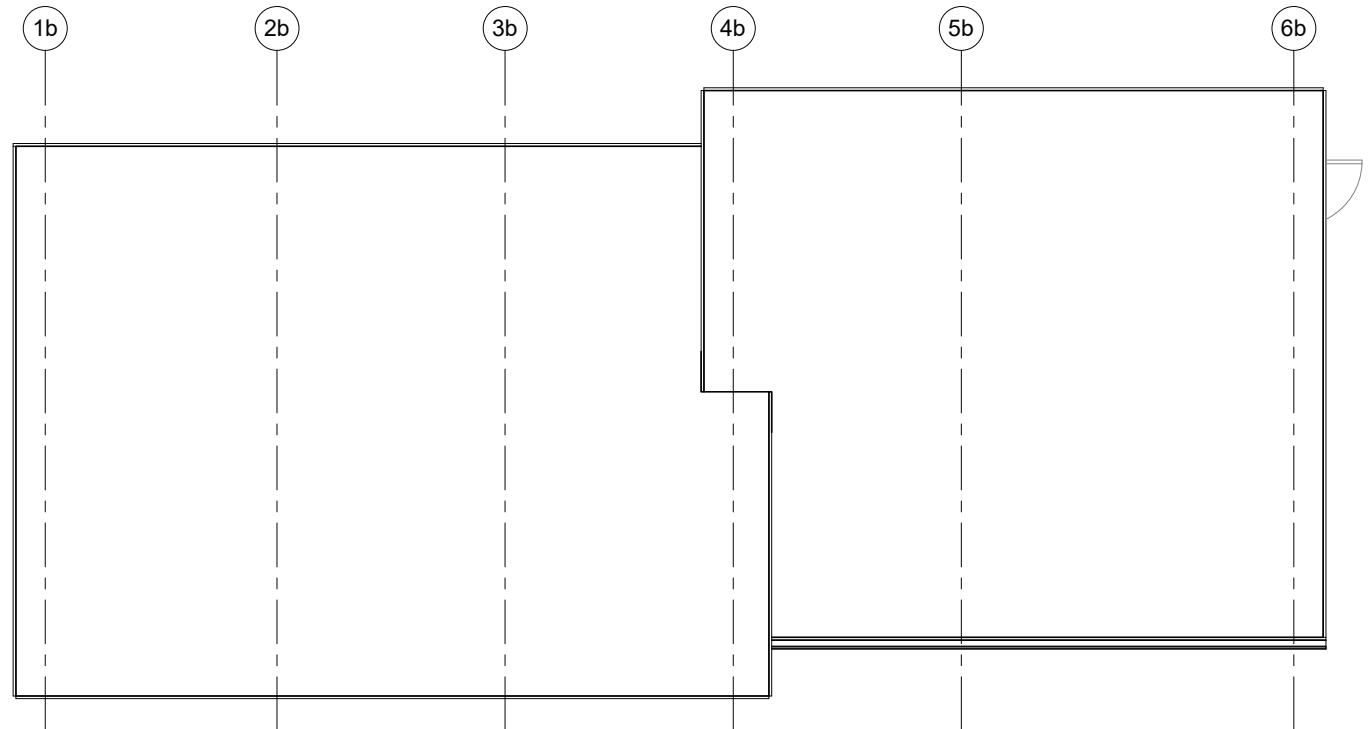
#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

GARAGE B ROOF PLAN

A1.33

ROOF PLAN NOTES		
<p>2015 INTERNATIONAL BUILDING CODE</p> <ul style="list-style-type: none"> REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION NOT SHOWN OR NOTED ON PLANS. ALL OVERHANGS ARE MEASURED HORIZONTALLY FROM FACE OF FRAME TO END OF TRUSS/RAFTER, RE: DETAILS. ALL SOFFITS ARE TO BE FLAT, U.N.O. ALL TRUSSES TO BE FABRICATED AND DESIGNED UNDER THE SUPERVISION OF A COLORADO LICENSED STRUCTURAL ENGINEER. ALL OVERFRAMING TO BEAR DIRECTLY ON TRUSSES OR OVER SOLID, IMMEDIATE BLOCKING BETWEEN TRUSSES. PROVIDE CUTOUTS IN AREAS OF OVERFRAMING TO CONNECT ROOF AREAS. PROVIDE ROOF VENTS AND / OR SOFFIT VENTS TO PROVIDE ATTIC VENTILATION AS REQUIRED PER 2015 IBC SECTION 1203. RE: ROOF VENTING NOTES AND CALCULATIONS. WATERPROOFING OF OPENINGS AT THE ROOF, AROUND VENT PIPES, AND AT EXTERIOR WALLS SHALL BE MADE WATER TIGHT PER 2015 IPC SECTION 305.5. THE ANNULAR SPACE BETWEEN PENETRATIONS OF PIPES AND SIMILAR AND ALL OPENINGS IN A BUILDING ENVELOPE WALL, FLOOR, OR CEILING ASSEMBLY SHALL BE SEALED PER 2015 IPC SECTION 315, WHERE APPLICABLE. PENETRATIONS IN FIRE-RATED ASSEMBLIES SHALL BE SEALED IN ACCORDANCE WITH 2015 IBC SECTION 714. PIPES AND VENTS SHALL BE PAINTED TO MATCH ADJACENT MATERIALS. 	<ul style="list-style-type: none"> ROOF ASSEMBLIES PER 2015 IBC CHAPTER 1501: ROOF ASSEMBLIES SHALL PROVIDE A WEATHER RESISTANT ROOF SYSTEM AND SHALL INCLUDE WEATHER PROTECTION PER 2015 IBC SECTION 1503 AND ROOF COVERINGS PER SECTION 1507. RE: FLASHING DETAILS FOR ADDITIONAL INFORMATION. CRICKETS AND SADDLES SHALL BE INSTALLED AT THE REQUIRED LOCATIONS PER 2015 IBC SECTION 1503.6. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING. PROVIDE APPROPRIATE UNDERLAYMENT AS APPLICABLE TO THE CRICKET OR SADDLE SLOPE. LOW SLOPE ROOFS - ASPHALT SHINGLES: ASPHALT SHINGLES SHALL ONLY BE USED ON ROOF SLOPES OF 2:12 OR GREATER. DOUBLE UNDERLAYMENT SHALL BE PROVIDED AT ROOF SLOPES FROM 2:12 TO LESS THAN 4:12. PER 2015 IBC SECTION 1507.2.8. AN ICE BARRIER SHALL BE INSTALLED AT EAVES, EXTENDING FROM THE LOWEST EDGE TO A POINT AT LEAST 24 INCHES INSIDE THE EXTERIOR WALL PER 2015 IBC SECTION 1507.2.8.2 OR AS REQUIRED BY LOCAL AMENDMENTS. METAL ROOF PANELS: THE INSTALLATION, ATTACHMENT, AND UNDERLAYMENT REQUIREMENTS OF METAL ROOF PANELS SHALL COMPLY WITH 2015 IBC SECTION 1507.4. 	<ul style="list-style-type: none"> ROOF DRAINAGE PER 2015 IPC SECTION 1106: SIZE OF GUTTERS, DOWNSPOUTS, AND SCUPPERS PER BUILDER'S SPECIFICATION, SHALL BE IN COMPLIANCE WITH SECTION 1106 BASED ON THE RAINFALL RATE AND CALCULATED AREA BEING DRAINED. WHERE APPLICABLE, SECONDARY DRAINS OR SCUPPERS SHALL BE PROVIDED PER SECTION 1108. SCUPPERS & DOWNSPOUTS ARE TO BE FIELD VERIFIED FOR LOCATION BY BUILDER. DOWNSPOUTS TO HAVE ADJUSTABLE EXTENDERS TO CARRY WATER MIN. 5'-0" AWAY FROM BUILDING OR AS RECOMMENDED BY SOULS REPORT, OR, WHERE APPLICABLE, CONNECT DIRECTLY TO THE STORM DRAIN SYSTEM. REFER TO CIVIL DRAWINGS FOR DETAILS AND LOCATIONS. DRAFTSTOPPING SHALL BE PROVIDED IN ATTICS AND CONGEALED ROOF SPACES PER 2015 IBC SECTION 718.4.2. INSTALL IN LOCATIONS AS SHOWN IN PLAN, IN LINE WITH DWELLING UNIT SEPARATION WALLS, CORRIDORS, AND SUBDIVIDING THE ATTIC SPACE INTO AREAS NOT EXCEEDING 3,000 SQUARE FEET OR ABOVE EVERY TWO DWELLING UNITS, WHICHEVER IS SMALLER. OPENINGS IN DRAFTSTOPS SHALL BE PROTECTED BY SELF-CLOSING DOORS PER CODE.



1 GARAGE B - ROOF PLAN
 1/4" = 1'-0"

P:\AutoCAD\Projects\2021\06\09\20210609\060921\060921\060921\060921.dwg, Plot Date: 06/09/2021, Plot Time: 10:00:00 AM, User: galloway

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



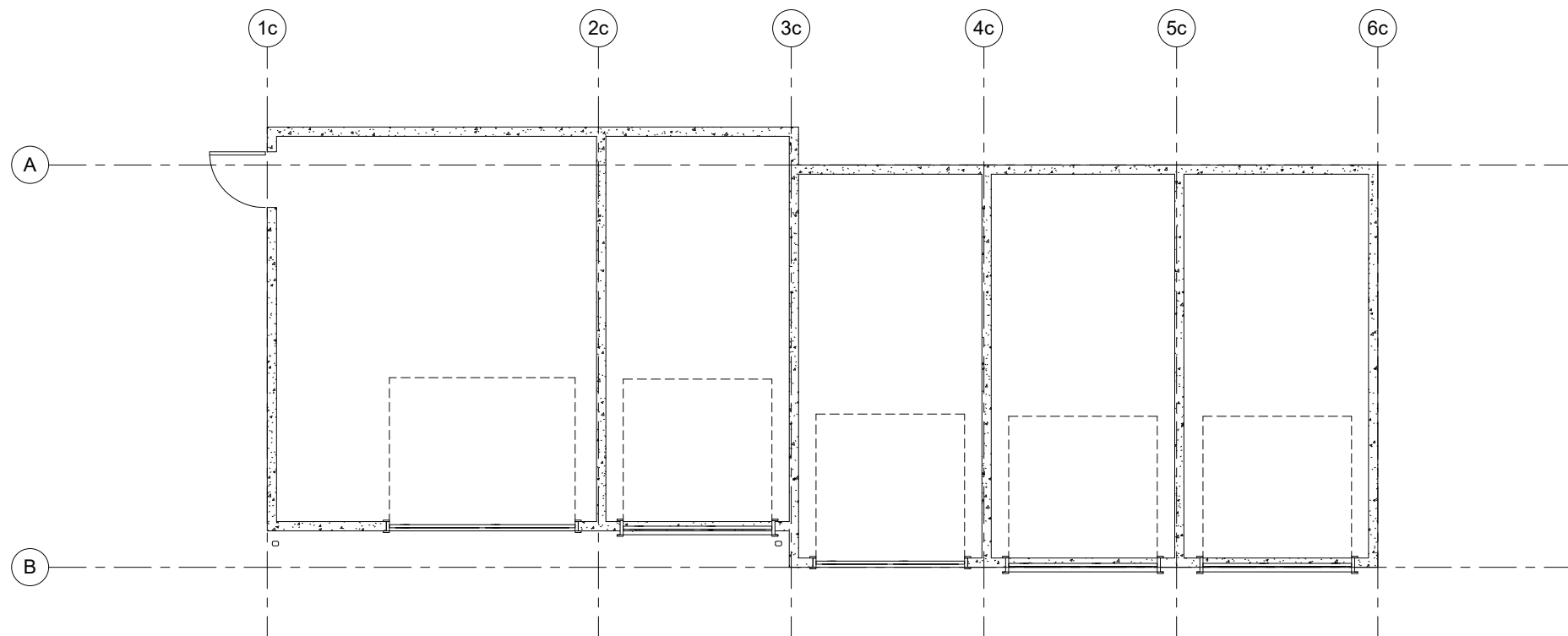
MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

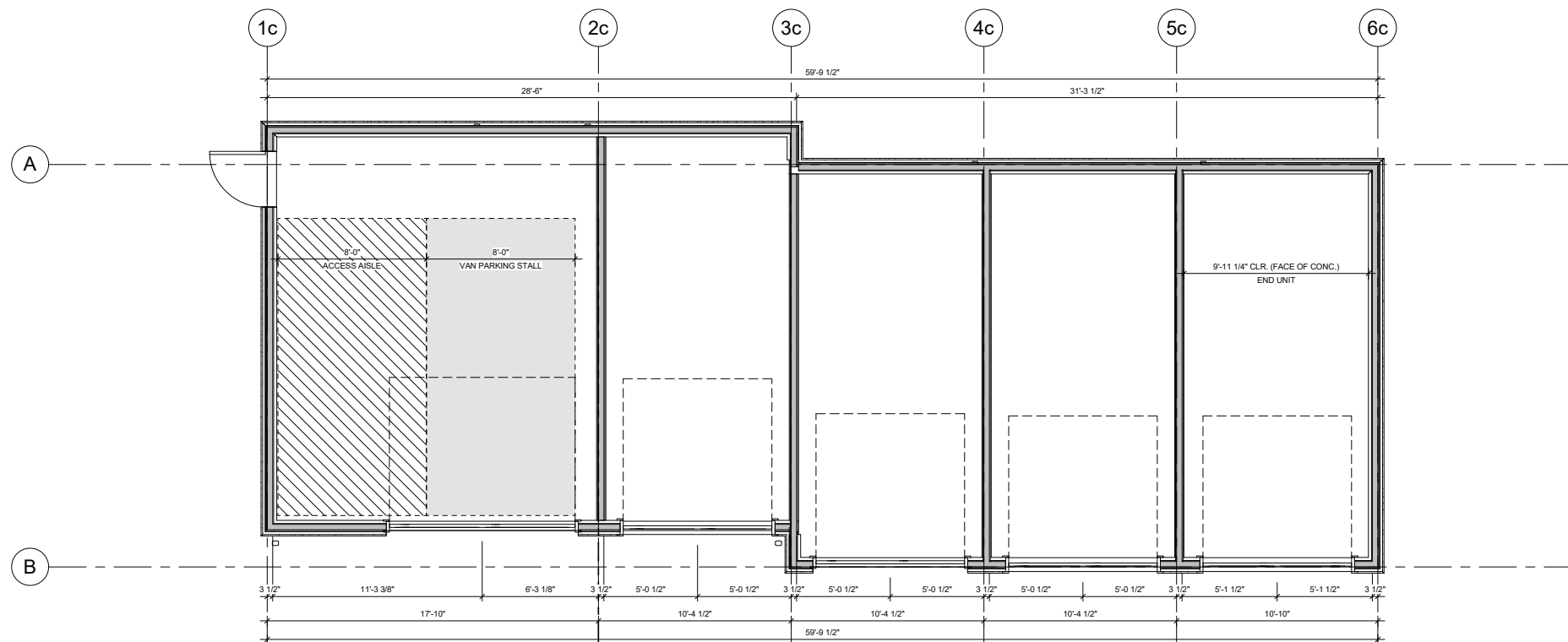
#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

GARAGE C PLANS



2 SLAB PLAN
1/4" = 1'-0"



1 FIRST FLOOR
1/4" = 1'-0"

C:\Projects\Galloway\Projects\Galloway\Projects\Garage C\Drawings\Garage C.dwg, Date: 06/09/2021, Time: 09:08:00 AM

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

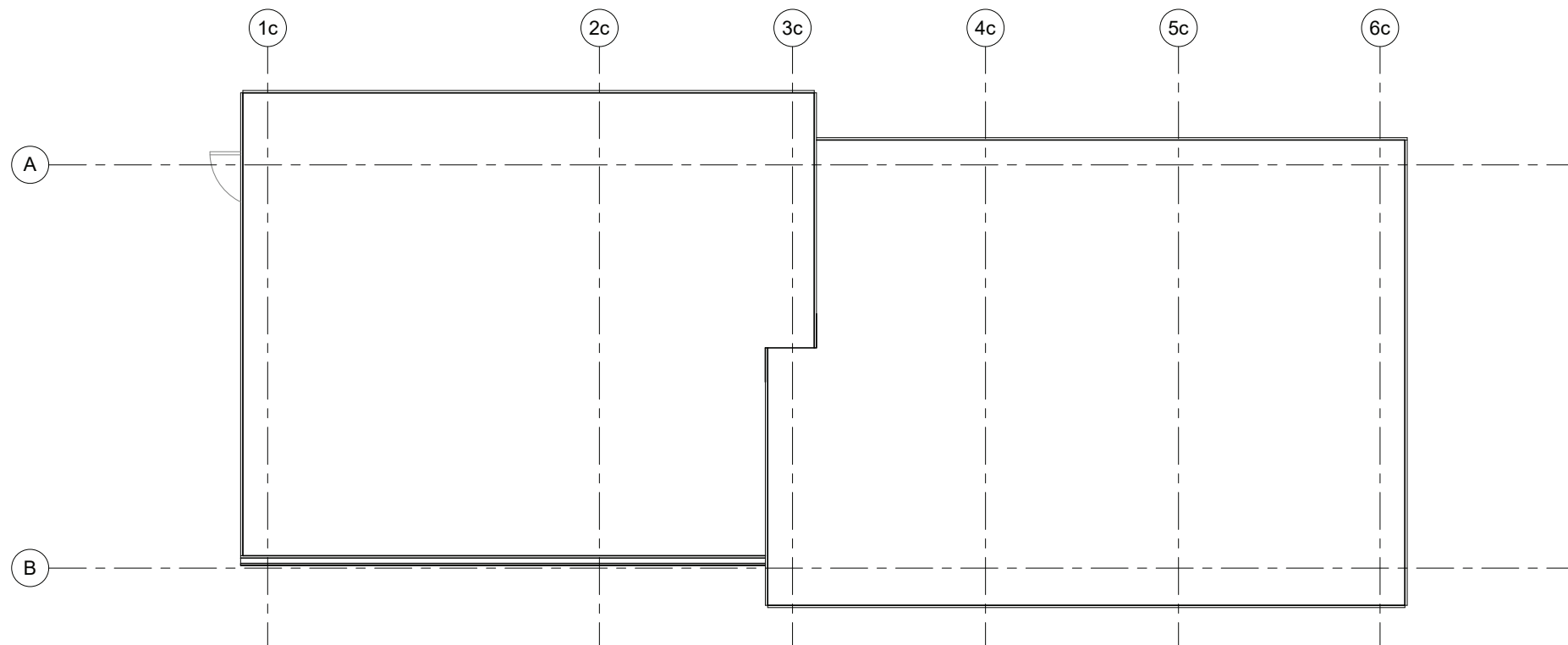
Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

GARAGE C ROOF PLAN

A1.35

ROOF PLAN NOTES

- 2015 INTERNATIONAL BUILDING CODE
- REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION NOT SHOWN OR NOTED ON PLANS.
 - ALL OVERHANGS ARE MEASURED HORIZONTALLY FROM FACE OF FRAME TO END OF TRUSS/RAFTER, RE: DETAILS. ALL SOFFITS ARE TO BE FLAT, U.N.O.
 - ALL TRUSSES TO BE FABRICATED AND DESIGNED UNDER THE SUPERVISION OF A COLORADO LICENSED STRUCTURAL ENGINEER.
 - ALL OVERFRAMING TO BEAR DIRECTLY ON TRUSSES OR OVER SOLID, IMMEDIATE BLOCKING BETWEEN TRUSSES. PROVIDE CUTOUTS IN AREAS OF OVERFRAMING TO CONNECT ROOF AREAS.
 - PROVIDE ROOF VENTS AND / OR SOFFIT VENTS TO PROVIDE ATTIC VENTILATION AS REQUIRED PER 2015 IBC SECTION 1203. RE: ROOF VENTING NOTES AND CALCULATIONS.
 - WATERPROOFING OF OPENINGS AT THE ROOF, AROUND VENT PIPES, AND AT EXTERIOR WALLS SHALL BE MADE WATER TIGHT PER 2015 IPC SECTION 305.5.
 - THE ANNULAR SPACE BETWEEN PENETRATIONS OF PIPES AND SIMILAR AND ALL OPENINGS IN A BUILDING ENVELOPE WALL, FLOOR, OR CEILING ASSEMBLY SHALL BE SEALED PER 2015 IPC SECTION 315. WHERE APPLICABLE, PENETRATIONS IN FIRE-RATED ASSEMBLIES SHALL BE SEALED IN ACCORDANCE WITH 2015 IBC SECTION 714.
 - PIPES AND VENTS SHALL BE PAINTED TO MATCH ADJACENT MATERIALS.
 - ROOF ASSEMBLIES PER 2015 IBC CHAPTER 1501: ROOF ASSEMBLIES SHALL PROVIDE A WEATHER RESISTANT ROOF SYSTEM AND SHALL INCLUDE WEATHER PROTECTION PER 2015 IBC SECTION 1503 AND ROOF COVERINGS PER SECTION 1507. RE: FLASHING DETAILS FOR ADDITIONAL INFORMATION.
 - CRICKETS AND SADDLES SHALL BE INSTALLED AT THE REQUIRED LOCATIONS PER 2015 IBC SECTION 1503.6. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING. PROVIDE APPROPRIATE UNDERLAYMENT AS APPLICABLE TO THE CRICKET OR SADDLE SLOPE.
 - LOW SLOPE ROOFS - ASPHALT SHINGLES: ASPHALT SHINGLES SHALL ONLY BE USED ON ROOF SLOPES OF 2:12 OR GREATER. DOUBLE UNDERLAYMENT SHALL BE PROVIDED AT ROOF SLOPES FROM 2:12 TO LESS THAN 4:12. PER 2015 IBC SECTION 1507.2.8.
 - AN ICE BARRIER SHALL BE INSTALLED AT EAVES, EXTENDING FROM THE LOWEST EDGE TO A POINT AT LEAST 24 INCHES INSIDE THE EXTERIOR WALL PER 2015 IBC SECTION 1507.2.8.2 OR AS REQUIRED BY LOCAL AMENDMENTS.
 - METAL ROOF PANELS: THE INSTALLATION, ATTACHMENT, AND UNDERLAYMENT REQUIREMENTS OF METAL ROOF PANELS SHALL COMPLY WITH 2015 IBC SECTION 1507.4.
 - ROOF DRAINAGE PER 2015 IPC SECTION 1106: SIZE OF GUTTERS, DOWNSPOUTS, AND SCUPPERS PER BUILDER'S SPECIFICATION, SHALL BE IN COMPLIANCE WITH SECTION 1106 BASED ON THE RAINFALL RATE AND CALCULATED AREA BEING DRAINED. WHERE APPLICABLE, SECONDARY DRAINS OR SCUPPERS SHALL BE PROVIDED PER SECTION 1108.
 - SCUPPERS & DOWNSPOUTS ARE TO BE FIELD VERIFIED FOR LOCATION BY BUILDER. DOWNSPOUTS TO HAVE ADJUSTABLE EXTENDERS TO CARRY WATER MIN. 5'-0" AWAY FROM BUILDING OR AS RECOMMENDED BY SOILS REPORT, OR, WHERE APPLICABLE, CONNECT DIRECTLY TO THE STORM DRAIN SYSTEM. REFER TO CIVIL DRAWINGS FOR DETAILS AND LOCATIONS.
 - DRAFTSTOPPING SHALL BE PROVIDED IN ATTICS AND CONCEALED ROOF SPACES PER 2015 IBC SECTION 718.4.2. INSTALL IN LOCATIONS AS SHOWN IN PLAN, IN LINE WITH DWELLING UNIT SEPARATION WALLS, CORRIDORS, AND SUBDIVIDING THE ATTIC SPACE INTO AREAS NOT EXCEEDING 3,000 SQUARE FEET OR ABOVE EVERY TWO DWELLING UNITS, WHICHEVER IS SMALLER. OPENINGS IN DRAFTSTOPS SHALL BE PROTECTED BY SELF-CLOSING DOORS PER CODE.



1 ROOF PLAN
 1/4" = 1'-0"

C:\Users\jcollins\OneDrive\Documents\Galloway\Projects\2021\06-09-21\210609-01\210609-01.dwg (11/22/21) 11/22/21 11:22:21 AM

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

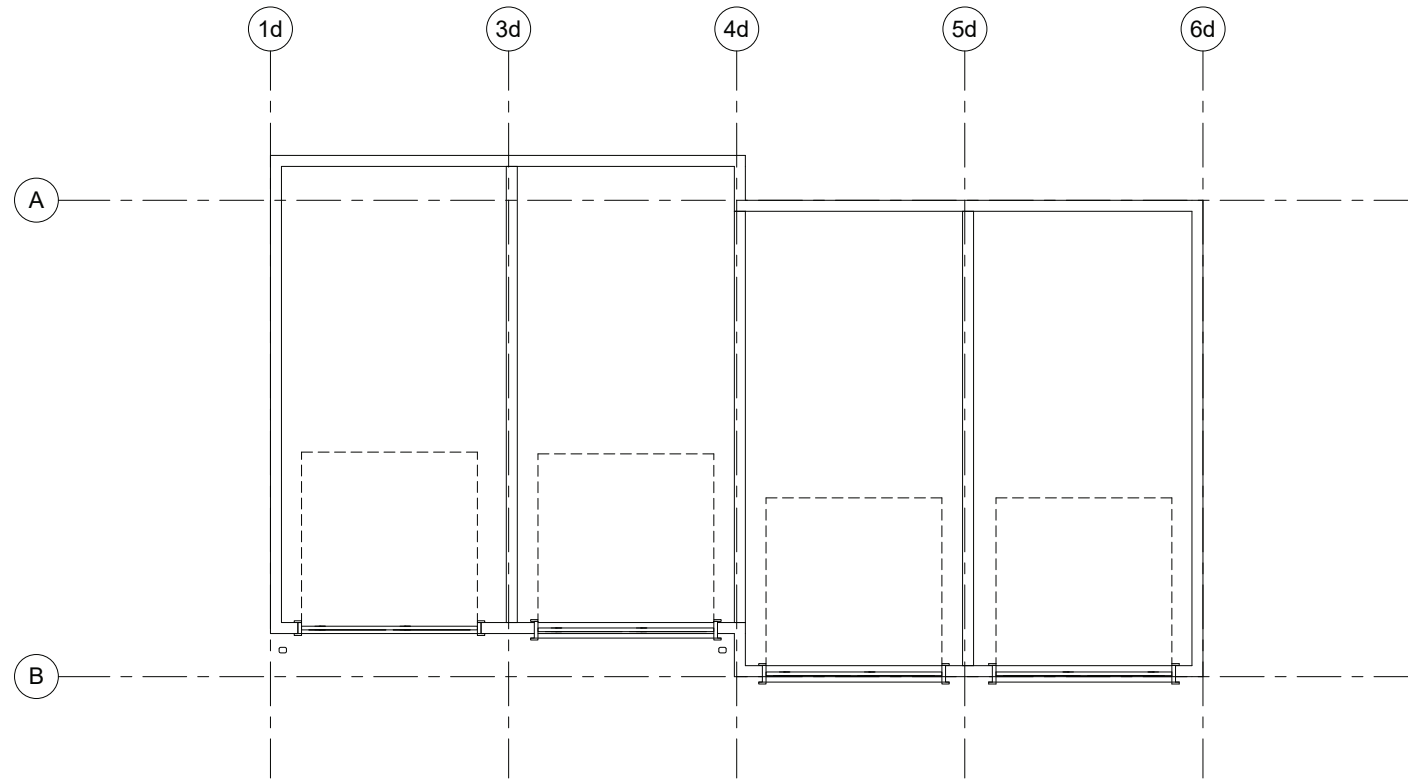
FORT COLLINS, CO

#	Date	Issue / Description	Init.

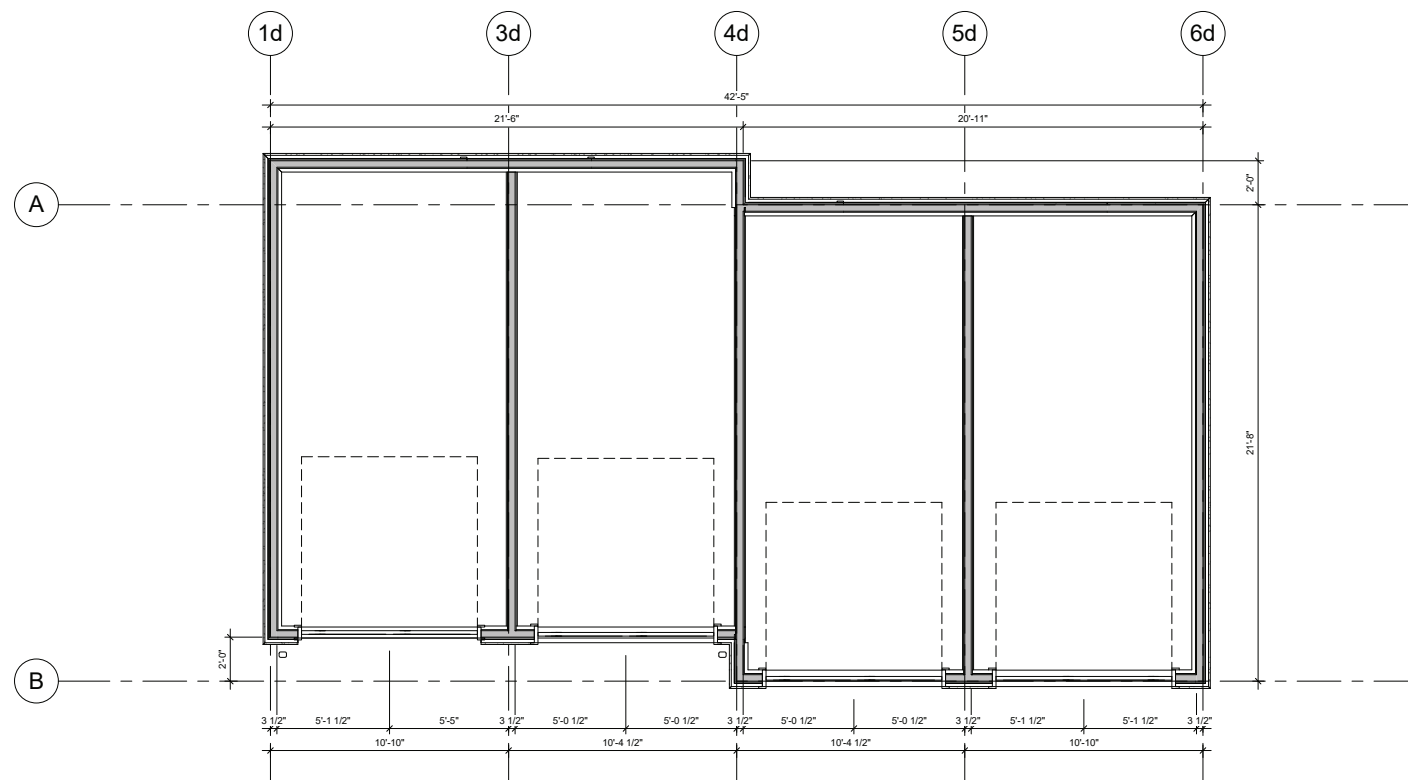
Project No: GNK000008
 Drawn By: Author
 Checked By: Checker
 Date: 06.09.2021

GARAGE D PLANS

A1.36



2 SLAB PLAN
 1/4" = 1'-0"



1 FIRST FLOOR
 1/4" = 1'-0"

P:\AutoCAD\Drawings\MapInfo\2021\20210324\20210324-01-01-01.dwg, Plot Date: 06/09/2021, 10:10:18 AM, User: galloway, Plot Scale: 1/4" = 1'-0"

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



#	Date	Issue / Description	Init.

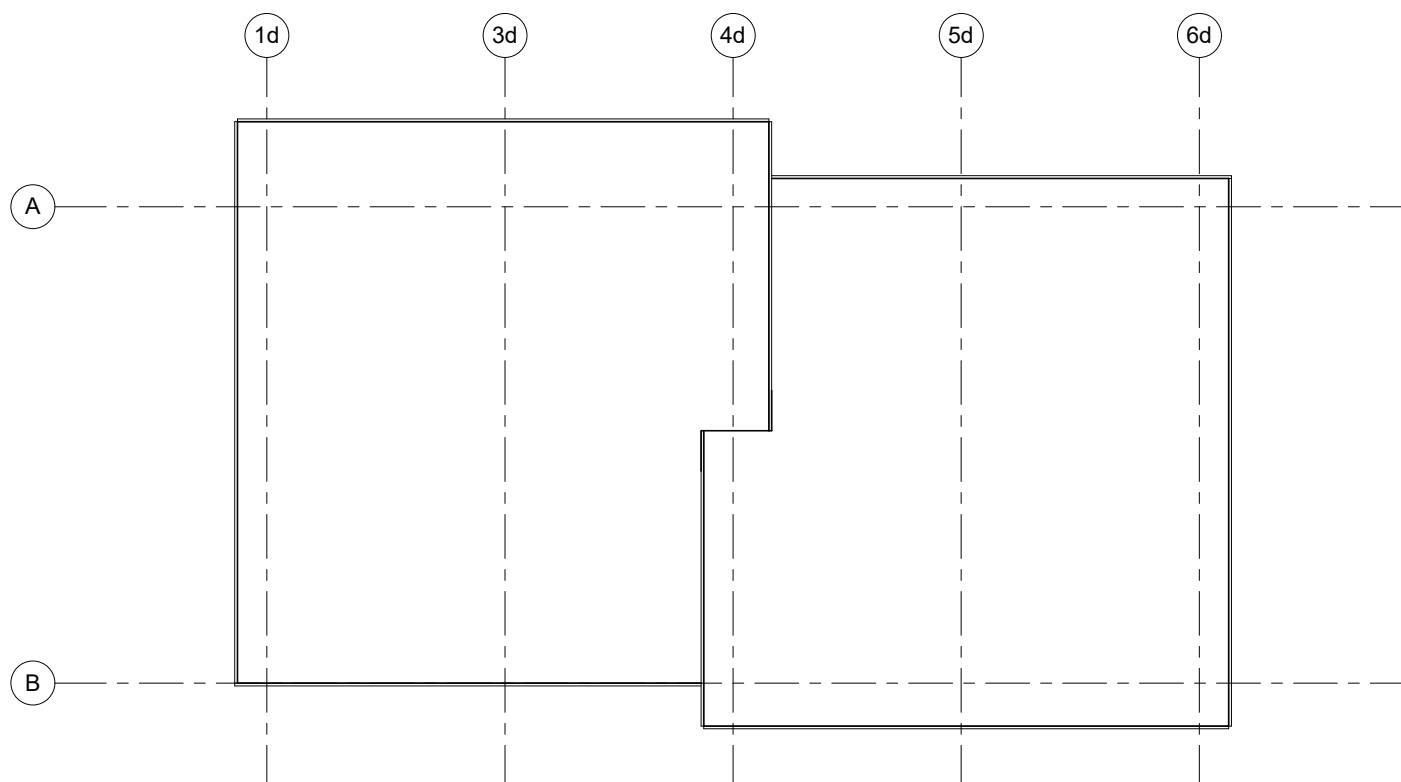
Project No:	GNK000008
Drawn By:	Author
Checked By:	Checker
Date:	06.09.2021

GARAGE D ROOF PLAN

A1.37

ROOF PLAN NOTES

- 2015 INTERNATIONAL BUILDING CODE
- REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION NOT SHOWN OR NOTED ON PLANS.
- ALL OVERHANGS ARE MEASURED HORIZONTALLY FROM FACE OF FRAME TO END OF TRUSS/RAFTER, RE: DETAILS. ALL SOFFITS ARE TO BE FLAT, U.N.O.
- ALL TRUSSES TO BE FABRICATED AND DESIGNED UNDER THE SUPERVISION OF A COLORADO LICENSED STRUCTURAL ENGINEER.
- ALL OVERFRAMING TO BEAR DIRECTLY ON TRUSSES OR OVER SOLID, IMMEDIATE BLOCKING BETWEEN TRUSSES. PROVIDE CUTOUTS IN AREAS OF OVERFRAMING TO CONNECT ROOF AREAS.
- PROVIDE ROOF VENTS AND / OR SOFFIT VENTS TO PROVIDE ATTIC VENTILATION AS REQUIRED PER 2015 IBC SECTION 1203. RE: ROOF VENTING NOTES AND CALCULATIONS.
- WATERPROOFING OF OPENINGS AT THE ROOF, AROUND VENT PIPES, AND AT EXTERIOR WALLS SHALL BE MADE WATER TIGHT PER 2015 IBC SECTION 305.5.
- THE ANNULAR SPACE BETWEEN PENETRATIONS OF PIPES AND SIMILAR AND ALL OPENINGS IN A BUILDING ENVELOPE WALL, FLOOR, OR CEILING ASSEMBLY SHALL BE SEALED PER 2015 IBC SECTION 315, WHERE APPLICABLE. PENETRATIONS IN FIRE-RATED ASSEMBLIES SHALL BE SEALED IN ACCORDANCE WITH 2015 IBC SECTION 714.
- PIPES AND VENTS SHALL BE PAINTED TO MATCH ADJACENT MATERIALS.
- ROOF ASSEMBLIES PER 2015 IBC CHAPTER 1501: ROOF ASSEMBLIES SHALL PROVIDE A WEATHER RESISTANT ROOF SYSTEM AND SHALL INCLUDE WEATHER PROTECTION PER 2015 IBC SECTION 1503 AND ROOF COVERINGS PER SECTION 1507. RE: FLASHING DETAILS FOR ADDITIONAL INFORMATION.
- CRICKETS AND SADDLES SHALL BE INSTALLED AT THE REQUIRED LOCATIONS PER 2015 IBC SECTION 1503.6. CRICKET OR SADDLE COVERINGS SHALL BE SHEET METAL OR OF THE SAME MATERIAL AS THE ROOF COVERING. PROVIDE APPROPRIATE UNDERLAYMENT AS APPLICABLE TO THE CRICKET OR SADDLE SLOPE.
- LOW SLOPE ROOFS - ASPHALT SHINGLES: ASPHALT SHINGLES SHALL ONLY BE USED ON ROOF SLOPES OF 2:12 OR GREATER. DOUBLE UNDERLAYMENT SHALL BE PROVIDED AT ROOF SLOPES FROM 2:12 TO LESS THAN 4:12. PER 2015 IBC SECTION 1507.2.8.
- AN ICE BARRIER SHALL BE INSTALLED AT EAVES, EXTENDING FROM THE LOWEST EDGE TO A POINT AT LEAST 24 INCHES INSIDE THE EXTERIOR WALL PER 2015 IBC SECTION 1507.2.8.2 OR AS REQUIRED BY LOCAL AMENDMENTS.
- METAL ROOF PANELS: THE INSTALLATION, ATTACHMENT, AND UNDERLAYMENT REQUIREMENTS OF METAL ROOF PANELS SHALL COMPLY WITH 2015 IBC SECTION 1507.4.
- ROOF DRAINAGE PER 2015 IBC SECTION 1106: SIZE OF GUTTERS, DOWNSPOUTS, AND SCUPPERS PER BUILDER'S SPECIFICATION, SHALL BE IN COMPLIANCE WITH SECTION 1106 BASED ON THE RAINFALL RATE AND CALCULATED AREA BEING DRAINED. WHERE APPLICABLE, SECONDARY DRAINS OR SCUPPERS SHALL BE PROVIDED PER SECTION 1108.
- SCUPPERS & DOWNSPOUTS ARE TO BE FIELD VERIFIED FOR LOCATION BY BUILDER. DOWNSPOUTS TO HAVE ADJUSTABLE EXTENDERS TO CARRY WATER MIN. 5'-0" AWAY FROM BUILDING OR AS RECOMMENDED BY SOILS REPORT, OR, WHERE APPLICABLE, CONNECT DIRECTLY TO THE STORM DRAIN SYSTEM. REFER TO CIVIL DRAWINGS FOR DETAILS AND LOCATIONS.
- DRAFTSTOPPING SHALL BE PROVIDED IN ATTICS AND CONGEALED ROOF SPACES PER 2015 IBC SECTION 718.4.2. INSTALL IN LOCATIONS AS SHOWN IN PLAN, IN LINE WITH DWELLING UNIT SEPARATION WALLS, CORRIDORS, AND SUBDIVIDING THE ATTIC SPACE INTO AREAS NOT EXCEEDING 3,000 SQUARE FEET OR ABOVE EVERY TWO DWELLING UNITS, WHICHEVER IS SMALLER. OPENINGS IN DRAFTSTOPS SHALL BE PROTECTED BY SELF-CLOSING DOORS PER CODE.



1 GARAGE A - ROOF PLAN
1/4" = 1'-0"

Project: Mars Landing - Project Development Plan, Date: 06/09/2021, Sheet: 1 of 12, Scale: 1/4" = 1'-0"

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT

THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

EXTERIOR BUILDING LIGHTS:
LIGHTS, ONCE SPECIFIED, WILL COMPLY WITH ALL REQUIREMENTS. ALL BUILDING MOUNTED LIGHTING SHALL BE FULLY SHIELDED, DOWN DIRECTIONAL, AND DARK SKY COMPLIANT.

EXTERIOR FINISH MATERIAL SCHEDULE		
	COLOR (MANUF.)	COMMENTS
BODY 01	NORTH HAMPTON BEIGE (BM AC-38)	LAP SIDING
BODY 02	SWATSHIRT GRAY (BM 2126-40)	LAP SIDING
BODY 03	COACHMAN'S CAPE (BM CSP-90)	VERTICAL SIDING
ACCENT 01	AGED COPPER (CMG METALS)	ARCHITECTURAL GRADE METAL PANEL
ACCENT 02	CASCADE WHITE (BM 2127-70)	STUCCO
TRIM 01	NIGHT HORIZON (BM 2134-10)	
STONE	CORONADO PROLEDGE - HURON	
COMPOSITE WOOD	TREX - SPICED RUM	

* ALL MATERIALS AND COLORS SHOWN ARE PROPOSED BASIS OF DESIGN, OR EQUIVALENT, SUBJECT TO CITY APPROVAL.



2 NORTH ELEVATION
1/8" = 1'-0"



3 NORTH - EAST BUILDING PERSPECTIVE



1 EAST ELEVATION
1/8" = 1'-0"

#	Date	Issue / Description	Init.

Project No: GNK00008
Drawn By: DA
Checked By: CW
Date: 06.09.2021

BUILDING A-42
ELEVATIONS

A2.10

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

EXTERIOR BUILDING LIGHTS:
 LIGHTS, ONCE SPECIFIED, WILL COMPLY WITH ALL REQUIREMENTS. ALL BUILDING MOUNTED LIGHTING SHALL BE FULLY SHIELDED, DOWN DIRECTIONAL, AND DARK SKY COMPLIANT.

EXTERIOR FINISH MATERIAL SCHEDULE		
	COLOR (MANUF.)	COMMENTS
BODY 01	NORTH HAMPTON BEIGE (BM AC-38)	LAP SIDING
BODY 02	SWEATSHIRT GRAY (BM 2126-40)	LAP SIDING
BODY 03	COACHMAN'S CAPE (BM CSP-90)	VERTICAL SIDING
ACCENT 01	AGED COPPER (CMG METALS)	ARCHITECTURAL GRADE METAL PANEL
ACCENT 02	CASCADE WHITE (BM 2127-70)	STUCCO
TRIM 01	NIGHT HORIZON (BM 2134-10)	
STONE	CORONADO PROLEDGE - HURON	
COMPOSITE WOOD	TREX - SPICED RUM	

* ALL MATERIALS AND COLORS SHOWN ARE PROPOSED BASIS OF DESIGN, OR EQUIVALENT, SUBJECT TO CITY APPROVAL.



4 SOUTH ELEVATION
 1/8" = 1'-0"



3 SOUTH - WEST BUILDING PERSPECTIVE



1 WEST ELEVATION
 1/8" = 1'-0"

#	Date	Issue / Description	Init.

Project No:	GNK000008
Drawn By:	DA
Checked By:	CW
Date:	06.09.2021

BUILDING A-42
 ELEVATIONS

A2.11

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

EXTERIOR BUILDING LIGHTS:
LIGHTS, ONCE SPECIFIED, WILL COMPLY WITH ALL REQUIREMENTS. ALL BUILDING MOUNTED LIGHTING SHALL BE FULLY SHIELDED, DOWN DIRECTIONAL, AND DARK SKY COMPLIANT.

EXTERIOR FINISH MATERIAL SCHEDULE		
	COLOR (MANUF.)	COMMENTS
BODY 01	KANGAROO (BM AF-145)	LAP SIDING
BODY 02	SWEATSHIRT GRAY (BM 2126-40)	STUCCO
BODY 03	COACHMAN'S CAPE (BM CSP-90)	VERTICAL SIDING
ACCENT 01	ROYAL BLUE (CMG METALS)	ARCHITECTURAL GRADE METAL PANEL
TRIM 01	NIGHT HORIZON (BM 2134-10)	
STONE	CORONADO: SIERRA LEDGE - CATHEDRAL GREY	

* ALL MATERIALS AND COLORS SHOWN ARE PROPOSED BASIS OF DESIGN, OR EQUIVALENT, SUBJECT TO CITY APPROVAL.

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNK000008
Drawn By: DA
Checked By: CW
Date: 06.09.2021

BUILDING A-48
ELEVATIONS

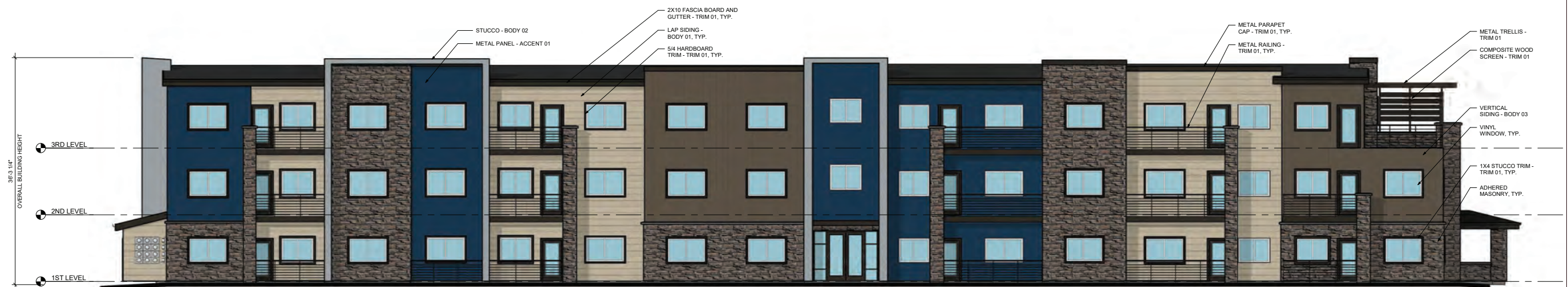
A2.20



1 NORTH ELEVATION
1/8" = 1'-0"



2 NORTH - EAST BUILDING PERSPECTIVE



4 EAST ELEVATION
1/8" = 1'-0"

G:\Projects\2021\06\09\A-48\A-48_ELEVATIONS.dwg

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



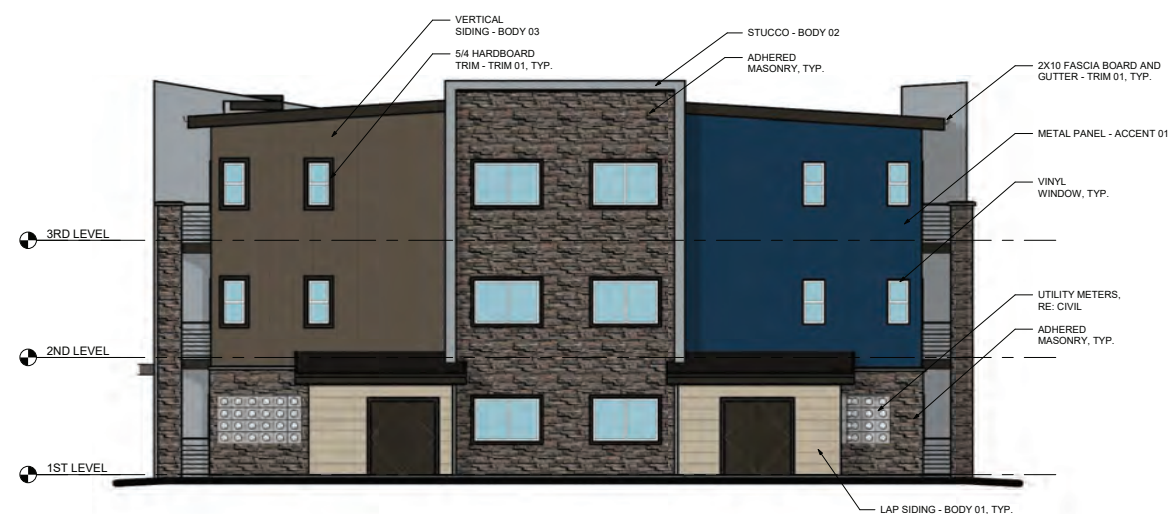
MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

EXTERIOR BUILDING LIGHTS:
LIGHTS, ONCE SPECIFIED, WILL COMPLY WITH ALL REQUIREMENTS. ALL BUILDING MOUNTED LIGHTING SHALL BE FULLY SHIELDED, DOWN DIRECTIONAL, AND DARK SKY COMPLIANT.

