



TOWN OF JACKSON PLANNING & BUILDING DEPARTMENT

TRANSMITTAL MEMO

Town of Jackson

- Public Works/Engineering
- Building
- Title Company
- Town Attorney
- Police

Joint Town/County

- Parks and Recreation
- Pathways
- Housing Department

Teton County

- Planning Division

- Engineer
- Surveyor- *Nelson*
- Assessor
- Clerk and Recorder
- Road and Levee

State of Wyoming

- Teton Conservation
- WYDOT
- TC School District #1
- Game and Fish
- DEQ

Federal Agencies

- Army Corp of Engineers

Utility Providers

- Qwest
- Lower Valley Energy
- Bresnan Communications

Special Districts

- START
- Jackson Hole Fire/EMS
- Irrigation Company

Date: April 28, 2020

Item #: P19-242

Planner: Tyler Sinclair

Phone: 733-0440 ext. 1301

Fax: 734-3563

Email: tsinclair@jacksonwy.gov

Owner/Applicant:

Snow King Mountain Resort
c/o Ryan Stanley
PO Box 1846
Jackson, WY 83001

REQUESTS:

The applicant is submitting a request for a Conditional Use Permit for the Gondola located at 100 E. Snow King Ave., legally known as PT NW1/4SW1/4, SEC. 34, TWP. 41, RNG. 116 TRACT B.

For questions, please call Tyler Sinclair at 733-0440, x1301 or email to the address shown below. Thank you.

Applicant's Second Submittal starts with the Snow King letter dated April 2, 2020

Please respond by:

RESPONSE: For Departments not using Trak-it, please send responses via email to:
tstolte@jacksonwy.gov



PLANNING PERMIT APPLICATION
Planning & Building Department

150 E Pearl Ave. | ph: (307) 733-0440
P.O. Box 1687 | www.townofjackson.com
Jackson, WY 83001

Fees Paid _____

For Office Use Only

Application #s _____

Date & Time Received _____

Please note: Applications received after 3 PM will be processed the next business day.

PROJECT.

Name/Description: Snow King Gondola
Physical Address: 100 E. Snow King Ave
Lot, Subdivision: PT NW1/4SW1/4, SEC. 34, TWP. 41, RNG. 11 PIDN: 22-41-16-34-3-00-003

PROPERTY OWNER.

Name: Snow King Mountain Resort LLC Phone: 307 734-3351
Mailing Address: PO Box 1846 ZIP: 83001
E-mail: ryan@snowkingmountain.com

APPLICANT/AGENT.

Name: Ryan Stanley Phone: 307 734-3351
Mailing Address: PO Box 1846 ZIP: 83001
E-mail: ryan@snowkingmountain.com

DESIGNATED PRIMARY CONTACT.

Property Owner Applicant/Agent

TYPE OF APPLICATION. Please check all that apply; review the type of application at www.townofjackson.com/200/Planning

Use Permit	Physical Development	Interpretations
<input type="checkbox"/> Basic Use	<input type="checkbox"/> Sketch Plan	<input type="checkbox"/> Formal Interpretation
<input checked="" type="checkbox"/> Conditional Use	<input type="checkbox"/> Development Plan	<input type="checkbox"/> Zoning Compliance Verification
<input type="checkbox"/> Special Use	<input type="checkbox"/> Design Review	Amendments to the LDRs
Relief from the LDRs	Subdivision/Development Option	<input type="checkbox"/> LDR Text Amendment
<input type="checkbox"/> Administrative Adjustment	<input type="checkbox"/> Subdivision Plat	<input type="checkbox"/> Map Amendment
<input type="checkbox"/> Variance	<input type="checkbox"/> Boundary Adjustment (replat)	Miscellaneous
<input type="checkbox"/> Beneficial Use Determination	<input type="checkbox"/> Boundary Adjustment (no plat)	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Appeal of an Admin. Decision	<input type="checkbox"/> Development Option Plan	<input type="checkbox"/> Environmental Analysis

PRE-SUBMITTAL STEPS. To see if pre-submittal steps apply to you, go to www.townofjackson.com/200/Planning and select the relevant application type for requirements. Please submit all required pre-submittal steps with application.