EXTERIOR FINISH MATERIAL SCHEDULE		
	COLOR (MANUF.)	COMMENTS
BODY 01	KANGAROO (BM AF-145)	LAP SIDING
BODY 02	SWEATSHIRT GRAY (BM 2128-40)	STUCCO
BODY 03	COACHMAN'S CAPE (BM CSP-90)	VERTICAL SIDING
ACCENT 01	ROYAL BLUE (CMG METALS)	ARCHITECTURAL GRADE METAL PANEL
TRIM 01	NIGHT HORIZON (BM 2134-10)	
STONE	CORONADO: SIERRA LEDGE - CATHEDRAL GREY	

* ALL MATERIALS AND COLORS SHOWN ARE PROPOSED BASIS OF DESIGN, OR EQUIVALENT. SUBJECT TO CITY APPROVAL.



① SOUTH ELEVATION
1/8" = 1'-0"



② SOUTH - WEST - BUILDING PERSPECTIVE



③ WEST ELEVATION
1/8" = 1'-0"

#	Date	Issue / Description	Init.

Project No: GNK000008
Drawn By: DA
Checked By: CW
Date: 06.09.2021

BUILDING A-48
ELEVATIONS

A2.21

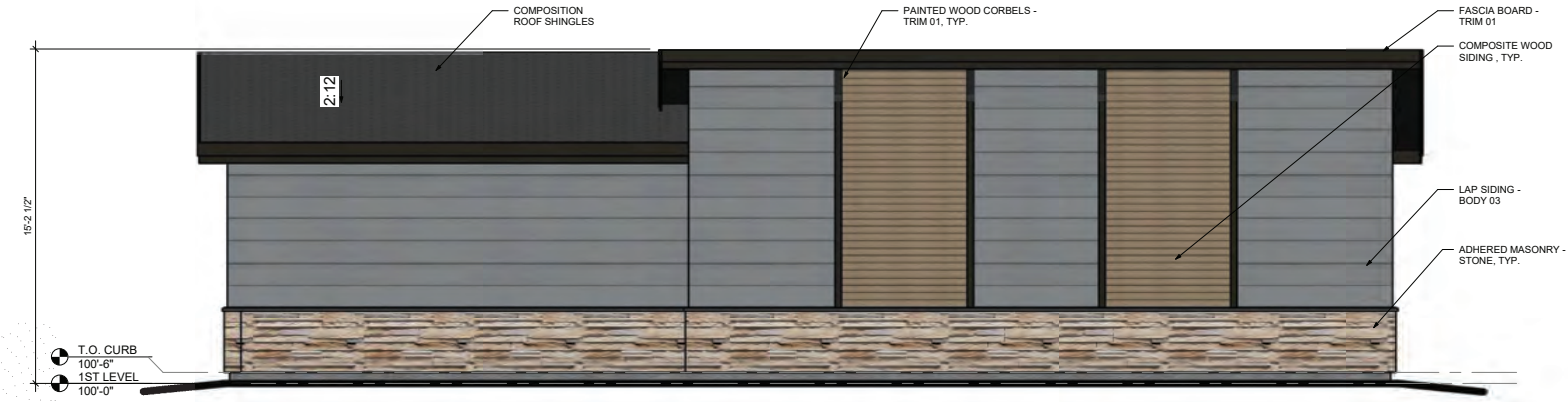
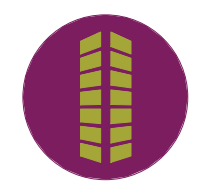
EXTERIOR FINISH MATERIAL SCHEDULE		
	COLOR (MANUF.)	COMMENTS
BODY 01	VERSATILE GRAY (SW 6072)	LAP SIDING
BODY 02	LET IT RAIN (SW 9152)	LAP SIDING
BODY 03	FOLKSTONE (SW 6005)	VERTICAL SIDING
ACCENT 01	ROYAL BLUE (CMG METALS)	METAL WALL PANEL
ACCENT 02	ICICLE (SW 6238)	STUCCO
TRIM 01	URBANE BRONZE (SW 7048)	
STONE	CORONADO PROLEDGE - OAKBROOK	
COMPOSITE WOOD	TREX - COASTAL BLUFF	

* ALL MATERIALS AND COLORS SHOWN ARE PROPOSED BASIS OF DESIGN, OR EQUIVALENT, SUBJECT TO CITY APPROVAL.

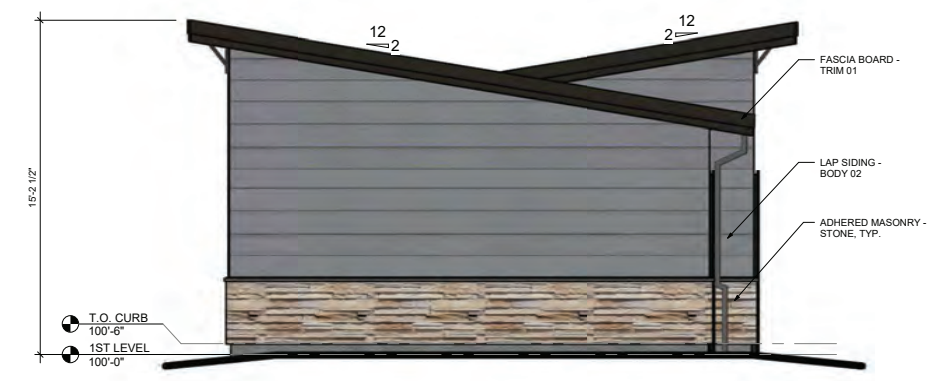
Galloway
5265 Ronald Reagan Blvd., Suite 210
Johnstown, CO 80534
970.900.3300
GallowayUS.com

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

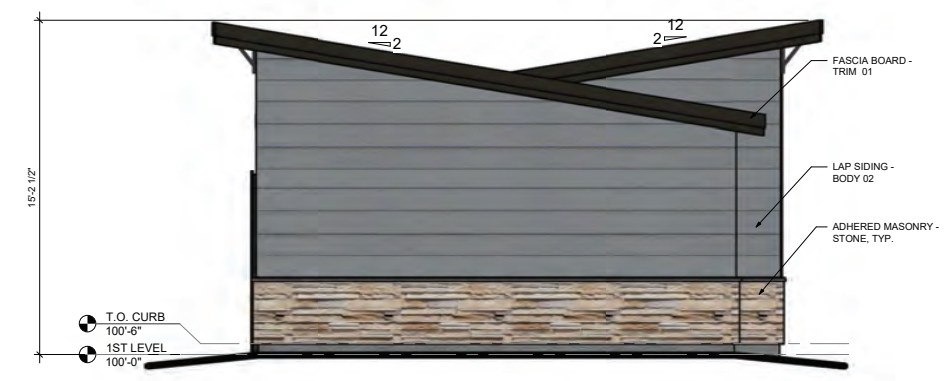
COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



1 GARAGE A - REAR ELEVATION
1/4" = 1'-0"



2 GARAGE A - LEFT SIDE ELEVATION
1/4" = 1'-0"



3 GARAGE A - RIGHT SIDE ELEVATION
1/4" = 1'-0"



4 GARAGE A - FRONT ELEVATION
1/4" = 1'-0"

MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNK000008
Drawn By: DA
Checked By: CW
Date: 06.09.2021

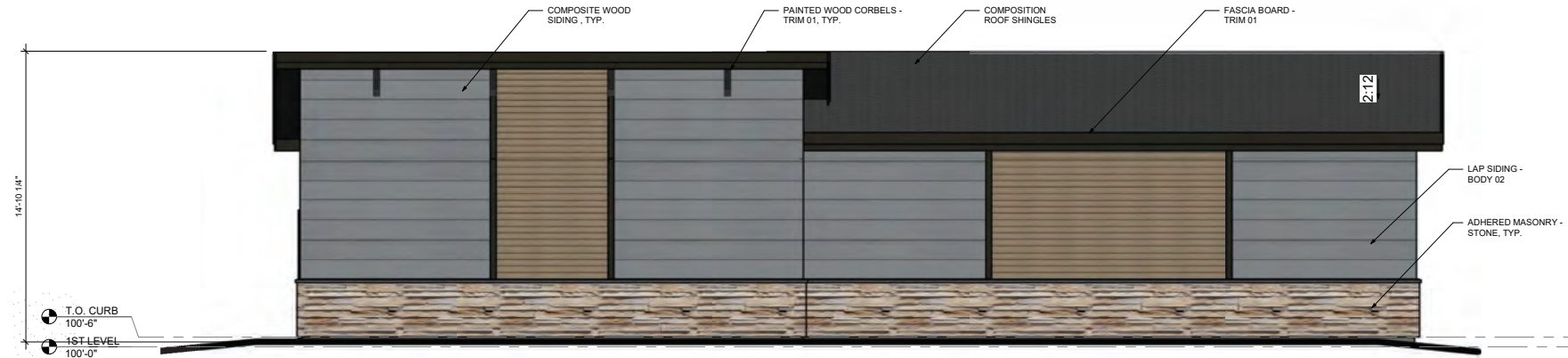
GARAGE A ELEVATIONS

A2.30

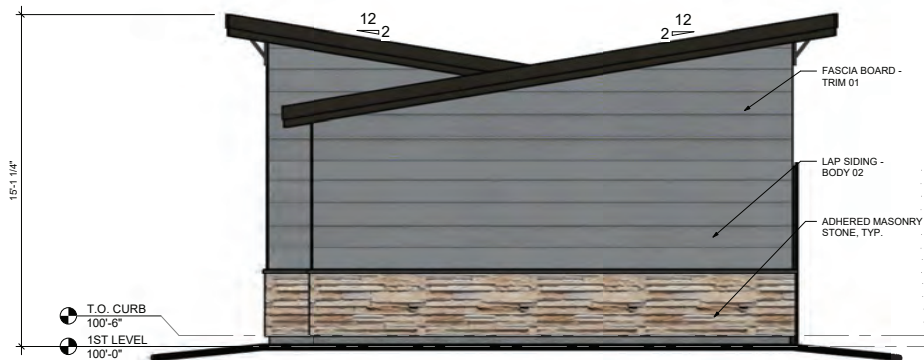
PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

EXTERIOR FINISH MATERIAL SCHEDULE		
	COLOR (MANUF.)	COMMENTS
BODY 01	VERSATILE GRAY (SW 6072)	LAP SIDING
BODY 02	LET IT RAIN (SW 9152)	LAP SIDING
BODY 03	FOLKSTONE (SW 6005)	VERTICAL SIDING
ACCENT 01	ROYAL BLUE (CMG METALS)	METAL WALL PANEL
ACCENT 02	ICICLE (SW 6238)	STUCCO
TRIM 01	URBANE BRONZE (SW 7048)	
STONE	CORONADO PROLEDGE - OAKBROOK	
COMPOSITE WOOD	TREX - COASTAL BLUFF	

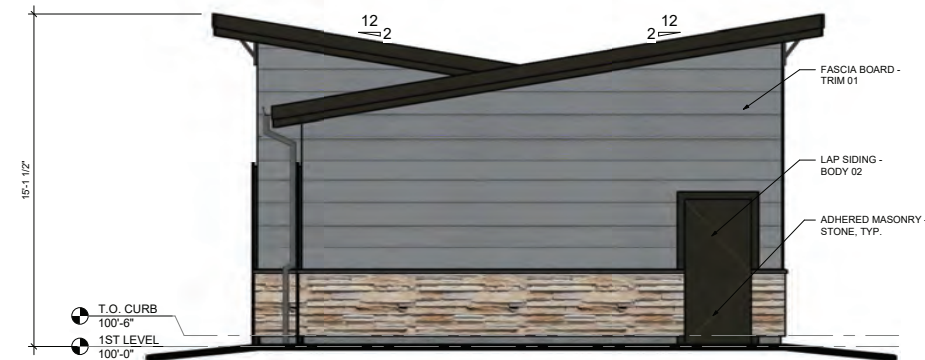
* ALL MATERIALS AND COLORS SHOWN ARE PROPOSED BASIS OF DESIGN, OR EQUIVALENT, SUBJECT TO CITY APPROVAL.



1 GARAGE B REAR ELEVATION
1/4" = 1'-0"



2 GARAGE B LEFT SIDE ELEVATION
1/4" = 1'-0"



3 GARAGE B RIGHT SIDE ELEVATION
1/4" = 1'-0"



4 GARAGE B - FRONT ELEVATION
1/4" = 1'-0"

#	Date	Issue / Description	Init.

Project No: GNK000008
Drawn By: DA
Checked By: CW
Date: 06.09.2021

GARAGE B ELEVATIONS

A2.31

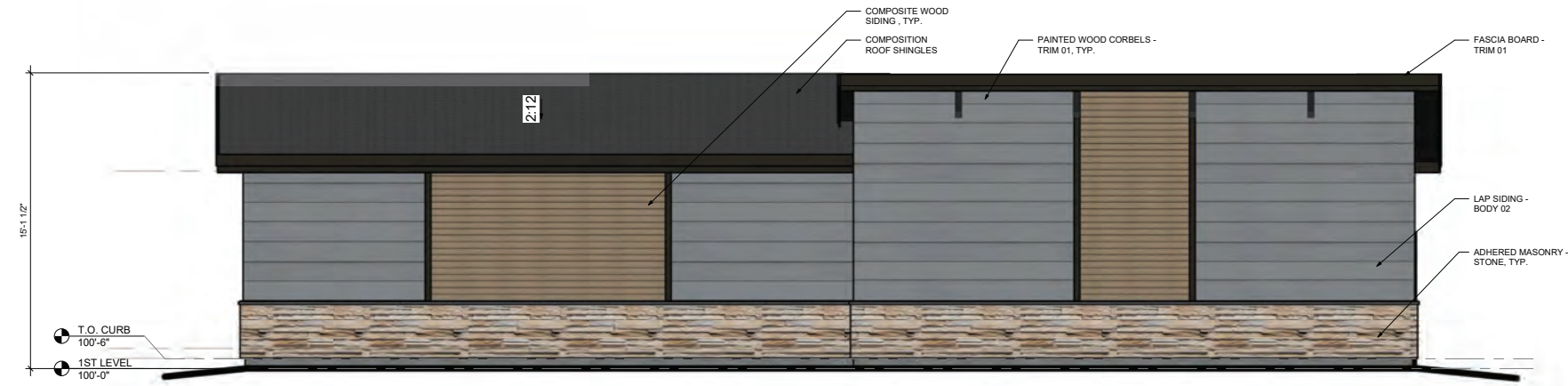
C:\Users\galloway\OneDrive\Documents\Galloway\Projects\2021\20210609_Mars Landing\02 - Site Plan\02 - Site Plan - Elevation.dwg

EXTERIOR FINISH MATERIAL SCHEDULE		
	COLOR (MANUF.)	COMMENTS
BODY 01	VERSATILE GRAY (SW 6072)	LAP SIDING
BODY 02	LET IT RAIN (SW 9152)	LAP SIDING
BODY 03	FOLKSTONE (SW 6005)	VERTICAL SIDING
ACCENT 01	ROYAL BLUE (CMG METALS)	METAL WALL PANEL
ACCENT 02	ICICLE (SW 6238)	STUCCO
TRIM 01	URBANE BRONZE (SW 7048)	
STONE	CORONADO PROLEDGE - OAKBROOK	
COMPOSITE WOOD	TREX - COASTAL BLUFF	

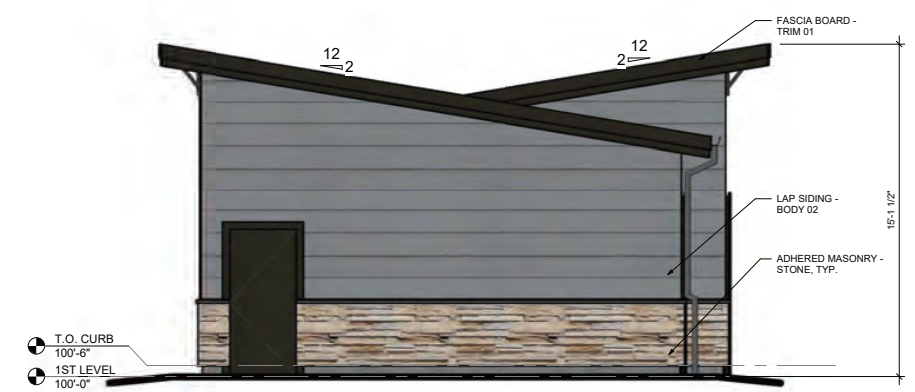
* ALL MATERIALS AND COLORS SHOWN ARE PROPOSED BASIS OF DESIGN, OR EQUIVALENT, SUBJECT TO CITY APPROVAL.

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

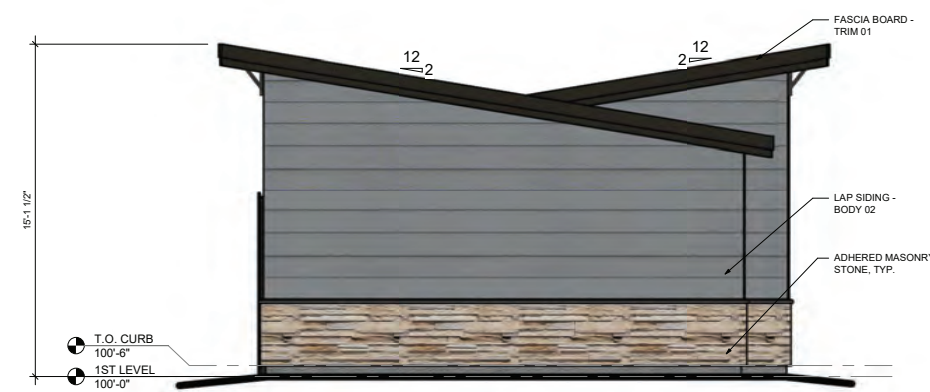
COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



1 GARAGE C - REAR ELEVATION
 1/4" = 1'-0"



2 GARAGE C - LEFT SIDE ELEVATION
 1/4" = 1'-0"



3 GARAGE C - RIGHT SIDE ELEVATION
 1/4" = 1'-0"



4 GARAGE C - FRONT ELEVATION
 1/4" = 1'-0"

MARS LANDING - PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

GARAGE C ELEVATIONS

A2.32

All drawings are the property of Galloway Construction, Inc. and are to be used only for the project and location specifically identified on the drawing. No part of these drawings may be reproduced without the written consent of Galloway Construction, Inc. © 2021

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE
 AND ARE THE PROPERTY OF GALLOWAY, AND MAY
 NOT BE DUPLICATED, DISCLOSED, OR
 REPRODUCED WITHOUT THE WRITTEN CONSENT
 OF GALLOWAY. COPYRIGHTS AND
 INFRINGEMENTS
 WILL BE ENFORCED AND PROSECUTED.



MARS LANDING - PROJECT DEVELOPMENT PLAN

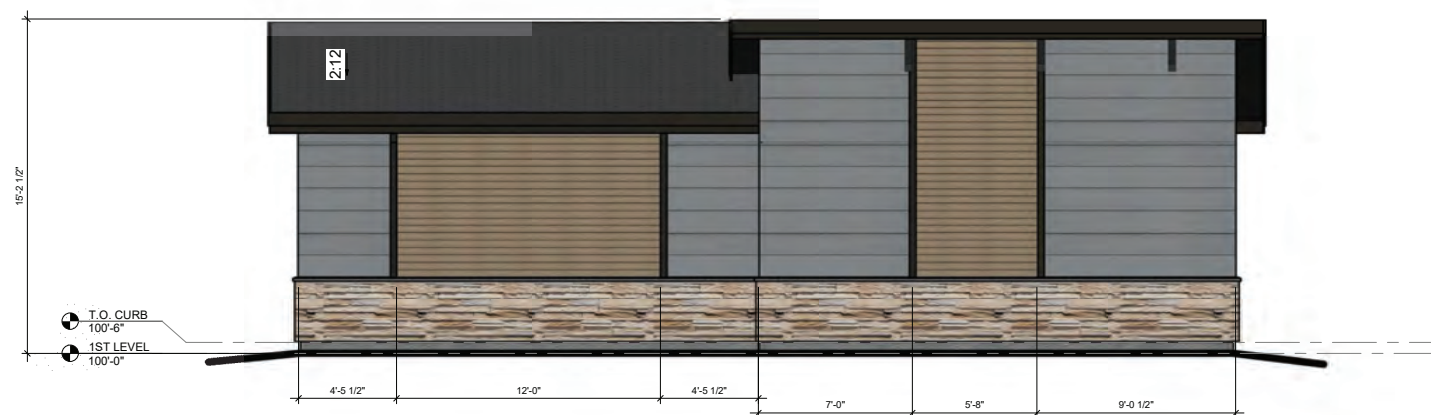
FORT COLLINS, CO

#	Date	Issue / Description	Init.

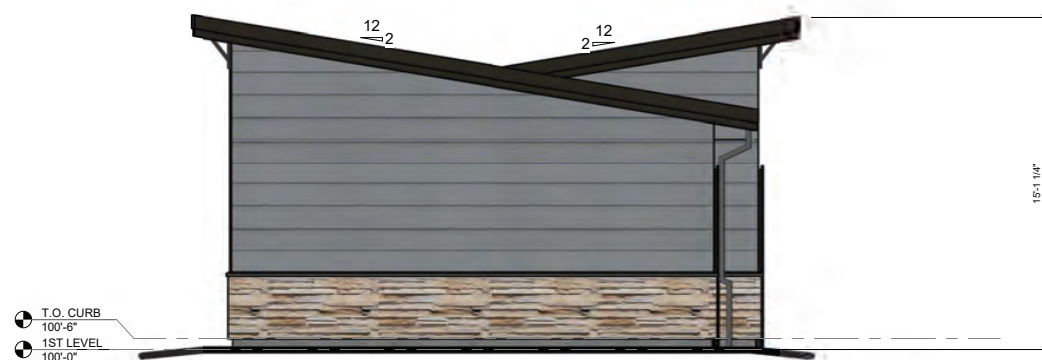
Project No: GNK000008
 Drawn By: DA
 Checked By: CW
 Date: 06.09.2021

GARAGE D
 ELEVATIONS

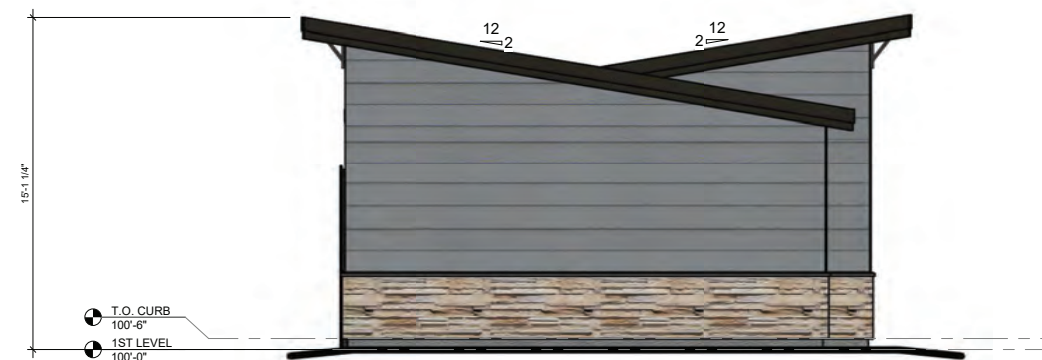
A2.33



1 GARAGE D - REAR ELEVATION
 1/4" = 1'-0"



2 GARAGE D - LEFT SIDE ELEVATION
 1/4" = 1'-0"



3 GARAGE D - RIGHT SIDE ELEVATION
 1/4" = 1'-0"

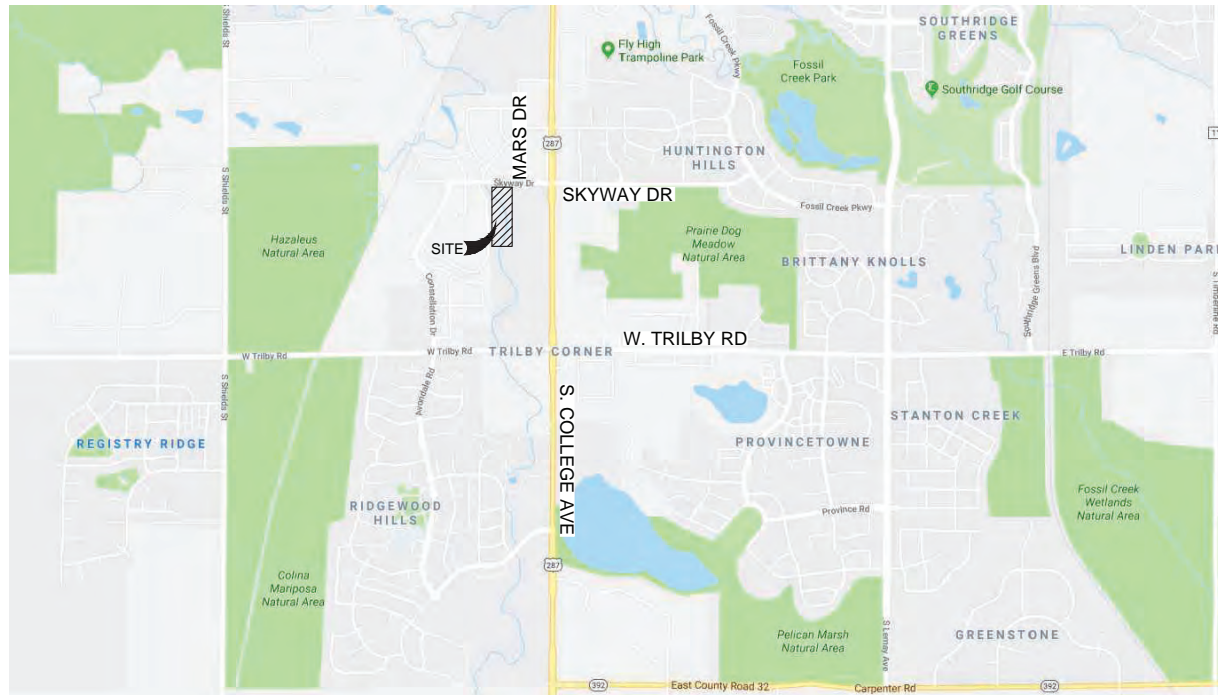


4 GARAGE D - FRONT ELEVATION
 1/4" = 1'-0"

UTILITY PLANS FOR: MARS LANDING

OUT LOT A, SOUTH COLLEGE STORAGE SUBDIVISION
LOCATED IN THE SOUTHEAST QUARTER OF SECTION 11, T. 6 N., R. 69
W. OF THE 6TH P.M.
CITY OF FORT COLLINS, COUNTY OF LARIMER, STATE OF COLORADO

JULY 2021



SHEET INDEX

C0.0	COVER SHEET
C0.1	GENERAL NOTES
C1.0-C1.1	EXISTING CONDITIONS PLAN
C2.0-C2.2	GRADING PLAN
C3.0	UTILITY PLAN
C3.1-C3.2	WATER DETAILS
C4.0	SANITARY SEWER PLAN
C4.1	SANITARY SEWER DETAILS
C5.0	STORM DRAIN PLAN
C5.1-C5.5	STORM DRAIN DETAILS
C6.0	MARS DRIVE PLAN AND PROFILE
C6.1	COLLEGE AVENUE SIDEWALK PLAN
C6.2	SIGNAGE AND STRIPING PLAN
C7.0-C7.1	EROSION CONTROL PLAN
C7.2-C7.3	EROSION CONTROL DETAILS
C8.0	DRAINAGE PLAN

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY. AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN
FORT COLLINS, CO

PROJECT TEAM:



DEVELOPER / APPLICANT
Goodwin Knight
Mark Johnson, RLA
8675 Explorer Dr., Suite 250
Colorado Springs, Colorado 80920
719.588.5192



SITE ENGINEER / SURVEYOR
Galloway & Company
James E. Phlog
5265 Ronald Reagan Blvd., Suite 210
Johnstown, Colorado 80534
970.800.3300



LANDSCAPE ARCHITECT
Galloway & Company
Sarah Adamson, RLA
6162 S. Willow Drive, Suite 320
Greenwood Village, Colorado 80111
303.770.8884



GEOTECHNICAL ENGINEER
Earth Engineering Consultants, LLC
4396 Greenfield Drive
Windsor, Colorado 80550
970.545.3908

UTILITY CONTACT LIST: *

UTILITY	COMPANY	CONTACT	PHONE NUMBER
GAS	Xcel Energy	Stephanie Rich	(970) 225-7828
ELECTRIC	City of Fort Collins Light and Power	Luke Unruh	(970) 416-2724
CABLE	Xfinity	Don Kapperman	(970) 484-7166
TELECOM	Centurylink	William Johnson	(970) 377-6401
WATER	FCLWD	Sam Lowe	(970) 226-3104
WASTEWATER	SFCSD	Sam Lowe	(970) 226-3104
STORMWATER	City of Fort Collins Utilities	Wes Lamarque	(970) 416-2418

* ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT. PRIOR TO CONSTRUCTION, REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

PROJECT BENCHMARKS:

BENCHMARKS

ELEVATIONS ARE BASED ON CITY OF FORT COLLINS VERTICAL CONTROL NETWORK

PROJECT DATUM: NAVD88

BENCHMARK 2-12 IS LOCATED & DESCRIBED AS FOLLOWS:
SOUTHWEST CORNER OF SOUTH COLLEGE AVE. AND SKYWAY DR. ON A CONCRETE TRAFFIC SIGNAL BASE.
ELEVATION: 5005.56' (NAVD 88)

PLEASE NOTE: THIS PLAN SET IS USING NAVD88 FOR A VERTICAL DATUM.
SURROUNDING DEVELOPMENTS HAVE USED NGVD29 UNADJUSTED DATUM (PRIOR CITY OF FORT COLLINS DATUM) FOR THEIR VERTICAL DATUMS.

IF NGVD29 UNADJUSTED DATUM (PRIOR CITY OF FORT COLLINS DATUM) IS REQUIRED FOR ANY PURPOSE, THE FOLLOWING EQUATION SHOULD BE USED: NGVD29 UNADJUSTED DATUM (PRIOR CITY OF FORT COLLINS DATUM) + NAVD88 DATUM - 3.19'

BENCHMARK 38-94 IS LOCATED & DESCRIBED AS FOLLOWS:
AZIMUTH MARK (3 1/4" ALUMINUM CAP) ON THE NORTH SIDE OF TRILBY RD, 1/2 MILE WEST OF COLLEGE AVE. AT THE SOUTHWEST CORNER OF 508 WEST TRILBY RD. (GOOD SAMARITAN RETIREMENT CENTER). ALSO 5.5 FT WEST OF A POWERPOLE AND 24.5 FT SOUTH OF A WOOD FENCE.
ELEVATION: 5093.76' (NAVD 88)

PLEASE NOTE: THIS PLAN SET IS USING NAVD88 FOR A VERTICAL DATUM.
SURROUNDING DEVELOPMENTS HAVE USED NGVD29 UNADJUSTED DATUM (PRIOR CITY OF FORT COLLINS DATUM) FOR THEIR VERTICAL DATUMS.

IF NGVD29 UNADJUSTED DATUM (PRIOR CITY OF FORT COLLINS DATUM) IS REQUIRED FOR ANY PURPOSE, THE FOLLOWING EQUATION SHOULD BE USED: NGVD29 UNADJUSTED DATUM (PRIOR CITY OF FORT COLLINS DATUM) + NAVD88 DATUM - 3.18'

CERTIFICATION STATEMENT:

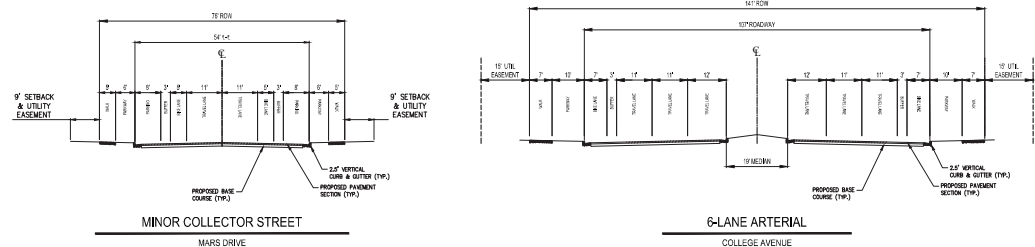
I hereby affirm that these final construction plans were prepared under my direct supervision, in accordance with all applicable City of Fort Collins and State of Colorado standards and statutes, respectively, and that I am fully responsible for the accuracy of all design, revisions, and record conditions that I have noted on these plans.

DISCLAIMER STATEMENT:

These plans have been reviewed by the City of Fort Collins for concept only. The review does not imply responsibility by the reviewing department, the City of Fort Collins Engineer, or the City of Fort Collins for accuracy and correctness of the calculations. Furthermore, the review does not imply that quantities of items on the plans are the final quantities required. The review shall not be construed for any reason as acceptance of financial responsibility by the City of Fort Collins for additional quantities of items shown that may be required during the construction phase.

VICINITY MAP

SCALE: NTS



CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



**City of Fort Collins, Colorado
UTILITY PLAN APPROVAL**

APPROVED: _____ City Engineer	Approved Sheets	Date
APPROVED: _____ Water & Wastewater Utility	Approved Sheets	Date
APPROVED: _____ Stormwater Utility	Approved Sheets	Date
APPROVED: _____ Park Planning and Development	Approved Sheets	Date
APPROVED: _____ Traffic Operations	Approved Sheets	Date
APPROVED: _____ Environmental Planner	Approved Sheets	Date

**FORT COLLINS - LOVELAND
WATER DISTRICT
SOUTH FORT COLLINS
SANITATION DISTRICT**

District Engineer _____ Date _____

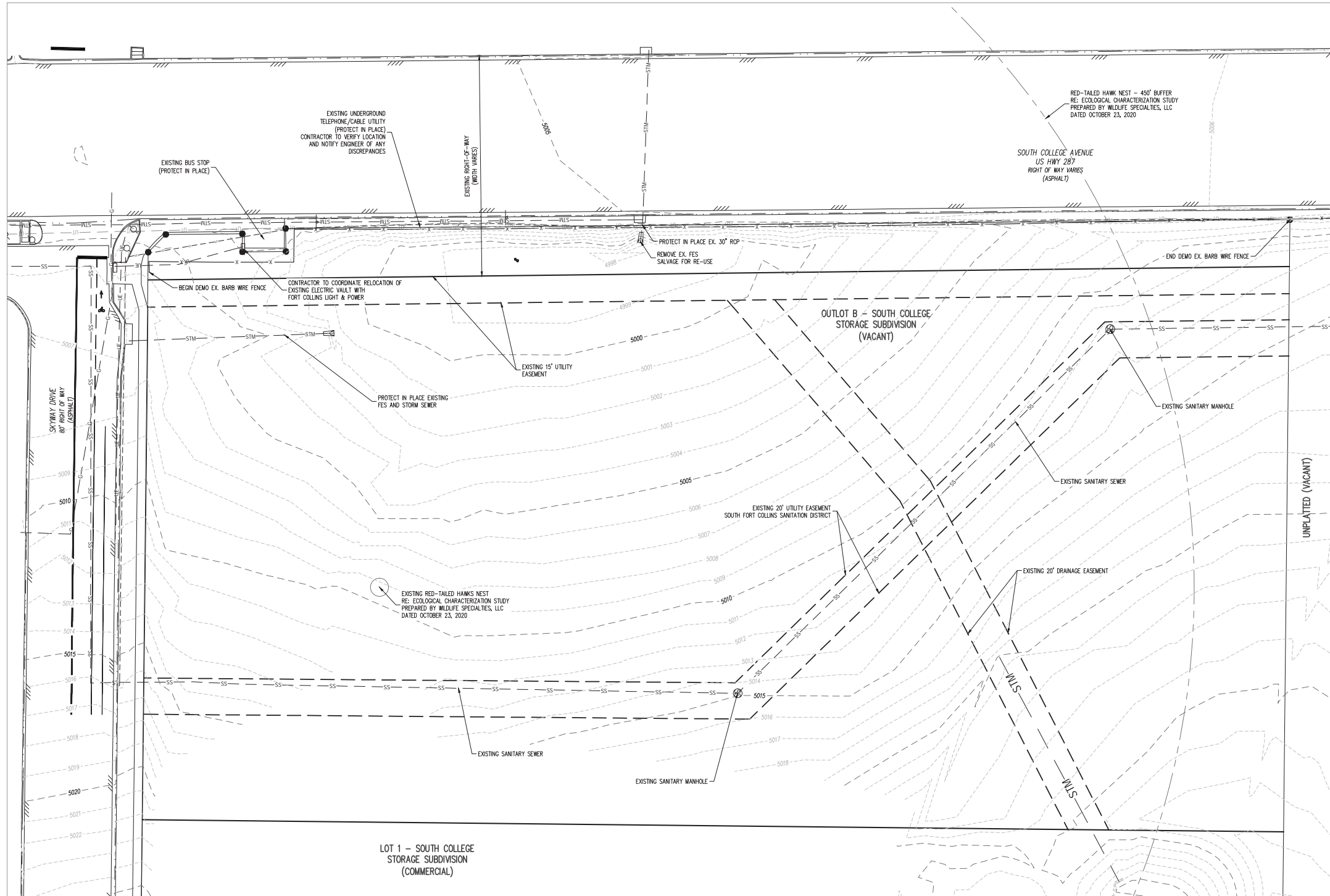
All changes, addendums, additions, deletions and modifications to these drawings must be approved, in writing, by the Fort Collins-Loveland Water District and the South Fort Collins Sanitation District.

#	Date	Issue / Description	Init.

Project No: GNM000008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

COVER SHEET

C0.0



LEGEND:

EXISTING WATER MAIN	— W —
EXISTING SANITARY SEWER	— SS —
EXISTING FIRE HYDRANT	(Symbol: Fire hydrant)
EXISTING WATER VALVE	(Symbol: Valve)
EXISTING STORM SEWER	— STM —
EXISTING MANHOLE	(Symbol: Manhole)
EXISTING FES	(Symbol: FES)
EXISTING GAS	— G —
EXISTING ELECTRIC	— UE —
EXISTING TELEPHONE	— UT —
EXISTING ELECTRIC METER	(Symbol: Meter)
EXISTING ELECTRIC RISER	(Symbol: Riser)
EXISTING ELECTRIC TRANSFORMER	(Symbol: Transformer)
EXISTING EDGE OF ASPHALT	=====
EXISTING CURB AND GUTTER	====-====
EXISTING MAJOR CONTOUR	— 4945 —
EXISTING MINOR CONTOUR	--- ---
EXISTING RIGHT-OF-WAY	-----
EXISTING LOTLINE	-----
EASEMENT LINE	-----
EXISTING NATURAL HABITAT BUFFER ZONE (TO BE VACATED)	(Symbol: Hatched area)
EXISTING TREE TO BE REMOVED	(Symbol: Tree with cross)

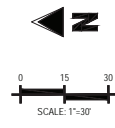
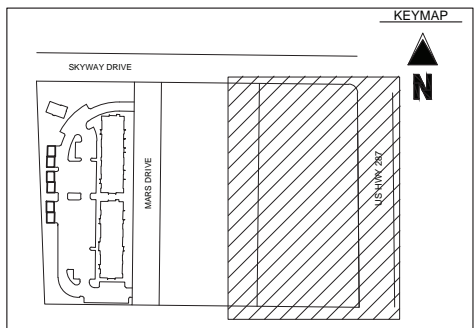
- NOTES:**
- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL ALL UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO ANY CONSTRUCTION TO VERIFY EXACT UTILITY LOCATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DEMOLITION, REMOVAL, REPLACEMENT, AND DISPOSAL OF ALL FACILITIES AND MATERIAL.
 - ALL SYMBOLS ARE GRAPHICAL IN NATURE AND ARE NOT TO SCALE.
 - CURB, GUTTER AND SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO ANY ON-SITE, PUBLIC OR PRIVATE FACILITY AS A RESULT OF THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL PROTECT TO THE EXTENT POSSIBLE ALL EXISTING FEATURES THAT ARE NOT TO BE REMOVED ADJACENT TO OR WITHIN THE CONSTRUCTION AREA.
 - THE LIMITS OF STREET CUT ARE APPROXIMATE. FINAL LIMITS ARE TO BE DETERMINED IN THE FIELD BY THE TOWN ENGINEER INSPECTOR. ALL REPAIRS TO BE PER THE LATEST TOWN STREET REPAIR STANDARDS.
 - CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ITEMS THAT IMPACT ADJACENT PROPERTIES WITH THE PROPERTY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.

- CITY OF FORT COLLINS TREE PROTECTION NOTES:**
- ALL EXISTING TREES WITHIN THE LIMITS OF THE DEVELOPMENT AND WITHIN ANY NATURAL AREA BUFFER ZONES SHALL REMAIN AND BE PROTECTED UNLESS NOTED ON THESE PLANS FOR REMOVAL.
 - WITHIN THE DRIP LINE OF ANY PROTECTED EXISTING TREE, THERE SHALL BE NO CUT OR FILL OVER A FOUR-INCH DEPTH UNLESS A QUALIFIED ARBORIST OR FORESTER HAS EVALUATED AND APPROVED THE DISTURBANCE.
 - ALL PROTECTED EXISTING TREES SHALL BE PRUNED TO THE CITY OF FORT COLLINS FORESTRY STANDARDS. TREE PRUNING AND REMOVAL SHALL BE PERFORMED BY A BUSINESS THAT HOLDS A CURRENT CITY OF FORT COLLINS ARBORIST LICENSE WHERE REQUIRED BY CODE.
 - PRIOR TO AND DURING CONSTRUCTION, BARRIERS SHALL BE ERRECTED AROUND ALL PROTECTED EXISTING TREES WITH SUCH BARRIERS TO BE OF ORANGE FENCING A MINIMUM OF FOUR (4) FEET IN HEIGHT, SECURED WITH METAL T-POSTS, NO CLOSER THAN SIX (6) FEET FROM THE TRUNK OR ONE-HALF (1/2) OF THE DRIP LINE, WHOEVER IS GREATER. THERE SHALL BE NO STORAGE OR MOVEMENT OF EQUIPMENT, MATERIAL, DEBRIS OR FILL WITHIN THE FENCED TREE PROTECTION ZONE.
 - DURING THE CONSTRUCTION STAGE OF DEVELOPMENT, THE APPLICANT SHALL PREVENT THE CLEANING OF EQUIPMENT OR MATERIAL OR THE STORAGE AND DISPOSAL OF WASTE MATERIAL SUCH AS PAINTS, OILS, SOLVENTS, ASPHALT, CONCRETE, MOTOR OIL OR ANY OTHER MATERIAL HARMFUL TO THE LIFE OF A TREE WITHIN THE DRIP LINE OF ANY PROTECTED TREE OR GROUP OF TREES.
 - NO DAMAGING ATTACHMENT, WIRES, SIGNS OR PERMITS MAY BE FASTENED TO ANY PROTECTED TREE.
 - LARGE PROPERTY AREAS CONTAINING PROTECTED TREES AND SEPARATED FROM CONSTRUCTION OR LAND CLEARING AREAS, ROAD RIGHTS-OF-WAY AND UTILITY EASEMENTS MAY BE "RIBBONED OFF," RATHER THAN ERRECTING PROTECTIVE FENCING AROUND EACH TREE AS REQUIRED IN SUBSECTION (G)(3) THIS MAY BE ACCOMPLISHED BY PLACING METAL T-POST STAKES A MAXIMUM OF FIFTY (50) FEET APART AND TYING RIBBON OR ROPE FROM STAKE-TO-STAKE ALONG THE OUTSIDE PERIMETERS OF SUCH AREAS BEING CLEARED.
 - THE INSTALLATION OF UTILITIES, IRRIGATION LINES OR ANY UNDERGROUND FIXTURE REQUIRING EXCAVATION DEEPER THAN SIX (6) INCHES SHALL BE ACCOMPLISHED BY BORING UNDER THE ROOT SYSTEM OF PROTECTED EXISTING TREES AT A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES. THE AUGER DISTANCE IS ESTABLISHED FROM THE FACE OF THE TREE (OUTER BARK) AND IS SCALED FROM TREE DIAMETER AT BREAST HEIGHT AS DESCRIBED IN THE CHART BELOW:
- | TREE DIAMETER AT BREAST HEIGHT (INCHES) | AUGER DISTANCE FROM FACE OF TREE (FEET) |
|---|---|
| 0-2 | 2 |
| 3-4 | 2 |
| 5-9 | 3 |
| 10-14 | 10 |
| 15-19 | 12 |
| OVER 19 | 15 |
- ALL TREE REMOVAL SHOWN SHALL BE COMPLETED OUTSIDE OF THE SONGBIRD NESTING SEASON (FEB 1 - JULY 31) OR CONDUCT A SURVEY OF TREES ENSURING NO ACTIVE NESTS IN THE AREA.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

811
Know what's below.
Call before you dig.



Galloway

5265 Ronald Reagan Blvd., Suite 210
Johnstown, CO 80534
970.800.3300
GallowayUS.com

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN
FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNC000008
 Drawn By: DBC
 Checked By: JEP
 Date: 07.28.2021

**OFFSITE EXISTING
CONDITIONS & DEMO PLAN**

C1.1

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.

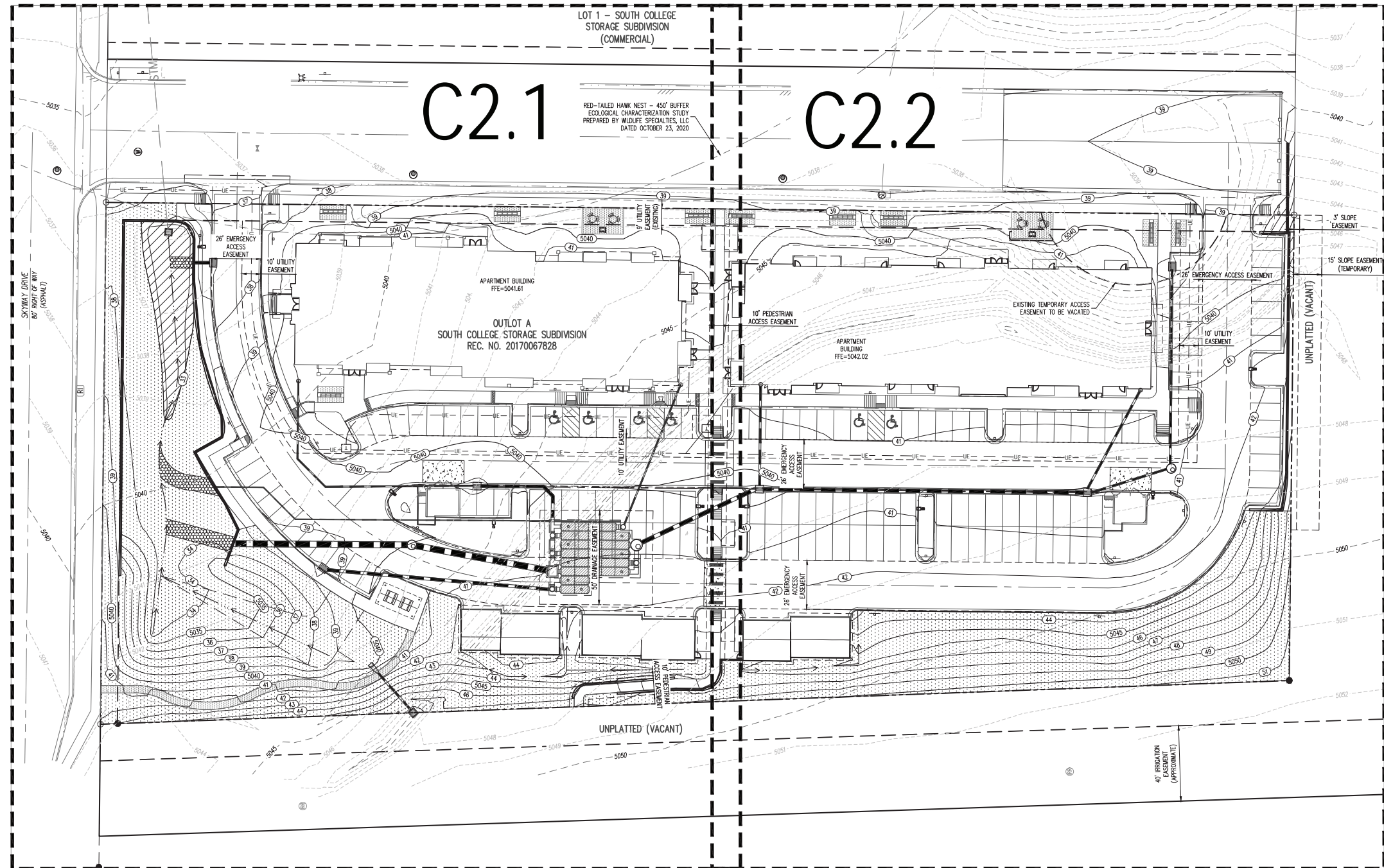


MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO



0 15 30
SCALE 1"=30'



LEGEND:

- PROPOSED CURB AND GUTTER
- PROPOSED CURB AND GUTTER - OUTFALL
- EXISTING CURB AND GUTTER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED STORM INLET
- EXISTING STORM INLET
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING RIGHT-OF-WAY
- EXISTING LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED SLOPES
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- FINISHED GRADE AT TOP OF WALL
- FINISHED GRADE AT BOTTOM OF WALL
- TOP OF GRATE ELEVATION
- FLOW LINE ELEVATION
- HIGH POINT ELEVATION
- LOW POINT ELEVATION
- EDGE OF CONCRETE
- PROPOSED NATURAL HABITAT BUFFER ZONE (NHBZ)
- PROPOSED WETLAND MITIGATION AREA

NOTES:

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL ALL UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO ANY CONSTRUCTION TO VERIFY EXACT UTILITY LOCATION.
2. ELEVATIONS SHOWN HAVE BEEN ABBREVIATED. THE ENTIRE ELEVATION IS THE ELEVATION SHOWN PLUS 5000 FEET (9.81 = 5099.81).
3. ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS. ALL OTHER SPOTS ARE LOT CORNERS, OVERLOT OR FINISHED GRADE FOR LANDSCAPE AREAS.
4. ADA PARKING STALLS HAVE A 2% MAXIMUM SLOPE IN ANY DIRECTION.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



#	Date	Issue / Description	Init.

Project No: GNC000008
 Drawn By: DBC
 Checked By: JEP
 Date: 07.28.2021

OVERALL GRADING PLAN

C2.0

© GallowayUS.com. All rights reserved. Mars Landing 10/20/21 (C2.0). All other drawings are the property of GallowayUS.com.

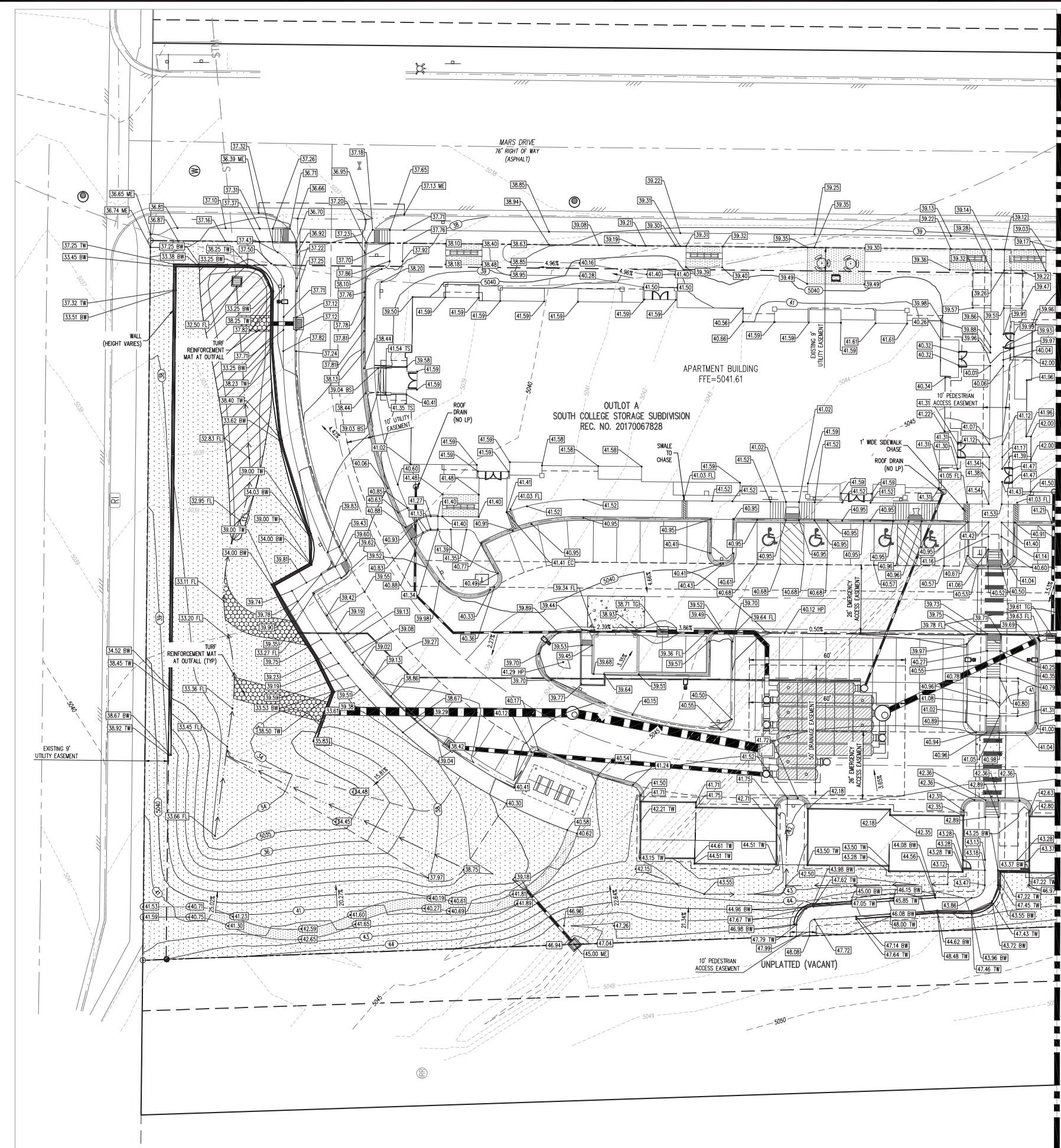
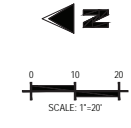
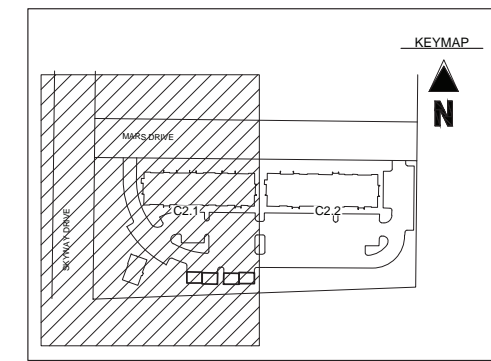
PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE
AND ARE THE PROPERTY OF GALLOWAY, AND MAY
NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED
WITHOUT THE WRITTEN CONSENT OF GALLOWAY.
COPYRIGHTS AND INFRINGEMENTS WILL BE
ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO



MATCHLINE-SEE SHEET C2.2

LEGEND:

- PROPOSED CURB AND GUTTER
- PROPOSED CURB AND GUTTER - OUTFALL
- EXISTING CURB AND GUTTER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED STORM INLET
- EXISTING STORM INLET
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING RIGHT-OF-WAY
- EXISTING LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED SLOPES
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- FINISHED GRADE AT TOP OF WALL
- FINISHED GRADE AT BOTTOM OF WALL
- TOP OF GRATE ELEVATION
- FLOW LINE ELEVATION
- HIGH POINT ELEVATION
- LOW POINT ELEVATION
- EDGE OF CONCRETE
- PROPOSED NATURAL HABITAT BUFFER ZONE (NHBZ)
- PROPOSED WETLAND MITIGATION AREA

NOTES:

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL ALL UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO ANY CONSTRUCTION TO VERIFY EXACT UTILITY LOCATION.
- ELEVATIONS SHOWN HAVE BEEN ABBREVIATED. THE ENTIRE ELEVATION IS THE ELEVATION SHOWN PLUS 5000 FEET (9+81 = 509+81).
- ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS. ALL OTHER SPOTS ARE LOT CORNERS, OVERLOT OR FINISHED GRADE FOR LANDSCAPE AREAS.
- ADA PARKING STALLS HAVE A 2% MAXIMUM SLOPE IN ANY DIRECTION.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

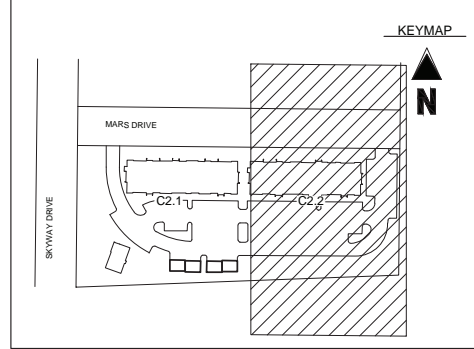
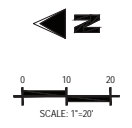
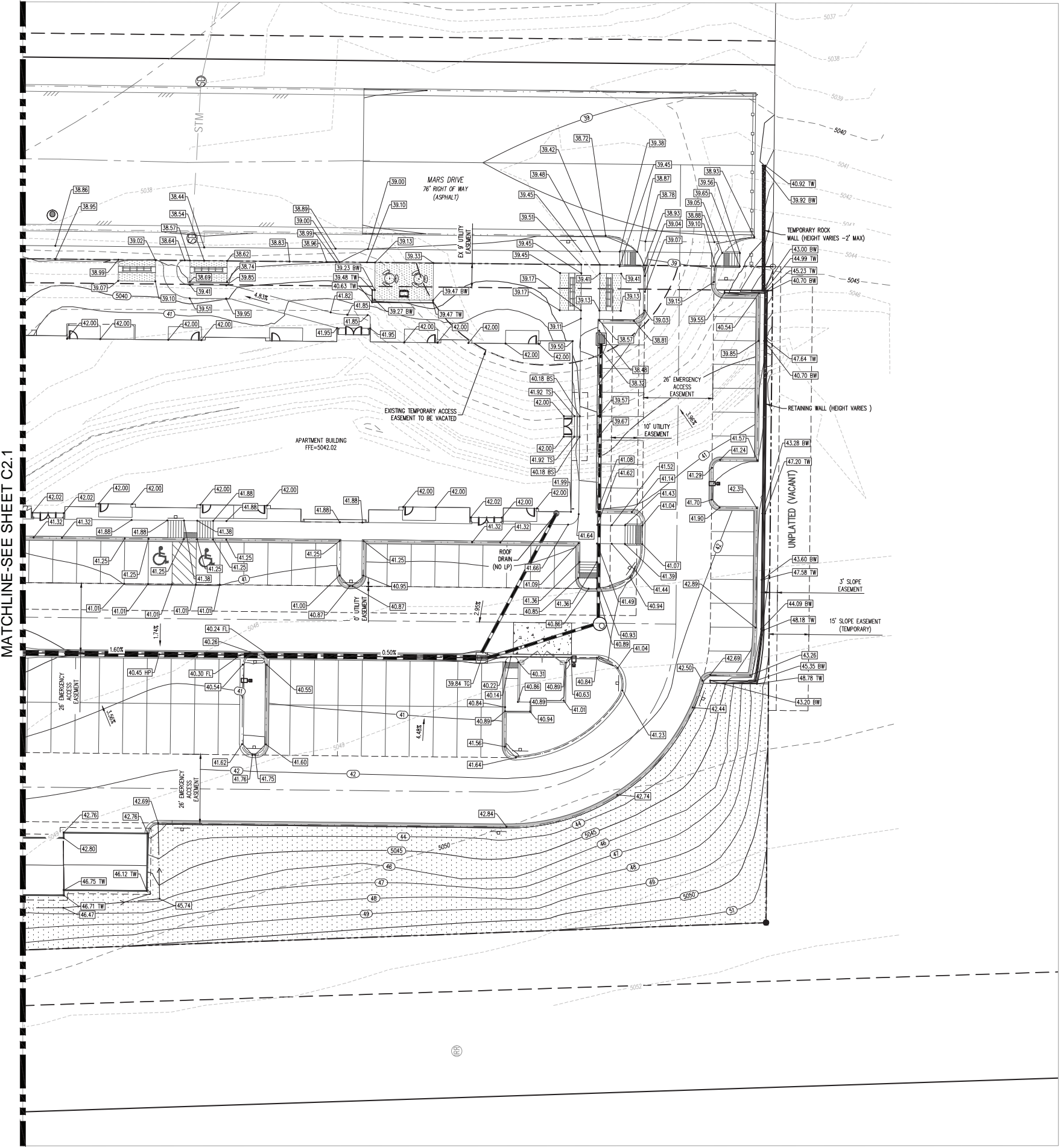


#	Date	Issue / Description	Init.

Project No: GNC000008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

DETAILED GRADING PLAN

C2.1



LEGEND:

PROPOSED CURB AND GUTTER	
PROPOSED CURB AND GUTTER - OUTFALL	
EXISTING CURB AND GUTTER	
PROPOSED STORM SEWER	
EXISTING STORM SEWER	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED STORM INLET	
EXISTING STORM INLET	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EXISTING MAJOR CONTOUR	
EXISTING MINOR CONTOUR	
EXISTING RIGHT-OF-WAY	
EXISTING LOT LINE	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT LINE	
PROPOSED SLOPES	
PROPOSED SPOT ELEVATION	
EXISTING SPOT ELEVATION	
FINISHED GRADE AT TOP OF WALL	
FINISHED GRADE AT BOTTOM OF WALL	
TOP OF GRATE ELEVATION	
FLOW LINE ELEVATION	
HIGH POINT ELEVATION	
LOW POINT ELEVATION	
EDGE OF CONCRETE	
PROPOSED NATURAL HABITAT BUFFER ZONE (NHBZ)	
PROPOSED WETLAND MITIGATION AREA	

- NOTES:**
- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL ALL UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO ANY CONSTRUCTION TO VERIFY EXACT UTILITY LOCATION.
 - ELEVATIONS SHOWN HAVE BEEN ABBREVIATED. THE ENTIRE ELEVATION IS THE ELEVATION SHOWN PLUS 5000 FEET (509.81 + 5009.81).
 - ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS. ALL OTHER SPOTS ARE LOT CORNERS, OVERLOT OR FINISHED GRADE FOR LANDSCAPE AREAS.
 - ADA PARKING STALLS HAVE A 2% MAXIMUM SLOPE IN ANY DIRECTION.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

Know what's below. Call before you dig.

Galloway
 5265 Ronald Reagan Blvd., Suite 210
 Johnstown, CO 80534
 970.800.3300
 GallowayUS.com

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY. AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MATCHLINE - SEE SHEET C2.1

MARS LANDING
PROJECT DEVELOPMENT PLAN
 FORT COLLINS, CO

#	Date	Issue / Description	Init.

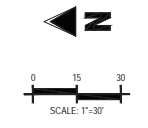
Project No: GNC000008
 Drawn By: DBC
 Checked By: JEP
 Date: 07.28.2021
DETAILED GRADING PLAN

C2.2

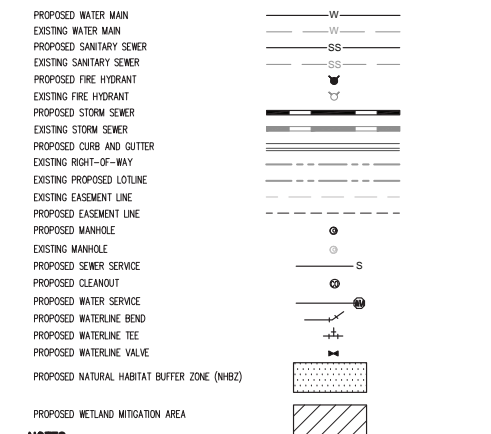
D:\Projects\18042021\18042021_012_DetailedGradingPlan_Spreadsheet.dwg, 07/28/2021

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



LEGEND:



NOTES:

1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
2. ALL WATER AND SEWER CONSTRUCTION SHALL BE PER THE FORT COLLINS LOWLAND WATER DISTRICT AND THE SOUTH FORT COLLINS SANITATION DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS LATEST EDITION.
3. ALL WATER FITTINGS AND VALVES ARE ONLY GRAPHICALLY REPRESENTED AND ARE NOT TO SCALE.
4. MAINTAIN 10' HORIZONTAL AND 18" VERTICAL MINIMUM SEPARATION BETWEEN ALL SANITARY SEWER MAINS, STORM SEWER MAINS, WATER MAINS & SERVICES.
5. CONFIRM HORIZONTAL AND VERTICAL LOCATION OF WATER, STORM AND SANITARY SEWER TIE-INS TO EXISTING LOCATIONS PRIOR TO CONSTRUCTION. CONTACT DESIGN ENGINEER WITH ANY DISCREPANCIES.
6. MINIMUM SEWER SLOPE IS 1.04% (1/1) FOR 6" DIAMETER AND 2.08% (2/1) FOR 4" DIAMETER.
7. CONTRACTOR TO COORDINATE GAS, ELECTRIC, TELEPHONE AND CABLE SERVICES.
8. FOR WATER DETAILS SEE SHEETS C3.1-C3.2. FOR STORM DRAIN DETAILS SEE SHEET C4.1. FOR SANITARY SEWER DETAILS SEE SHEET C4.1.
9. ALL JOINTS TO BE MECHANICALLY RESTRAINED.
10. APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROVIDED ON ALL DOMESTIC, IRRIGATION AND FIRE SERVICES.
11. ALL WATER AND SEWER MAINS AND SERVICE LATERALS SHALL BE 10' FROM TREE TRUNKS AND 5' FROM LIGHT POLES.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



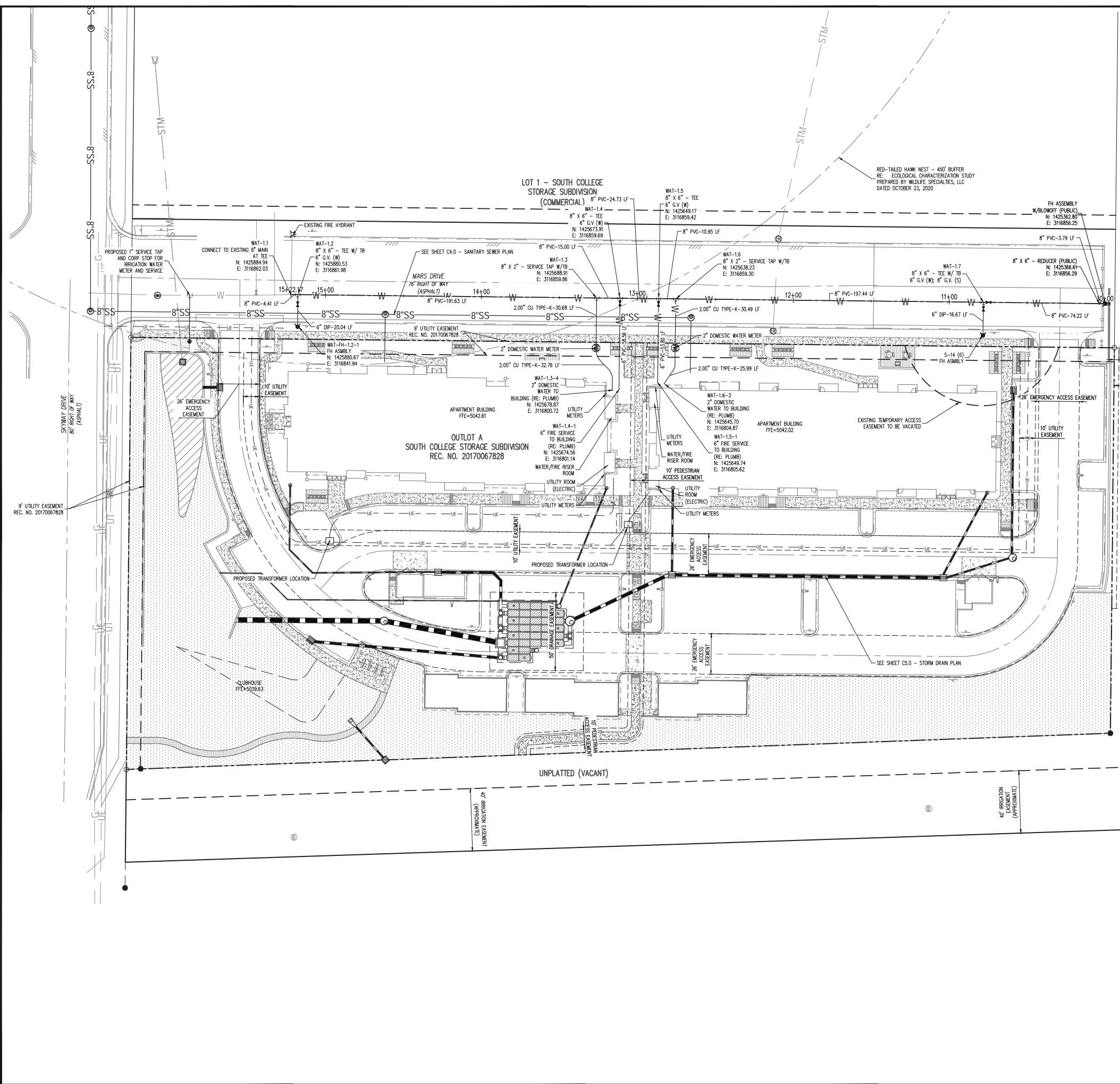
MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

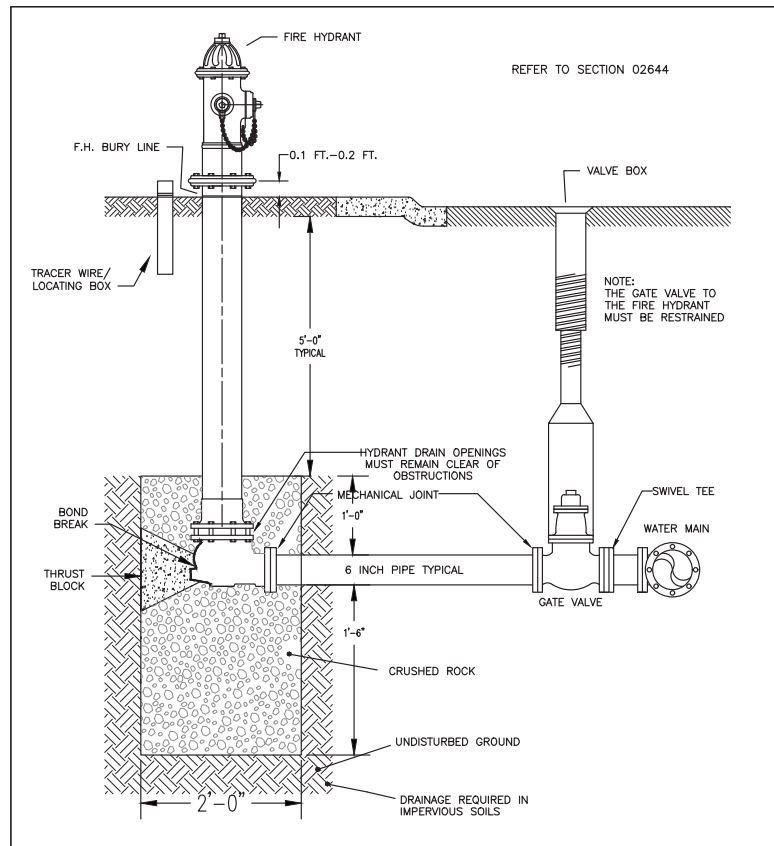
#	Date	Issue / Description	Init.

Project No: GNM000008
 Drawn By: DBC
 Checked By: JEP
 Date: 07.28.2021

UTILITY PLAN

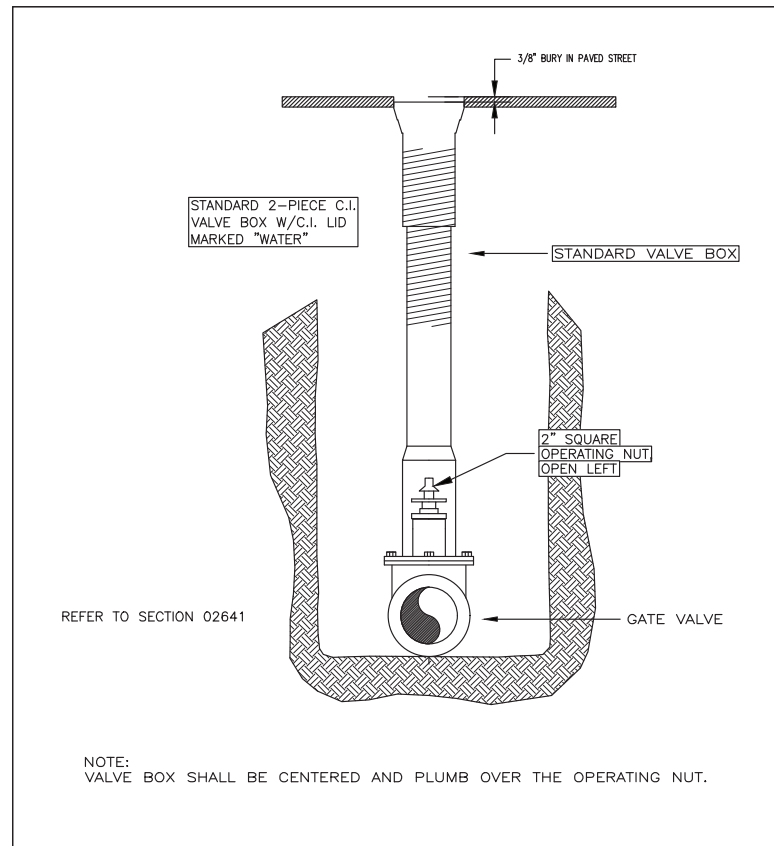


© GallowayUS.com. All rights reserved. This drawing is the property of GallowayUS.com. All utility lines shown are approximate. See sheet C4.1 for utility details. Date: 07.28.2021



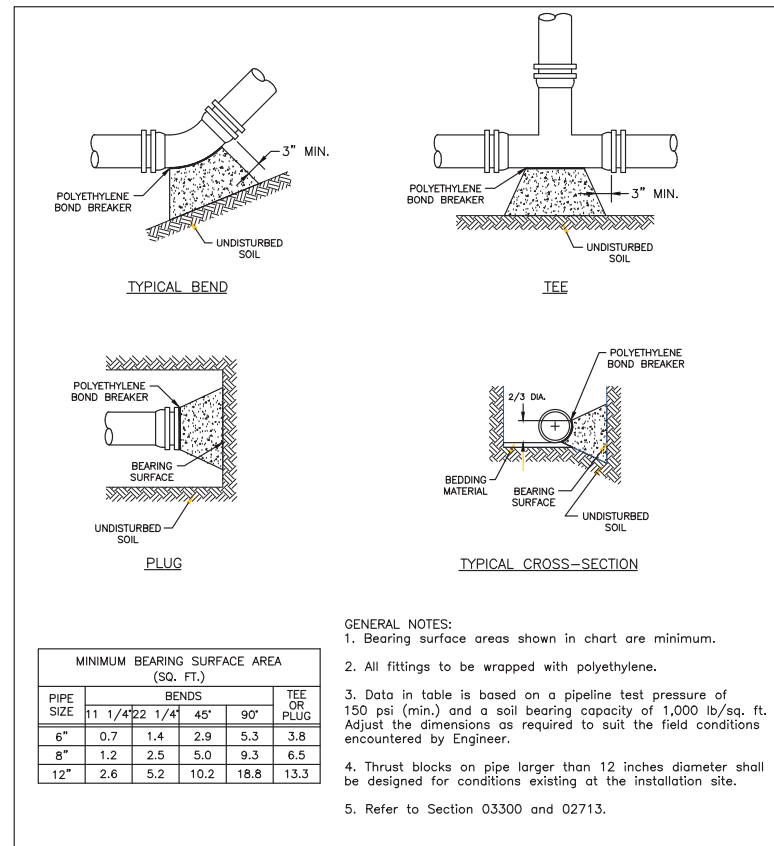
TYPICAL FIRE HYDRANT INSTALLATION

	FORT COLLINS - LOVELAND WATER DISTRICT Office (970) 226-3104 Fax (970) 226-0186	APPROVED: DATE: 6-18-2010	SCALE: NTS
--	--	------------------------------	------------



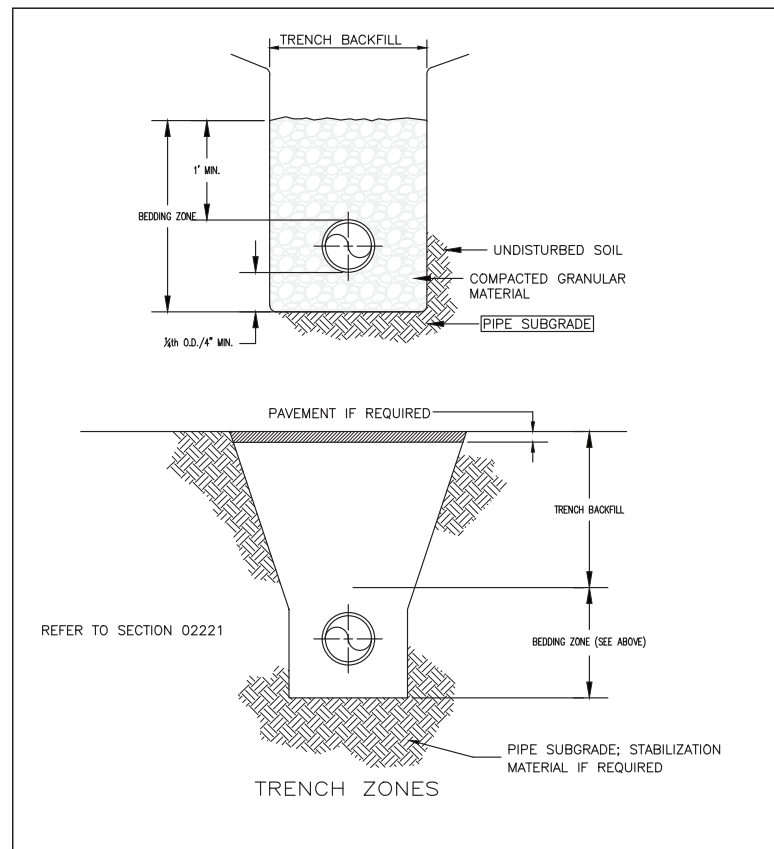
TYPICAL GATE VALVE INSTALLATION

	FORT COLLINS - LOVELAND WATER DISTRICT Office (970) 226-3104 Fax (970) 226-0186	APPROVED: DATE: 6-18-2010	SCALE: NTS
--	--	------------------------------	------------



TYPICAL CONCRETE THRUST BLOCKS

	FORT COLLINS - LOVELAND WATER DISTRICT Office (970) 226-3104 Fax (970) 226-0186	APPROVED: DATE: 6-18-2010	SCALE: NTS
--	--	------------------------------	------------



TRENCH AND BEDDING TYPICAL

	FORT COLLINS - LOVELAND WATER DISTRICT Office (970) 226-3104 Fax (970) 226-0186	APPROVED: DATE: 6-18-2010	SCALE: NTS
--	--	------------------------------	------------

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No:	GMK000008
Drawn By:	DBC
Checked By:	JEP
Date:	07.28.2021

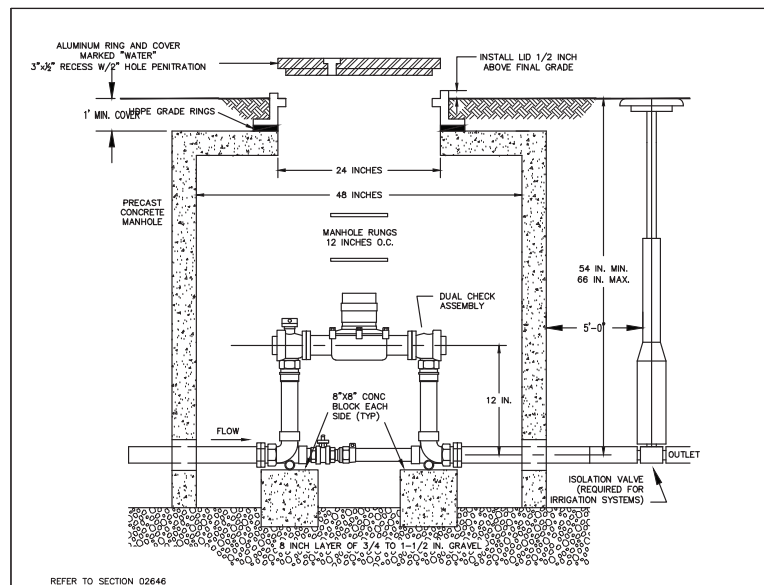
UTILITY DETAILS

C3.1

© Galloway US, Inc. 2021. All rights reserved. Mars Landing Project Development Plan, Utility Details, C3.1

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

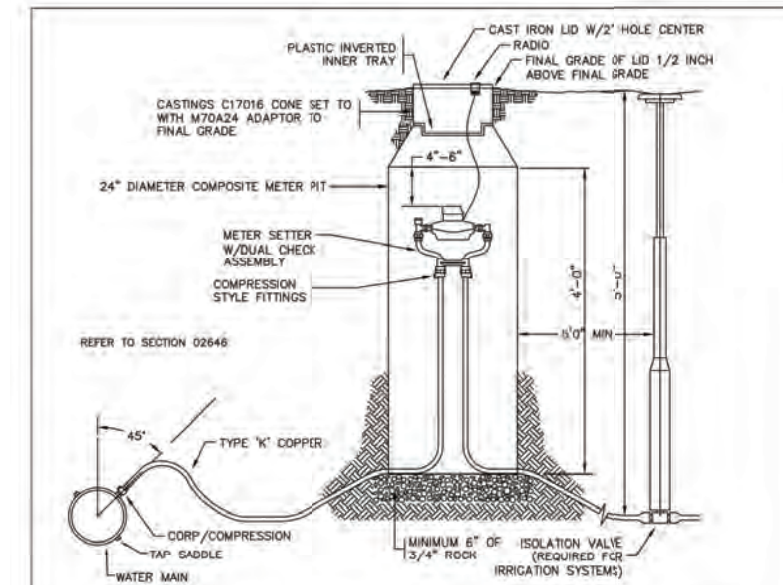
COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY. AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



- GENERAL NOTES:**
1. Meter setting devices to be "custom setters" with by-pass and flanged ball valves. Meter setters to be supported by 2 - 18" lengths of 1" iron pipe inserted through eyelets and set atop 8" x 8" concrete blocks.
 2. This meter is not to be installed in any street, alley, parking area or driveway.
 3. No landscaping (trees, shrubs, boulders, etc.) is to be within 5 feet of meter pit.
 4. Ground surrounding meter pit shall slope away from lid.
 5. No plumbing connections are to be made in meter pit.
 6. Lawn sprinkler connections are to be at least 5 feet from meter pit on the outlet side.
 7. Irrigation systems require an isolation valve downstream of vault, minimum of 5 feet.
 8. Valves to be operated by District personnel only, with exception to the irrigation isolation valve.

TYPICAL INSTALLATION FOR 1-1/2" & 2" METERS

	FORT COLLINS - LOVELAND WATER DISTRICT Office (970) 226-3104 Fax (970) 226-0186	APPROVED: DATE: 10-30-2013	SCALE: NTS



- GENERAL NOTES:**
1. METER PITS ARE TO BE INSTALLED AT CENTER OF LOT UNLESS OTHERWISE APPROVED BY THE DISTRICT. METER PITS SHALL NOT BE LOCATED IN AREAS SUBJECT TO TRAFFIC OF PEDESTRIAN WALKWAYS.
 2. NO LANDSCAPING (TREES, SHRUBS, BOULDERS, ETC.) IS TO BE WITHIN 5 FEET OF METER PIT.
 3. GROUND SURROUNDING METER PIT SHALL SLOPE AWAY FROM LID.
 4. NO PLUMBING CONNECTIONS ARE TO BE MADE IN METER PIT.
 5. LAWN SPRINKLER CONNECTIONS ARE TO BE AT LEAST 5 FEET FROM METER PIT ON THE OUTLET SIDE.
 6. IRRIGATION SYSTEMS REQUIRE AN ISOLATION VALVE DOWNSTREAM OF THE PIT, MINIMUM OF 5 FEET.
 7. VALVES TO BE OPERATED BY DISTRICT PERSONNEL ONLY, WITH EXCEPTION TO THE IRRIGATION ISOLATION VALVES.

TYPICAL METER PIT INSTALLATION

	FORT COLLINS - LOVELAND WATER DISTRICT Office (970) 226-3104 Fax (970) 226-0186	APPROVED: DATE: 9/25/2017	SCALE: NTS

MARS LANDING
PROJECT DEVELOPMENT PLAN

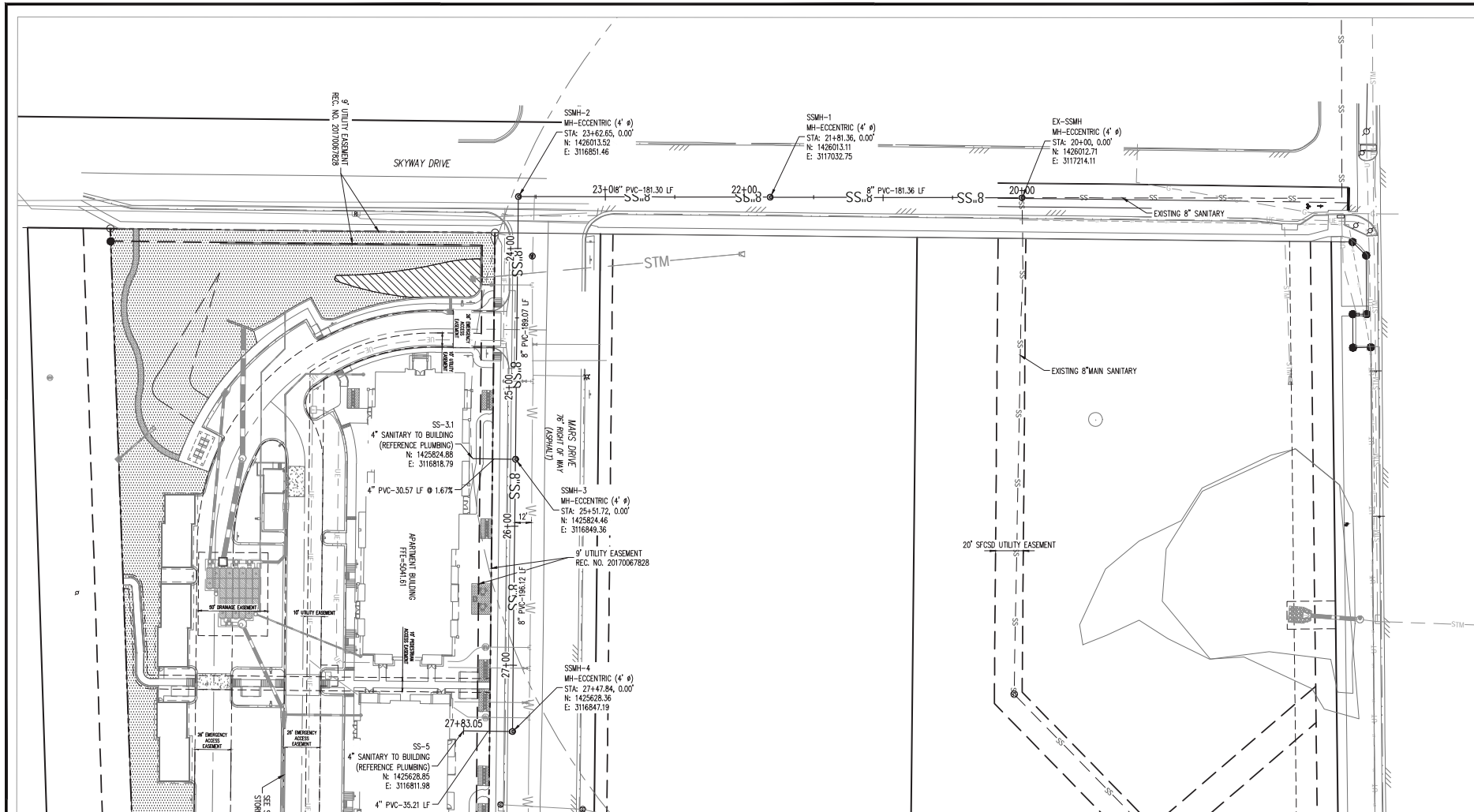
FORT COLLINS, CO

#	Date	Issue / Description	Init.

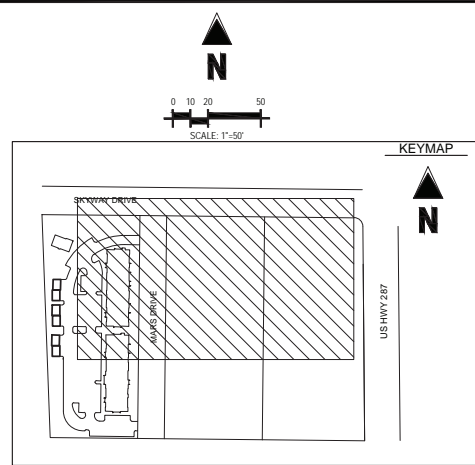
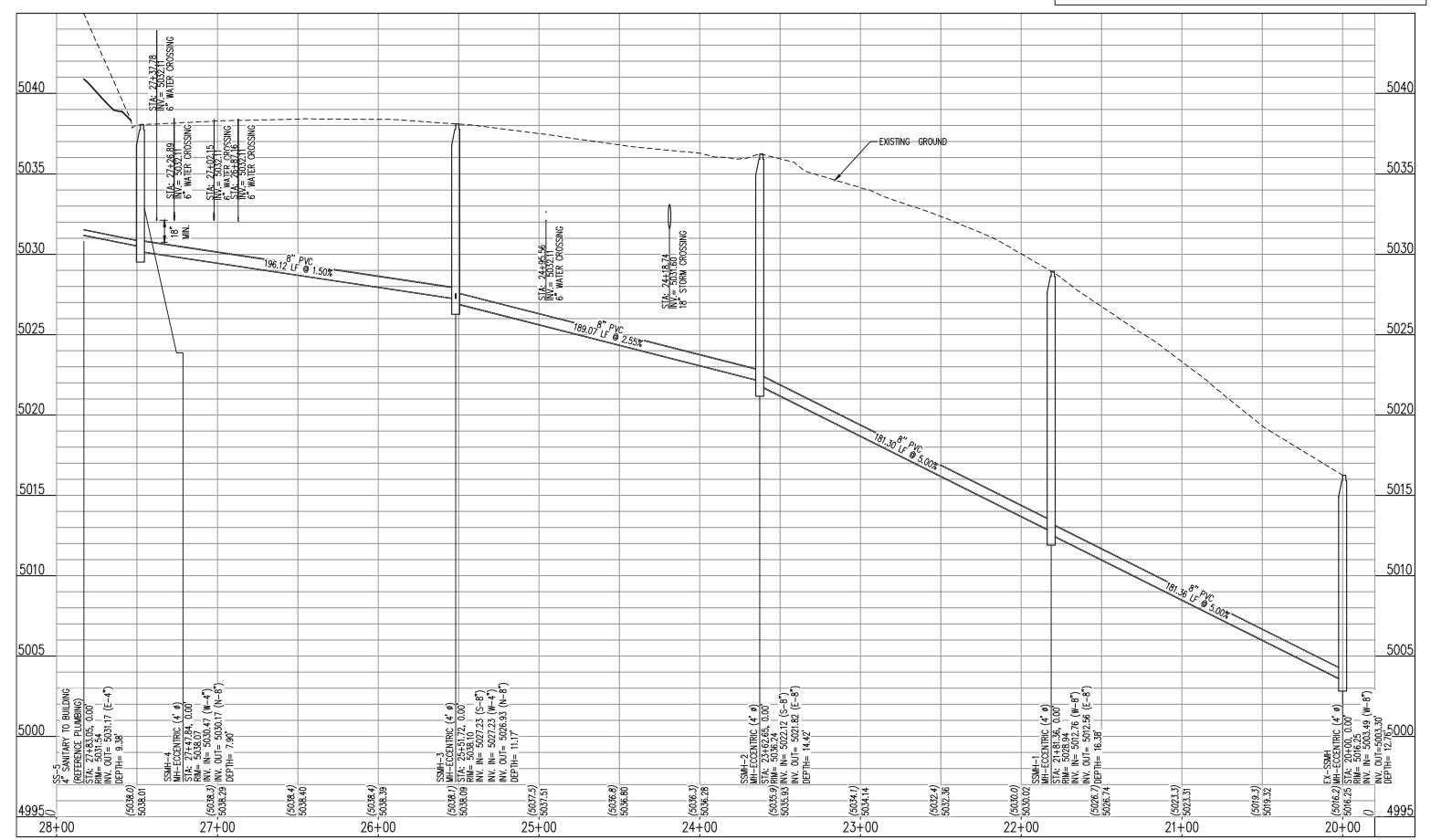
Project No:	GNK00008
Drawn By:	DBC
Checked By:	JEP
Date:	07.28.2021

UTILITY DETAILS

C3.2



SANITARY 1 STA: 20+00.00 to 27+83.05
SCALE: H: 1"=50' V: 1"=5'



LEGEND:

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED CURB AND GUTTER
- EXISTING RIGHT-OF-WAY
- EXISTING PROPOSED LOTLINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED SEWER SERVICE
- PROPOSED CLEANOUT
- PROPOSED WATER SERVICE
- PROPOSED WATERLINE BEND
- PROPOSED WATERLINE TEE
- PROPOSED WATERLINE VALVE
- PROPOSED NATURAL HABITAT BUFFER ZONE (NHZ)
- PROPOSED WETLAND MITIGATION AREA

- NOTES:**
1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
 2. ALL WATER AND SEWER CONSTRUCTION SHALL BE PER THE FORT COLLINS LEVELAND WATER DISTRICT AND THE SOUTH FORT COLLINS SANITATION DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS LATEST EDITION.
 3. ALL WATER FITTINGS AND VALVES ARE ONLY GRAPHICALLY REPRESENTED AND ARE NOT TO SCALE.
 4. MAINTAIN 10' HORIZONTAL AND 18" VERTICAL MINIMUM SEPARATION BETWEEN ALL SANITARY SEWER MAINS, STORM SEWER MAINS, WATER MAINS & SERVICES.
 5. CONFIRM HORIZONTAL AND VERTICAL LOCATION OF WATER, STORM AND SANITARY SEWER TIE-IN TO EXISTING LOCATIONS PRIOR TO CONSTRUCTION. CONTACT DESIGN ENGINEER WITH ANY DISCREPANCIES.
 6. MINIMUM SEWER SLOPE IS 1.04% (8' / 1') FOR 6" DIAMETER AND 2.08% (1" / 1') FOR 4" DIAMETER.
 7. CONTRACTOR TO COORDINATE GAS, ELECTRIC, TELEPHONE AND CABLE SERVICES.
 8. FOR WATER DETAILS SEE SHEETS C3.1-C3.2. FOR STORM DRAIN DETAILS SEE SHEET C5.1-C5.2. FOR SANITARY SEWER DETAILS SEE SHEET C4.1.
 9. ALL JOINTS TO BE MECHANICALLY RESTRAINED.
 10. APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROVIDED ON ALL DOMESTIC, IRRIGATION AND FIRE SERVICES.
 11. ALL WATER AND SEWER MAINS AND SERVICE LATERALS SHALL BE 10' FROM TREE TRUNKS AND 5' FROM LIGHT POLES.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

Know what's below. Call before you dig.

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.

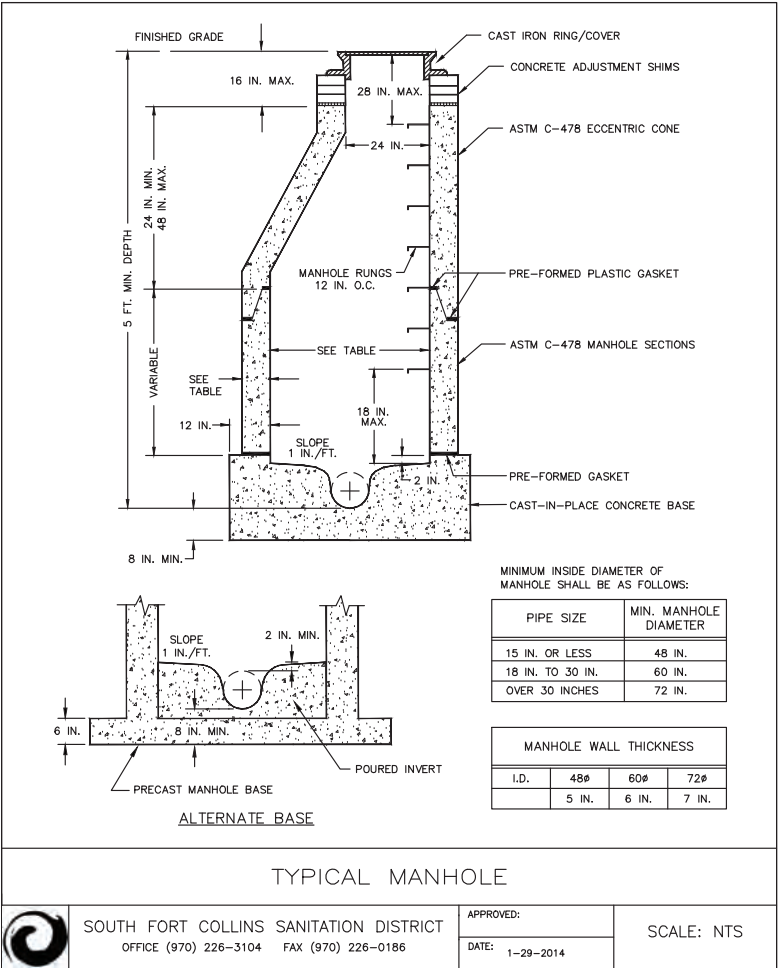
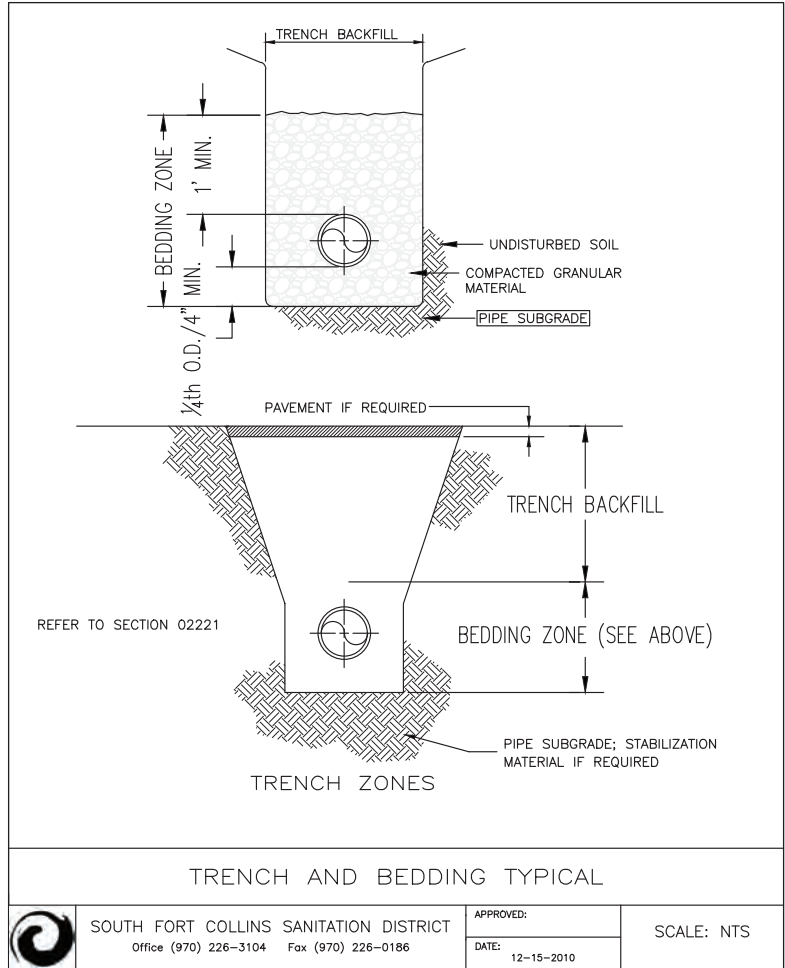


#	Date	Issue / Description	Init.

Project No: GNC000008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

SANITARY SEWER PLAN

C4.0



CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLES OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

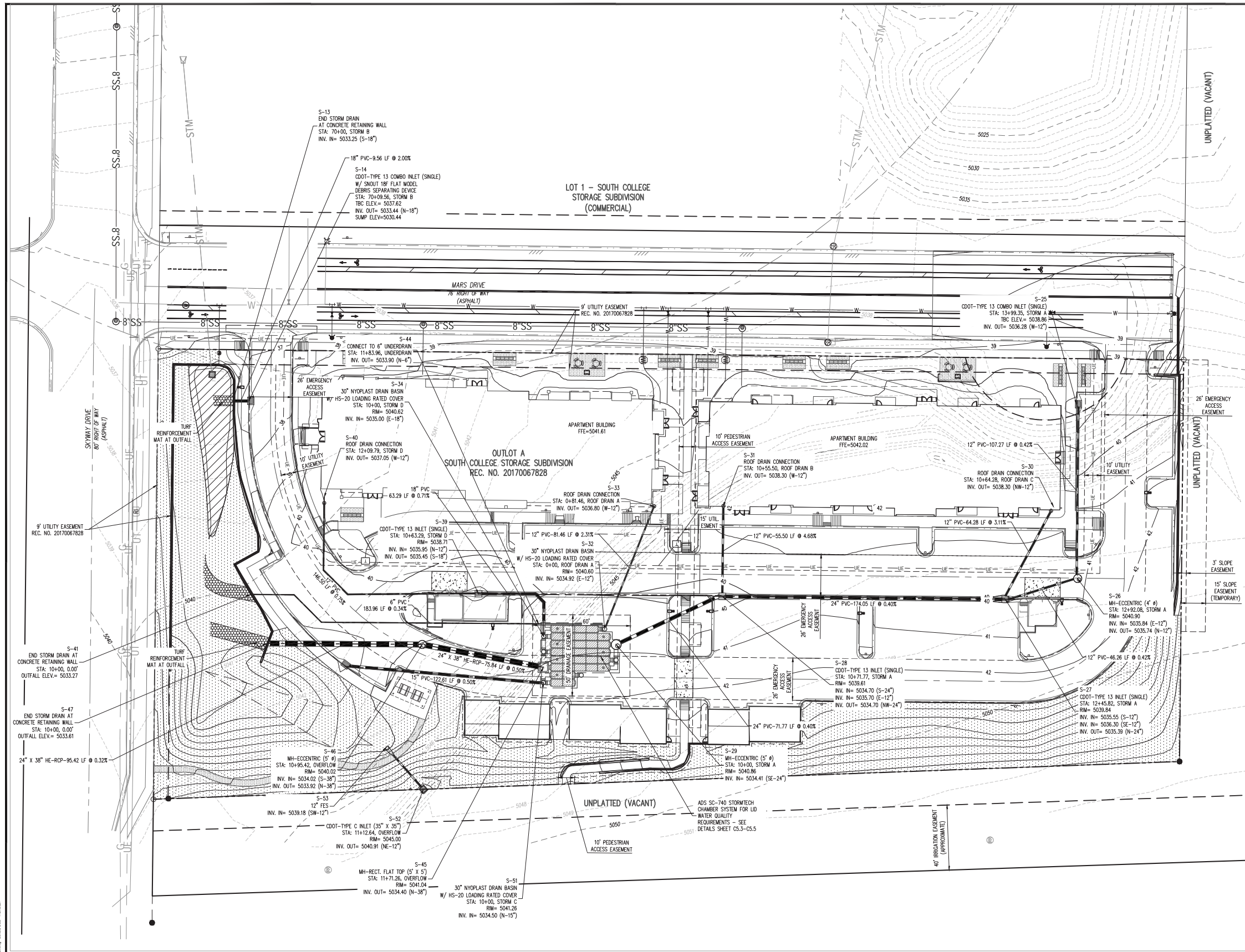
#	Date	Issue / Description	Init.

Project No: GNC000008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

SANITARY SEWER DETAILS

C4.1

© 2021 Galloway US, Inc. All rights reserved. 12/15/2010 10:00 AM 10:00 AM 10:00 AM 10:00 AM 10:00 AM 10:00 AM 10:00 AM 10:00 AM 10:00 AM 10:00 AM



LEGEND:

PROPOSED 8" WATER MAIN	— 8" W —
EXISTING WATER MAIN	— W —
PROPOSED SANITARY SEWER	— 8" SS —
EXISTING SANITARY SEWER	— SS —
EXISTING FIRE HYDRANT	— FH —
PROPOSED FIRE HYDRANT	— FH —
PROPOSED STORM SEWER	— S —
EXISTING STORM SEWER	— S —
EXISTING IRRIGATION	— IRR —
EXISTING UNDERGROUND TELEPHONE	— UT —
EXISTING UNDERGROUND ELECTRIC	— UE —
EXISTING FIBER OPTIC	— FO —
EXISTING GAS	— G —
PROPOSED CURB AND GUTTER	— CG —
EXISTING RIGHT-OF-WAY	— R/W —
EXISTING LOTLINE	— L —
PROPOSED EASEMENT LINE	— E —
EXISTING EASEMENT LINE	— E —
PROPOSED STORM INLET	— SI —
EXISTING STORM INLET	— SI —
PROPOSED MANHOLE	— MH —
EXISTING MANHOLE	— MH —
PROPOSED NATURAL HABITAT BUFFER ZONE (NHZ)	— NHZ —
PROPOSED WETLAND MITIGATION AREA	— WMA —

- NOTES:**
1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
 2. ALL WATER AND SEWER CONSTRUCTION SHALL BE PER FORT COLLINS LOWLAND WATER DISTRICT AND SOUTH FORT COLLINS SANITATION DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS LATEST EDITION.
 3. ALL WATER FITTINGS AND VALVES ARE ONLY GRAPHICALLY REPRESENTED AND ARE NOT TO SCALE.
 4. UTILITY SERVICES ARE SHOWN IN A SCHEMATIC FASHION ONLY. EXACT LOCATIONS SHALL BE PER THE REQUIREMENTS OF THE RESPECTIVE UTILITY PROVIDERS, AND ARE SUBJECT TO CHANGE IN THE FIELD.
 5. MAINTAIN 18" HORIZONTAL AND 18" VERTICAL MINIMUM SEPARATION BETWEEN ALL SANITARY SEWER MAINS, STORM SEWER MAINS, WATER MAINS & SERVICES.
 6. CONFIRM EXISTING SANITARY SEWER INVERT IN THE FIELD. IF IT DOESN'T MATCH THE ASSUMED INVERT, CONTACT THE DESIGN ENGINEER.
 7. CONFIRM EXISTING STORM SEWER INVERT IN THE FIELD. IF IT DOESN'T MATCH THE ASSUMED INVERT, CONTACT THE DESIGN ENGINEER.
 8. CONFIRM HORIZONTAL LOCATION OF WATER TO EXISTING LOCATIONS PRIOR TO CONSTRUCTION. CONTACT DESIGN ENGINEER WITH ANY DISCREPANCIES.
 9. MINIMUM SEWER SLOPE IS 1.04% (1/1) FOR 6" DIAMETER AND 2.08% (1/1) FOR 4" DIAMETER.
 10. CONTRACTOR TO COORDINATE GAS, ELECTRIC AND TELEPHONE CABLE SERVICES.
 11. THE PLUMBING CONTRACTOR SHALL TERMINATE UTILITY LATERALS 5' OUTSIDE OF BUILDING UNLESS OTHERWISE NOTED. EXACT LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITY CONNECTIONS INTO THE PROPOSED BUILDING SHALL BE COORDINATED WITH THE APPROVED ARCHITECTURAL DRAWINGS.
 12. ROOF DRAIN CONNECTIONS TO BE COORDINATED WITH FINAL ARCHITECTURAL PLANS.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



#	Date	Issue / Description	Init.

Project No: GNM000008
 Drawn By: DBC
 Checked By: JEP
 Date: 07.28.2021

STORM DRAIN PLAN

C5.0

CLASS A BEDDING

TRENCH WIDTH AS SPECIFIED

CLASS B BEDDING

TRENCH WIDTH AS SPECIFIED

CLASS C BEDDING

TRENCH WIDTH AS SPECIFIED

ROCK EXCAVATION

TRENCH WIDTH AS SPECIFIED

UNSTABLE SUBGRADE

TRENCH WIDTH AS SPECIFIED

SUBDRAIN DETAIL

TRENCH WIDTH AS SPECIFIED

STANDARD MANHOLE

NOTE: MINIMUM INSIDE DIAMETER OF MANHOLE SHALL BE AS FOLLOWS:

PIPE SIZE	MIN. MANHOLE DIAMETER
24 IN. OR LESS	48 IN.
27 IN. TO 42 IN. (INCL.)	60 IN.
OVER 42 IN.	72 IN.

CITY OF FORT COLLINS
CITY OF FORT COLLINS UTILITIES
PORT COLLINS, CO. (970) 321-6700

STORMWATER CONSTRUCTION DETAILS
APPROVED: DATE: 1/12/00
DRAWN BY: SKC

DETAIL D-1

CITY OF FORT COLLINS
CITY OF FORT COLLINS UTILITIES
PORT COLLINS, CO. (970) 321-6700

STORMWATER CONSTRUCTION DETAILS
APPROVED: DATE: 11/7/00
DRAWN BY: NEJ

DETAIL D-3

VERTICAL CURB & GUTTER
PLAN VIEW
COMB. CURB, GUTTER & SIDEWALK

SECTION
SECTION
SECTION

DETAIL FISH LOG
REBAR PLACEMENT
DETAIL CONNECTOR OUTLET

NOTE: SEE DETAIL SPECIFICATIONS SECTION 11.04 FOR MORE INFORMATION. USE OF THIS DETAIL WITHOUT SPECIFICATIONS SHALL BE CONSIDERED NON-COMPLIANT.

2
C6.0

COMBINATION INLET

GENERAL NOTES

- CONCRETE SHALL BE CLASS B INLET MAY BE CAST-IN-PLACE OR PRECAST.
- CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1/4 IN.
- REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT.-4 IN. AND SHALL CONFORM TO ASHRAE M 109.
- ALL GRATES AND FRAMES SHALL BE GRAY OR OUTSIDE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.04 GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HS 20 LOADING.
- STATION POINT IS AT THE CENTER OF THE INLET.
- GRATE SHALL HAVE "NO WASTE DRAINS TO STREAM" MESSAGE CAST ON SURFACE.

QUANTITIES FOR ONE INLET

H	CONCRETE CU YDS.	REINFORCING STEEL #18 LBS.	NO. OF BARS	MAXIMUM PIPE I.D. IN.
3'-0"	1.3	72	4	18
3'-6"	1.5	76	4	18
4'-0"	1.6	80	5	18
4'-6"	1.8	84	5	18
5'-0"	1.9	88	6	18
5'-6"	2.1	92	6	18
6'-0"	2.2	96	6	18
6'-6"	2.4	100	6	18
7'-0"	2.5	104	6	18
7'-6"	2.7	108	6	18
8'-0"	2.8	112	6	18
8'-6"	3.0	116	6	18
9'-0"	3.1	120	6	18
9'-6"	3.3	124	6	18
10'-0"	3.4	128	6	18

BAR LIST FOR H = 3 FT.-0 IN.

BAR NO.	NO. BARS	DIMENSIONS	LENGTH
401	4	3'-6" x 2'-0"	13'-4"
402	2	3'-6" x 2'-0"	8'-0"
403	3	3'-6" x 2'-0"	7'-0"

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY. AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNC000008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

STORM DETAILS

C5.1

PROJECT INFORMATION	
ENGINEERED BY:	EVAN FISCHGRUND 720-250-8047
PRODUCT MANAGER:	EVAN FISCHGRUND@ADS.PIPE.COM
ADS SALES REP:	MARK KAELEBERER 720-250-8020 MARK.KAELEBERER@ADS.PIPE.COM
PROJECT NO.:	S149352



Get ASSIST
+ Stormtech
FOR STORMTECH
INSTRUCTIONS,
DOWNLOAD THE
INSTALLATION APP



MARS LANDING FORT COLLINS - CO

SC-740 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2415-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPED FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER; 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.9 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 800 LB/INCH. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.80 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

- STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS BACKFILL METHODS:
 - STONESHOTTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO LACING STONE.
- MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

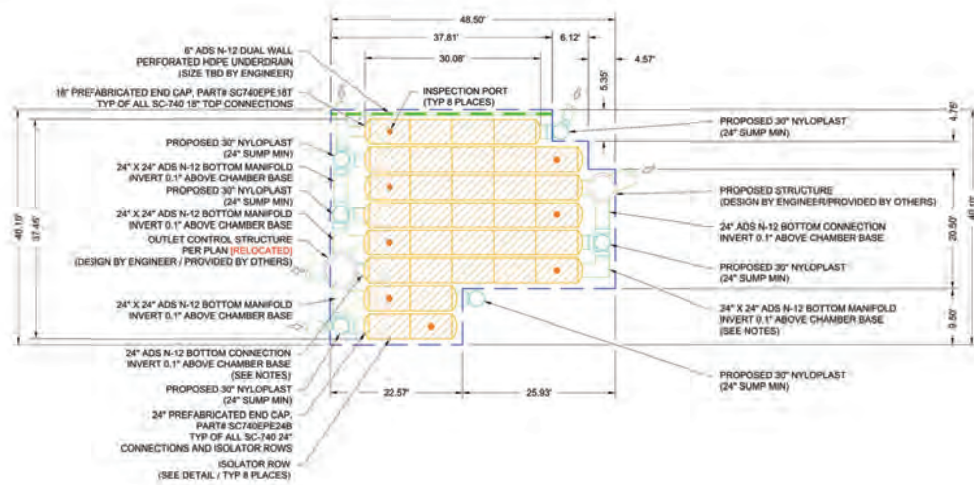
- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TREAD LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 30" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
CONTACT STORMTECH AT 1-888-892-2884 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT	
33	STORMTECH SC-740 CHAMBERS
16	STORMTECH SC-740 END CAPS
8	STONE ABOVE (IN)
40	% STONE VOID
3178	INSTALLED SYSTEM VOLUME (CF) (PERMETH STONE INCLUDED)
1819	SYSTEM AREA (SF)
177	SYSTEM PERIMETER (L)

PROPOSED ELEVATIONS	
5044.38	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
5038.90	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
5038.40	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
5038.40	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
5038.40	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
5037.40	TOP OF STONE
5039.90	TOP OF SC-740 CHAMBER
5034.82	18" TOP MANFOLD INVERT
5034.41	24" BOTTOM MANFOLD CONNECTION INVERT
5034.41	24" ISOLATOR ROW CONNECTION INVERT
5033.40	BOTTOM OF SC-740 CHAMBER UNDERDRAIN INVERT
5033.90	5033.90
5033.90	BOTTOM OF STONE

- ### NOTES
- MANFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 8.32 FOR MANFOLD SIZING GUIDANCE.
 - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANFOLD COMPONENTS IN THE FIELD.
 - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
 - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSTALLED SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.



MARS LANDING
FORT COLLINS - CO

DATE:	8/15/21	DRAWN:	MJK
PROJECT NO.:	S149352	CHECKED:	ACC

Stormtech
4000 W. ILLINOIS ST., SUITE 100
MARIETTA, OH 45758

MARK TRUBESMAN (SVO)
HILLIARD, OH 43020

2 OF 6

Galloway

5265 Ronald Reagan Blvd., Suite 210
Johnstown, CO 80534
970.800.3300
GallowayUSA.com

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNM00008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

ADS STORMTECH DETAILS

C5.3

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT

THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN

FORT COLLINS, CO

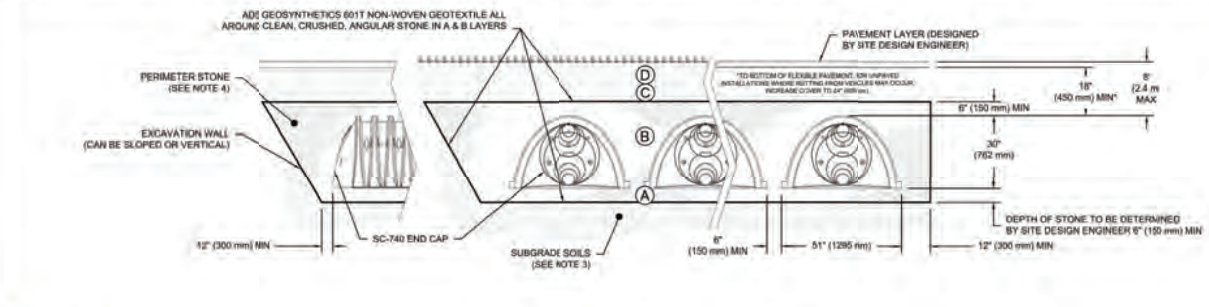
#	Date	Issue / Description	Init.

Project No: GNM00008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021
ADS STORMTECH DETAILS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NAIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B LAYER) TO 1" (25 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THIS 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	ASHTO M45 A1, A-2.4, A-3 OR ASHTO M43 3.357, 4, 4.75, 5, 5.75, 6, 6.75, 7, 7.5, 8, 8.5, 9, 10	PREPARE FOR SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. BEGIN COMPACTIONS AFTER 1" (25 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 85% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (5,443 kg). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (9,072 kg).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	ASHTO M33 3, 3.57, 4, 4.75, 5, 5.75	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	ASHTO M43 3, 3.57, 4, 4.75, 5, 5.75	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR QUANTITIES ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE."
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 1" LOCATIONS MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-18a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
• TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL INTERLOCKING STACKING LUGS.
• TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
• TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION B.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS-IN²/IN, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73°F / 23°C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

MARS LANDING
FORT COLLINS, CO

DATE: 07/28/21
DRAWN: MJK
PROJECT #: S18032
CHECKED: AGC

MARS LANDING
FORT COLLINS, CO

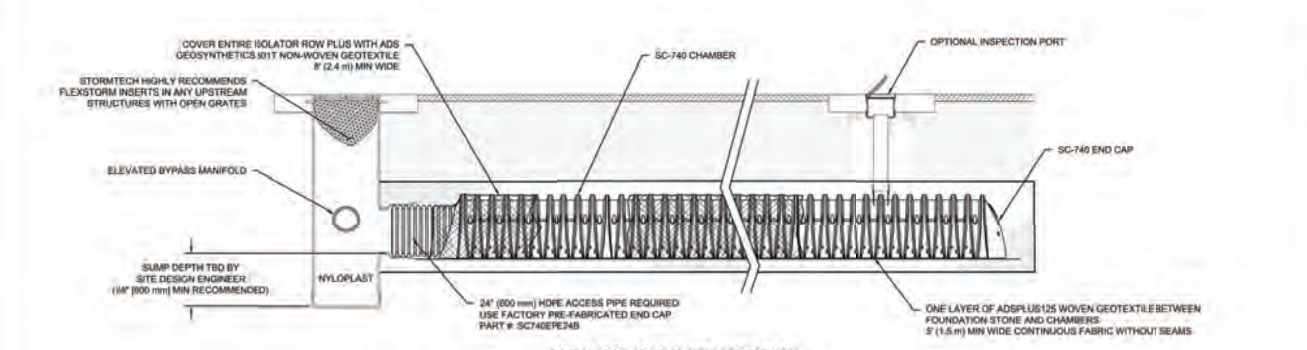
DATE: 07/28/21
DRAWN: MJK
PROJECT #: S18032
CHECKED: AGC

4840 TRUEMAN BLVD
HILLIARD, OH 43026

ADS
DESIGN

3 SHEET
OF 6

SC-740 ISOLATOR ROW PLUS DETAIL



INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)

A.1 REMOVE/OPEN LID OR NYLOPLAST IN-LINE DRAIN

A.2 REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED.

A.3 USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG.

A.4 LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL).

A.5 IF SEDIMENT IS AT OR ABOVE 3\" (75 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR ROWS

B.1 REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW

B.2 USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE

i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY

ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE

B.3 IF SEDIMENT IS AT OR ABOVE 3\" (75 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS

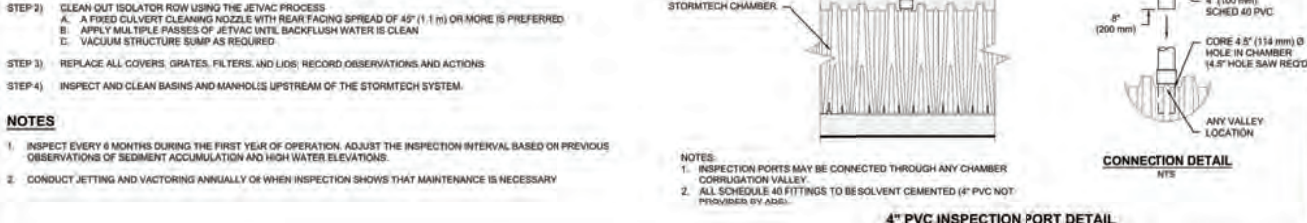
A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPRAY OF 45\" (1.1 m) OR MORE IS PREFERRED

B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS AND LIDS. RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.



NOTES:
1. INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED (F PVC NOT PROVIDED BY ADS).

MARS LANDING
FORT COLLINS, CO

DATE: 07/28/21
DRAWN: MJK
PROJECT #: S18032
CHECKED: AGC

MARS LANDING
FORT COLLINS, CO

DATE: 07/28/21
DRAWN: MJK
PROJECT #: S18032
CHECKED: AGC

4840 TRUEMAN BLVD
HILLIARD, OH 43026

ADS
DESIGN

4 SHEET
OF 6

C:\Documents\G01\dms\Galloway\2021\Projects\Mars Landing\Stormtech Details\ADS STORMTECH DETAILS\C5.4_Sheet 04.dwg - 10/28/21

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



#	Date	Issue / Description	Init.

Project No:	GNK000008
Drawn By:	DBC
Checked By:	JEP
Date:	07.28.2021

ADS STORMTECH DETAILS

C5.5

UNDERDRAIN DETAIL

NTS

SC-740 TECHNICAL SPECIFICATION

NTS

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	CHAMBER STORAGE	MINIMUM INSTALLED STORAGE*	WEIGHT
51.2" X 30.0" X 85.4"	45.9 CUBIC FEET (1.30 m ³)	74.9 CUBIC FEET (2.12 m ³)	75.0 lbs. (33.6 kg)
(1296 mm X 762 mm X 2169 mm)			

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS.

PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740PE06T / SC740PE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	—
SC740PE08B / SC740PE08BPC	8" (200 mm)	12.2" (310 mm)	18.5" (470 mm)	0.5" (13 mm)
SC740PE08T / SC740PE08TPC	8" (200 mm)	12.2" (310 mm)	18.5" (470 mm)	—
SC740PE10B / SC740PE10BPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	0.6" (15 mm)
SC740PE10T / SC740PE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	—
SC740PE12B / SC740PE12BPC	12" (300 mm)	14.7" (373 mm)	12.9" (328 mm)	1.2" (30 mm)
SC740PE12T / SC740PE12TPC	12" (300 mm)	14.7" (373 mm)	12.9" (328 mm)	—
SC740PE15B / SC740PE15BPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	1.3" (33 mm)
SC740PE15T / SC740PE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	—
SC740PE18B / SC740PE18BPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	1.6" (41 mm)
SC740PE18T / SC740PE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	—
SC740PE24B / SC740PE24BPC	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740PE24B, ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2994.

*FOR THE SC740PE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.73" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE 12" STUBS SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

MARS LANDING
FORT COLLINS - CO

DATE: 9/10/19 DRAWN: MUR
PROJECT #: S18032 CHECKED: AGC
SCALE: AS SHOWN

DESIGNER: AD

4640 TRULMAN BLVD
HILLMAN, OH 4308

ADS

6 SHEET OF 6

StormTech

DESIGNER: AD

4640 TRULMAN BLVD
HILLMAN, OH 4308

ADS

5 SHEET OF 6

NYLOPLAST DRAIN BASIN

NTS

NOTES

- 6-30" (203-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDP 35 PVC
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM
- TO ORDER CALL: 800-821-8719

A	PART #	GRATE/SOLID COVER OPTIONS
8"	2808AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY SOLID LIGHT DUTY
10"	2810AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY SOLID LIGHT DUTY
12"	2812AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
18"	2818AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
18"	2818AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
24"	2824AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
30"	2830AG	PEDESTRIAN AASHTO H-20 STANDARD AASHTO H-20 SOLID AASHTO H-20

MARS LANDING
FORT COLLINS - CO

DATE: 9/10/19 DRAWN: MUR
PROJECT #: S18032 CHECKED: AGC
SCALE: AS SHOWN

DESIGNER: AD

4640 TRULMAN BLVD
HILLMAN, OH 4308

ADS

6 SHEET OF 6

Nyloplast

DESIGNER: AD

4640 TRULMAN BLVD
HILLMAN, OH 4308

ADS

6 SHEET OF 6

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN

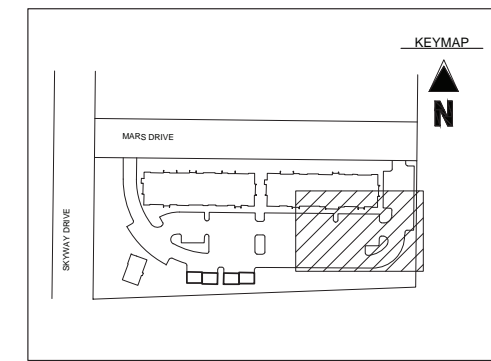
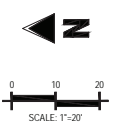
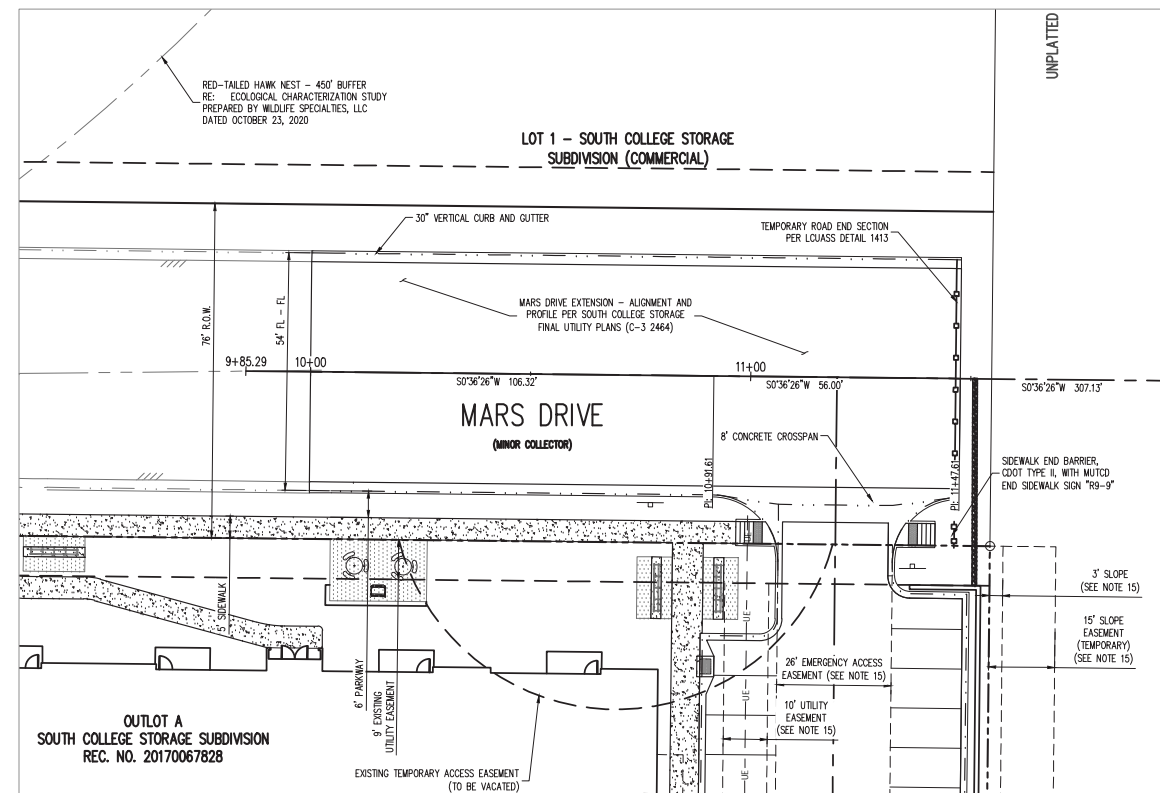
FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No: GNM000008
Drawn By: JEP
Checked By: JEP
Date: 07.28.2021

MARS DRIVE PLAN AND PROFILE

C6.0

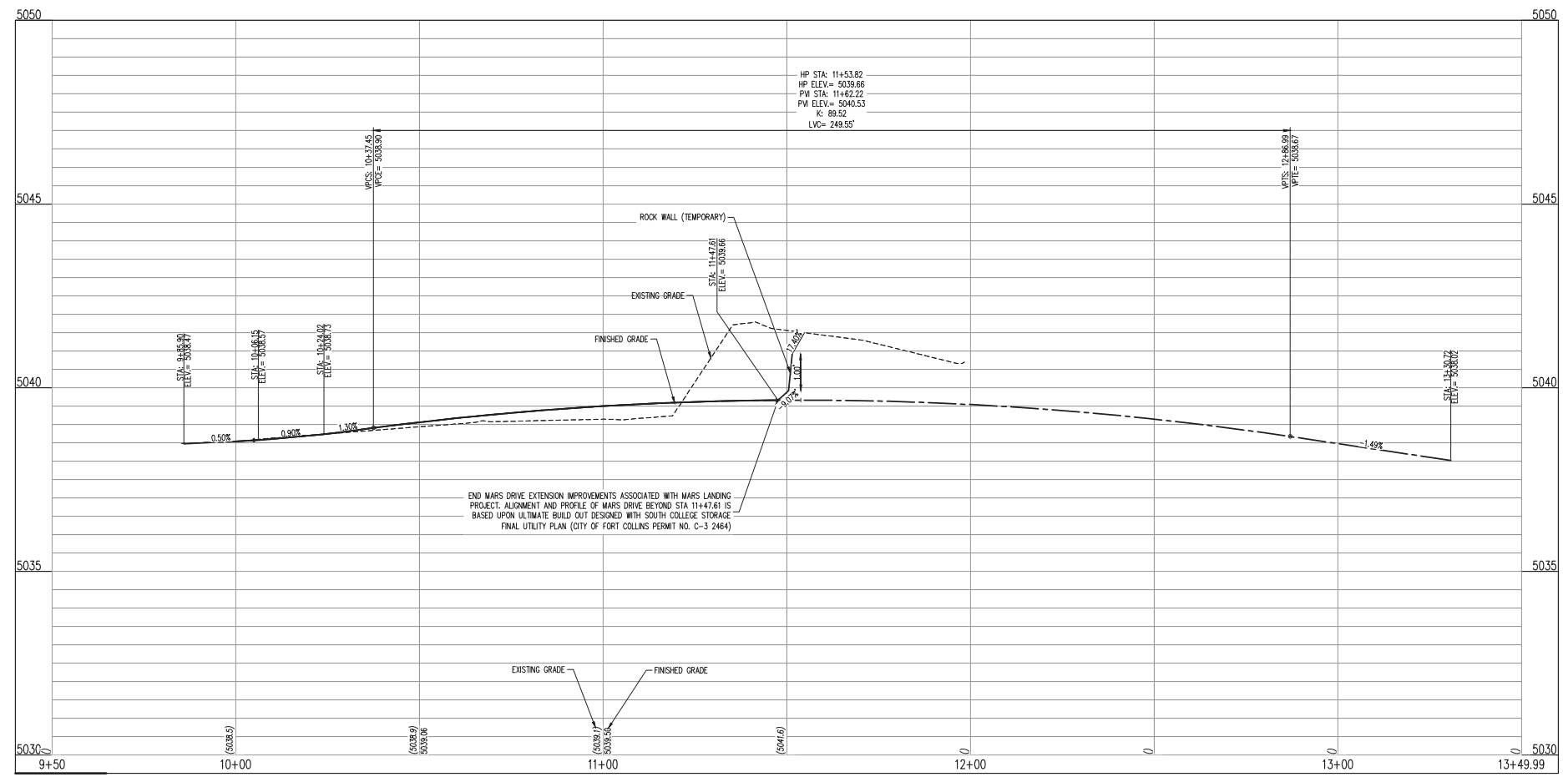


- LEGEND:**
- PROPOSED CURB AND GUTTER
 - PROPOSED CURB AND GUTTER - SPILL TRANSITION
 - EXISTING CURB AND GUTTER
 - PROPOSED FENCE
 - EXISTING RIGHT-OF-WAY
 - EXISTING LOTLINE
 - EXISTING EASEMENT LINE
 - PROPOSED EASEMENT LINE
 - PROPOSED SIDEWALK
 - PROPOSED CONCRETE CROSSSPAN

- NOTES:**
- THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
 - REFER TO LANDSCAPE PLANS FOR STREET TREE INFORMATION, AND SURVEY DOCUMENTS FOR ADDITIONAL RIGHT-OF-WAY, EASEMENT AND ROADWAY CENTERLINE INFORMATION.
 - BUILDING POINTS ARE AT CORNERS OF NOMINAL BUILDING FOOTPRINTS. CONTRACTOR SHALL CONFIRM ALL BUILDING CORNERS AND DIMENSIONS WITH ARCHITECT PRIOR TO CALLING FOR STAKES.
 - ALL DIMENSIONS REFERENCE FLOWLINE, BUILDING OR PROPERTY LINE UNLESS SPECIFIED OTHERWISE.
 - CONTRACTOR TO COORDINATE WITH CIVIL ENGINEER AND ARCHITECT PRIOR TO STAKING BUILDING COORDINATES.
 - FOR ALL CATCH AND SPILL CURB INFORMATION AND TRANSITIONS, SEE GRADING PLANS C2.1-C2.2.
 - ALL STRIPING AND PAVEMENT MARKINGS SHALL COMPLY WITH THE MUTCD AND SECTION 427 OF THE CDOT SPECIFICATIONS FOR SKYWAY DRIVE AND SOUTH COLLEGE AVENUE INTERSECTION IMPROVEMENTS.
 - ALL STRIPING AND PAVEMENT MARKING FOR SKYWAY DRIVE AND MARS DRIVE SHALL COMPLY WITH THE CITY OF FORT COLLINS STREET DESIGN AND CONSTRUCTION STANDARDS.
 - ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD WITH REGARD TO SIGN TYPE, SIZE, LOCATION AND MOUNTING SPECIFICATIONS.
 - ALL ON-SITE CURB AND GUTTER SHALL BE 18" CATCH OR SPILL CURB AND GUTTER UNLESS NOTED.
 - ALL HC RAMPS SHALL HAVE TRUNCATED DOMES PER SITE PLAN DETAILS SHEET.
 - REFER TO DETAIL SHEET - FOR HC PARKING STALL DETAILS AND SIGN REQUIREMENTS - ALL SPACES ARE VAN ACCESSIBLE AND SHOULD BE POSTED AS SUCH. PROVIDE 2.5' CLEAR FROM FLOWLINE TO POST.
 - THERE SHALL BE A 3' MINIMUM TRANSITION FROM SPILL TO CATCH CURB AND GUTTER.
 - ALL SIGNS TO BE H.I.P.
 - FOR PAVEMENT DESIGN, PAVEMENT SECTIONS, AND SUBGRADE PREPARATION, REFER TO PRELIMINARY SUBSURFACE EXPLORATION REPORT DATED JULY 17, 2019 BY EARTH ENGINEERING CONSULTANTS. CONTRACTOR TO VERIFY FINAL PAVEMENT AND SUBGRADE DESIGN WITH GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
 - ALL PROPOSED EASEMENTS ARE TO BE RECORDED BY SEPARATE DOCUMENT.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



MARS DR
STA: 9+50 - 13+49.99
SCALE: H: 1"=20' V: 1"=10'

© GallowayUS.com. All rights reserved. 10/23/2021 10:28:08 AM. C:\Users\jgalloway\OneDrive\Documents\Projects\2021\20210728\20210728_01\20210728_01.dwg

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT

THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
 PROJECT DEVELOPMENT PLAN

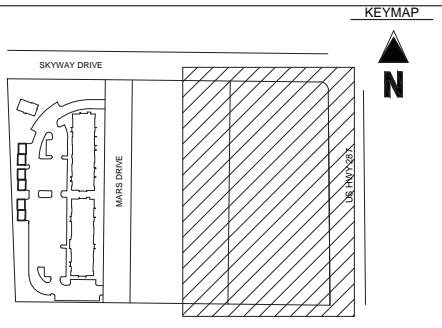
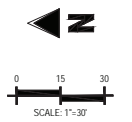
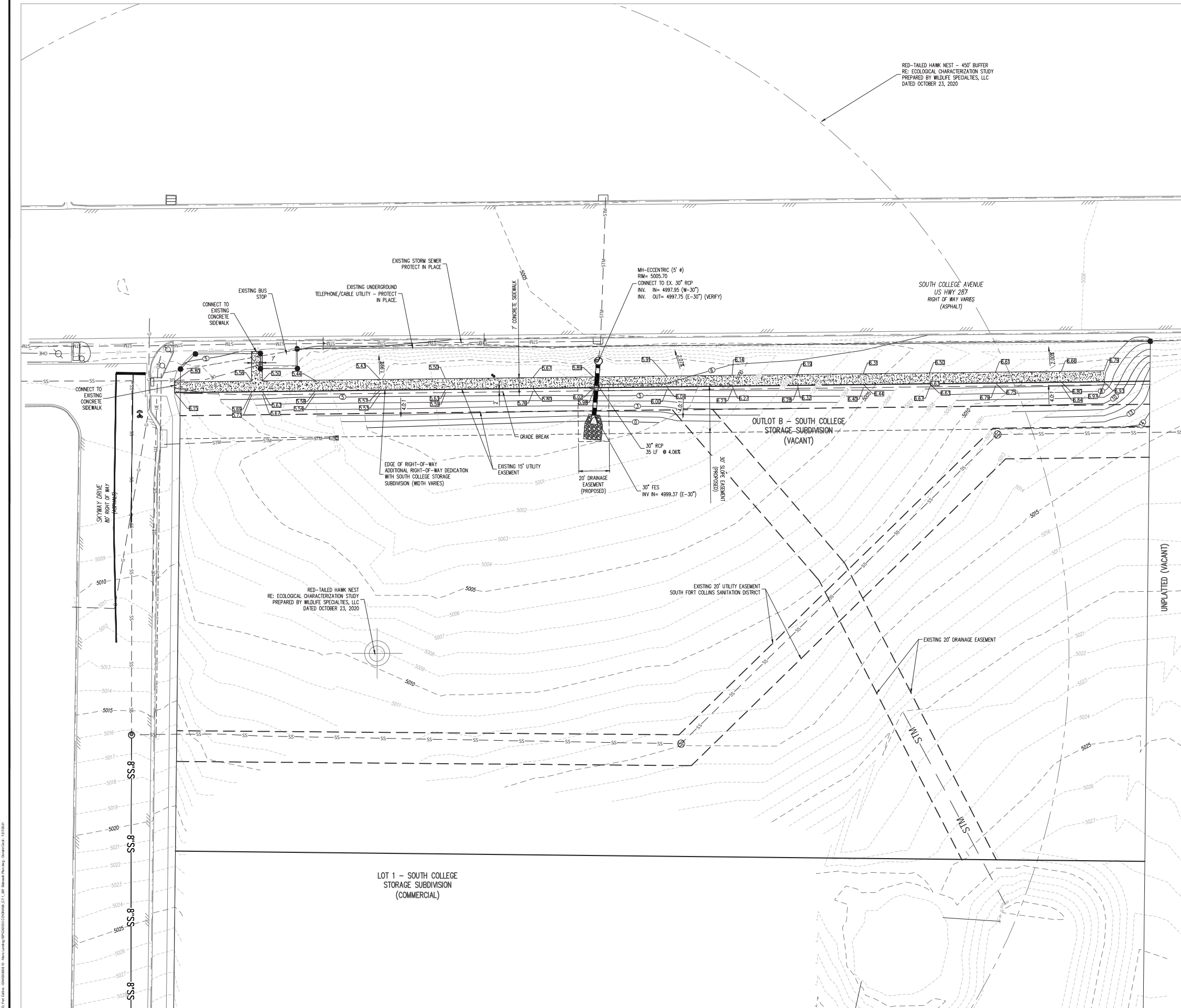
FORT COLLINS, CO

#	Date	Issue / Description	Init.

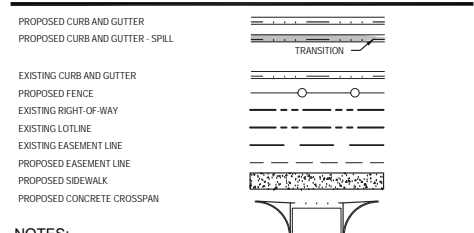
Project No: GNC000008
 Drawn By: JEP
 Checked By: JEP
 Date: 07.28.2021

COLLEGE AVENUE
 SIDEWALK PLAN

C6.1



LEGEND:



NOTES:

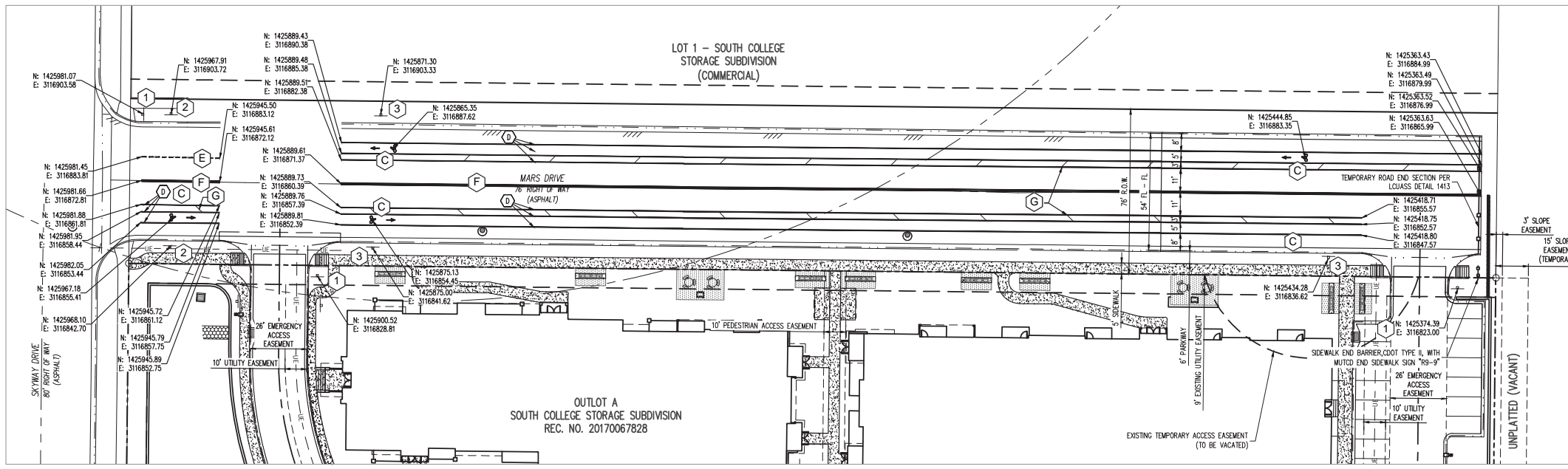
1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
2. REFER TO LANDSCAPE PLANS FOR STREET TREE INFORMATION, AND SURVEY DOCUMENTS FOR ADDITIONAL RIGHT-OF-WAY, EASEMENT AND ROADWAY CENTERLINE INFORMATION.
3. BUILDING POINTS ARE AT CORNERS OF NOMINAL BUILDING FOOTPRINTS. CONTRACTOR SHALL CONFIRM ALL BUILDING CORNERS AND DIMENSIONS WITH ARCHITECT PRIOR TO CALLING FOR STAKES.
4. ALL DIMENSIONS REFERENCE FLOWLINE. BUILDING OR PROPERTY LINE UNLESS SPECIFIED OTHERWISE.
5. CONTRACTOR TO COORDINATE WITH CIVIL ENGINEER AND ARCHITECT PRIOR TO STAKING BUILDING COORDINATES.
6. FOR ALL CATCH AND SPILL CURB INFORMATION AND TRANSITIONS, SEE GRADING PLANS C2.1-C2.2.
7. ALL STRIPING AND PAVEMENT MARKINGS SHALL COMPLY WITH THE MUTCD AND SECTION 627 OF THE CDOT SPECIFICATIONS FOR SKYWAY DRIVE AND SOUTH COLLEGE AVENUE INTERSECTION IMPROVEMENTS.
8. ALL STRIPING AND PAVEMENT MARKING FOR SKYWAY DRIVE AND MARS DRIVE SHALL COMPLY WITH THE CITY OF FORT COLLINS STREET DESIGN AND CONSTRUCTION STANDARDS.
8. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD WITH REGARD TO SIGN TYPE, SIZE, LOCATION AND MOUNTING SPECIFICATIONS.
9. ALL ON-SITE CURB AND GUTTER SHALL BE 18" CATCH OR SPILL CURB AND GUTTER UNLESS NOTED.
10. ALL HIC RAMPS SHALL HAVE TRUNCATED DOMES PER SITE PLAN DETAILS SHEET.
11. REFER TO DETAIL SHEET - FOR HC PARKING STALL DETAILS AND SIGN REQUIREMENTS - ALL SPACES ARE VAN ACCESSIBLE AND SHOULD BE POSTED AS SUCH. PROVIDE 2.5' CLEAR FROM FLOWLINE TO POST.
12. THERE SHALL BE A 3' MINIMUM TRANSITION FROM SPILL TO CATCH CURB AND GUTTER.
13. ALL SIGNS TO BE H.I.P.
14. FOR PAVEMENT DESIGN, PAVEMENT SECTIONS, AND SUBGRADE PREPARATION, REFER TO PRELIMINARY SUBSURFACE EXPLORATION REPORT DATED JULY 11, 2019 BY EARTH ENGINEERING CONSULTANTS. CONTRACTOR TO VERIFY FINAL PAVEMENT AND SUBGRADE DESIGN WITH GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
15. ALL PROPOSED EASEMENTS ARE TO BE RECORDED BY SEPARATE DOCUMENT.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



15/06/2021 10:40:30 AM: Mars Landing\PROJECTS\2021\072821\CD\1.01\SS.8\SS.8.dwg, 15/06/2021 10:40:30 AM: Mars Landing\PROJECTS\2021\072821\CD\1.01\SS.8\SS.8.dwg



A
MARS DRIVE
SIGNAGE AND STRIPING
SCALE: 1"=30'

KEYMAP

LEGEND:

- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED FENCE
- EXISTING RIGHT-OF-WAY
- EXISTING LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED SIDEWALK
- PROPOSED CONCRETE CROSSSPAN

TYPE 3 BARRICADE

1	R1-1 STOP SIGN	(A)	PERFORMED PLASTIC PAVEMENT MARKING STRAIGHT/LEFT TURN ARROW (15.5 S.F. EA.)
2	R7-1 NO PARKING ANYTIME	(B)	PERFORMED PLASTIC PAVEMENT MARKING RIGHT TURN ARROWS (15.5 S.F. EA.)
3	R7-1 (SPECIAL) NO PARKING ANYTIME HERE TO CORNER	(C)	PERFORMED PLASTIC PAVEMENT MARKING BICYCLIST AND ARROW
		(D)	4" WHITE SOLID LINE
		(E)	4" WHITE BROKEN LINE
		(F)	DOUBLE YELLOW LINE
		(G)	4" SOLID, 8" O.C.
		(H)	BUFFERED BIKE LANE - DIAGONAL HASH 4" WHITE SOLID LINE AT 45° TO LANE 40" O.C.
		(I)	PERFORMED PLASTIC PAVEMENT MARKING 18" WIDE STOP BAR
		(I)	PERFORMED PLASTIC PAVEMENT MARKING SHARED BIKE/VEHICLE LANE MARKING

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



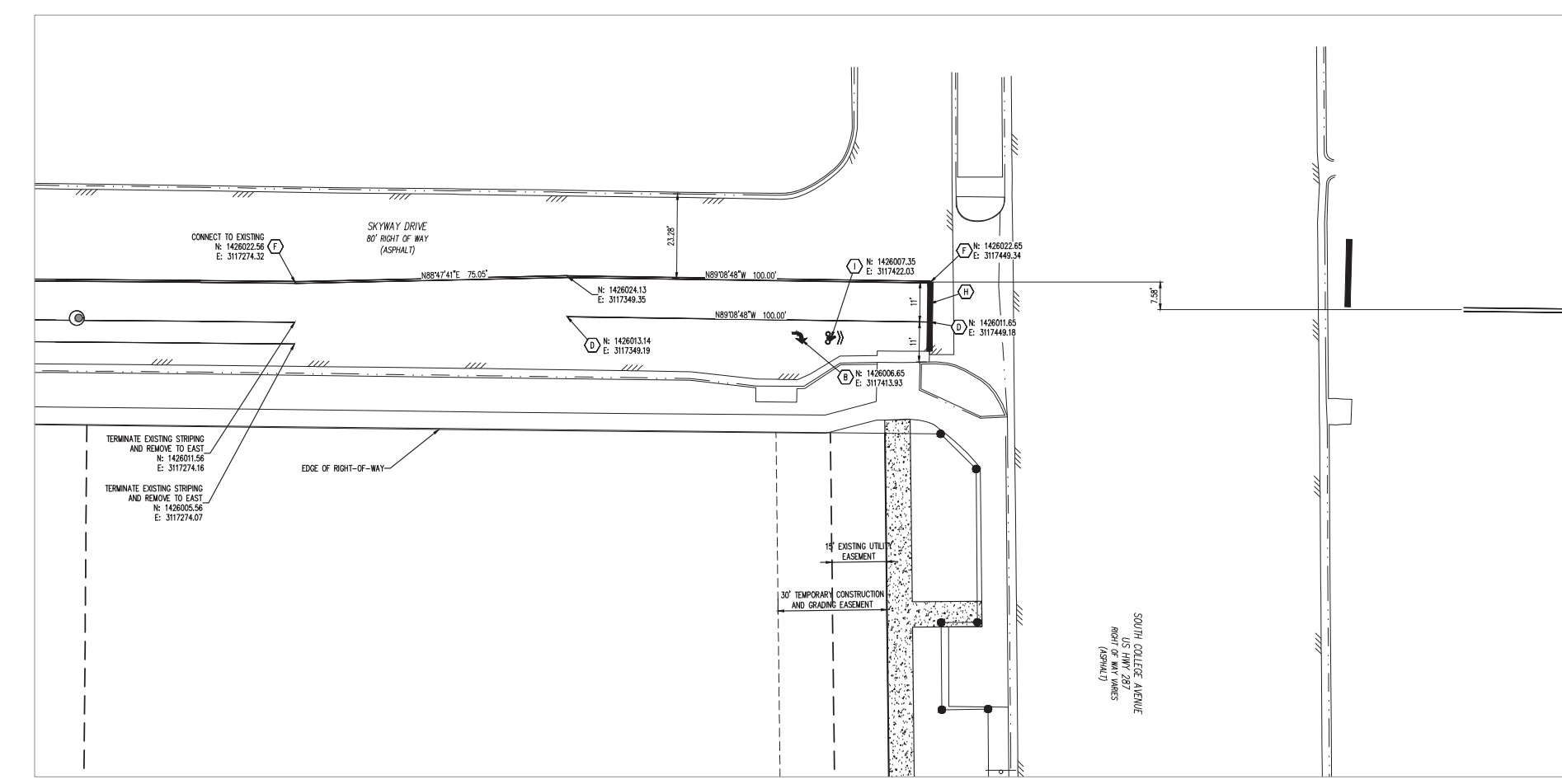
- NOTES:**
- THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
 - REFER TO LANDSCAPE PLANS FOR STREET TREE INFORMATION, AND SURVEY DOCUMENTS FOR ADDITIONAL RIGHT-OF-WAY, EASEMENT AND ROADWAY CENTERLINE INFORMATION.
 - BUILDING POINTS ARE AT CORNERS OF NOMINAL BUILDING FOOTPRINTS. CONTRACTOR SHALL CONFIRM ALL BUILDING CORNERS AND DIMENSIONS WITH ARCHITECT PRIOR TO CALLING FOR STAKES.
 - ALL DIMENSIONS REFERENCE FLOWLINE, BUILDING OR PROPERTY LINE UNLESS SPECIFIED OTHERWISE.
 - CONTRACTOR TO COORDINATE WITH CIVIL ENGINEER AND ARCHITECT PRIOR TO STAKING BUILDING COORDINATES.
 - FOR ALL CATCH AND SPILL CURB INFORMATION AND TRANSITIONS, SEE GRADING PLANS C2.1-C2.2.
 - ALL STRIPING AND PAVEMENT MARKINGS SHALL COMPLY WITH THE MUTCD AND SECTION 627 OF THE CDOT SPECIFICATIONS FOR SKYWAY DRIVE AND SOUTH COLLEGE AVENUE INTERSECTION IMPROVEMENTS.
 - ALL STRIPING AND PAVEMENT MARKING FOR SKYWAY DRIVE AND MARS DRIVE SHALL COMPLY WITH THE CITY OF FORT COLLINS STREET DESIGN AND CONSTRUCTION STANDARDS.
 - ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD WITH REGARD TO SIGN TYPE, SIZE, LOCATION AND MOUNTING SPECIFICATIONS.
 - ALL ON-SITE CURB AND GUTTER SHALL BE 18" CATCH OR SPILL CURB AND GUTTER UNLESS NOTED.
 - ALL HC RAMPS SHALL HAVE TRUNCATED DOMES PER: SITE PLAN DETAILS SHEET.
 - REFER TO DETAIL SHEET - FOR HC PARKING STALL DETAILS AND SIGN REQUIREMENTS - ALL SPACES ARE VAN ACCESSIBLE AND SHOULD BE POSTED AS SUCH. PROVIDE 2.5' CLEAR FROM FLOWLINE TO POST.
 - THERE SHALL BE A 3' MINIMUM TRANSITION FROM SPILL TO CATCH CURB AND GUTTER.
 - ALL SIGNS TO BE HIGH INTENSITY PRISMATIC GRADE SHEETING.
 - FOR PAVEMENT DESIGN, PAVEMENT SECTIONS, AND SUBGRADE PREPARATION, REFER TO PRELIMINARY SUBSURFACE EXPLORATION REPORT DATED JULY 17, 2019 BY EARTH ENGINEERING CONSULTANTS. CONTRACTOR TO VERIFY FINAL PAVEMENT AND SUBGRADE DESIGN WITH GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
 - ALL PROPOSED EASEMENTS ARE TO BE RECORDED BY SEPARATE DOCUMENT.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



MARS LANDING
PROJECT DEVELOPMENT PLAN
FORT COLLINS, CO



B
SKYWAY DRIVE AT S COLLEGE AVENUE
SIGNAGE AND STRIPING
SCALE: 1"=20'

#	Date	Issue / Description	Init.

Project No: GNM000008
Drawn By: DBC
Checked By: JEP
Date: 07.28.2021

SIGNAGE AND STRIPING PLAN

C6.2

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN

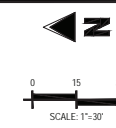
FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No:	GNM000008
Drawn By:	DBC
Checked By:	JEP
Date:	07.28.2021

EROSION CONTROL PLAN

C7.0



LEGEND:

PROPOSED CURB AND GUTTER	
EXISTING CURB AND GUTTER	
PROPOSED STORM SEWER	
EXISTING STORM SEWER	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EXISTING MAJOR CONTOUR	
EXISTING MINOR CONTOUR	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED STORM INLET	
EXISTING STORM INLET	
PROPOSED NATURAL HABITAT BUFFER ZONE (NHZ)	
PROPOSED WETLAND MITIGATION AREA	

TEMPORARY BMPs

ROCK SOCK	
VEHICLE TRACKING CONTROL PAD	
SILT FENCE	
INLET PROTECTION	
CONCRETE WASHOUT AREA	
STABILIZED STAGING AREA	
ROCK CHECK DAM	

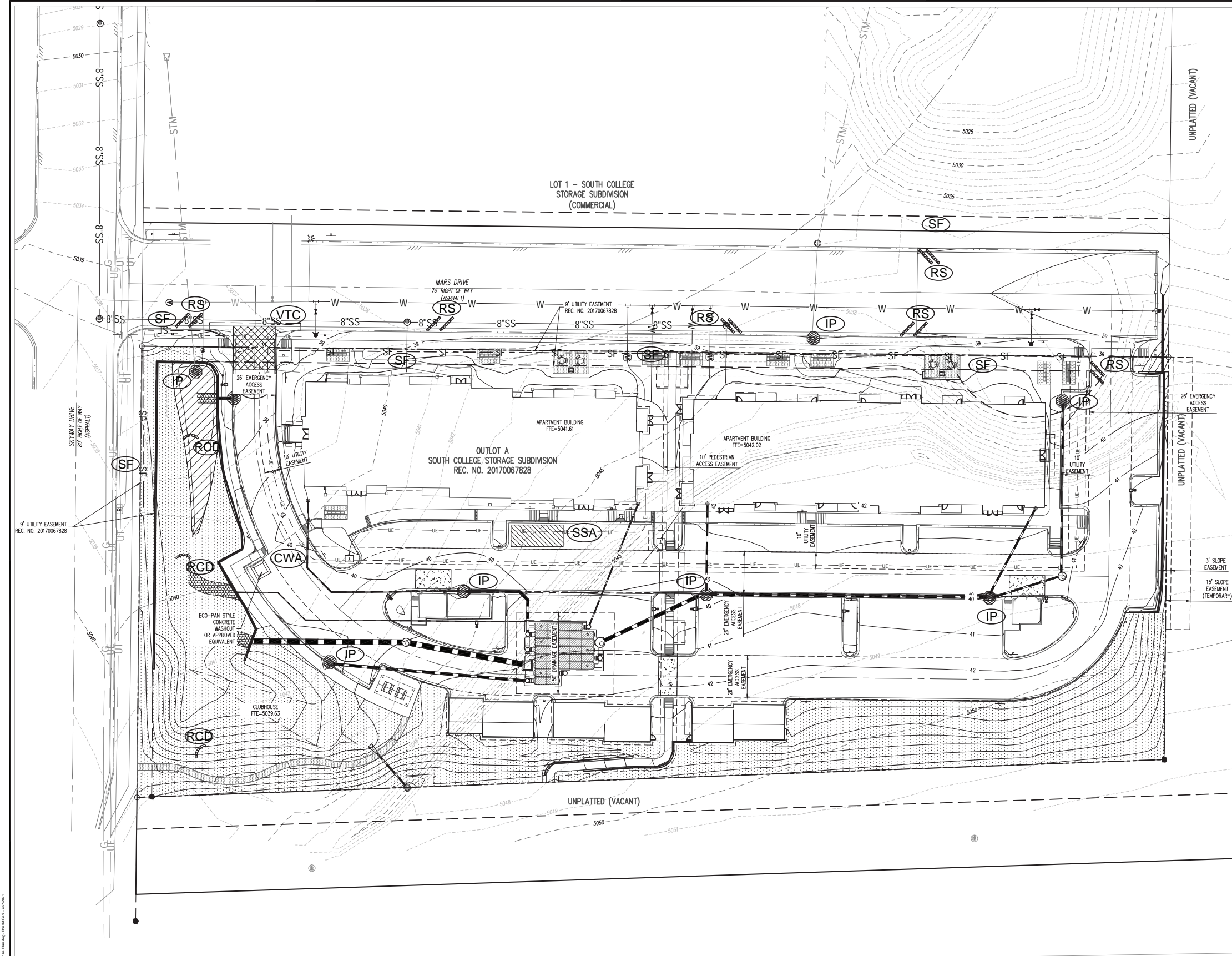
NOTE:
ALL BMPs SHOWN ARE GRAPHICAL IN NATURE. FINAL SIZE AND LOCATION SHALL BE DETERMINED BY THE CONTRACTOR.

GENERAL NOTES:

1. THIS EROSION CONTROL PLAN AND ASSOCIATED SWMP ARE LIVING DOCUMENTS REQUIRING PERIODIC REVIEW AND UPDATING AS SITE CONDITIONS CHANGE OR AS REQUIRED BY LOCAL AUTHORITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ONGOING COMPLIANCE WITH THE REQUIREMENTS OF THE STORMWATER DISCHARGE PERMIT.
2. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
3. EROSION CONTROL PRACTICES, SITE PROTECTION AND REVEGETATION METHODS SHALL FOLLOW CITY OF FORT COLLINS REGULATIONS.
4. DURING CONSTRUCTION PHASING, INSTALL EROSION CONTROL MEASURES FOLLOWING BMPs WITH EACH PHASE, AS REQUIRED.
5. PERIMETER PROTECTION (I.E., STRAW WATTLES) IS SHOWN AROUND EACH BLOCK THAT IS A PART OF THE PROPOSED IMPROVEMENTS. REFER TO THE LEGEND (SEE RIGHT). THIS PERIMETER PROTECTION SHALL BE INSTALLED WHEN CURB, GUTTER AND SIDEWALK INSTALLATION IS COMPLETED IN THE ADJOINING RIGHT-OF-WAY. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING PERIMETER PROTECTION (I.E., STRAW WATTLES) DAMAGED BY CONSTRUCTION TRAFFIC (E.G., TRUCKS DRIVING OVER STRAW WATTLES AND FLATTENING THEM).
6. FOLLOWING OVERLOT GRADING OR ANY OTHER LAND DISTURBING ACTIVITY, ALL OTHER AREAS OF THE SITE TO BE DEVELOPED DURING LATER PHASES OF CONSTRUCTION AND WHICH SHALL REMAIN EXPOSED FOR MORE THAN THIRTY (30) DAYS WILL REQUIRE TEMPORARY OR PERMANENT EROSION CONTROL (I.E., SEEDMULCH, LANDSCAPING, ETC.).
7. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON SEEDING/PLANTING, REVEGETATION, EROSION FABRIC/BLANETS, IRRIGATION, HARDSCAPE AND OTHER TEMPORARY AND PERMANENT SITE STABILIZATION METHODS.
8. SEE EROSION CONTROL NOTES ON THIS SHEET AND GRADING & EROSION CONTROL NOTES ON SHEET C7.02, AS WELL AS DETAILS ON SHEETS C7.2-C7.3.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
4. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



© GallowayUS.com. All Rights Reserved. Mars Landing 10/20/21. C7.0 - Erosion Control Plan. Date of Issue: 10/20/21.

PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY. AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.

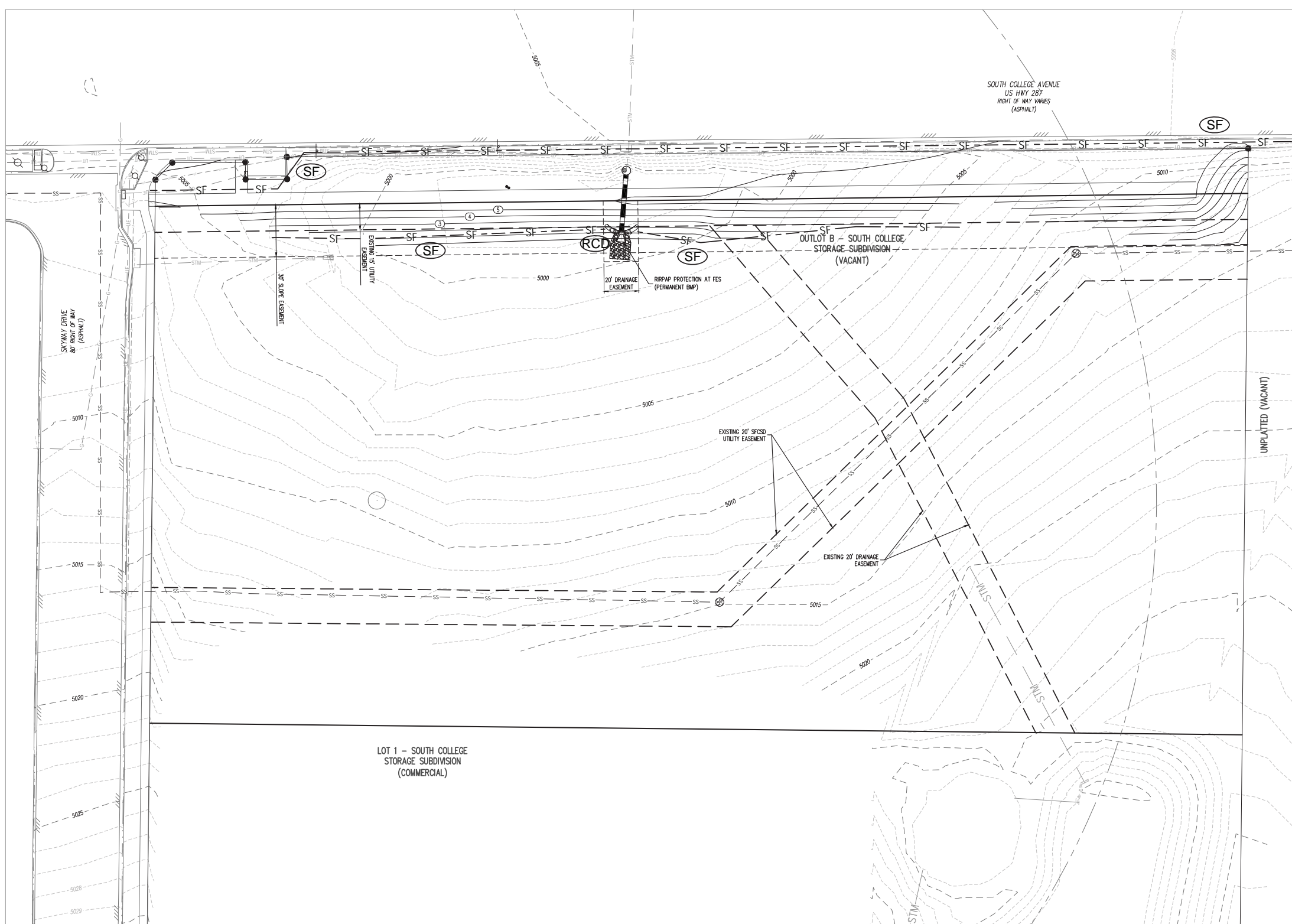


**MARS LANDING
 PROJECT DEVELOPMENT PLAN**

#	Date	Issue / Description	Init.

Project No: GNM000008
 Drawn By: DBC
 Checked By: JEP
 Date: 07.28.2021

OFFSITE EROSION CONTROL PLAN



SCALE: 1"=30'

LEGEND:

PROPOSED CURB AND GUTTER	
EXISTING CURB AND GUTTER	
PROPOSED STORM SEWER	
EXISTING STORM SEWER	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EXISTING MAJOR CONTOUR	
EXISTING MINOR CONTOUR	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED STORM INLET	
EXISTING STORM INLET	
PROPOSED NATURAL HABITAT BUFFER ZONE (NHBFZ)	
PROPOSED WETLAND MITIGATION AREA	

TEMPORARY BMPs

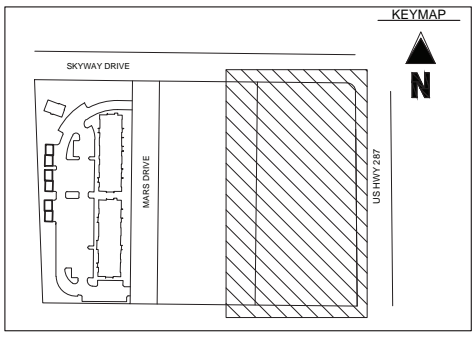
ROCK SOCK	(RS)
VEHICLE TRACKING CONTROL PAD	(VTC)
SILT FENCE	(SF)
INLET PROTECTION	(IP)
CONCRETE WASHOUT AREA	(CWA)
STABILIZED STAGING AREA	(SSA)
ROCK CHECK DAM	(RCD)

NOTE:
 ALL BMPs SHOWN ARE GRAPHICAL IN NATURE. FINAL SIZE AND LOCATION SHALL BE DETERMINED BY THE CONTRACTOR.

- GENERAL NOTES:**
- THIS EROSION CONTROL PLAN AND ASSOCIATED SWMP ARE LIVING DOCUMENTS REQUIRING PERIODIC REVIEW AND UPDATING AS SITE CONDITIONS CHANGE OR AS REQUIRED BY LOCAL AUTHORITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ONGOING COMPLIANCE WITH THE REQUIREMENTS OF THE STORMWATER DISCHARGE PERMIT.
 - THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
 - EROSION CONTROL PRACTICES, SITE PROTECTION AND REVEGETATION METHODS SHALL FOLLOW CITY OF FORT COLLINS REGULATIONS.
 - DURING CONSTRUCTION PHASING, INSTALL EROSION CONTROL MEASURES FOLLOWING BMPs WITH EACH PHASE AS REQUIRED.
 - PERMETER PROTECTION (I.E., STRAW WATTLES) IS SHOWN AROUND EACH BLOCK THAT IS A PART OF THE PROPOSED IMPROVEMENTS. REFER TO THE LEGEND (SEE RIGHT). THIS PERMETER PROTECTION SHALL BE INSTALLED WHEN CURB, GUTTER AND SIDEWALK INSTALLATION IS COMPLETED BY THE ADJOINING RIGHT-OF-WAY. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING PERMETER PROTECTION (I.E., STRAW WATTLES) DAMAGED BY CONSTRUCTION TRAFFIC (E.G., TRUCKS DRIVING OVER STRAW WATTLES AND FLATTENING THEM).
 - FOLLOWING OVERLOT GRADING OR ANY OTHER LAND DISTURBING ACTIVITY, ALL OTHER AREAS OF THE SITE TO BE DEVELOPED DURING LATER PHASES OF CONSTRUCTION AND WHICH SHALL REMAIN EXPOSED FOR MORE THAN THIRTY (30) DAYS WILL REQUIRE TEMPORARY OR PERMANENT EROSION CONTROL (I.E., SEED/MULCH, LANDSCAPING, ETC.).
 - SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON SEEDING/PLANTING, REVEGETATION, EROSION FABRIC/BLANKETS, IRRIGATION, HARDSCAPE AND OTHER TEMPORARY AND PERMANENT SITE STABILIZATION METHODS.
 - SEE EROSION CONTROL NOTES ON THIS SHEET AND GRADING & EROSION CONTROL NOTES ON SHEET CVD2, AS WELL AS DETAILS ON SHEETS C7.2-C7.3.

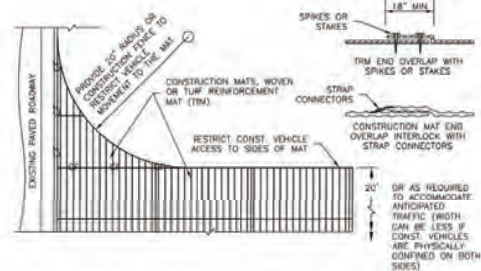
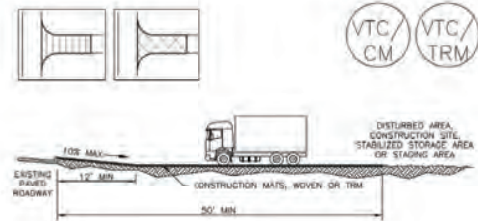
CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



Vehicle Tracking Control (VTC)

SM-4



VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

Vehicle Tracking Control (VTC)

SM-4

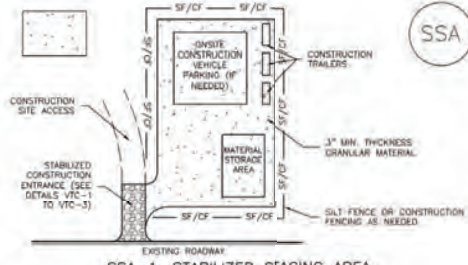
- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES
- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S)
 - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM)
 - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH), WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, A5H10 #1 COARSE AGGREGATE OR 6" (MINUS) ROCK.

- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES
- INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REPLACED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SWEEPING OR SKIDGRADING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-4

Stabilized Staging Area (SSA)

SM-6



- STABILIZED STAGING AREA INSTALLATION NOTES
- SEE PLAN VIEW FOR:
 - LOCATION OF STAGING AREA(S)
 - CONSTRUCTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
 - STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
 - STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
 - THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3' THICK GRANULAR MATERIAL.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, A5H10 #1 COARSE AGGREGATE OR 6" (MINUS) ROCK.
 - ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SALT FENCE AND CONSTRUCTION FENCING.
- STABILIZED STAGING AREA MAINTENANCE NOTES
- INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REPLACED OR REGRADED AS NECESSARY IF FILLING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-1

Stabilized Staging Area (SSA)

SM-6

- STABILIZED STAGING AREA MAINTENANCE NOTES
- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
 - THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE AND THE AREA COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
(DETAILS ADAPTED FROM DENVER COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-4

Check Dams (CD)

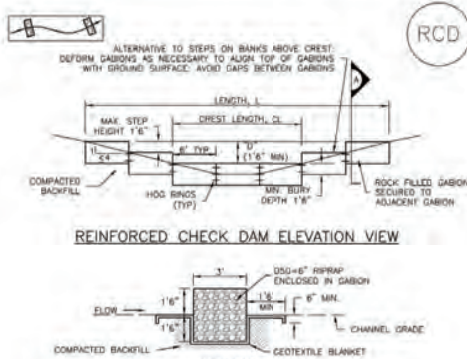
EC-12

- REINFORCED CHECK DAM MAINTENANCE NOTES
- INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED CHECK DAMS SHALL BE REMOVED AS NEEDED TO MAINTAIN THE EFFECTIVENESS OF BMPs. TYPICALLY WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST.
 - REPAIR OR REPLACE REINFORCED CHECK DAMS WHEN THERE ARE SIGNS OF DAMAGE SUCH AS HOLES IN THE GABION OR UNDERCUTTING.
 - REINFORCED CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
 - WHEN REINFORCED CHECK DAMS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCHED, AND COVERED WITH A GEOTEXTILE BLANKET, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM DENVER COUNTY, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CD-6

Check Dams (CD)

EC-12



- REINFORCED CHECK DAM INSTALLATION NOTES
- SEE PLAN VIEW FOR:
 - LOCATIONS OF CHECK DAMS
 - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM)
 - LENGTH (L), CRIST LENGTH (CL), AND DEPTH (D)
 - CHECK DAMS INDICATED ON THE SHMP SHALL BE INSTALLED PRIOR TO AN UPSTREAM LAND-DISTURBING ACTIVITIES.
 - REINFORCED CHECK DAMS, GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM OPENING DIMENSION OF 4 1/2" AND A MINIMUM WIRE THICKNESS OF 0.118" WIRE. "HOG RINGS" AT 4" SPACING OR OTHER APPROVED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT SECTION.
 - THE CHECK DAM SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1' 6".
 - GEOTEXTILE BLANKET SHALL BE PLACED IN THE REINFORCED CHECK DAM TRENCH EXTENDING A MINIMUM OF 1' 6" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE REINFORCED CHECK DAM.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CD-5

PRELIMINARY
NOT FOR BIDDING
NOT FOR CONSTRUCTION

COPYRIGHT
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.



MARS LANDING
PROJECT DEVELOPMENT PLAN

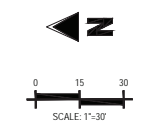
FORT COLLINS, CO

#	Date	Issue / Description	Init.

Project No:	GM000008
Drawn By:	DBC
Checked By:	JEP
Date:	07.28.2021

EROSION CONTROL
DETAILS

C7.3

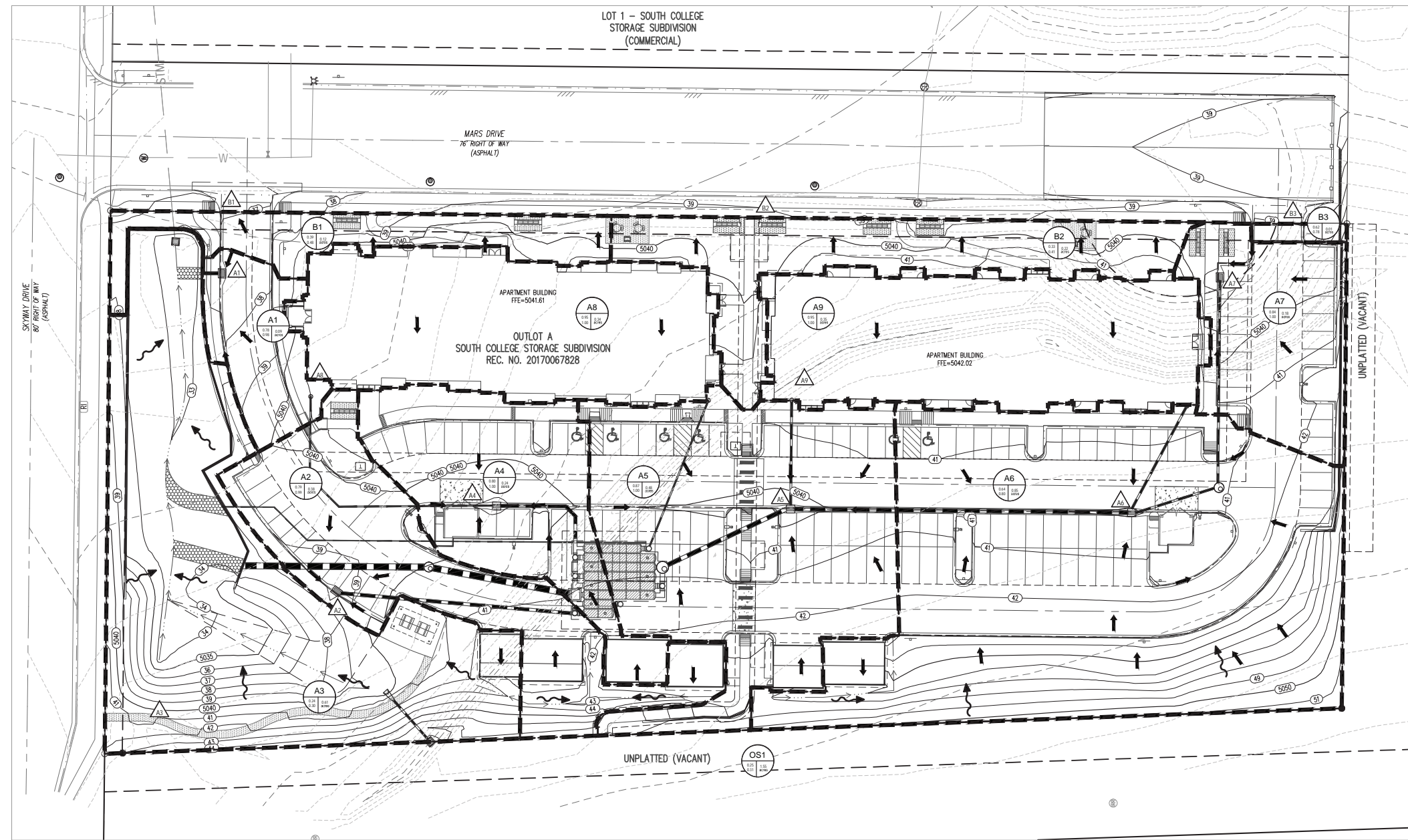


PRELIMINARY
 NOT FOR BIDDING
 NOT FOR CONSTRUCTION

COPYRIGHT
 THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF GALLOWAY, AND MAY NOT BE DUPLICATED, DISCLOSED, OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF GALLOWAY. COPYRIGHTS AND INFRINGEMENTS WILL BE ENFORCED AND PROSECUTED.

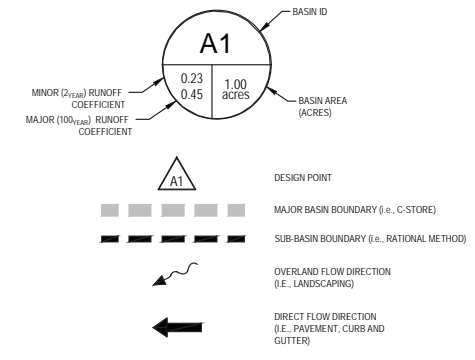


MARS LANDING
 PROJECT DEVELOPMENT PLAN
 FORT COLLINS, CO



LEGEND:

- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED STORM INLET
- EXISTING STORM INLET
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING RIGHT-OF-WAY
- EXISTING LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE



CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.



BASIN SUMMARY TABLE

Trib. to Sub-basin	Area (Acres)	C _s	C _m	L ₁₀ (ft)	L ₅₀ (ft)	Q ₁₀ (cfs)	Q ₅₀ (cfs)
A1	0.35	0.23	0.55	5.5	10.0	2.2	1.5
A2	0.35	0.23	0.55	5.5	10.0	2.2	1.5
A3	0.35	0.23	0.55	5.5	10.0	2.2	1.5
A4	0.29	0.23	0.55	5.5	10.0	2.0	1.4
A5	0.42	0.23	0.55	5.5	10.0	2.3	1.6
A6	0.52	0.23	0.55	5.5	10.0	2.7	1.9
A7	0.32	0.23	0.55	5.5	10.0	2.1	1.4
A8	0.24	0.23	0.55	5.5	10.0	1.7	1.2
A9	0.36	0.23	0.55	5.5	10.0	2.2	1.5
B1	0.22	0.36	0.43	4.8	8.5	1.9	1.3
B2	0.22	0.36	0.43	4.8	8.5	1.9	1.3
B3	0.32	0.36	0.43	4.8	8.5	2.2	1.5
A BASINS TO DETENTION	3.44	0.23	0.55	-	-	6.9	23.1
TO LID	2.74	0.36	0.43	-	-	3.6	25.4
B BASINS	0.53	0.36	0.43	-	-	0.00	1.95
TOTAL	3.79	0.67	0.54	-	-	0.00	29.82

#	Date	Issue / Description	Init.

Project No: GNC000098
 Drawn By: DBC
 Checked By: JEP
 Date: 07.28.2021

DRAINAGE PLAN

C8.0

SOUTH COLLEGE STORAGE

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER OF SECTION 11, TOWNSHIP 6 NORTH, RANGE 69 WEST OF THE 6TH P.M., CITY OF FORT COLLINS, COUNTY OF LARIMER, STATE OF COLORADO

STATEMENT OF OWNERSHIP AND SUBDIVISION:

Know all persons by these presents, that the undersigned owner(s) of the following described land:

A tract of land located in the Southeast Quarter of Section 11, Township 6 North, Range 69 West of the 6th P.M., City of Fort Collins, County of Larimer, State of Colorado, more particularly described as follows:

Considering the East line of Southeast Quarter of Section 11 as bearing North 00° 23' 13" West, and with all bearings contained herein relative thereto,

COMMENCING at the East 1/4 corner of said Section 11; thence along the East line of the Southeast Quarter of Section 11, South 00° 23' 13" East, 48.93 feet; thence departing said East line, North 89° 36' 47" East, 45.43 feet to a point on that tract of land described in Reception No. 20120022884, said point being the **POINT OF BEGINNING**; thence, South 00° 07' 39" East, 42.21 feet; thence, South 89° 50' 19" West, 9.94 feet; thence, South 00° 01' 34" East, 24.02 feet; thence, North 89° 43' 30" East, 12.70 feet; thence, South 00° 13' 18" East, 554.75 feet; thence, North 89° 07' 02" West, 889.36 feet; thence, North 01° 49' 04" West, 631.28 feet; thence, South 89° 06' 11" East, 894.59 feet; thence, South 45° 11' 38" East, 13.79 feet to the **POINT OF BEGINNING**.

Contains 568,772 square feet or 12.988 acres, more or less.

For themselves and their successors in interest (collectively "Owner") have caused the above described land to be surveyed and subdivided into lots, tracts and streets as shown on this Plat to be known as SOUTH COLLEGE STORAGE (the "Development"), subject to all easements and rights-of-way now of record or existing or indicated on this Plat. The rights and obligations of this Plat shall run with the land.

CERTIFICATE OF DEDICATION:

The Owner does hereby dedicate and convey to the City of Fort Collins, Colorado (hereinafter "City"), for public use, forever, a permanent right-of-way for street purposes and the "Easements" as laid out and designated on this Plat, provided, however, that (1) acceptance by the City of this dedication of Easements does not impose upon the City a duty to maintain the Easements so dedicated, and (2) acceptance by the City of this dedication of streets does not impose upon the City a duty to maintain streets so dedicated until such time as the provisions of the Maintenance Guarantee have been fully satisfied. The streets dedicated on this Plat are the fee property of the City as provided in Section 31-23-107 C.M.S. The City's rights under the Easements include the right to install, operate, access, maintain, repair, reconstruct, remove and replace within the Easements public improvements consistent with the intended purpose of the Easements; the right to install, maintain and use gates in any fences that cross the Easements; the right to mark the location of the Easements with suitable markers; and the right to permit other public utilities to exercise these same rights. Owner reserves the right to use the Easements for purposes that do not interfere with the full enjoyment of the rights hereby granted. The City is responsible for maintenance of its own improvements and for repairing any damage caused by its activities in the Easements, but by acceptance of this dedication, the City does not accept the duty of maintenance of the Easements, or of improvements in the Easements that are not owned by the City. Owner will maintain the surface of the Easements in a sanitary condition in compliance with any applicable weed, nuisance or other legal requirements.

Except as expressly permitted in an approved plan of development or other written agreement with the City, Owner will not install on the easements, or permit the installation on the easements, of any building, structure, improvement, fence, retaining wall, sidewalk, tree or other landscaping (other than usual and customary grasses and other ground cover). In the event such obstacles are installed in the Easements, the City has the right to require the Owner to remove such obstacles from the Easements. If Owner does not remove such obstacles, the City may remove such obstacles without any liability or obligation for repair and replacement thereof, and charge the Owner the City's costs for such removal. If the City chooses not to remove the obstacles, the City will not be liable for any damage to the obstacles or any other property to which they are attached.

The rights granted to the City by this Plat inure to the benefit of the City's agents, licensees, permittees and assigns.

OWNER: Lithia Real Estate, Inc.

BY: 
Mark DeBoer, V.P. Corporate Development

STATE OF ~~OREGON~~ **OREGON**
COUNTY OF ~~JACKSON~~ **JACKSON**

The foregoing instrument was acknowledged before me this 27th day of SEPTEMBER, 2017, by

Mark DeBoer as V.P. Corporate Development of Lithia Real Estate, Inc.



Witness my hand and official seal

My commission expires: 2/29/2020


Notary Public

MAINTENANCE GUARANTEE:

The Owner hereby warrants and guarantees to the City, for a period of two (2) years from the date of completion and first acceptance by the City of the improvements warranted hereunder, the full and complete maintenance and repair of the improvements to be constructed in connection with the Development which is the subject of this Plat. This warranty and guarantee is made in accordance with the City Land Use Code and/or the Transitional Land Use Regulations, as applicable. This guarantee applies to the streets and all other appurtenant structures and amenities lying within the rights-of-way, easements and other public properties, including, without limitation, all curbing, sidewalks, bike paths, drainage pipes, culverts, catch basins, drainage ditches and landscaping. Any maintenance and/or repair required on utilities shall be coordinated with the owning utility company or department.

The Owner shall maintain said improvements in a manner that will assure compliance on a consistent basis with all construction standards, safety requirements and environmental protection requirements of the City. The Owner shall also correct and repair, or cause to be corrected and repaired, all damages to said improvements resulting from development-related or building-related activities. In the event the Owner fails to correct any damages within thirty (30) days after written notice thereof, then said damages may be corrected by the City and all costs and charges billed to and paid by the Owner. The City shall also have any other remedies available to it as authorized by law. Any damages which occurred prior to the end of said two (2) year period and which are unrepaired at the termination of said period shall remain the responsibility of the Owner.

REPAIR GUARANTEE:

In consideration of the approval of this final Plat and other valuable consideration, the Owner does hereby agree to hold the City harmless (for a five (5) year period, commencing upon the date of completion and first acceptance by the City of the improvements to be constructed in connection with the development which is the subject of this Plat, from any and all claims, damages, or demands arising on account of the design and construction of public improvements of the property shown herein, and the Owner furthermore commits to make necessary repairs to said public improvements, to include, without limitation, the roads, streets, fills, embankments, ditches, cross pans, sub-drains, culverts, walls and bridges within the right-of-way, Easements and other public properties, resulting from failures caused by design and/or construction defects. This agreement to hold the City harmless includes defects in materials and workmanship, as well as defects caused by or consisting of settling, trenches, fills or excavations.

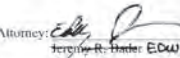
Further, the Owner warrants that he/she owns fee simple title to the property shown hereon and agrees that the City shall not be liable to the Owner or his/her successors in interest during the warranty period, for any claim of damages resulting from negligence in exercising engineering techniques and due caution in the construction of cross drains, drives, structures or buildings, the changing of courses of streams and rivers, flooding from natural creeks and rivers, and any other matter whatsoever on private property. Any and all monetary liability occurring under this paragraph shall be the liability of the Owner. I further warrant that I have the right to convey said land according to this Plat.

NOTICE OF OTHER DOCUMENTS:

All persons take notice that the Owner has executed certain documents pertaining to this Development which create certain rights and obligations of the Development, the Owner and/or subsequent Owners of all or portions of the Development site, many of which obligations constitute promises and covenants that, along with the obligations under this Plat, run with the land. The said documents may also be amended from time to time and may include, without limitation, the Development Agreement, Site and Landscape Covenants, Final Site Plan, Final Landscape Plan, and Architectural Elevations, which documents are on file in the office of the Clerk of the City and should be closely examined by all persons interested in purchasing any portion of the Development site.

ATTORNEY'S CERTIFICATION:

I hereby certify that this Subdivision Plat has been duly executed as required pursuant to Section 2.2.3(C)(3)(a) through (e) inclusive of the Land Use Code of the City of Fort Collins and that all persons signing this Subdivision Plat on behalf of a corporation or other entity are duly authorized signatories under the laws of the State of Colorado. This Certification is based upon the records of the Clerk and Recorder of Larimer County, Colorado as of the date of execution of the Plat and other information discovered by me through reasonable inquiry and is limited as authorized by Section 2.2.3(C)(3)(f) of the Land Use Code.

Attorney 
Edward R. Impert, EDWARD IMPERT
Address: **LIETHIA REAL ESTATE, INC.**
641 S.W. 2nd Ave., Suite 2100 (SON BARTLETT ST.)
Medford, OR 97504-3436 MEDFORD, OR 97501
Registration No.: 063769

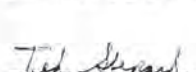
APPROVED AS TO FORM, CITY ENGINEER:

By the City Engineer of the City of Fort Collins, Colorado this 16th day of October, A.D., 2017.


City Engineer 

PLANNING APPROVAL:

By the Director of Community Development and Neighborhood Services of the City of Fort Collins, Colorado this 6th day of OCTOBER, A.D., 2017.


Director of Community Development and Neighborhood Services 

NOTICE:

ALL RESPONSIBILITIES AND COSTS OF OPERATION, MAINTENANCE AND RECONSTRUCTION OF THE PRIVATE STREETS AND/OR DRIVES LOCATED ON THE PRIVATE PROPERTY THAT IS THE SUBJECT OF THIS PLAT SHALL BE BORNE BY THE OWNERS OF SAID PROPERTY, EITHER INDIVIDUALLY, OR COLLECTIVELY, THROUGH A PROPERTY OWNERS' ASSOCIATION, IF APPLICABLE. THE CITY OF FORT COLLINS SHALL HAVE NO OBLIGATION OF OPERATION, MAINTENANCE OR RECONSTRUCTION OF SUCH PRIVATE STREETS AND/OR DRIVES NOR SHALL THE CITY HAVE ANY OBLIGATION TO ACCEPT SUCH STREETS AND/OR DRIVES AS PUBLIC STREETS OR DRIVES.



NORTH VICINITY MAP 1"=1500'

NOTES:

- 1) The basis of bearings is the East line of the Southeast Quarter of Section 11, as bearing North 00° 23' 13" West (assumed bearing) as monumented on drawing.
- 2) For all information regarding easements, right-of-way or title of record, Northern Engineering relied upon File Number 01330-81862-C2, dated August 1, 2017, prepared by Stewart Title Company.
- 3) The linear unit of measurement for this plat is U.S. Survey Feet.
- 4) There shall be no private conditions, covenants or restrictions that prohibit or limit the installation of resource conserving equipment or landscaping that are allowed by Sections 12-120 - 12-122 of the City code.
- 5) NOTE THAT THE PLAT OF SKYVIEW SUBDIVISION CALLS THE SOUTHERLY RIGHT OF WAY OF SKYWAY DRIVE AS BEING PARALLEL TO THE SOUTH LINE OF THE NORTHEAST QUARTER OF SECTION 11. THE LOCATION OF SAID QUARTER SECTION LINE WAS NOT ACCEPTED AS CONTROLLING THE SOUTHERLY RIGHT OF WAY OF SKYWAY DRIVE AND WAS DETERMINED BY THE FOLLOWING:
LAND SURVEY PLAT RECORDED AT RECEPTION NUMBER 20120061810, ALTA/ASCM SURVEY RECORDED AT RECEPTION NUMBER 20060921570, ALTA/NSPS SURVEY PREPARED BY NORTHERN ENGINEERING (Project Number: 1269-002, NOT RECORDED), DEED AS RECORDED AT RECEPTION NUMBER 91662247, FOUND LOCAL MONUMENTATION; THE EXISTING LOCATION OF SKYWAY DRIVE, LOCAL IMPROVEMENTS AND EVIDENCE SHOWN HEREON.
- 6) The Temporary Access Easement shall be terminated upon completion of Mars Drive in the ultimate location and configuration to the southern property line.
- 7) Per email received by Mr. Jack Fertig, President North Loudon Ditch Company, dated September 20, 2017; it is understood that there is and will remain a prescriptive easement for the ditch as it exists on the South College Storage property, as shown hereon.

SURVEYOR'S STATEMENT:

I, Robert C. Tessey, a Colorado Registered Professional Land Surveyor do hereby state that this Subdivision Plat was prepared from an actual survey under my personal supervision, that the monumentation as indicated hereon were found or set as shown, and that the foregoing plat is an accurate representation thereof, all this to the best of my knowledge, information and belief.



For and on Behalf of Northern Engineering
Robert C. Tessey
Colorado Registered Professional
Land Surveyor No. 38470

NOTICE: According to Colorado law, you must commence any legal action based upon any defect in this survey within three years after your discovery of the defect. In no event may any action based upon any defect in this survey be commenced more than ten years after the date of the certificate shown hereon.

SECTION: 11
TOWNSHIP: 6 N
RANGE: 69 W of the 6th P.M.

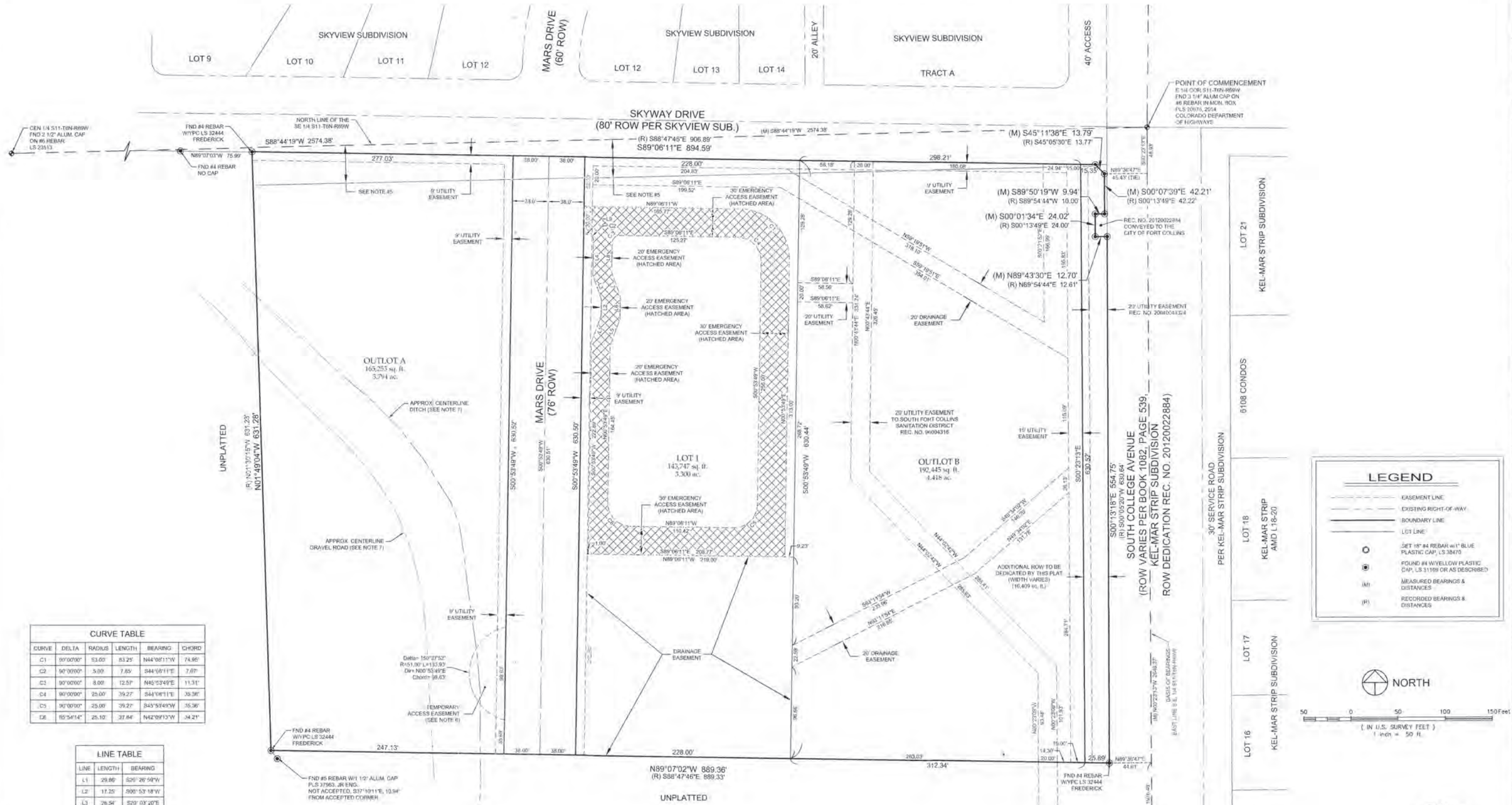


DATE: 9/25/17
SCALE: N/A
DESIGNED BY: R. Tessey
DRAWN BY: L. Smith
CHECKED BY: B. Terrell

SOUTH COLLEGE STORAGE
CITY OF FORT COLLINS
STATE OF COLORADO

SOUTH COLLEGE STORAGE

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER OF SECTION 11, TOWNSHIP 6 NORTH, RANGE 69 WEST OF THE 6TH P.M., CITY OF FORT COLLINS, COUNTY OF LARIMER, STATE OF COLORADO



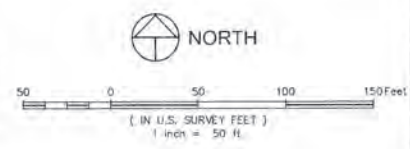
CURVE	DELTA	RADIUS	LENGTH	BEARING	CHORD
C1	90°00'00"	53.00'	83.25'	N44°08'11"W	74.95'
C2	90°00'00"	5.00'	7.85'	S44°59'11"E	7.07'
C3	90°00'00"	8.00'	12.57'	N45°53'49"E	11.31'
C4	90°00'00"	25.00'	39.27'	S44°08'11"E	35.36'
C5	90°00'00"	25.00'	39.27'	S45°54'49"W	35.36'
C6	90°54'14"	25.10'	37.84'	N42°09'13"W	34.21'

LINE	LENGTH	BEARING
L1	29.86'	S20°26'59"W
L2	11.25'	S00°53'18"W
L3	28.54'	S20°03'20"E
L4	37.94'	S00°53'49"W
L5	29.86'	N20°26'59"E
L6	24.40'	N00°53'18"E
L7	26.54'	N20°03'20"W
L8	31.24'	N00°53'49"E
L9	5.59'	S89°30'11"E

PARCEL	DESCRIPTION	DEDICATION	AREA	PERCENT	INTENDED OWNERSHIP/MAINTAINANCE BY
OUTLOT A	Open Space	Drainage & Utility Easement	163,253 S.F. 3.79 AC	29.21%	Property Owner
OUTLOT B	Open Space	Drainage & Utility Easement	192,445 S.F. 4.42 AC	34.01%	Property Owner
ROW	Public Use		84,377 S.F. 1.98 AC	11.37%	City of Fort Collins
LOT 1	Commercial		143,747 S.F. 3.30 AC	25.41%	Property Owner
TOTAL			585,772 S.F. 12.99 AC	100.00%	

LEGEND

- EASEMENT LINE
- - - EXISTING RIGHT-OF-WAY
- BOUNDARY LINE
- LOT LINE
- SET 15" 84 REBAR W/ 1" BLUE PLASTIC CAP, LS 38470
- FOUND #4 W/ YELLOW PLASTIC CAP, LS 31169 OR AS DESCRIBED
- (M) MEASURED BEARINGS & DISTANCES
- (R) RECORDED BEARINGS & DISTANCES



Robert C. Towner
Registered Professional Land Surveyor
License No. 37470
Colorado Department of Natural Resources

NOTICE:
According to Colorado law, you must commence any legal action based upon any defect in this survey within three years after you discover such defect. In no event may any action be based upon any defect in this survey if commenced more than ten years after the date of the certificate shown herein.

SECTION: 11
TOWNSHIP: 6 N
RANGE: 69 W of the 6th PM

NORTHERN ENGINEERING

101 West Commerce Street, Suite 100
Fort Collins, Colorado 80501
970.221.1111
www.northerneng.com

PROJECT: 1289-002
DATE: 5/25/17
DESIGNED BY: L. Smith
DRAWN BY: R. Towner

SOUTH COLLEGE STORAGE
CITY OF FORT COLLINS
STATE OF COLORADO

Sheet
2
Of 2 Sheets



Community Development and
Neighborhood Services

Planning Services

281 North College Ave.
P.O. Box 580
Fort Collins, CO 80522

970.221.6750
970.224.6134 - fax
fcgov.com/developmentreview

Mars Landing Neighborhood Meeting Summary (8-27-19)

Overview

City Staff:

Pete Wray, Senior City Planner and Project Planner
Sylvia Tatman-Burruss, Development Review Liaison
Shawna Van Zee, City Planning Specialist
Dave Betley, Civil Engineering Manager
Joe Olson, City Traffic Engineer
Steve Gilchrist, Traffic Engineering Sr. Technician
Martina Wilkinson, Assistant City Traffic Engineer (not at mtg. but provided written responses)
Stephanie Blochowiak, Environmental Planner (not at mtg. but provided written responses)

Applicant:

Mark Johnson, Goodwin Knight LLC
James Prelog, Galloway and Company

Neighborhood Meeting Date: Monday August 26, 2019

Proposed Project Review Process

- Purpose of meeting is to share conceptual plans at an early stage in process and gather feedback from neighbors for inclusion in record.
- A formal application of the project has not been submitted to the City
- A project development plan submittal will start a formal review by staff, with each round of review comprising three weeks
- Staff will determine when the project is ready for hearing
- Type 2 review and hearing, with the Planning and Zoning Board with Project Development Plan with Board acting decision maker.
- Residents who receive this meeting notice will also receive a letter for the Planning and Zoning Board Hearing

Applicant Presentation

- The project has completed the conceptual review stage and a PDP application has not been submitted to the city.
- The project includes a request to build two, three story multi-family buildings with 90 total dwelling units and clubhouse.
- 188 parking spaces will be provided on site for both the residential uses and pool/clubhouse.
- Site provides a landscape buffer to the existing ditch corridor west of project and full site landscape design
- Primary access to the site is from Mars Drive via Skyway Drive
- The property is in the General Commercial (C-G) Zone District.

Questions/Comments and Answers

Transportation Comments:

Question: Is there evidence of the traffic study that we can see?

Applicant: The traffic study will be submitted with the formal application and will be public record, so it will be available upon request. Information from the traffic study will determine level of service requirements and extent of public street improvements, based on project traffic impacts.

Question: Who owns the frontage road?

Applicant: CDOT, the state department of transportation, owns S. College Ave. and the Frontage Rd. is in the right-of-way. CDOT is responsible for maintenance of both roadways.

Question: Who completed the traffic study? Is this done by the applicant's team?

Applicant: Delich Associates, an independent contractor, is conducting the traffic study.

Question: Will there be visitor parking spots? It does not look like you have many extra visitor parking spots beyond what the residents will need.

Applicant: There is parking for visitors in addition to resident parking.

Question: When the problem with the traffic starts, who do we contact?

City Staff: You can contact Joe Olson with the City's Traffic Engineering at jolson@fcgov.com.

Question: All of the traffic from this development will be come off of Skyway Dr. Is that correct?

Applicant: Yes, until Mars Drive connects through future developments to Trilby Road, the traffic will all connect to Skyway Dr.

Question: Safety is our concern and even though the traffic study may show you do not need to make improvements, there are issues in this area that need to be addressed. Will there be a traffic light at Constellation? Who do we complain to about the Frontage Road?

Joe Olson: Developers can't be required to fix things that are already not working. We look at things that they are impacting directly. The Frontage Road that close to College Ave is a difficult design, which is why we don't design roadways like this anymore. For existing deficiencies, please direct your concerns to traffic operations with the city. Joe Olson is the point of contact if you want to have conversations about traffic issues in your neighborhood. His number is 970-224-6062.

Sylvia Tatman-Burruss: The City would be happy to set up a meeting with your HOA about existing conditions and what improvements need to be addressed.

Comment: Skyway Drive is dangerous in the winter. There is lots of ice and it is downhill to the light at College Avenue, so it is very easy to slide into the intersection.

Joe Olson: It would be best to notify traffic operations of that specific issue to ensure the road is properly maintained in the winter.

Comment: If we want to address the traffic, we need to take it to City Council to get change.

Question: Who is responsible to finish Mars Drive to Trilby?

Applicant: That will not be part of this development. We will extend Mars drive an additional 200 feet. The ultimate plan of the street network is for Mars Drive to extend to Trilby in the future. The remaining portions would be built by future development on the parcels to the south that connect to Trilby.

Pete: If and when the middle properties come forward for development, they will be responsible for building the remainder of Mars Drive. Each project builds their section of the road to the city standards.

Question: Is the traffic study already complete? Who sets the primary assumptions?

Applicant: A traffic study has been done, but it has not been submitted or reviewed by the city, so it is not complete.

Joe Olson: A traffic study includes a scoping meeting with the city and the group conducting the study to look at big picture to determine those assumptions.

Comment: Trilby is already an issue and will get worse if this connection is eventually made.

Pete Wray: This project is responsible for mitigating the traffic impacts from this development to determine local street frontage improvements and contributing to street oversizing based on those impacts. The future connection of Mars Drive between Skyway and Trilby will provide more street connectivity choices for accessing College. This project as stated will extend Mars Drive to south boundary of site. We do not know timing for when Mars Drive will be completed to Trilby, contingent on future development coming forward.

Question: This conversation has all been "If this, then that". Why isn't there a plan that states what will happen and what the quality of life will be like as a result? I'm concerned with the quality of life for the people who will be living here.

Pete Wray: As each development comes forward, we as City staff have to respond to that development and what can change as a result. Streets are built two ways, either by development or by a capital project that the city initiates. As stated previously, improvements

of existing deficiencies of streets, sidewalks and drainage in area are not part of this development but will be addressed over time as the city has available funding.

Comment: We have had multiple meetings in this area over the past several years and we always talk about traffic, and nothing ever gets better. Please recognize that there are people who have been here a long time and are very invested and we have already given a lot and we can't have development on the backs of those who have been here. We need to have our voices considered in this process.

Sylvia: Your comments are being captured and will be part of the record.

Environmental Comments:

Question: What about the prairie dogs? Will you kill them?

Applicant: The city has a mitigation process for prairie dogs.

Stephanie Blochowiak (written City Staff Response): An Ecological Characterization Study (ECS) is required to inventory all onsite natural habitats and features and those within 500-ft of project site per LUC 3.4.1. The ECS informs design of a "natural habitat buffer zone" or NHBZ. The ditch is proposed to be piped and City staff must mitigate for lost habitat value within the NHBZ design.

Question: The prairie dogs got pushed out of the self-storage development area. That plan was not adequate, and those dogs have moved to this site and to the right-of-way. This has been dangerous for the prairie dogs, and we have lost many of them.

Applicant: We will do our best to mitigate those effects and work with the city to handle the prairie dogs.

Stephanie Blochowiak (written City Staff Response): Land Use Code Section 3.4.1 now specifies that prairie dog colonies equal to or greater than one acre in size warrant protection or mitigation as part of the development review process. The following approaches may be acceptable forms of mitigation depending on specific circumstances:

- On-site habitat enhancements
- Off-site habitat enhancements
- Payment-in-lieu mitigation
- Trap and donate
- Passive relocation
- Active relocation

Any questions related to prairie dog mitigation can be directed to Stephanie Blochowiak, Environmental Planner with the City, at sblochowiak@fcgov.com.

Other Comments:

Question: Will the water on site be routed through the ditch on the north?

Applicant: No, the flows on this development will be connected to an underground storm system.

Question: What is the lighting plan for the parking lot? How will you do it safely and dimly?

Applicant: This is zoned commercial, so the light pollution of a residential development is likely less than you would see with a more commercial development. We work with lower mounted lights, and the city has strict standards in regard to lighting that we will adhere to. It won't be as dark as it is now, but the light should not be extending beyond our property.

Pete: They will submit a lighting plan that includes building lights, streets lights, and sidewalk lights. They will all be down directional and low light levels. The lighting can't extend beyond the site boundary.

Question: How is it safe in the case of a fire or emergency if there is only one exit?

Applicant: The fire department will review this project and they have high standards for safety. They deal with these situations a lot and will be thinking through these types of situations in their review of the plan. The PFA will have emergency access to the residential buildings and clubhouse on site. You will be able to see their comments throughout the process as well.

Question: You have a clubhouse – will that be able to be rented out?

Applicant: It would be available to the residence for use. The clubhouse will include an office, meeting room, and exercise room. It won't be a big building so it would not accommodate large groups or parties.

Question: How many units and bedrooms will be part of this development?

Applicant: 90 units and 128 bedrooms. These are market rate, and we do market rates to determine pricing but likely \$1,000-\$1,800.

Question: Who will manage the apartment complex?

Applicant: It will be managed by management company, and they will be onsite.

Question: What is the green area on the site plan?

Applicant: It is the detention pond. This area is part of the storm water drainage plan for the project.

Comment: People are going to have dogs and there is no place for pets. In Colorado many people have dogs. We are concerned their dogs will poop on our lawns. Please consider adding an area for dogs.

Applicant: That is something to consider. Without a formal dog park on site, residents have the option to walk their pets along the street sidewalks, open space on site, and eventually to the trail that will extend along to the west of this property.

Question: How are you going to keep the neighborhood kids off the playground?

Applicant: We will not be regulating children to stay out of the playground.

Comment: I have two primary concerns. First, when storm water drainage was addressed at the site with the storage, they took away the graded areas that had previously leveled off, it is a fast ride down in a wheelchair and could be a safety concern. Second, the drainage in this area has some major issues. The water backs up and there is a lake at the intersection of S. College Avenue when we get rain.

Pete: This project will provide streetscape improvements along frontage of Skyway Drive and Mars Drive, with new sidewalks in compliance with ADA standards. The project will also provide storm water improvements on site and connections to off-site drainage systems that meet City stormwater criteria requirements.

Sylvia: Thanks for attending tonight. The conversation will be summarized and available as public record. Residents that received notice of this meeting will also be notified of hearing. The next step in the development review process is for the applicant to consider refinements to the project design in preparation of a formal project submittal and review by City staff.



MEMORANDUM

TO: Bryan Kniep/Nicole Renner, Goodwin Knight
Don Cecil/James Prelog, Galloway
Steve Gilchrist, Fort Collins Traffic Operations

FROM: Matt Delich

DATE: October 30, 2020

SUBJECT: Mars Landing Transportation Impact Study Addendum
(File: 1968ME02)



This memorandum is an addendum to the **Mars Landing Transportation Impact Study (TIS)**, dated August 7, 2019. It provides an evaluation of the change in operation (delay) at the US287/Skyway intersection with the west leg (eastbound) striped with a left-turn/through lane and a right-turn lane. It also addresses the queue length of these lanes.

In the cited TIS, the west leg was analyzed with all movements in a single lane (current striping). The short range (2024) total peak hour traffic forecast (from the cited TIS) is provided in Appendix A. Table 4 from the TIS (also in Appendix A) shows the short range total peak hour intersection operation and the calculated delay for the eastbound approach at the intersection. The calculation forms can be found in Appendix E of the cited TIS. The 95th percentile queues for the west leg are 128 feet and 118 feet in the respective peak hours (5 vehicles).

The subject intersection was analyzed with an eastbound left-turn/through lane (11 feet wide) and an eastbound right-turn lane (11 feet wide). Under this condition, the designated bike lane would end and bikes would share the travel lanes with motor vehicles. No other geometric changes were made at the intersection in this analysis. Table 1 shows the short range total peak hour intersection operation and the calculated delay for the eastbound approach at the intersection. The calculation forms are provided in Appendix B. This geometric modification will reduce the eastbound approach delay by 4.4 and 5.3 seconds in the respective peak hours. It also allows the eastbound to southbound right-turning vehicles to bypass the left-turning/through vehicles. Bottom line is that the geometric modification will improve the operation and reduce the delay for the eastbound approach at the intersection. The level of service on the other legs is not significantly different.

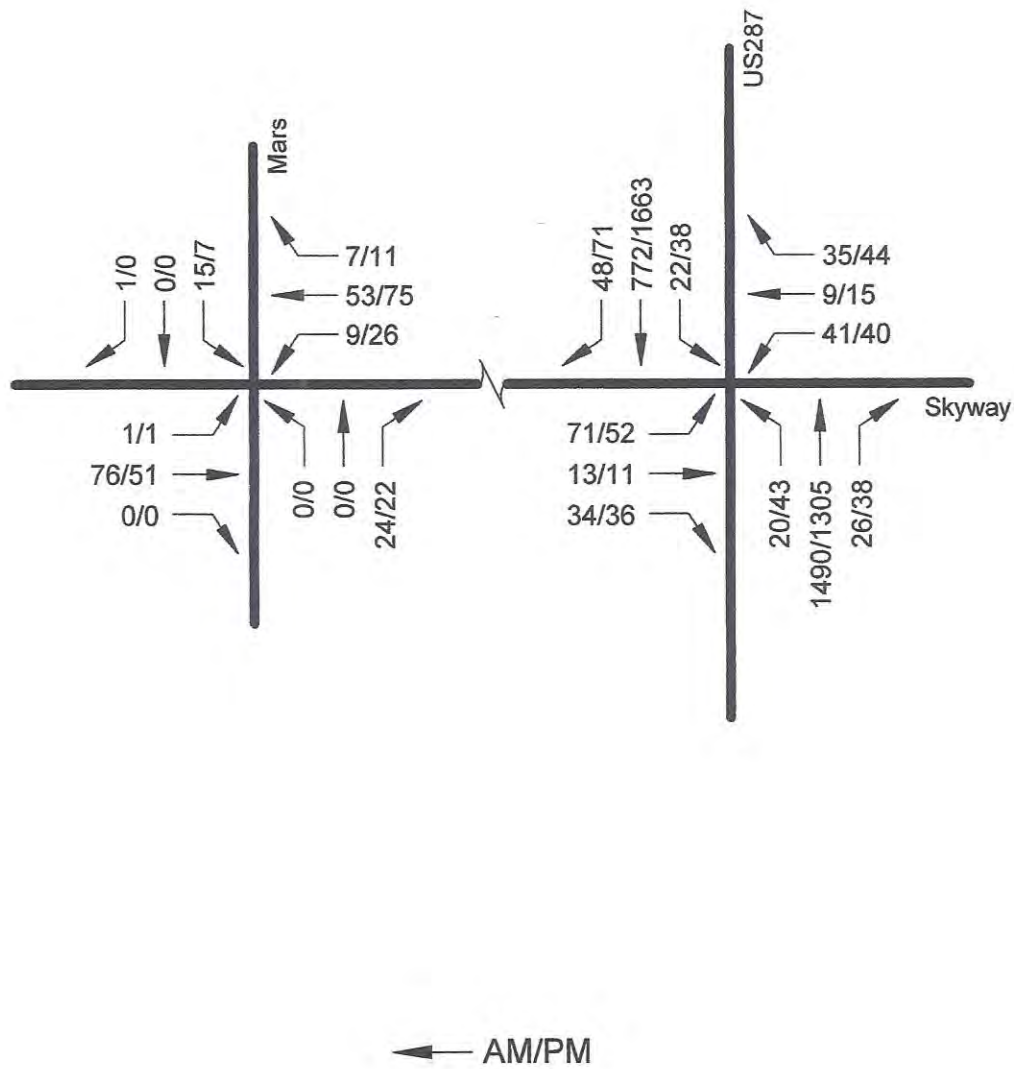
The 95th percentile queue for the left-turn/through lane is 105 feet and 93 feet in the respective peak hours (4 vehicles). This queue length determines the length of both approach lanes (100 feet). The transition area will occur to the west of the two approach lanes before returning to a single eastbound lane. Appendix C contains a rough signage and striping drawing, provided by City staff. This drawing should be modified by extending the two approach lanes to 100 feet with the transition area and signage moved appropriately to the west. The defined bike lane should end approximately 175 feet west of the stop bar.

It is concluded that the geometric modification will improve the operation and reduce the delay for the eastbound approach at the intersection. Do not hesitate to contact me if there are questions of if additional information is required.

TABLE 1
Short Range (2024) Total Peak Hour Operation

Intersection	Movement	Level of Service	
		AM (Delay,sec)	PM (Delay,sec)
US287/Skyway (signal)	EB LT/T	D (46.9)	D (52.0)
	EB RT	D (43.4)	D (48.9)
	EB APPROACH	D (46.9)	D (51.9)
	WB LT/T/RT	D	E
	NB LT	A	A
	NB T	A	A
	NB RT	A	A
	NB APPROACH	A	A
	SB LT	A	A
	SB T	A	A
	SB RT	A	A
	SB APPROACH	A	A
	OVERALL	B	B
Skyway/Mars (stop sign)	NB LT/T/RT	A	A
	SB LT/T/RT	A	B
	EB LT/T/RT	A	A
	WB LT/T/RT	A	A
	OVERALL	A	A

APPENDIX A



SHORT RANGE (2024) TOTAL PEAK HOUR TRAFFIC

Figure 9

TABLE 4
Short Range (2024) Total Peak Hour Operation

Intersection	Movement	Level of Service	
		AM (Delay,sec)	PM (Delay,sec)
US287/Skyway (signal)	EB LT/T/RT	D (51.3)	E (57.2)
	WB LT/T/RT	D	E
	NB LT	A	A
	NB T	A	A
	NB RT	A	A
	NB APPROACH	A	A
	SB LT	A	A
	SB T	A	A
	SB RT	A	A
	SB APPROACH	A	A
	OVERALL	A	A
Skyway/Mars (stop sign)	NB LT/T/RT	A	A
	SB LT/T/RT	A	B
	EB LT/T/RT	A	A
	WB LT/T/RT	A	A
	OVERALL	A	A

APPENDIX B

HCM 6th Signalized Intersection Summary

3: US287 & Skyway Drive

Short Total AM
RTOR adjustment

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	71	13	34	41	9	35	20	1490	26	22	772	48
Future Volume (veh/h)	71	13	34	41	9	35	20	1490	26	22	772	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1796	1945	1796	1796	1870	1796	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	79	14	1	46	10	11	22	1656	3	24	858	30
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	207	32	170	113	26	16	505	2540	1133	255	2544	1134
Arrive On Green	0.11	0.12	0.11	0.11	0.12	0.11	0.03	0.71	0.71	0.03	0.72	0.72
Sat Flow, veh/h	1208	268	1522	477	216	136	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	93	0	1	67	0	0	22	1656	3	24	858	30
Grp Sat Flow(s),veh/h/ln	1476	0	1522	829	0	0	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	0.0	0.0	0.1	3.8	0.0	0.0	0.4	27.4	0.1	0.4	10.0	0.6
Cycle Q Clear(g_c), s	6.5	0.0	0.1	10.3	0.0	0.0	0.4	27.4	0.1	0.4	10.0	0.6
Prop In Lane	0.85		1.00	0.69		0.16	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	226	0	170	148	0	0	505	2540	1133	255	2544	1134
V/C Ratio(X)	0.41	0.00	0.01	0.45	0.00	0.00	0.04	0.65	0.00	0.09	0.34	0.03
Avail Cap(c_a), veh/h	372	0	318	292	0	0	570	2540	1133	319	2544	1134
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.7	0.0	43.4	48.9	0.0	0.0	4.2	8.4	4.5	7.4	5.9	4.5
Incr Delay (d2), s/veh	1.2	0.0	0.0	2.2	0.0	0.0	0.0	1.3	0.0	0.2	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	0.0	1.9	0.0	0.0	0.1	7.8	0.0	0.1	2.8	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.9	0.0	43.4	51.0	0.0	0.0	4.2	9.7	4.5	7.6	6.2	4.6
LnGrp LOS	D	A	D	D	A	A	A	A	A	A	A	A
Approach Vol, veh/h		94			67			1681			912	
Approach Delay, s/veh		46.9			51.0			9.6			6.2	
Approach LOS		D			D			A			A	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	7.0	84.7		18.3	7.1	84.6		18.3				
Change Period (Y+Rc), s	5.0	7.0		6.0	5.0	7.0		6.0				
Max Green Setting (Gmax), s	6.0	63.0		23.0	6.0	63.0		23.0				
Max Q Clear Time (g_c+I1), s	2.4	12.0		8.5	2.4	29.4		12.3				
Green Ext Time (p_c), s	0.0	3.5		0.2	0.0	8.8		0.1				

Intersection Summary

HCM 6th Ctrl Delay 10.8
HCM 6th LOS B

Timing Report, Sorted By Phase
3: US287 & Skyway Drive

Short Total AM
RTOR adjustment



Phase Number	1	2	4	5	6	8
Movement	NBL	SBTL	EBTL	SBL	NBTL	WBTL
Lead/Lag	Lead	Lag		Lead	Lag	
Lead-Lag Optimize						
Recall Mode	None	C-Max	None	None	C-Max	None
Maximum Split (s)	11	70	29	11	70	29
Maximum Split (%)	10.0%	63.6%	26.4%	10.0%	63.6%	26.4%
Minimum Split (s)	11	25	29	11	25	29
Yellow Time (s)	3	5.5	3	3	5.5	3
All-Red Time (s)	2	1.5	3	2	1.5	3
Minimum Initial (s)	4	15	4	4	15	4
Vehicle Extension (s)	3	3	3	3	3	3
Minimum Gap (s)	3	3	3	3	3	3
Time Before Reduce (s)	0	0	0	0	0	0
Time To Reduce (s)	0	0	0	0	0	0
Walk Time (s)		7	7		7	7
Flash Dont Walk (s)		10	16		10	16
Dual Entry	No	Yes	Yes	No	Yes	Yes
Inhibit Max	Yes	Yes	Yes	Yes	Yes	Yes
Start Time (s)	80	91	51	80	91	51
End Time (s)	91	51	80	91	51	80
Yield/Force Off (s)	86	44	74	86	44	74
Yield/Force Off 170(s)	86	34	58	86	34	58
Local Start Time (s)	29	40	0	29	40	0
Local Yield (s)	35	103	23	35	103	23
Local Yield 170(s)	35	93	7	35	93	7

Intersection Summary










Cycle Length 110
 Control Type Actuated-Coordinated
 Natural Cycle 90
 Offset: 51 (46%), Referenced to phase 2:SBTL and 6:NBTL, Start of Red

Splits and Phases: 3: US287 & Skyway Drive



Queues
3: US287 & Skyway Drive

Short Total AM
RTOR adjustment

									
Lane Group	EBT	EBR	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	93	38	95	22	1656	29	24	858	53
v/c Ratio	0.51	0.16	0.47	0.04	0.66	0.03	0.10	0.33	0.05
Control Delay	52.5	1.4	37.1	4.0	12.5	0.0	4.6	7.3	1.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	52.5	1.4	37.1	4.0	12.5	0.0	4.6	7.3	1.1
Queue Length 50th (ft)	63	0	44	3	332	0	3	76	0
Queue Length 95th (ft)	105	0	87	11	557	0	12	210	9
Internal Link Dist (ft)	558		942		724			774	
Turn Bay Length (ft)		50		275		325	275		275
Base Capacity (vph)	304	357	315	521	2508	1070	239	2578	1136
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.31	0.11	0.30	0.04	0.66	0.03	0.10	0.33	0.05

Intersection Summary







HCM 6th Signalized Intersection Summary
 3: US287 & Skyway Drive

Short Total PM
 RTOR adjustment

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	52	11	36	40	15	44	43	1305	38	38	1663	71
Future Volume (veh/h)	52	11	36	40	15	44	43	1305	38	38	1663	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1796	1945	1796	1796	1870	1796	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	55	12	1	42	16	20	45	1374	19	40	1751	54
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	166	32	148	91	37	28	245	2617	1167	340	2612	1165
Arrive On Green	0.10	0.11	0.10	0.10	0.11	0.10	0.03	0.74	0.74	0.03	0.74	0.74
Sat Flow, veh/h	1056	303	1522	424	355	269	1781	3554	1585	1781	3554	1585
Grp Volume(v), veh/h	67	0	1	78	0	0	45	1374	19	40	1751	54
Grp Sat Flow(s),veh/h/ln	1359	0	1522	1047	0	0	1781	1777	1585	1781	1777	1585
Q Serve(g_s), s	0.0	0.0	0.1	4.0	0.0	0.0	0.7	19.9	0.4	0.6	30.9	1.1
Cycle Q Clear(g_c), s	5.6	0.0	0.1	9.7	0.0	0.0	0.7	19.9	0.4	0.6	30.9	1.1
Prop In Lane	0.82		1.00	0.54		0.26	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	187	0	148	148	0	0	245	2617	1167	340	2612	1165
V/C Ratio(X)	0.36	0.00	0.01	0.53	0.00	0.00	0.18	0.53	0.02	0.12	0.67	0.05
Avail Cap(c_a), veh/h	266	0	228	228	0	0	288	2617	1167	385	2612	1165
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.8	0.0	48.9	53.3	0.0	0.0	8.1	6.8	4.2	5.1	8.3	4.4
Incr Delay (d2), s/veh	1.2	0.0	0.0	2.9	0.0	0.0	0.4	0.8	0.0	0.2	1.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	0.0	2.5	0.0	0.0	0.3	5.6	0.1	0.2	8.8	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.0	0.0	48.9	56.2	0.0	0.0	8.4	7.6	4.2	5.3	9.7	4.4
LnGrp LOS	D	A	D	E	A	A	A	A	A	A	A	A
Approach Vol, veh/h		68			78			1438			1845	
Approach Delay, s/veh		51.9			56.2			7.5			9.4	
Approach LOS		D			E			A			A	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	8.1	94.2		17.7	7.9	94.4		17.7				
Change Period (Y+Rc), s	5.0	7.0		6.0	5.0	7.0		6.0				
Max Green Setting (Gmax), s	6.0	78.0		18.0	6.0	78.0		18.0				
Max Q Clear Time (g_c+I1), s	2.7	32.9		7.6	2.6	21.9		11.7				
Green Ext Time (p_c), s	0.0	10.5		0.1	0.0	6.8		0.1				
Intersection Summary												
HCM 6th Ctrl Delay			10.5									
HCM 6th LOS			B									

Timing Report, Sorted By Phase
3: US287 & Skyway Drive

Short Total PM
RTOR adjustment

						
Phase Number	1	2	4	5	6	8
Movement	NBL	SBTL	EBTL	SBL	NBTL	WBTL
Lead/Lag	Lead	Lag		Lead	Lag	
Lead-Lag Optimize						
Recall Mode	None	C-Max	None	None	C-Max	None
Maximum Split (s)	11	85	24	11	85	24
Maximum Split (%)	9.2%	70.8%	20.0%	9.2%	70.8%	20.0%
Minimum Split (s)	11	25	24	11	25	24
Yellow Time (s)	3	5.5	3	3	5.5	3
All-Red Time (s)	2	1.5	3	2	1.5	3
Minimum Initial (s)	4	15	4	4	15	4
Vehicle Extension (s)	3	3	3	3	3	3
Minimum Gap (s)	3	3	3	3	3	3
Time Before Reduce (s)	0	0	0	0	0	0
Time To Reduce (s)	0	0	0	0	0	0
Walk Time (s)		7			7	
Flash Dont Walk (s)		10			10	
Dual Entry	No	Yes	Yes	No	Yes	Yes
Inhibit Max	Yes	Yes	Yes	Yes	Yes	Yes
Start Time (s)	7	18	103	7	18	103
End Time (s)	18	103	7	18	103	7
Yield/Force Off (s)	13	96	1	13	96	1
Yield/Force Off 170(s)	13	86	1	13	86	1
Local Start Time (s)	24	35	0	24	35	0
Local Yield (s)	30	113	18	30	113	18
Local Yield 170(s)	30	103	18	30	103	18

Intersection Summary










Cycle Length 120
Control Type Actuated-Coordinated
Natural Cycle 80
Offset: 103 (86%), Referenced to phase 2:SBTL and 6:NBTL, Start of Red

Splits and Phases: 3: US287 & Skyway Drive

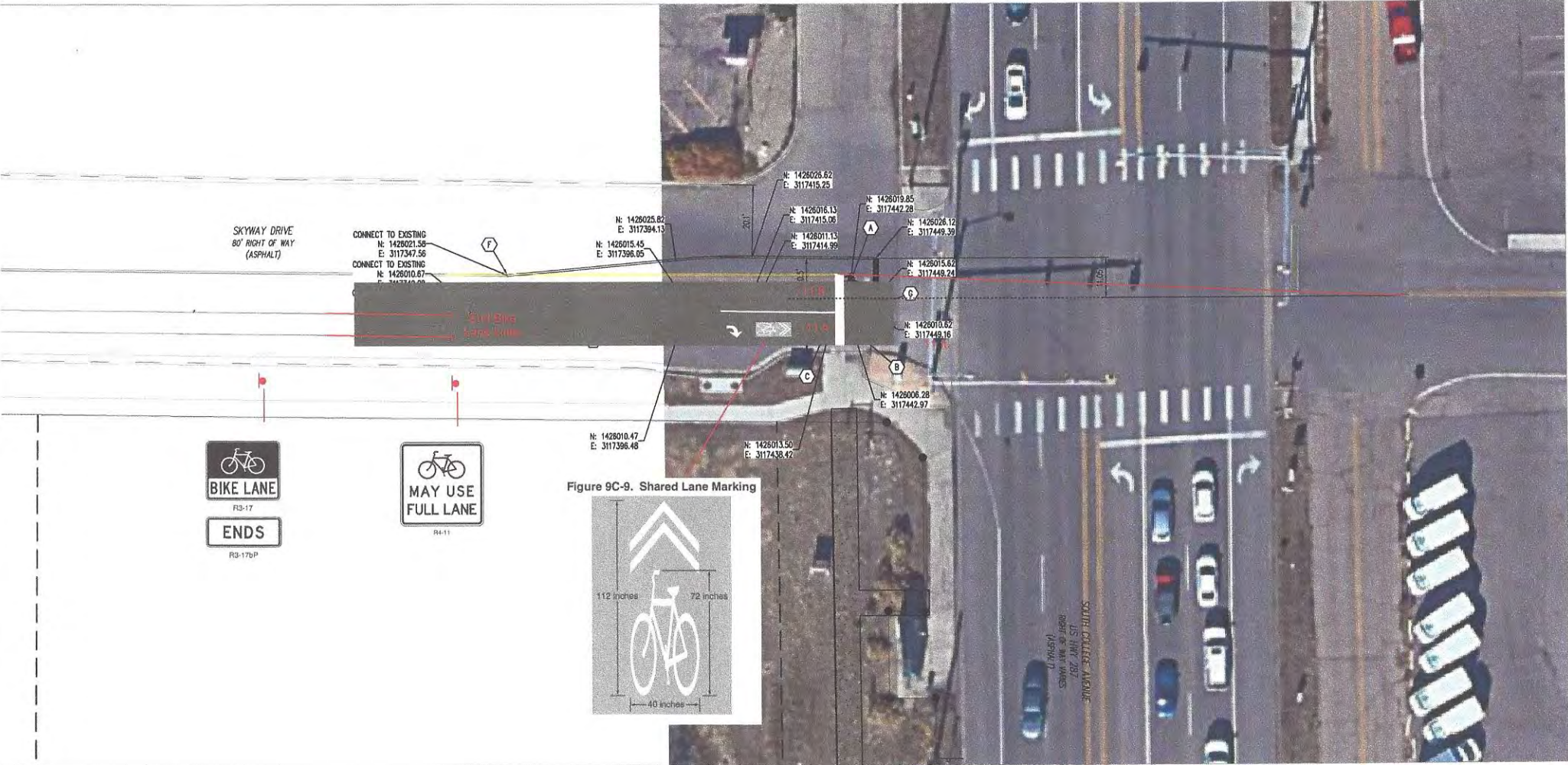


Queues
3: US287 & Skyway Drive

Short Total PM
RTOR adjustment

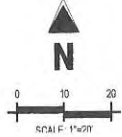
									
Lane Group	EBT	EBR	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	67	38	104	45	1374	40	40	1751	75
v/c Ratio	0.49	0.18	0.59	0.20	0.53	0.04	0.13	0.68	0.07
Control Delay	61.1	1.9	49.6	4.8	9.3	0.4	3.6	11.9	1.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.1	1.9	49.6	4.8	9.3	0.4	3.6	11.9	1.7
Queue Length 50th (ft)	50	0	56	5	236	0	5	365	0
Queue Length 95th (ft)	93	2	110	15	347	3	14	534	16
Internal Link Dist (ft)	558		942		724			774	
Turn Bay Length (ft)		50		275		325	275		275
Base Capacity (vph)	202	275	248	225	2573	1094	321	2572	1133
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.33	0.14	0.42	0.20	0.53	0.04	0.12	0.68	0.07
Intersection Summary									

APPENDIX C



B
-

SKYWAY DRIVE AT S COLLEGE AVENUE
SIGNAGE AND STRIPING



**Ecological Characterization Study
SE Corner of Skyway Drive and Gateway Center Drive**



**In Support of Article 3 General Development Standards,
Division 3.4 Environmental, Natural Area, Recreational and
Cultural Resource Protection Standards
City of Fort Collins, Colorado**

prepared for:

**Mark Johnson, RLA
8605 Explorer Dr. Suite 250
Colorado Springs, CO 8092**

prepared by:

**Wildlife Specialties LLC
PO Box 1231,
Lyons, CO 80540**

October 23, 2020

Table of Contents

<u>Section / Title</u>	<u>Page</u>
1.0 Introduction	2
2.0 Environmental Setting.....	3
3.0 Proposed Development.....	3
4.0 Survey Methods.....	3
5.0 Ecological Characterization Report	4
5.1 Wildlife Use of the Area.....	4
5.2 Wetlands.....	5
5.3 Prominent Views	5
5.4 Native Vegetation.....	5
5.5 Significant Non-Native Tree Species.....	5
5.6 Bank, Shoreline or High-Water Mark	5
5.7 Sensitive or Specially Valued Species.....	5
5.8 Special Habitat Features	6
5.9 Wildlife Movement Corridor.....	6
5.10 General Ecological Function	6
5.11 Issues with Timing of Development Activities.....	6
5.12 Natural Habitat or Feature Requiring Mitigation	7
6.0 Conclusions & Recommendations	7
7.0 References.....	7
Appendix A	27

List of Figures/Photos

<u>Number / Title</u>	<u>Page</u>
Figure 1. Parcel Location.....	8
Figure 2. Natural Habitats and Features.	9
Photos.....	10

List of Tables

<u>Number / Title</u>	<u>Page</u>
Table 1. Federal Threatened, Endangered and Candidate Plant and Wildlife Species Potentially Occurring near Skyway Drive and Mars Drive, Fort Collins, CO	14
Table 2. Migratory Birds of Conservation Concern.....	16
Table 3. Colorado Parks and Wildlife Endangered, Threatened, and Species of Special Concern	17
Table 4. City of Fort Collins List of Sensitive Wildlife Species.....	21

1.0 Introduction

This Ecological Characterization Study (ECS) was prepared to identify important City of Fort Collins Natural Habitats and Features at the SE corner of Skyway Drive and Gateway Center Drive in Fort Collins, Colorado (Figure 1). Specifically, this parcel is located in the NE ¼ of the SE ¼, Section 11 of Township 6 North Range 69 West of the sixth prime meridian.

Article 3 of the City of Fort Collins (City) General Development Standards section 3.4.1 Natural Habitats and Features states that if development is proposed within five hundred (500) feet of an area or feature identified as a natural habitat or feature on the city's Natural Habitats and Features Inventory Map (completed in 1999), or if any portion of the development site possesses characteristics (including, without limitation, wetlands, riparian areas or foothills forest) which would have supported their inclusion on the Natural Habitats and Features Inventory Map, and such areas are discovered during site evaluation and/or reconnaissance associated with the development review process then a comprehensive ecological characterization study of the entire property must be prepared by a qualified consultant and submitted to the City for review.

Article 3 of the City of Fort Collins (City) General Development Standards section 3.4.1 Natural Habitats and Features identifies the following Natural Communities or Habitats:

- a) Aquatic (e.g., rivers, streams, lakes, ponds);
- b) Wetland and wet meadow;
- c) Native grassland;
- d) Riparian forest;
- e) Urban plains forest;
- f) Riparian shrubland;
- g) Foothills shrubland; and
- h) Foothills forest.

Article 3 of the General Development Standards section 3.4.1 Natural Habitats and Features identifies the following Special Features:

- a) Significant remnants of native plant communities;
- b) Potential habitats and known locations of rare, threatened or endangered species of plants;
- c) Potential habitats and known locations of rare, threatened or endangered species of wildlife;
- d) Raptor habitat features, including nest sites, communal roost sites and key concentration areas;
- e) Concentration areas for nesting and migratory shorebirds and waterfowl;
- f) Migratory songbird concentration areas;
- g) Key nesting areas for grassland birds;
- h) Fox and coyote dens;
- i) Mule deer winter concentration areas;
- j) Prairie dog colonies one (1) acre or greater in size;
- k) Concentration areas for rare, migrant or resident butterflies;
- l) Areas of high terrestrial or aquatic insect diversity;
- m) Areas of significant geological or paleontological interest; and
- n) Irrigation ditches that serve as wildlife corridors.

The parcel includes a portion of the North Loudon Ditch (a wildlife movement corridor previously identified by the City), a Black-tailed Prairie Dog (prairie dogs - *Cynomys ludovicianus*) colony greater than one (1) acre in size (Figure 2). Additionally, there is a Red-tailed Hawk (*Buteo jamaicensis*) nest approximately 450 feet east of the east side of the parcel (Figure 3). This ECS is in response to the presence of the prairie dogs, Red-tailed Hawk nest, and the North Loudon Ditch.

2.0 Environmental Setting

The parcel is located in south Fort Collins within a strip of land between South College Avenue and Gateway Center Drive (east and west respectively), and Skyway Drive and West Trilby Road (north and south respectively). The property has historically been used for livestock grazing (primarily cattle and horses). A large self-storage facility is located east of the parcel and residential development is to the north and west with open lands located to the south. Specifically, Skyway Drive defines the northern boundary, Mars Drive to the east, non-native disturbed uplands to the south and Gateway Center Drive to the west. The parcel was converted from native shortgrass prairie into pasture. The parcel is fallow land that is currently not grazed by livestock with no native plant communities present though there are remnant individual native plant species present. Vegetation within the parcel is dominated by invasive non-native plant species including crested wheat grass (*Agropyron cristatum*), smooth brome (*Bromus inermis*), field bindweed (*Convolvulus arvensis*), leafy spurge (*Euphorbia esula*), and cheatgrass (downy brome – *Bromus tectorum*). Leafy spurge is designated as a “List B” species on the Colorado Noxious Weed Act. It is required to be eradicated, contained, or suppressed depending on the local infestations.

No jurisdictional wetlands, wetland plants, or habitats associated with wetlands per the U.S. Army Corps of Engineers (Corps) are found within the parcel. At the time of the survey there was no flowing or standing water in the North Loudon Ditch.

3.0 Proposed Development

Development of the parcel is planned; details of the development were not available at the time this ECS was prepared.

4.0 Survey Methods

The parcel was visited the afternoon of October 14, 2020 by Jerry Powell, Certified Ecologist, to document wildlife use and habitat, the current plant community, and identification of Natural Habitats or Features. A pedestrian survey via north-south running transects was completed to as closely as possible document any sensitive features or habitats and to count prairie dog burrows/holes. Digital photos of the parcel were taken for inclusion in this ECS. The boundaries of the active Black-tailed Prairie Dog colonies (north and south of the North Loudon Ditch) were marked by walking the edge of the active colony (determined by the presence of burrows and areas where the vegetation was cropped short) and using a Global Positioning System (GPS) to record the boundaries. The resulting information was used in ArcGIS to map the location of the prairie dogs in the fall of 2020 to show the current location and size of the colony.

Sources of information on the habitat requirements for wildlife species presented in the above lists come from the 2nd Colorado Breeding Bird Atlas (Colorado Bird Atlas Partnership 2016), Mammals of Colorado 2nd Edition (Armstrong et al. 2011), Amphibians and Reptiles in Colorado (Hammerson, 1999), and Colorado’s Little Fish (Woodling, 1985). Online resources consisted of the Colorado Parks and Wildlife website, NatureServe (2019), USDA Forest Service species technical assessments, and U.S. Fish and Wildlife Service listing documents. Likelihood of presence or absence was based on each species-specific habitat requirements and habitat types found within the parcel as well as proximity to human activity.

Wildlife species designated as federally listed threatened, endangered and candidate species (as well as Designated Critical Habitats) with potential habitat near the parcel was determined via the U.S. Fish and Wildlife Service’s Information, Planning and Conservation (IPaC) website (USFWS 2020 – accessed

October 23, 2020, Appendix A) The IPaC tool also identified migratory birds of conservation concern potentially present within the parcel; and the Colorado Parks and Wildlife's (CPW 2020) list of state threatened, endangered, and species of special concern.

5.0 Ecological Characterization Report

The following subsections are presented in the order identified by the City in Article 3 of the City of Fort Collins General Development Standards section 3.4.1(D) (a-l).

5.1 Wildlife Use of the Area

Wildlife use of the area is limited because of the location of the parcel, surrounding land uses, and non-native low diversity plant community. Wildlife species capable of existing within or using the parcel are limited to those species that are either habitat generalists capable of existing in modified urban environments (e.g. prairie dogs), or species which use a wide variety of habitats for foraging over a large area (e.g. Red-tailed Hawk).

The dominant mammalian wildlife species within the parcel is the Black-tailed Prairie Dog. Numerous burrows are located within the parcel. In addition to the prairie dogs on site, prairie dogs are present south and east of the parcel. The Eastern Cottontail Rabbit (*Sylvilagus floridanus*) was observed on the parcel as well. These prairie dogs and rabbits support predators (e.g. hawks) and species that are dependent on prairie dogs (e.g. Burrowing Owls) for burrows. Red Foxes (*Vulpes vulpes*) were observed (via tracks) using piping associated with the storm water detention pond located on the west side of the parcel.

No other mammals or their sign (scat, tracks, etc.) was observed. It is probable however that several small mammalian carnivores/scavengers including Coyotes (*Canis latrans*), Raccoons (*Procyon lotor*), and Striped Skunks (*Mephitis mephitis*) use the parcel as part of their home ranges.

Non-native trees are scattered along the western border of the parcel are well established and dominant by the parcel. Species observed within this area include Russian Olive (*Elaeagnus ngustifolia*) and Chinese Elm (*Ulmus parvifolia*), both of which are invasive species. Staghorn Sumac (*Rhus typhina*), non-native to Colorado and invasive, also was noted as present. These non-native trees likely provide suitable avian nesting and foraging habitat. It is likely that the American Robin (*Turdus migratorius*), Eurasian Collared Dove (*Streptopelia decaocto* – a non-native invasive species), Lesser Goldfinch (*Spinus psaltria*), and Western Kingbird (*Tyrannus verticalis*) nest in these trees (please note that no nests were observed during the site visit). Though they have not been observed, it is possible that both Vesper Sparrows (*Pooecetes gramineus*) and Western Meadowlarks (*Sturnella neglecta*) could nest within the parcel.

No other evidence of wildlife use of the parcel was noted and no additional wildlife species were observed within the parcel.

Aside from the Natural Habitats and Special Features described herein, the parcel does not contain any unique (e.g. fens) or critical (e.g. mule deer winter range) wildlife habitat. There are no bodies of water for use as waterfowl concentration areas.

5.2 Wetlands

Potential wetlands may occur within the detention pond west of the parcel, though no water was present and no wetlands associated plant species were observed.

5.3 Prominent Views

Development of the parcel would occur per City of Fort Collins standards which would work to ensure that there are no impacts to any prominent views from other nearby properties.

5.4 Native Vegetation

No intact native vegetation communities are present within the parcel. Remnant native species are present, but the parcel is dominated by non-native upland species.

5.5 Significant Non-Native Tree Species

The City defines significant trees in the Land Use Code as trees with a diameter at breast height (DBH) of six inches and greater. No non-native trees of this size were observed on the parcel during the survey.

5.6 Bank, Shoreline or High-Water Mark

No perennial streams, bodies of water, or wetlands are present within the parcel. Therefore, there is not bank, shoreline, or high-water marks within the parcel.

5.7 Sensitive or Specially Valued Species

The U.S. Fish & Wildlife Information for Planning & Conservation (IPaC) website identified nine vertebrate species that have historically or presently have the potential to occur within or near the parcel. Table 1 lists these species and indicates their potential to occur within the parcel; the parcel does not provide habitat for any of these species. Water depletions (aside from historically allocated) are not proposed that would impact any of the Laramie River/Platte River system listed fish species. Additionally, there is no federally Designated Critical Habitat within or near the parcel.

The IPAC list of Trust Resources identified 11 Migratory Birds of Conservation Concern that could potentially breed within the parcel (Table 2). Based on available habitat types, only the Western Burrowing Owl (*Athene cunicularia*) could potentially be present.

Species identified by the CPW (CPW 2020) as state sensitive, their habitat requirements, and their potential for occurrence within the parcel is presented in Table 3. The Burrowing Owl has potential habitat (prairie dog burrows) within the parcel; suitable habitat is not present for any other species presented in Table 3.

Table 4 provides The City of Fort Collins' list of wildlife species of concern along with the likelihood of these species occurring within the parcel. Of these species listed, only the Black-tailed prairie dog currently is present within the parcel. The one large Plains Cottonwood tree does provide potential nesting habitat for the Swainson's Hawk (*Buteo swainsoni*), though it is unlikely they would nest near the Red-tailed Hawk nest. No other species or habitat for species listed in Table 4 is found within the parcel.

Red Fox tracks were observed within the storm water detention pond ditches and piping system. . It is not uncommon for Red Foxes and other small carnivores to use these types of structures. It is likely that the Red Foxes are using this underground pipe network as a den site. No additional key wildlife production areas, wintering areas and migratory feeding areas for waterfowl; key use areas for wading birds and shorebirds; key use areas for migrant songbirds; key nesting areas for grassland birds; fox and coyote dens; mule deer winter concentration areas; key areas for rare, migrant or resident butterflies; areas of high terrestrial or aquatic insect; remnant native prairie habitat; mixed foothill shrubland; foothill ponderosa pine forest; plains cottonwood riparian woodlands; or other sensitive features are found within the parcel.

5.8 Special Habitat Features

Special Habitat Features include the prairie dog colony (greater than one [1] acre in size), one mature Plains Cottonwood tree, and a portion of the North Loudon Ditch (a wildlife movement corridor previously identified by the City). No additional Special Habitat Features are present.

5.9 Wildlife Movement Corridor

Often times irrigation ditches mimic natural drainage features by providing water for the establishment of riparian habitat. The diversity created by the presence of the water in the plant community is reflected in the animal community. Wildlife occupy different niches and niche overlap is reduced by diversity in structure (tall and short plants) and use (day versus night) within the riparian corridors. The North Loudon Ditch within the west parcel has no riparian habitat. It provides extremely limited cover and forage for wildlife; however, it may act as a movement corridor within the general area. The parcel, because of its location in the City and the lack of natural movement corridors between areas of higher quality habitat, does not contain any seasonal (i.e. migration) wildlife movement corridors.

5.10 General Ecological Function

The general ecological function of the parcel is to provide habitat for species capable of existing in a very modified and urban environment that is void of an intact native plant community. The dominance of invasive non-native plant species diminishes the general ecological function and value of the parcel, but it is important to those species currently using the parcel.

5.11 Issues with Timing of Development Activities

No clearing, grubbing, or general earth work should occur without a nest clearance survey if construction activities occur during the avian nesting season of March 1 through August 31.

The presence of the prairie dogs does create potential nesting habitat for the Western Burrowing Owl. Federal and state laws prohibit the harming or killing of Burrowing Owls and the destruction of active nests. Because Burrowing Owls often hide in burrows when alarmed, it is not practical to haze the birds away from prairie dog towns prior to construction activity. Because Burrowing Owls will retire into burrows when alarmed, it is possible to inadvertently kill burrowing owls during earth moving for construction. If earth moving activities or prairie dog management occurs between March 15 and October 31 a Burrowing Owl survey, per Colorado Parks and Wildlife protocol, is necessary. If earth moving activities (and if necessary prairie dog control) occur out of the March – November period surveys are not necessary. If Burrowing Owls are located greater than 150 feet from the edge of disturbance associated with earth moving activities no limitations are placed on what type of and where work can be completed.

5.12 Natural Habitat or Feature Requiring Mitigation

Mitigation per City of Fort Collins standards will be necessary for both the North Loudon Ditch and the prairie dogs.

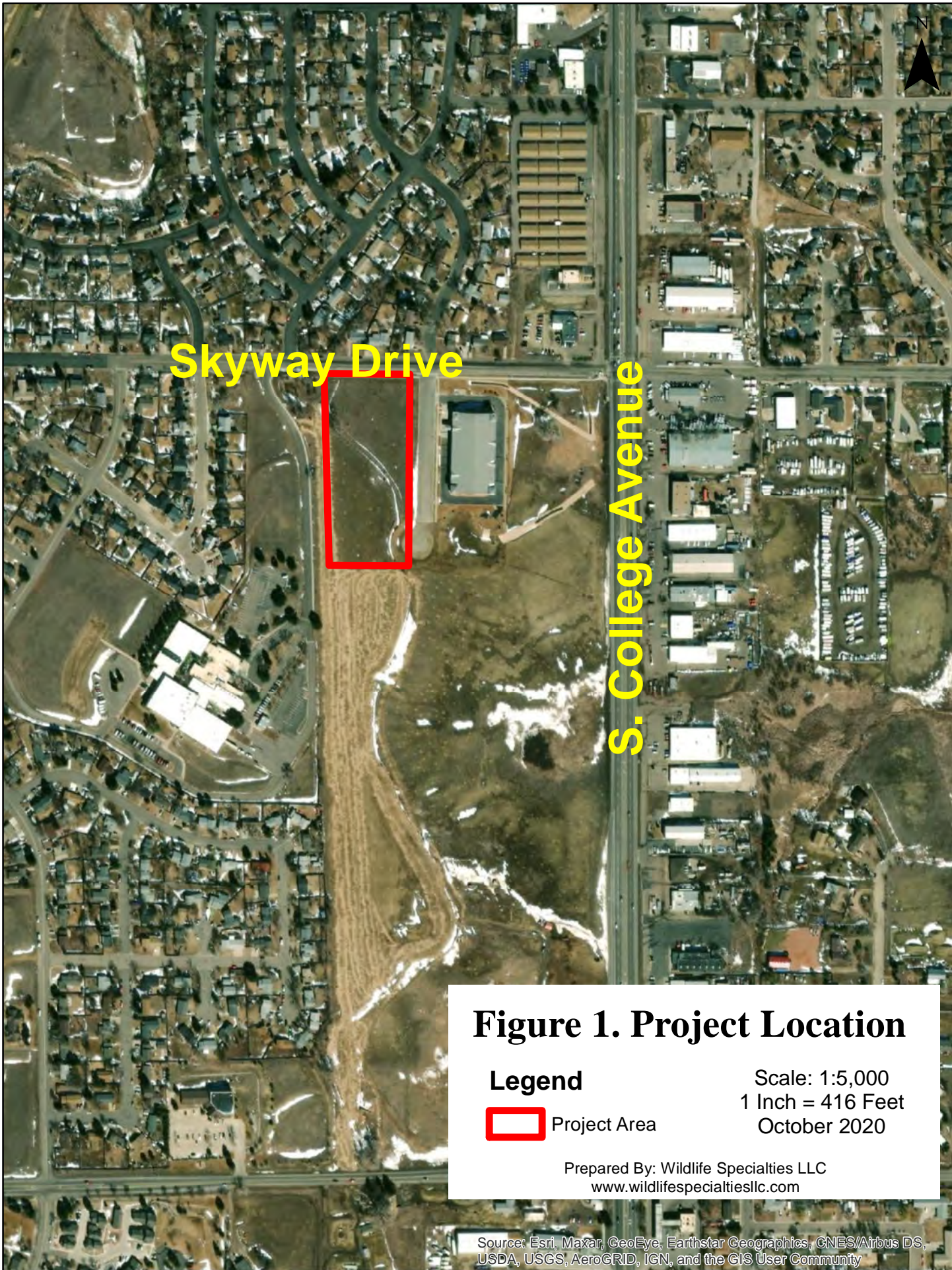
6.0 Conclusions & Recommendations

The parcel contains two special habitats or features as defined by the City Land Use Code. Overall, the parcel is of low-quality wildlife habitat in an increasingly urban setting surrounded by residential and commercial development.

If earth disturbing activities or clearing/grubbing of vegetation occurs during the avian nesting season (March 1 – August 31) surveys for active nests are required. Additionally, if earth moving activities (requiring prairie dog control) occur between March 15 and October 31 a Burrowing Owl survey is required.

7.0 References

- Armstrong, D.M., Fitzgerald, J.P., and C.A. Meaney. 2011. *Mammals of Colorado*. 2nd Ed., Denver Mus. Nat. Hist. and Univ. Press of Colorado. Niwot, CO. 620 pp.
- Hammerson, G.A. 1999. *Amphibians and reptiles in Colorado*. Univ. Press of Colorado and Colo. Div. Wildl. Niwot, CO. 484 pp.
- Colorado Bird Atlas Partnership. 2016. *2nd Colorado Breeding Bird Atlas*. Colorado Breeding Bird Partnership and the Colorado Parks and Wildlife. 727 pp.
- Woodling, J. 1985. *Colorado's little fish: a guide to the minnows and other lesser known fishes in the state of Colorado*. CDOW Denver, CO. 77 pp.



Skyway Drive

S. College Avenue

Figure 1. Project Location

Legend

 Project Area

Scale: 1:5,000
1 Inch = 416 Feet
October 2020

Prepared By: Wildlife Specialties LLC
www.wildlifespecialtiesllc.com

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

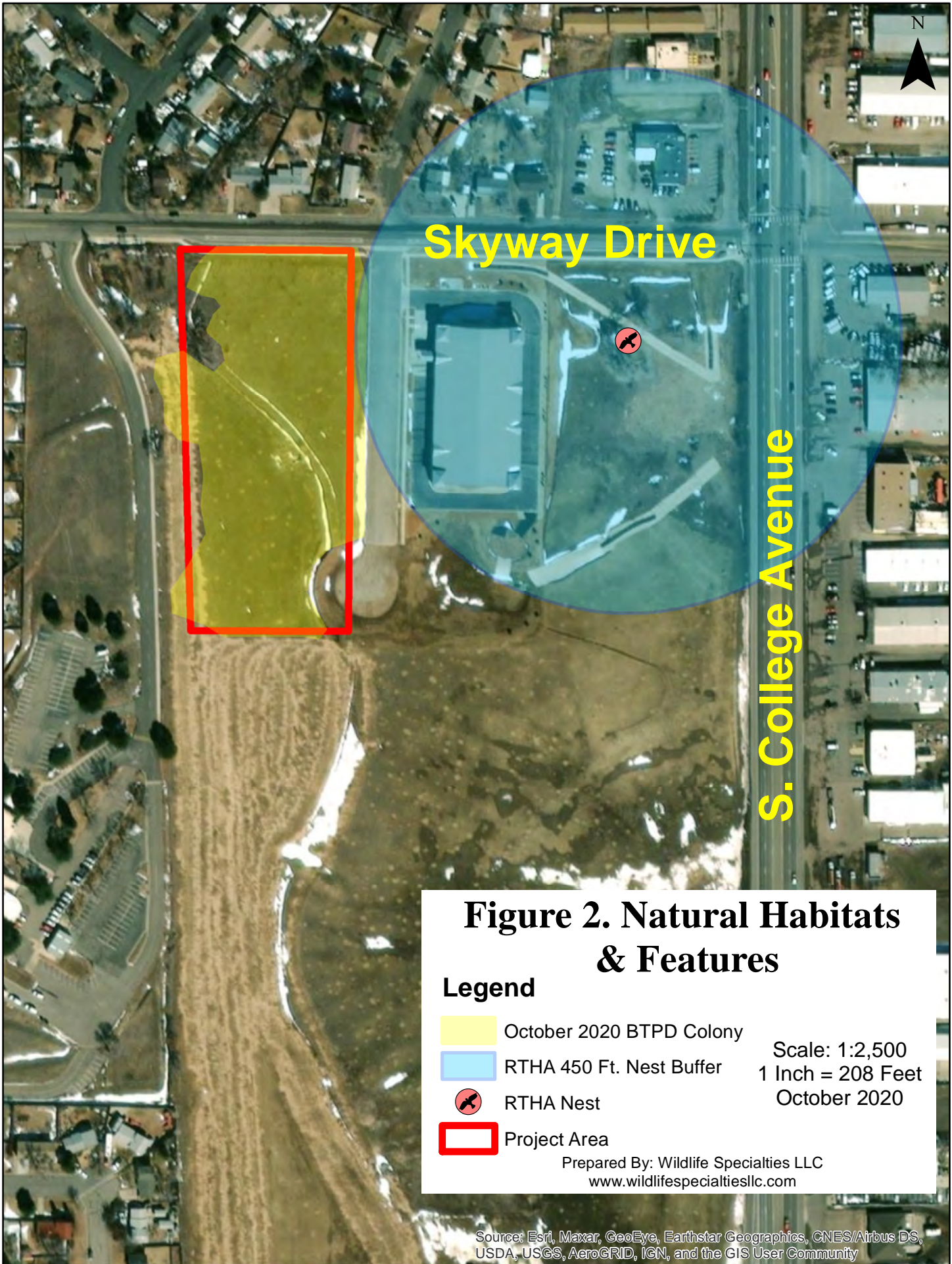


Figure 2. Natural Habitats & Features

Legend

- October 2020 BTPD Colony
- RTHA 450 Ft. Nest Buffer
- ✖ RTHA Nest
- Project Area

Scale: 1:2,500
 1 Inch = 208 Feet
 October 2020

Prepared By: Wildlife Specialties LLC
www.wildlifespecialtiesllc.com

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Photos



Photo 1: Looking south southeast from the northwest corner of the parcel.



Photo 2: Looking south southwest from the northeast corner of the parcel.



Photo 3: The North Loudon Ditch. Note the lack of vegetation within the ditch. The area is used by homeless people and miscellaneous trash etc. was found throughout the area.



Photo 4: These trees and the detention pond are located on the northwestern side of the parcel on private property.

Table 1. Federal Threatened, Endangered and Candidate Plant and Wildlife Species Potentially Occurring near Skyway Drive and Mars Drive, Fort Collins, CO

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
Flowering Plants				
<i>Spiranthes diluvialis</i>	Ute ladies'-tresses Orchid	T	Commonly associated with alluvial banks, floodplains, or oxbows associated with perennial streams	No potential for occurrence.
<i>Platanthera praeclara</i>	Western Prairie Fringed Orchid	T	Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska.	No potential for occurrence.
Fishes				
<i>Oncorhynchus clarki ssp. stomias</i>	Greenback Cutthroat Trout	T	High altitude cold streams.	No potential for occurrence.
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	E	Affected by water depletions in N. & S. Platte and Laramie River Basins.	No potential for occurrence.
Birds				
<i>Sternula antillarum</i>	Least Tern	E	In Colorado, breeds along sandy reservoir shores only along the Arkansas River valley.	No potential for occurrence.
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	Rocky canyons with deciduous trees.	No potential for occurrence.
<i>Charadrius melodus</i>	Piping Plover	E	In Colorado, breeds along sandy reservoir shores only along the Arkansas River valley.	No potential for occurrence.
<i>Grus americana</i>	Whooping Crane	E	Breed in shallow, grassy wetlands interspersed with grasslands or scattered evergreens, may use crop fields	No potential for occurrence.

Table 1. Federal Threatened, Endangered and Candidate Plant and Wildlife Species Potentially Occurring near Skyway Drive and Mars Drive, Fort Collins, CO

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
			for foraging.	
Mammals				
<i>Zapus hudsonious preblei</i>	Preble's Meadow Jumping Mouse	T	Riparian areas with lush vegetation.	No potential for occurrence.
<i>Lynx canadensis</i>	Canada Lynx	T	High altitude spruce-fir forests.	No potential for occurrence.
Insects				
<i>Capnia arapahoe</i>	Arapahoe Snowfly	C	Cold, clean, well-oxygenated streams and rivers	No potential for occurrence.
E = Endangered; T = Threatened; C = Candidate for Federal listing.				

**Table 2. Migratory Birds of Conservation Concern
Skyway Drive and Mars Drive, Fort Collins, CO**

<u>Species</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
Bald Eagle <i>Haliaeetus leucocephalus</i>	Areas along rivers or lakes with large trees for nesting and roosting.	None
Burrowing Owl <i>Athene cunicularia</i>	Open areas with suitable small mammal burrows.	Suitable habitat present.
Cassin's Sparrow <i>Aimophila cassinii</i>	Heavily grazed grasslands of eastern Colorado where cholla cactus, yucca, rabbitbrush, or sand sage provides shrubby overstory (Wickersham 2016).	None
Golden Eagle <i>Aquila chrysaetos</i>	Open and semi-open country featuring native vegetation. Avoid developed areas and uninterrupted stretches of forest. Found primarily in mountains up to 12,000 feet, canyonlands, rimrock terrain, and riverside cliffs and bluffs. Nest on cliffs and steep escarpments in grassland, chaparral, shrubland, forest, and other vegetated areas.	None
Lark Bunting <i>Calamospiza melanocorys</i>	Heavily grazed grasslands of eastern Colorado where cholla cactus, yucca, rabbitbrush, or sand sage provides shrubby overstory (Wickersham 2016).	None
Lesser Yellowlegs <i>Tringa flavipes</i>	Breeds only in Alaska through Quebec.	None
Long-billed Curlew <i>Numenius americanus</i>	Expansive blocks of native shortgrass prairie.	None
Semipalmated Sandpiper <i>Calidris pusilla</i>	Breeds in sub-arctic tundra and overwinters along the coasts of South America. Migrates east of parcel.	None
Whimbrel <i>Numenius phaeopus</i>	Holarctic breeding distribution; winters along Pacific Ocean into South America	None
Willet <i>Tringa semipalmata</i>	In Colorado breeding is restricted to Jackson County and the San Luis Valley.	None
Willow Flycatcher <i>Empidonax trailii</i>	Riparian thickets in the foothills and montane zones and willow-dominated open valleys and mountain parks – usually distant from trees.	None

Table 3. Colorado Parks and Wildlife Endangered, Threatened, and Species of Special Concern Skyway Drive and College Avenue, Fort Collins, CO

<u>Species</u>	<u>Status*</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
Fish			
Arkansas Darter <i>Etheostoma cragini</i>	ST	Found only in tributaries of the Arkansas River.	None
Brassy Minnow <i>Hybognathus hankinsoni</i>	ST	Found in S. Platte and Republican Rivers.	None
Colorado River Cutthroat Trout <i>Oncorhynchus clarki pleuriticus</i>	SC	Found in the Colorado River Basin.	None
Colorado Roundtail Chub <i>Gila robusta</i>	SC	A large river fish found in western Colorado.	None
Common Shiner <i>Luxilus cornutus</i>	ST	Found in tributary streams of the S. Platte River.	None
Flathead Chub <i>Platygobio gracilus</i>	SC	Found in mainstems of turbid streams and rivers.	None
Iowa Darter <i>Etheostoma exile</i>	SC	Found in some plains streams in northeastern Colorado.	None
Lake Chub <i>Couesius plumbeus</i>	SE	Extirpated in Colorado (Woodling 1985).	None
Mountain Sucker <i>Catostomus playtrhynchus</i>	SC	Found in smaller rivers and streams in northwestern Colorado.	None
Northern Redbelly Dace <i>Phoxinus eos</i>	SE	Upper reach tributaries of the S. Platte and Platte River.	None
Plains Minnow <i>Hybognathus placitus</i>	SE	Prefer main channel areas with some current and sandy bottoms. Found in eastern Colorado.	None
Plains Orangethroat Darter <i>Etheostoma spectabile</i>	SC	Found in small streams of the Republican Basin.	None
Rio Grande Chub <i>Gila pandora</i>	SC	Restricted to the Rio Grande Basin in Colorado.	None
Rio Grande Cutthroat Trout <i>Oncorhynchus clarki virginalis</i>	SC	Restricted to the Rio Grande Basin in Colorado.	None
Rio Grande Sucker <i>Catostomus plebeius</i>	SE	Restricted to the Rio Grande Basin in southern Colorado.	None
Southern Redbelly Dace <i>Phoxinus erythrogaster</i>	SE	One population known in Arkansas River tributary.	None
Stonecat <i>Noturus flavus</i>	SC	Found in fast water riffles and runs of streams.	None
Suckermouth Minnow <i>Phenacobius mirabilis</i>	SE	Found in riffle areas of warm prairie streams of all sizes.	None
Birds			
American Peregrine Falcon <i>Falco peregrinus anatum</i>	SC	Nests on ledges of high cliffs.	None

Table 3. Colorado Parks and Wildlife Endangered, Threatened, and Species of Special Concern Skyway Drive and College Avenue, Fort Collins, CO

Species	Status*	Habitat Requirements	Potential for Occurrence
Bald Eagle <i>Haliaeetus leucocephalus</i>	SC	Large, mature cottonwoods or pines near large water bodies.	None
Burrowing Owl <i>Athene cunicularia</i>	ST	Nest in rodent burrows in grasslands, shrublands, deserts, and grassy urban areas (golf courses).	Suitable habitat present.
Columbian Sharp-Tailed Grouse <i>Tympanuchus phasianellus columbianus</i>	SC	Sagebrush shrublands.	None
Ferruginous Hawk <i>Buteo regalis</i>	SC	Vast expanses of ungrazed or lightly grazed grassland and shrubland and shortgrass prairie.	None
Greater Sage-Grouse <i>Centrocercus urophasianus</i>	SC	Sagebrush shrublands in northwestern Colorado.	None
Greater Sandhill Crane <i>Grus canadensis tabida</i>	SC	Breed in wetland habitats, particularly flooded fields and beaver ponds.	None
Gunnison Sage-Grouse <i>Centrocercus minimus</i>	SC	Sage communities in the Gunnison Basin.	None
Lesser Prairie-Chicken <i>Tympanuchus pallidicinctus</i>	ST	Optimal habitat is midgrass to tallgrass prairie for nests and winter cover.	None
Long-Billed Curlew <i>Numenius americanus</i>	SC	Shortgrass prairie.	None
Mountain Plover <i>Charadrius montanus</i>	SC	Grazed shortgrass prairie and fallow fields.	None
Plains Sharp-Tailed Grouse <i>Tympanuchus phasianellus jamesii</i>	SE	Rolling hills with scrub oak thickets and grassy glades.	None
Western Snowy Plover <i>Charadrius alexandrinus</i>	SC	Sandy open beaches, dry salt flats, dredge spoils, and river bars.	None
Western Yellow-billed Cuckoo <i>Coccyzus americanus</i>	SC	Found along major river drainages.	None
Mammals			
Black-tailed Prairie Dog <i>Cynomys ludovicianus</i>	SC	Open prairie grasslands, disturbed areas, fallow and mowed agriculture fields.	Present
Botta's Pocket Gopher <i>Thomomys bottae rubidus</i>	SC	Occur in southern Colorado.	None
Kit Fox <i>Vulpes macrotis</i>	SE	Deserts of the Southwest.	None
Northern Pocket Gopher <i>Thomomys talpoides macrotis</i>	SC	Many habitat types including agricultural lands, pasture lands,	None

Table 3. Colorado Parks and Wildlife Endangered, Threatened, and Species of Special Concern Skyway Drive and College Avenue, Fort Collins, CO

<u>Species</u>	<u>Status*</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
		semidesert shrublands, and grasslands.	
River Otter <i>Lontra canadensis</i>	ST	Large waterways throughout Colorado.	None
Swift Fox <i>Vulpes velox</i>	SC	Short and mid-grass prairies of the Great Plains.	None
Townsend's Big-eared Bat <i>Corynorhinus townsendii</i>	SC	Occupies semidesert shrublands, pinon-juniper woodlands, and open montane forests.	None
Amphibians/Reptiles			
Boreal Toad <i>Bufo boreas boreas</i>	SE	High altitude wetlands, ponds, etc.	None
Couch's Spadefoot <i>Scaphiopus couchii</i>	SC	Eastern Colorado plains.	None
Great Plains Narrowmouth Toad <i>Gastrophryne olivacea</i>	SC	Extreme southeastern Colorado.	None
Northern Cricket Frog <i>Acris crepitans</i>	SC	Found in Yuma, Weld and Morgan Counties at elevations between 3,500–3,600 feet.	None
Northern Leopard Frog <i>Rana pipiens</i>	SC	Wet meadows and the banks of and shallows of marshes, ponds, lakes, streams, irrigation ditches.	None
Plains Leopard Frog <i>Rana blairi</i>	SC	Eastern Colorado and southeastern Colorado.	None
Triploid Checkered Whiptail <i>Cnemidophorus neotesselatus</i>	SC	Foothills of the Rocky Mountains in Fremont County eastward to Pueblo and Stone City in Pueblo County.	None
Midget Faded Rattlesnake <i>Crotalus viridis concolor</i>	SC	Desert lands in northwestern Colorado.	None
Longnose Leopard Lizard <i>Gambelia wislizenii</i>	SC	Occurs in west-central Colorado and extreme southwestern Colorado.	None
Yellow Mud Turtle <i>Kinosternon flavescens</i>	SC	Occurs in eastern Colorado.	None
Common King Snake <i>Lampropeltis getula</i>	SC	Occurs in southwestern and southeastern Colorado.	None
Texas Blind Snake <i>Leptotyphlops dulcis</i>	SC	Occurs in extreme southeastern Colorado.	None
Texas Horned Lizard <i>Phrynosoma cornutum</i>	SC	Occurs in southeastern Colorado.	None
Roundtail Horned Lizard <i>Phrynosoma modestum</i>	SC	Occurs in extreme northwestern Otero County.	None
Massasauga	SC	Occurs in shortgrass prairie	None

Table 3. Colorado Parks and Wildlife Endangered, Threatened, and Species of Special Concern Skyway Drive and College Avenue, Fort Collins, CO

<u>Species</u>	<u>Status*</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
<i>Sistrurus catenatus</i>		habitats in southeastern Colorado.	
Common Garter Snake <i>Thamnophis sirtalis</i>	SC	Restricted to aquatic, wetland and riparian habitats at elevations below 6,000 feet: seldom found at isolated ponds.	None
*SE = State Endangered. ST = State Threatened. SC = State Special Concern (not a statutory category)			

**Table 4. City of Fort Collins List of Sensitive Wildlife Species
Skyway Drive and Mars Drive, Fort Collins, CO**

<u>Species</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
Fish		
There is no aquatic habitat within the parcel, thus there are no fish present.		
Birds		
American Bittern <i>Botaurus lentiginosus</i>	Ponds, lake, etc. with tall emergent vegetation in which to nest.	None
American Peregrine Falcon <i>Falco peregrinus anatum</i>	Nests on ledges of high cliffs.	None
American White Pelican <i>Pelecanus erythrorhynchos</i>	Nest on islands.	None
Bald Eagle <i>Haliaeetus leucocephalus</i>	Large, mature cottonwoods or pines near large water bodies.	None
Barrow's Goldeneye <i>Bucephala islandica</i>	Nests in a suitable nest cavity near water.	None
Black Tern <i>Chlidonias niger</i>	Prefer marsh complexes of at least 50 acres with open water and fields for feeding.	None
Black-necked Stilt <i>Himantopus mexicanus</i>	Black-necked stilts are wetland obligates.	None
Bobolink <i>Dolichonyx oryzivorus</i>	Grassland obligates associated with native mixed-grass and tallgrass prairie.	None
Brewer's Sparrow <i>Spizella breweri</i>	Sagebrush shrublands.	None
Burrowing Owl <i>Athene cunicularia</i>	Nest in rodent burrows in grasslands, shrublands, deserts, and grassy urban areas (golf courses).	None
Cassin's Finch <i>Carpodacus cassinii</i>	Breeds in Colorado in high country areas but also in Pinyon Juniper woodlands.	None
Cassin's Sparrow <i>Aimophila cassinii</i>	Heavily grazed grasslands of eastern Colorado where cholla cactus, yucca, rabbitbrush, or sand sage provides shrubby overstory (Wickersham 2016).	None
Chestnut-collared Longspur <i>Calcarius ornatus</i>	Tallgrass prairies of the Great Plains; found only in northern Colorado.	None

**Table 4. City of Fort Collins List of Sensitive Wildlife Species
Skyway Drive and Mars Drive, Fort Collins, CO**

<u>Species</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
Ferruginous Hawk <i>Buteo regalis</i>	Vast expanses of ungrazed or lightly grazed grassland and shrubland and shortgrass prairie.	None
Flammulated Owl <i>Otus flammeolus</i>	Depend on cavities for nesting, open forests for catching insects, and brush or dense foliage for roosting at altitudes between 6,000 – 10,000 ft.	None
Forster’s Tern <i>Sterna forsteri</i>	Most often associated with emergent marsh habitat.	None
Golden Eagle <i>Aquila chrysaetos</i>	Golden Eagles live in open and semi-open country featuring native vegetation across most of the Northern Hemisphere. They avoid developed areas and uninterrupted stretches of forest. They are found primarily in mountains up to 12,000 feet, canyonlands, rimrock terrain, and riverside cliffs and bluffs. Golden Eagles nest on cliffs and steep escarpments in grassland, chapparal, shrubland, forest, and other vegetated areas.	None
Grasshopper Sparrow <i>Ammodramus savannarum</i>	Open grasslands and prairies with patchy bare ground.	None
Greater Sandhill Crane <i>Grus canadensis tabida</i>	Breed in wetland habitats, particularly flooded fields and beaver ponds.	None
Lark Bunting <i>Calamospiza melanocorys</i>	Grasslands and agricultural areas, mostly associated with the eastern plains.	None
Lazuli Bunting <i>Passerina amoena</i>	Nest in shrubby habitats including hillsides, riparian areas, woodlands and forests.	None
Least Tern (interior population)	Rivers with broad exposed sand bars.	None

**Table 4. City of Fort Collins List of Sensitive Wildlife Species
Skyway Drive and Mars Drive, Fort Collins, CO**

<u>Species</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
<i>Sterna antillarum</i>		
Lewis's Woodpecker <i>Melanerpes lewis</i>	Open pine forests, burnt over area that provide snags and stumps, riparian areas and pinyon/juniper woodlands.	None
Loggerhead Shrike <i>Lanius ludovicianus</i>	Shortgrass prairie.	None
Long-Billed Curlew <i>Numenius americanus</i>	Shortgrass prairie.	None
Mccown's Longspur <i>Calcarius mccownii</i>	Endemic to the shortgrass prairie ecosystem; need heavily grazed cattle pastures with low density vegetation (Wickersham 2016).	None
Mountain Plover <i>Charadrius montanus</i>	Breeds on open plains at moderate elevations. Winters in short-grass plains and fields, plowed fields, and sandy deserts.	None
Northern Bobwhite <i>Colinus virginianus</i>	Often found in riparian habitats.	None
Northern Goshawk <i>Accipiter gentilis</i>	Predominantly uses ponderosa pine, but will also use Douglas fir, various pines and aspens.	None
Northern Harrier <i>Circus cyaneus</i>	Spring & fall migrant in western valleys mountain parks, and eastern plains in CO inhabiting grasslands, agricultural areas, marshes & tundra in fall; 3,500-13,000 ft.	None
Northern Pygmy Owl <i>Glaucidium gnoma</i>	Inhabit conifer forests and deciduous woodlands in mountain regions.	None
Olive-sided Flycatcher <i>Contopus cooperi</i>	Boreal forests between 7,000 – 11,000 ft.	None
Ovenbird <i>Seiurus aurocapilla</i>	In Colorado are found in foothills ponderosa pine communities.	None
Pinyon Jay	Pinyon woodlands.	None

**Table 4. City of Fort Collins List of Sensitive Wildlife Species
Skyway Drive and Mars Drive, Fort Collins, CO**

<u>Species</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
<i>Gymnorhinus cyanocephalus</i>		
Piping Plover <i>Charadrius melodus</i>	Only breeds in southeastern Colorado at large reservoirs.	None
Plains Sharp-Tailed Grouse <i>Tympanuchus phasianellus jamesii</i>	Rolling hills with scrub oak thickets and grassy glades.	None
Prairie Falcon <i>Falco mexicanus</i>	Grasslands, shrub-steppe, deserts, and other open areas of the West up to about 10,000 feet elevation.	None
Rufous Hummingbird <i>Selasphorus rufus</i>	Migrates south down the Rocky Mountains in late summer and early fall after leaving northern breeding grounds.	None
Short-eared Owl <i>Asio flammeus</i>	Open habitats including grasslands, marsh edges, shrub-steppes, and agricultural lands.	None
Snowy Egret <i>Egretta thula</i>	Nest in colonies in trees and shrubs, forage in aquatic habitats.	None
Swainson's Hawk <i>Buteo swainsoni</i>	Associated with croplands, shelterbelts, and other agricultural lands.	Potential nesting habitat present.
Upland Sandpiper <i>Bartramia longicauda</i>	Breed on native prairie, mountain meadows, and blueberry barrens.	None
Veery <i>Catharus fuscescens</i>	Moist deciduous forests with dense shrubby vegetation.	None
Virginia's Warbler <i>Vermivora virginiae</i>	Oak forests, pinyon juniper woodlands, and the brushy cover of foothills and montane streamsides.	None
Western Snowy Plover <i>Charadrius alexandrinus</i>	Sandy open beaches, dry salt flats, dredge spoils, and river bars.	None
White-faced Ibis <i>Plegadis chihi</i>	Wetlands.	None
Willet <i>Tringa semipalmata</i>	In Colorado breeding is restricted to Jackson County and the San Luis Valley.	None

**Table 4. City of Fort Collins List of Sensitive Wildlife Species
Skyway Drive and Mars Drive, Fort Collins, CO**

<u>Species</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
Willow Flycatcher <i>Empidonax trailii</i>	Riparian thickets in the foothills and montane zones and willow-dominated open valleys and mountain parks – usually distant from trees.	None
Wilson’s Phalarope <i>Phalaropus tricolor</i>	Emergent Wetlands.	None
Mammals		
Abert’s Squirrel <i>Sciurus aberti</i>	Ponderosa pine forests.	None
Bighorn Sheep <i>Ovis canadensis canadensis</i>	Rocky areas with cliffs.	None
Bison <i>Bison bison</i>	Vast expanses of unbroken prairie.	None
Black-footed Ferret <i>Mustela nigripes</i>	Prairie dog colonies at least 50 acres in size.	None
Black-tailed Prairie Dog <i>Cynomys ludovicianus</i>	Open prairie grasslands, disturbed areas, fallow and mowed agriculture fields.	Present.
Dwarf Shrew <i>Sorex nanus</i>	In Colorado found in the Southern Rocky Mountains at elevations above 5,500 ft.	None
Fringed Myotis <i>Myotis thysanodes</i>	Coniferous woodlands and shrublands below 7,500 ft. rocky outcroppings in mid-elevation ponderosa pine, pinyon/juniper, oak, & mixed conifer woodlands, grasslands, deserts, & shrublands.	None
Hoary Bat <i>Lasiurus cinereus</i>	Generally a solitary species. In Colorado, the species is frequently detected in ponderosa pine forests where large deciduous trees are lacking. Can occur in any appropriate treed habitat.	None
Northern Pocket Gopher <i>Thomomys talpoides macrotis</i>	Many habitat types including agricultural lands, pasture lands, semidesert shrublands, and grasslands.	None. No mounds seen within parcel.
Olive-backed Pocket Mouse <i>Perognathus fasciatus</i>	In Colorado restricted to grasslands along the western	None

**Table 4. City of Fort Collins List of Sensitive Wildlife Species
Skyway Drive and Mars Drive, Fort Collins, CO**

<u>Species</u>	<u>Habitat Requirements</u>	<u>Potential for Occurrence</u>
	margin of the plains and to shrub-grasslands of the northwestern part of the state.	
Preble’s Meadow Jumping Mouse <i>Zapus hudsonius prebleii</i>	Riparian habitats with appropriate shrub component and available uplands for foraging.	None
River Otter <i>Lontra canadensis</i>	Large waterways throughout Colorado.	None
Sagebrush Vole <i>Lemmiscus curtatus</i>	Found in northwestern Colorado in sagebrush dominated habitats.	None
Swift Fox <i>Vulpes velox</i>	Short and mid-grass prairies of the Great Plains.	None
Townsend’s Big-eared Bat <i>Corynorhinus townsendii</i>	Occupies semidesert shrublands, pinon-juniper woodlands, and open montane forests.	None
Amphibians/Reptiles		
Northern Leopard Frog <i>Rana pipiens</i>	Wet meadows and the banks of and shallows of marshes, ponds, lakes, streams, irrigation ditches.	None
Common Garter Snake <i>Thamnophis sirtalis</i>	Restricted to aquatic, wetland and riparian habitats at elevations below 6,000 feet: seldom found at isolated ponds.	None
Lined Snake <i>Tropicdoclonion lineatum</i>	Most abundant in southeastern Colorado in damp sites in flat plains grasslands, canyon bottom grasslands, riparian areas, and grassy vacant lots and gullies in cities.	None
Milksnake <i>Lampropeltis triangulum</i>	Found in a wide variety of habitats including shortgrass prairie, sandhills, shrubby hillsides, canyons and arid river valleys.	None
Ornate box turtle <i>Terrapene ornata</i>	Sandhills and shortgrass prairie in eastern Colorado.	None

Appendix A
USFWS IPaC Report for the SW Corner of Skyway Drive and Mars Drive, Fort Collins CO



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Colorado Ecological Services Field Office
Denver Federal Center
P.O. Box 25486
Denver, CO 80225-0486
Phone: (303) 236-4773 Fax: (303) 236-4005
<http://www.fws.gov/coloradoES>
<http://www.fws.gov/platteriver>

In Reply Refer To:

October 23, 2020

Consultation Code: 06E24000-2018-SLI-1320

Event Code: 06E24000-2021-E-00186

Project Name: Skyway Townhomes

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
 - Migratory Birds
 - Wetlands
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Colorado Ecological Services Field Office

Denver Federal Center
P.O. Box 25486
Denver, CO 80225-0486
(303) 236-4773

Project Summary

Consultation Code: 06E24000-2018-SLI-1320

Event Code: 06E24000-2021-E-00186

Project Name: Skyway Townhomes

Project Type: DEVELOPMENT

Project Description: residential development

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/40.50115032914786N105.0804557109165W>



Counties: Larimer, CO

Endangered Species Act Species

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 5 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Canada Lynx <i>Lynx canadensis</i> Population: Wherever Found in Contiguous U.S. There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3652	Threatened
Preble's Meadow Jumping Mouse <i>Zapus hudsonius preblei</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4090	Threatened

Birds

NAME	STATUS
<p>Least Tern <i>Sterna antillarum</i></p> <p>Population: interior pop. No critical habitat has been designated for this species. This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska. <p>Species profile: https://ecos.fws.gov/ecp/species/8505</p>	Endangered
<p>Mexican Spotted Owl <i>Strix occidentalis lucida</i></p> <p>There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8196</p>	Threatened
<p>Piping Plover <i>Charadrius melodus</i></p> <p>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is final critical habitat for this species. Your location is outside the critical habitat. This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska. <p>Species profile: https://ecos.fws.gov/ecp/species/6039</p>	Threatened
<p>Whooping Crane <i>Grus americana</i></p> <p>Population: Wherever found, except where listed as an experimental population There is final critical habitat for this species. Your location is outside the critical habitat. This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska. <p>Species profile: https://ecos.fws.gov/ecp/species/758</p>	Endangered

Fishes

NAME	STATUS
<p>Greenback Cutthroat Trout <i>Oncorhynchus clarkii stomias</i></p> <p>No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2775</p>	Threatened
<p>Pallid Sturgeon <i>Scaphirhynchus albus</i></p> <p>No critical habitat has been designated for this species. This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska. <p>Species profile: https://ecos.fws.gov/ecp/species/7162</p>	Endangered

Flowering Plants

NAME	STATUS
<p>Ute Ladies'-tresses <i>Spiranthes diluvialis</i></p> <p>No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2159</p>	Threatened
<p>Western Prairie Fringed Orchid <i>Platanthera praeclara</i></p> <p>No critical habitat has been designated for this species. This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none">Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska. <p>Species profile: https://ecos.fws.gov/ecp/species/1669</p>	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

-
1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<p>Bald Eagle <i>Haliaeetus leucocephalus</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p>https://ecos.fws.gov/ecp/species/1626</p>	Breeds Oct 15 to Jul 31
<p>Burrowing Owl <i>Athene cunicularia</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p>https://ecos.fws.gov/ecp/species/9737</p>	Breeds Mar 15 to Aug 31

NAME	BREEDING SEASON
<p>Cassin's Sparrow <i>Aimophila cassinii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9512</p>	Breeds Aug 1 to Oct 10
<p>Golden Eagle <i>Aquila chrysaetos</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/1680</p>	Breeds Jan 1 to Aug 31
<p>Lark Bunting <i>Calamospiza melanocorys</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	Breeds May 10 to Aug 15
<p>Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679</p>	Breeds elsewhere
<p>Long-billed Curlew <i>Numenius americanus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/5511</p>	Breeds Apr 1 to Jul 31
<p>Semipalmated Sandpiper <i>Calidris pusilla</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds elsewhere
<p>Whimbrel <i>Numenius phaeopus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9483</p>	Breeds elsewhere
<p>Willet <i>Tringa semipalmata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Apr 20 to Aug 5
<p>Willow Flycatcher <i>Empidonax traillii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/3482</p>	Breeds May 20 to Aug 31

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the

FAQ “Proper Interpretation and Use of Your Migratory Bird Report” before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your

project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that

overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the “no data” indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ “Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds” at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

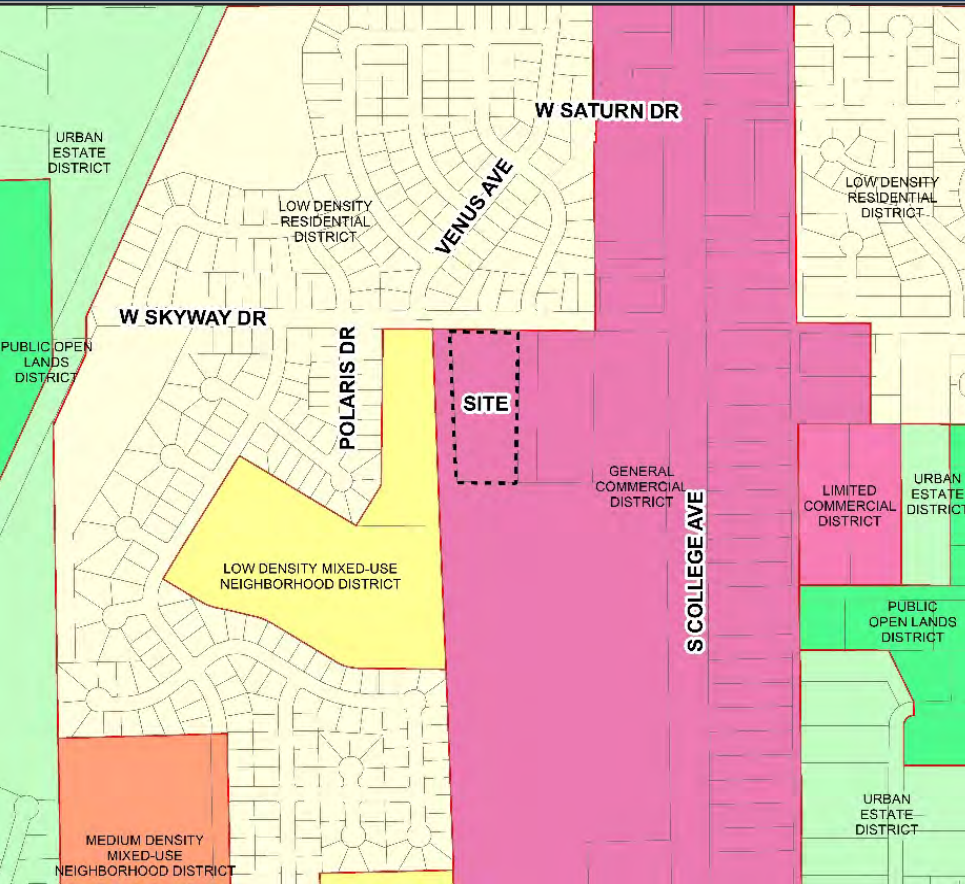
- [R5UBFx](#)
-

**Planning and Zoning Commission
Mars Landing
#PDP190013**

Pete Wray, AICP
Senior City Planner







South College Corridor Plan

- Commercial

Zoning

- General Commercial

Proposal

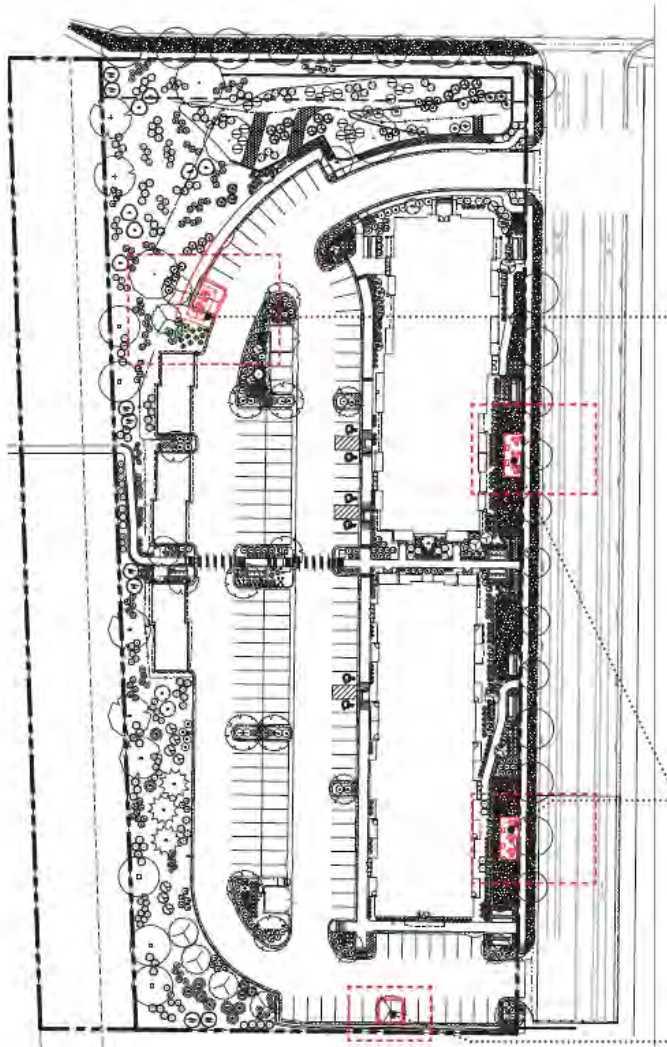
- 2 3-story Multi-family buildings
- 90 units/128 bedrooms

Parking

- 151 vehicle parking spaces
- 128 bike parking spaces

Lot

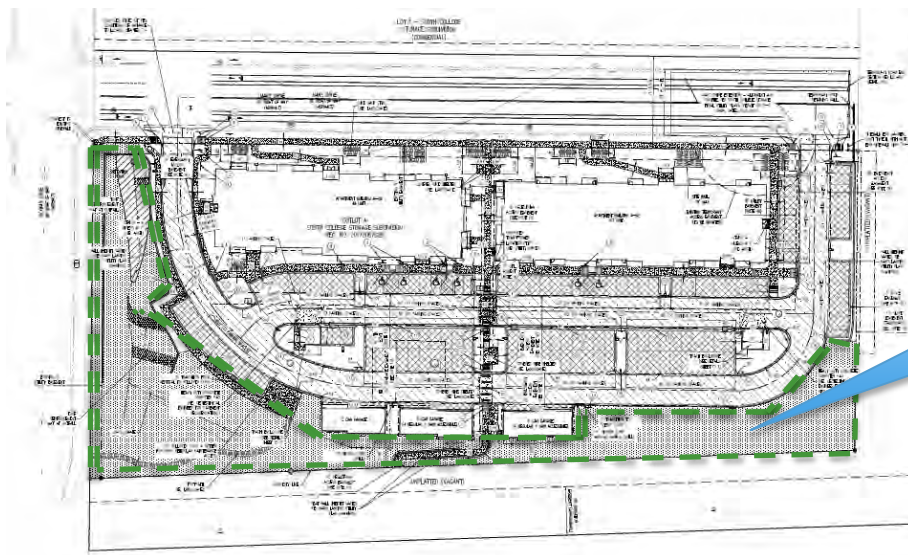
- 3.79-acres



Main Project Considerations:

- Natural Habitat Buffer and Stormwater requirements
- Parking/Pedestrian circulation
- Outdoor gathering space amenities
- Off-site streetscape improvements
- Building and project compatibility

NHBZ Area



Natural Habitat
Buffer Area

- Onsite mitigation results in the creation of .85 ac uplands and .043 ac of wetlands.
- Onsite mitigation will not amount to a 1:1 mitigation value, providing payment to City for one acre of uplands restoration.
- Applicant is trapping and donating existing prairie dogs on site.
- Native seed mix, weed mitigation, and additional native plantings throughout other areas of the site will further enhance the ecological character and habitat value of the site.

Parking

Vehicular Parking:

Number of Bedrooms/Dwelling Unit	Parking Spaces Per Dwelling Unit*
One or less	1.5
Two	1.75
Three	2.0

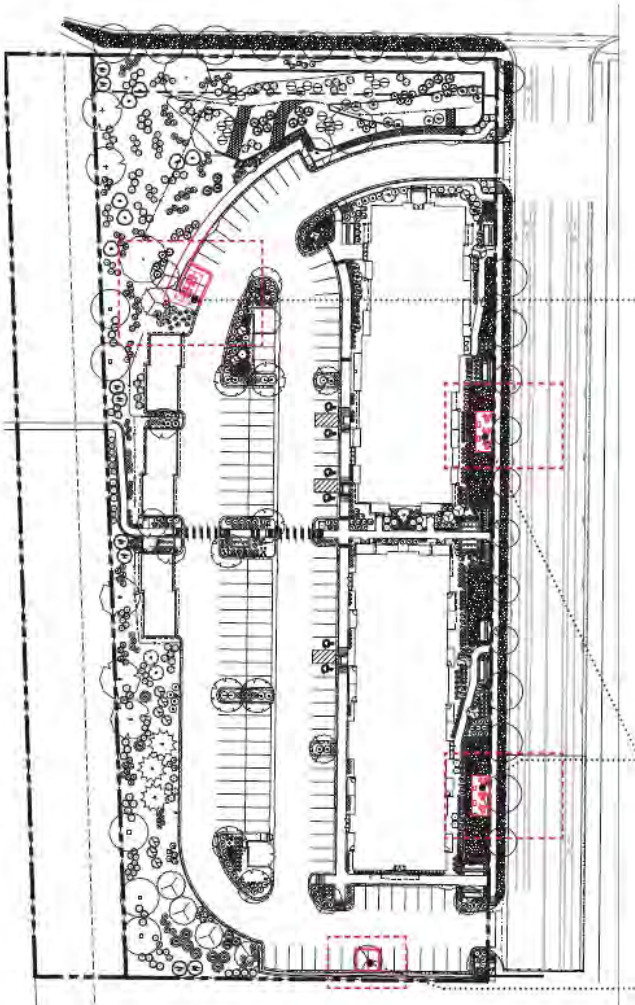
- Project is required to provide 145 parking spaces.
- Plan provides a total of 151 spaces exceeding compliance with the standards of this Section:
 - 130 standard surface parking spaces
 - 8 accessible spaces
 - 13 garage spaces

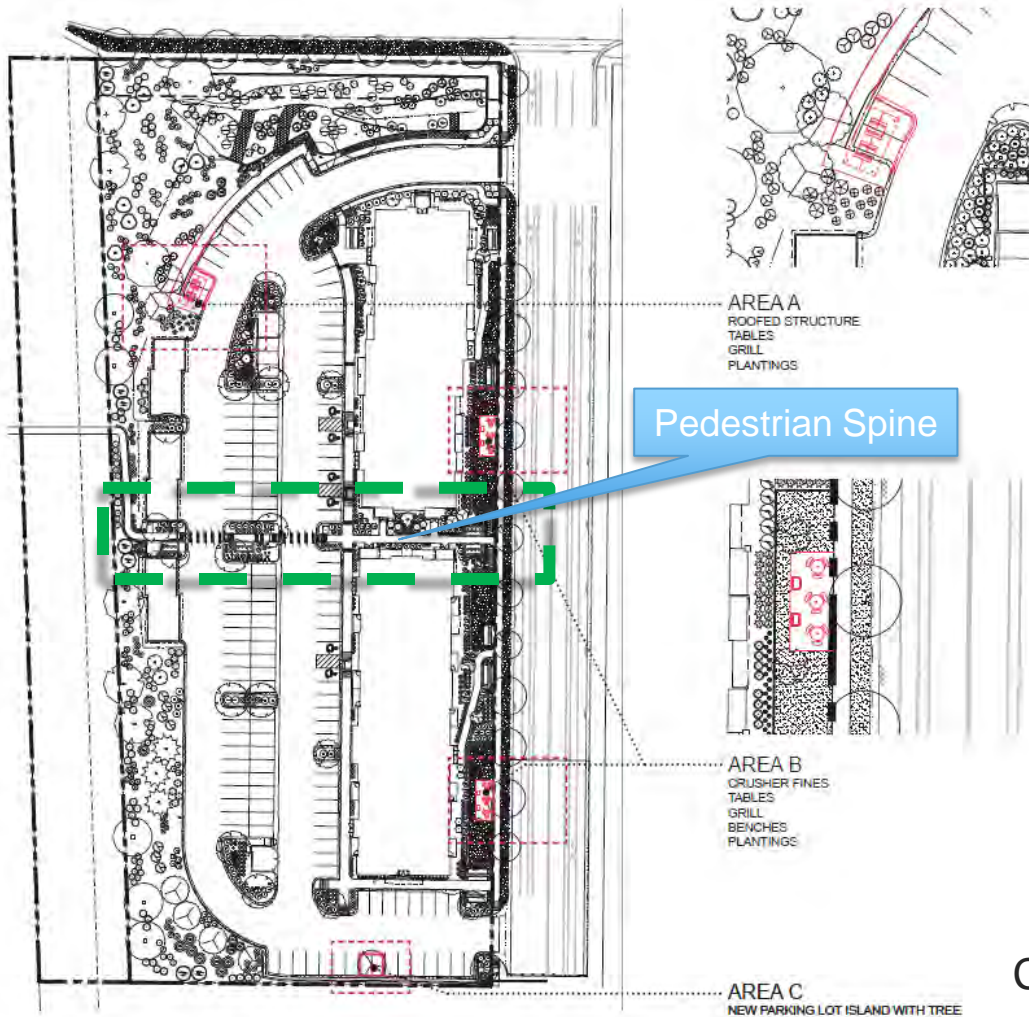
Bicycle Parking:

Bicycle parking requirements for multifamily residential use are 1 space per bedroom.

- Plan includes 90 DU/128 Bedrooms = 128 spaces required
- Plan provides 128 spaces (32 enclosed/96 fixed racks)

Staff recommends a Condition of Approval (1) regarding compliance with 3.2.2 (C) (4) – Bicycle Facilities, to provide 60% covered bicycle spaces (77 spaces), and 40% fixed rack spaces (51 spaces).

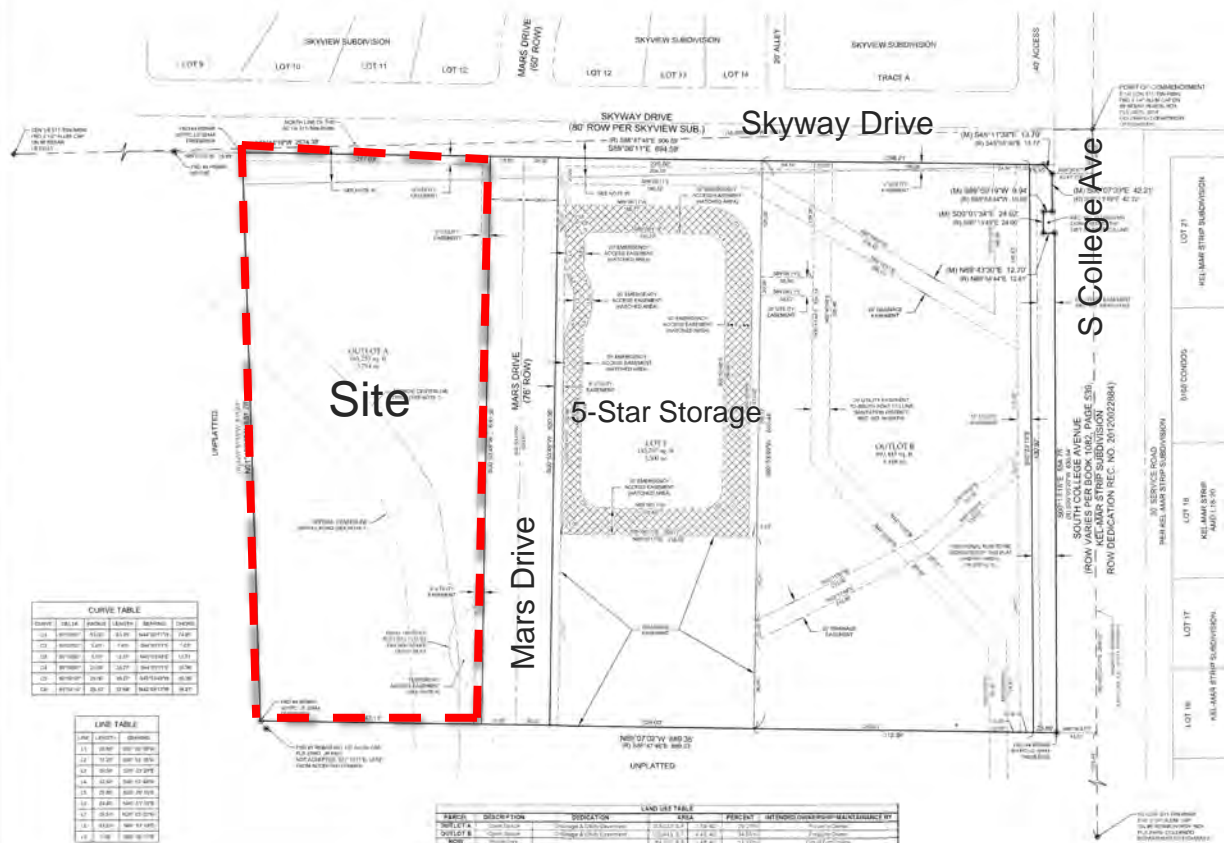




Central feature and gathering spaces

SOUTH COLLEGE STORAGE

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER OF SECTION 11, TOWNSHIP 6 NORTH,
RANGE 69 WEST OF THE 6TH P.M., CITY OF FORT COLLINS, COUNTY OF LARIMER, STATE OF COLORADO



CURVE TABLE

STATION	BEARING	LENGTH	CURVE	CHORD	ARC ANG
1+00	0°00'00"	5.00	90°00'00"	5.00	90°00'00"
1+05	0°00'00"	15.00	90°00'00"	15.00	90°00'00"
1+20	0°00'00"	20.00	90°00'00"	20.00	90°00'00"
1+40	0°00'00"	20.00	90°00'00"	20.00	90°00'00"
1+60	0°00'00"	20.00	90°00'00"	20.00	90°00'00"
1+80	0°00'00"	20.00	90°00'00"	20.00	90°00'00"
2+00	0°00'00"	15.00	90°00'00"	15.00	90°00'00"
2+15	0°00'00"	5.00	90°00'00"	5.00	90°00'00"

LPRI TABLE

LINE	LENGTH	CHORD
1	15.00	15.00
2	20.00	20.00
3	20.00	20.00
4	20.00	20.00
5	20.00	20.00
6	20.00	20.00
7	20.00	20.00
8	15.00	15.00
TOTAL	150.00	150.00

LAND USE TABLE

PARCEL	DESCRIPTION	REGULATION	AREA	PERCENT	INTENDED OWNER/PROJECT/ACTIVITY #1
3003101	Residential	Single-Family Detached	1.21	100%	Private
LOT 1	Residential	Single-Family Detached	1.21	100%	Private
LOT 1	Residential	Single-Family Detached	1.21	100%	Private
TOTAL			1.21	100%	

Skyway Drive

S College Ave

Site

5-Star Storage

Mars Drive

Plat

LEGEND

	EASEMENT
	SUBDIVISION BOUNDARY
	LOT BOUNDARY
	PROPOSED BUILDING
	PROPOSED PARKING



NORTH

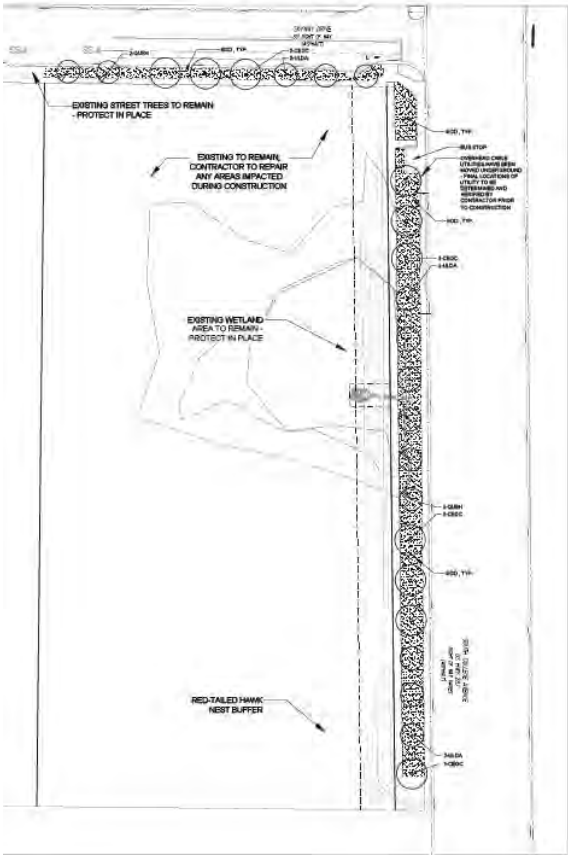
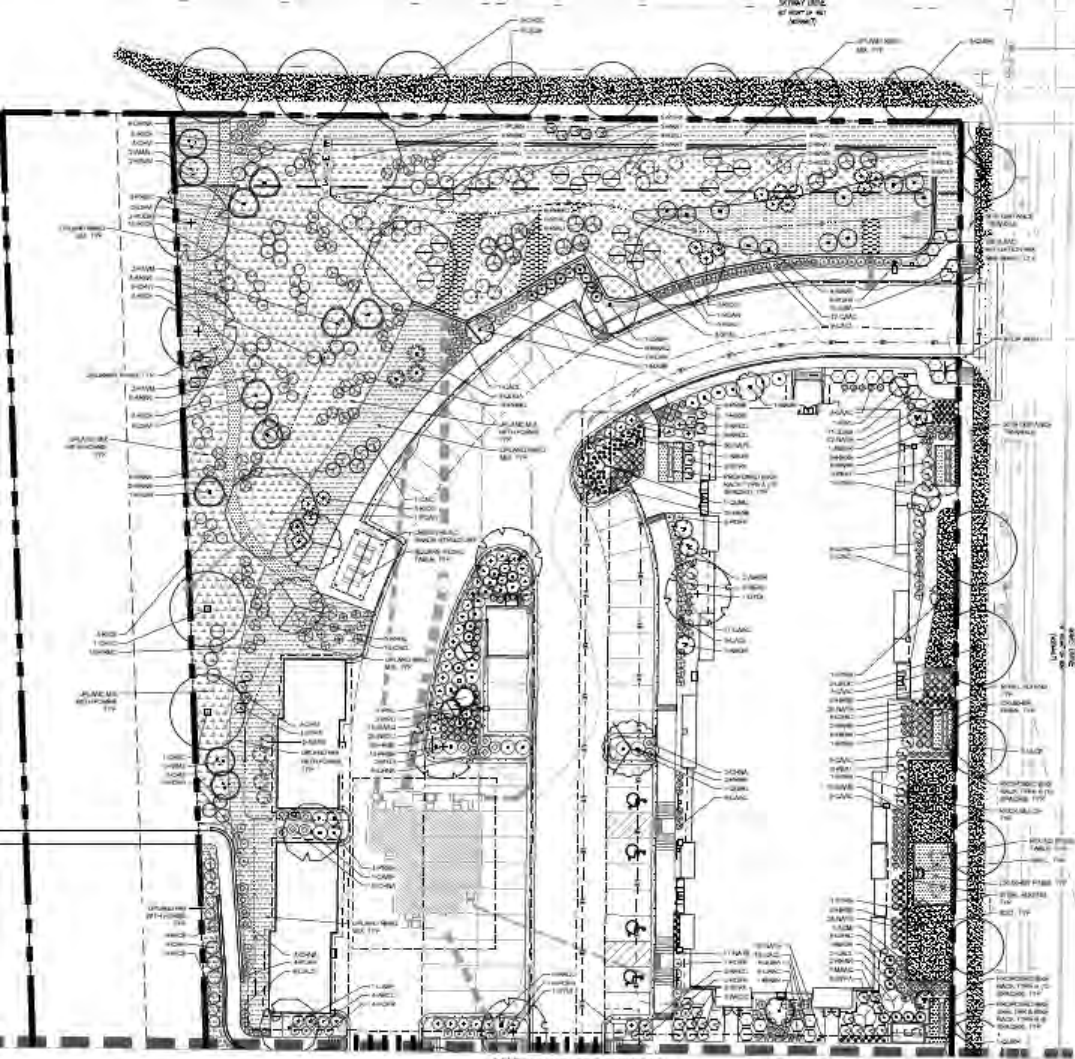


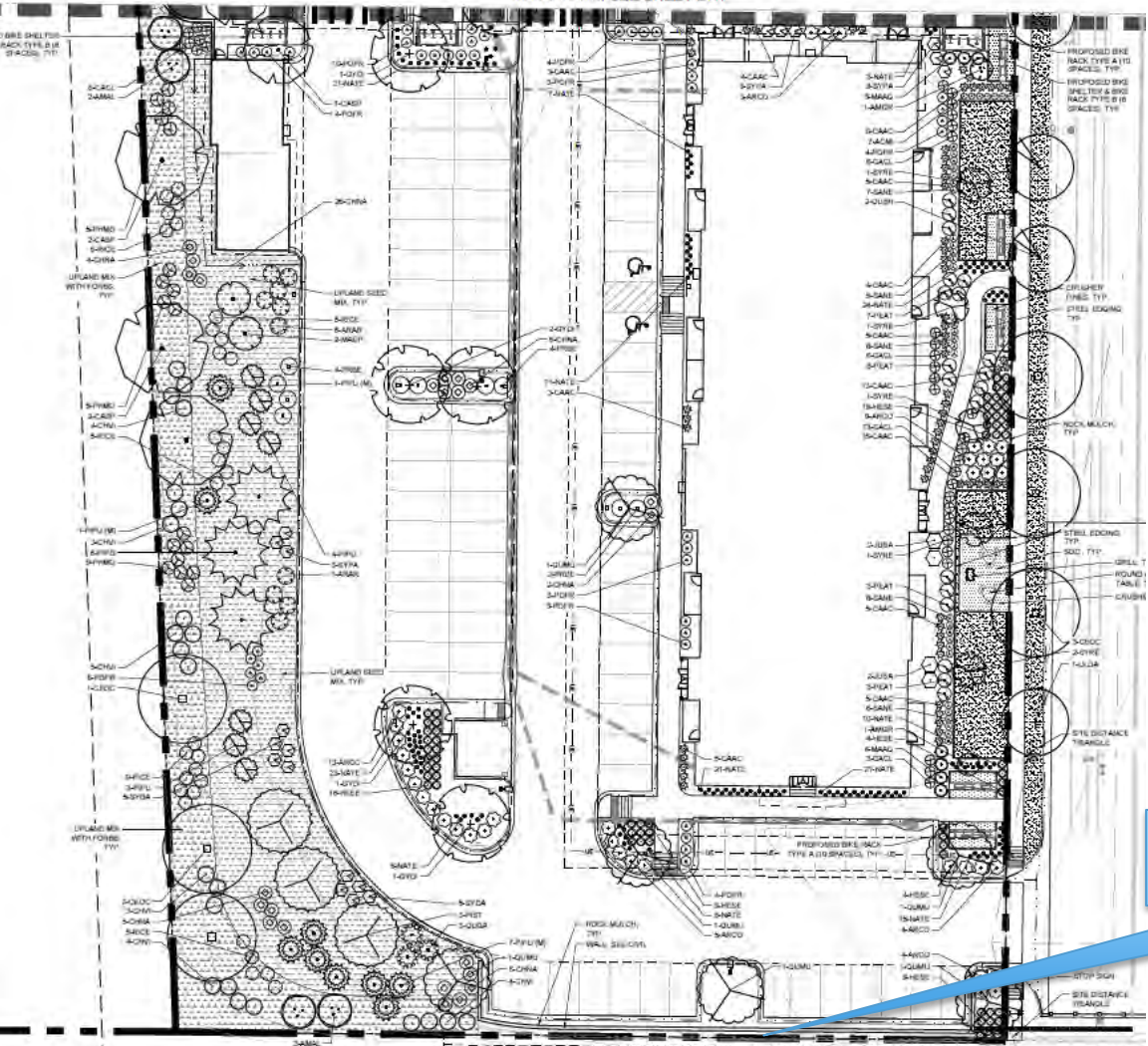
SOUTH COLLEGE STORAGE
CITY OF FORT COLLINS
STATE OF COLORADO

NORTHERN ENGINEERING
NE

Sheet
2
Of 2 Sheets

Landscaping





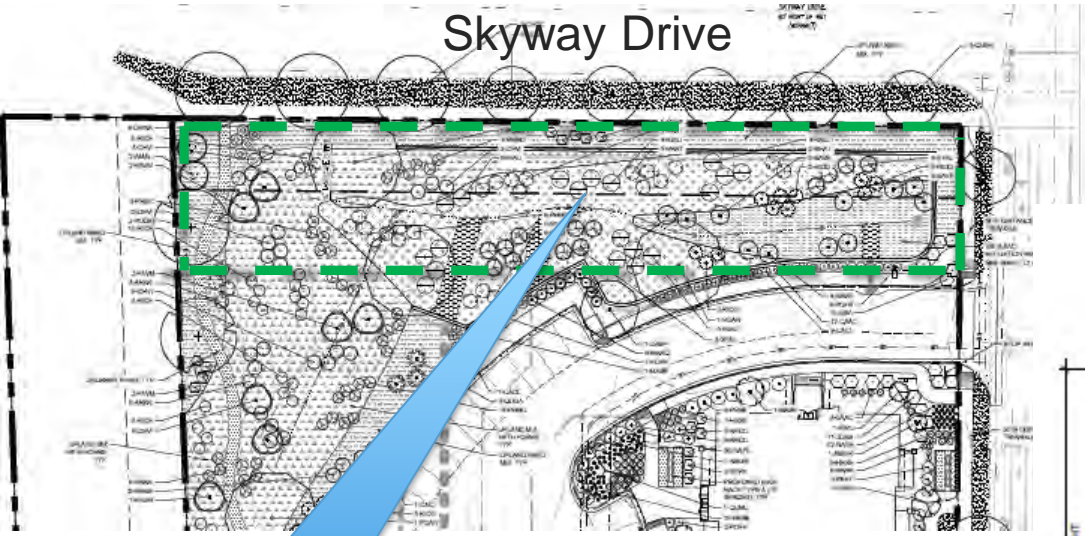
Landscaping



1 SOUTH RETAINING WALL WITH SCREEN FENCE

Screen Fence on Wall

Skyway Drive



Landscape Buffer and Transition

Project Compatibility

Building Stepdown-North Elevation



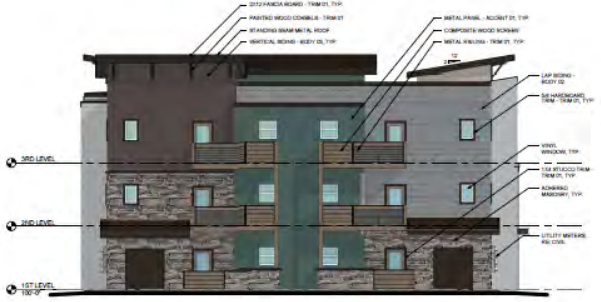
3 WEST ELEVATION
1/8" = 1'-0"

Building – 42 Unit

INTERIOR MATERIALS LEGEND
 UNLESS SPECIFIED, ALL CORNER / METAL
 FINISHES SHALL BE FULLY MOUNTED / CORNER
 FINISHES. ALL WALLS SHALL BE FULLY MOUNTED / CORNER
 FINISHES. ALL FLOORS SHALL BE FULLY MOUNTED / CORNER
 FINISHES. ALL CEILING SHALL BE FULLY MOUNTED / CORNER
 FINISHES.

EXTERIOR FINISH MATERIAL SCHEDULE		
ITEM #	DESCRIPTION	COMMENTS
001	VERTICAL SLATS - BODY	
002	VERTICAL SLATS - BODY	
003	VERTICAL SLATS - BODY	
004	VERTICAL SLATS - BODY	
005	VERTICAL SLATS - BODY	
006	VERTICAL SLATS - BODY	
007	VERTICAL SLATS - BODY	
008	VERTICAL SLATS - BODY	
009	VERTICAL SLATS - BODY	
010	VERTICAL SLATS - BODY	
011	VERTICAL SLATS - BODY	
012	VERTICAL SLATS - BODY	
013	VERTICAL SLATS - BODY	
014	VERTICAL SLATS - BODY	
015	VERTICAL SLATS - BODY	
016	VERTICAL SLATS - BODY	
017	VERTICAL SLATS - BODY	
018	VERTICAL SLATS - BODY	
019	VERTICAL SLATS - BODY	
020	VERTICAL SLATS - BODY	
021	VERTICAL SLATS - BODY	
022	VERTICAL SLATS - BODY	
023	VERTICAL SLATS - BODY	
024	VERTICAL SLATS - BODY	
025	VERTICAL SLATS - BODY	
026	VERTICAL SLATS - BODY	
027	VERTICAL SLATS - BODY	
028	VERTICAL SLATS - BODY	
029	VERTICAL SLATS - BODY	
030	VERTICAL SLATS - BODY	
031	VERTICAL SLATS - BODY	
032	VERTICAL SLATS - BODY	
033	VERTICAL SLATS - BODY	
034	VERTICAL SLATS - BODY	
035	VERTICAL SLATS - BODY	
036	VERTICAL SLATS - BODY	
037	VERTICAL SLATS - BODY	
038	VERTICAL SLATS - BODY	
039	VERTICAL SLATS - BODY	
040	VERTICAL SLATS - BODY	
041	VERTICAL SLATS - BODY	
042	VERTICAL SLATS - BODY	
043	VERTICAL SLATS - BODY	
044	VERTICAL SLATS - BODY	
045	VERTICAL SLATS - BODY	
046	VERTICAL SLATS - BODY	
047	VERTICAL SLATS - BODY	
048	VERTICAL SLATS - BODY	
049	VERTICAL SLATS - BODY	
050	VERTICAL SLATS - BODY	
051	VERTICAL SLATS - BODY	
052	VERTICAL SLATS - BODY	
053	VERTICAL SLATS - BODY	
054	VERTICAL SLATS - BODY	
055	VERTICAL SLATS - BODY	
056	VERTICAL SLATS - BODY	
057	VERTICAL SLATS - BODY	
058	VERTICAL SLATS - BODY	
059	VERTICAL SLATS - BODY	
060	VERTICAL SLATS - BODY	
061	VERTICAL SLATS - BODY	
062	VERTICAL SLATS - BODY	
063	VERTICAL SLATS - BODY	
064	VERTICAL SLATS - BODY	
065	VERTICAL SLATS - BODY	
066	VERTICAL SLATS - BODY	
067	VERTICAL SLATS - BODY	
068	VERTICAL SLATS - BODY	
069	VERTICAL SLATS - BODY	
070	VERTICAL SLATS - BODY	
071	VERTICAL SLATS - BODY	
072	VERTICAL SLATS - BODY	
073	VERTICAL SLATS - BODY	
074	VERTICAL SLATS - BODY	
075	VERTICAL SLATS - BODY	
076	VERTICAL SLATS - BODY	
077	VERTICAL SLATS - BODY	
078	VERTICAL SLATS - BODY	
079	VERTICAL SLATS - BODY	
080	VERTICAL SLATS - BODY	
081	VERTICAL SLATS - BODY	
082	VERTICAL SLATS - BODY	
083	VERTICAL SLATS - BODY	
084	VERTICAL SLATS - BODY	
085	VERTICAL SLATS - BODY	
086	VERTICAL SLATS - BODY	
087	VERTICAL SLATS - BODY	
088	VERTICAL SLATS - BODY	
089	VERTICAL SLATS - BODY	
090	VERTICAL SLATS - BODY	
091	VERTICAL SLATS - BODY	
092	VERTICAL SLATS - BODY	
093	VERTICAL SLATS - BODY	
094	VERTICAL SLATS - BODY	
095	VERTICAL SLATS - BODY	
096	VERTICAL SLATS - BODY	
097	VERTICAL SLATS - BODY	
098	VERTICAL SLATS - BODY	
099	VERTICAL SLATS - BODY	
100	VERTICAL SLATS - BODY	

*ALL MATERIALS TO BE APPROVED BY ARCHITECT AND PROPOSED TO BE
 OF EQUAL OR BETTER QUALITY TO THAT SPECIFIED.



2 NORTH ELEVATION
 1/8" = 1'-0"



3 NORTH - EAST BUILDING PERSPECTIVE



1 EAST ELEVATION
 1/8" = 1'-0"

ALL FINISH MATERIALS SHOWN SHALL BE APPROVED BY THE ARCHITECT. ALL MATERIALS AND FINISHES SHALL BE MATCHED TO THE EXISTING BUILDING. ALL MATERIALS AND FINISHES SHALL BE APPROVED BY THE ARCHITECT.

EXTERIOR FINISH MATERIAL SCHEDULE		
ITEM	DESCRIPTION	QUANTITY
1	WOOD GRABBAR	CONCRETE
2	VERTICAL SIDING BODY (2)	CLAY BRICK
3	VERTICAL SIDING BODY (1)	CLAY BRICK
4	VERTICAL SIDING BODY (1)	CLAY BRICK
5	VERTICAL SIDING BODY (1)	CLAY BRICK
6	VERTICAL SIDING BODY (1)	CLAY BRICK
7	VERTICAL SIDING BODY (1)	CLAY BRICK
8	VERTICAL SIDING BODY (1)	CLAY BRICK
9	VERTICAL SIDING BODY (1)	CLAY BRICK
10	VERTICAL SIDING BODY (1)	CLAY BRICK
11	VERTICAL SIDING BODY (1)	CLAY BRICK
12	VERTICAL SIDING BODY (1)	CLAY BRICK
13	VERTICAL SIDING BODY (1)	CLAY BRICK
14	VERTICAL SIDING BODY (1)	CLAY BRICK
15	VERTICAL SIDING BODY (1)	CLAY BRICK
16	VERTICAL SIDING BODY (1)	CLAY BRICK
17	VERTICAL SIDING BODY (1)	CLAY BRICK
18	VERTICAL SIDING BODY (1)	CLAY BRICK
19	VERTICAL SIDING BODY (1)	CLAY BRICK
20	VERTICAL SIDING BODY (1)	CLAY BRICK
21	VERTICAL SIDING BODY (1)	CLAY BRICK
22	VERTICAL SIDING BODY (1)	CLAY BRICK
23	VERTICAL SIDING BODY (1)	CLAY BRICK
24	VERTICAL SIDING BODY (1)	CLAY BRICK
25	VERTICAL SIDING BODY (1)	CLAY BRICK
26	VERTICAL SIDING BODY (1)	CLAY BRICK
27	VERTICAL SIDING BODY (1)	CLAY BRICK
28	VERTICAL SIDING BODY (1)	CLAY BRICK
29	VERTICAL SIDING BODY (1)	CLAY BRICK
30	VERTICAL SIDING BODY (1)	CLAY BRICK
31	VERTICAL SIDING BODY (1)	CLAY BRICK
32	VERTICAL SIDING BODY (1)	CLAY BRICK
33	VERTICAL SIDING BODY (1)	CLAY BRICK
34	VERTICAL SIDING BODY (1)	CLAY BRICK
35	VERTICAL SIDING BODY (1)	CLAY BRICK
36	VERTICAL SIDING BODY (1)	CLAY BRICK
37	VERTICAL SIDING BODY (1)	CLAY BRICK
38	VERTICAL SIDING BODY (1)	CLAY BRICK
39	VERTICAL SIDING BODY (1)	CLAY BRICK
40	VERTICAL SIDING BODY (1)	CLAY BRICK
41	VERTICAL SIDING BODY (1)	CLAY BRICK
42	VERTICAL SIDING BODY (1)	CLAY BRICK

* ALL MATERIALS AND FINISHES SHOWN ARE PROPOSED BASES OF GENERAL OR APPROXIMATE. SUBJECT TO CITY APPROVAL.



4 SOUTH ELEVATION
1/8" = 1'-0"



3 SOUTH - WEST BUILDING PERSPECTIVE



1 WEST ELEVATION
1/8" = 1'-0"



1 NORTH ELEVATION
1/8" = 1'-0"



2 NORTH - EAST BUILDING PERSPECTIVE



4 EAST ELEVATION
1/8" = 1'-0"



1 SOUTH ELEVATION
1/8" = 1'-0"



2 SOUTH - WEST - BUILDING PERSPECTIVE



3 WEST ELEVATION
1/8" = 1'-0"



EXTERIOR FINISH MATERIAL SCHEDULE		
MATERIAL	DESCRIPTION	FINISH
01	PAINTED METAL CORRUGATED	1/2\"/>

ALL MATERIALS AND COLORS SHOWN ARE APPROXIMATE AND SUBJECT TO CONTRACTOR'S SELECTION AND AVAILABILITY.

1 GARAGE A - REAR ELEVATION
1/4" = 1'-0"



2 GARAGE A - LEFT SIDE ELEVATION
1/4" = 1'-0"



3 GARAGE A - RIGHT SIDE ELEVATION
1/4" = 1'-0"



4 GARAGE A - FRONT ELEVATION
1/4" = 1'-0"

Garage A

EXISTING FINISH MATERIAL SCHEDULE	
ITEM	DESCRIPTION
001	CONCRETE
002	ASBESTOS CEMENT ROOFING
003	EXTERIOR WALL FINISH
004	INTERIOR WALL FINISH
005	FLOOR FINISH
006	CEILING FINISH
007	DOOR FINISH
008	WINDOW FINISH
009	ROOF FINISH
010	FOUNDATION FINISH

*ALL MATERIALS AND COLORS ARE APPROXIMATE AND PHOTOGRAPHICALLY SIMULATED. SUBJECT TO CITY APPROVAL.



1 GARAGE B REAR ELEVATION
1/4" = 1'-0"



2 GARAGE B LEFT SIDE ELEVATION
1/4" = 1'-0"



2 GARAGE B RIGHT SIDE ELEVATION
1/4" = 1'-0"



4 GARAGE B - FRONT ELEVATION
1/4" = 1'-0"

Garage B



EXTERIOR FINISH MATERIAL SCHEDULE		
ITEM NO.	DESCRIPTION	QUANTITY
001	UPPER WALL MATERIAL	100 SQ. FT.
002	LOWER WALL MATERIAL	100 SQ. FT.
003	ROOF FINISH	100 SQ. FT.
004	FOUNDATION	100 SQ. FT.
005	GROUND	100 SQ. FT.
006	UPPER WALL FINISH	100 SQ. FT.
007	LOWER WALL FINISH	100 SQ. FT.
008	ROOF SLOPE	100 SQ. FT.
009	ROOF FINISH	100 SQ. FT.
010	FOUNDATION	100 SQ. FT.
011	GROUND	100 SQ. FT.

1 GARAGE C - REAR ELEVATION
1/4" = 1'-0"



2 GARAGE C - LEFT SIDE ELEVATION
1/4" = 1'-0"



3 GARAGE C - RIGHT SIDE ELEVATION
1/4" = 1'-0"



4 GARAGE C - FRONT ELEVATION
1/4" = 1'-0"

Garage C

Staff recommends a Condition of Approval (2) regarding compliance with 3.2.5 – Trash and Recycling Enclosure Wall Materials, addressed at FDP,

to ensure the enclosures are screened with a more durable material in place of cedar fencing such as textured concrete block, CMU blocks, or all metal fencing. This will include interior curbing or metal strips to buffer dumpster bins from hitting walls.

Staff recommends approval of the Mars Landing project, PDP190013
with two conditions of approval.