Pre-application Conference #: Sept. 10, 2019 Environmental Analysis #: _____
Original Permit #: _____ Date of Neighborhood Meeting: July 31, 2019

SUBMITTAL REQUIREMENTS. Please ensure all submittal requirements are included. The Planning Department will not hold or process incomplete applications. Partial or incomplete applications will be returned to the applicant. Go to www.townofjackson.com/200/Planning and select the relevant application type for submittal requirements.

Have you attached the following?

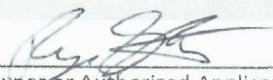
Application Fee. Fees are cumulative. Go to www.townofjackson.com/200/Planning and select the relevant application type for the fees.

Notarized Letter of Authorization. A notarized letter of consent from the landowner is required if the applicant is not the owner, or if an agent is applying on behalf of the landowner. Please see the Letter of Authorization template at www.townofjackson.com/DocumentCenter/View/102/Town-Fee-Schedule-PDF.

Response to Submittal Requirements. The submittal requirements can be found on the TOJ website for the specific application. If a pre-application conference is required, the submittal requirements will be provided to applicant at the conference. The submittal requirements are at www.townofjackson.com/200/Planning under the relevant application type.

Note: Information provided by the applicant or other review agencies during the planning process may identify other requirements that were not evident at the time of application submittal or a Pre-Application Conference, if held. Staff may request additional materials during review as needed to determine compliance with the LDRs.

Under penalty of perjury, I hereby certify that I have read this application and associated checklists and state that, to the best of my knowledge, all information submitted in this request is true and correct. I agree to comply with all county and state laws relating to the subject matter of this application, and hereby authorize representatives of Teton County to enter upon the above-mentioned property during normal business hours, after making a reasonable effort to contact the owner/applicant prior to entering.



Signature of Property Owner or Authorized Applicant/Agent

Ryan Stanley

Name Printed

Oct 8, 2019

Date

Vice President

Title

LETTER OF AUTHORIZATION

Snow King Resort Master Association, "Owner" whose address is: _____
400 E. Snow King Ave, Jackson, WY, 83001
(NAME OF ALL INDIVIDUALS OR ENTITY OWNING THE PROPERTY)

_____, as the owner of property
more specifically legally described as:

(If too lengthy, attach description)

(If too lengthy, attach description)
HEREBY AUTHORIZES Ryan Stanley _____ as agent to represent and act for Owner in making application for and receiving and accepting on Owners behalf, any permits or other action by the Town of Jackson, or the Town of Jackson Planning, Building, Engineering and/or Environmental Health Departments relating to the modification, development, planning or replatting, improvement, use or occupancy of land in the Town of Jackson. Owner agrees that Owner is or shall be deemed conclusively to be fully aware of and to have authorized and/or made any and all representations or promises contained in said application or any Owner information in support thereof, and shall be deemed to be aware of and to have authorized any subsequent revisions, corrections or modifications to such materials. Owner acknowledges and agrees that Owner shall be bound and shall abide by the written terms or conditions of issuance of any such named representative, whether actually delivered to Owner or not. Owner agrees that no modification, development, platting or replatting, improvement, occupancy or use of any structure or land involved in the application shall take place until approved by the appropriate official of the Town of Jackson, in accordance with applicable codes and regulations. Owner agrees to pay any fines and be liable for any other penalties arising out of the failure to comply with the terms of any permit or arising out of any violation of the applicable laws, codes or regulations applicable to the action sought to be permitted by the application authorized herein.

Under penalty of perjury, the undersigned swears that the foregoing is true and, if signing on behalf of a corporation, partnership, limited liability company or other entity, the undersigned swears that this authorization is given with the appropriate approval of such entity, if required.

OWNER:

(SIGNATURE) (SIGNATURE OF CO-OWNER)

Title: President

(if signed by officer, partner or member of corporation, LLC (secretary or corporate owner) partnership or other non-individual Owner)

STATE OF Wyoming
COUNTY OF Teton

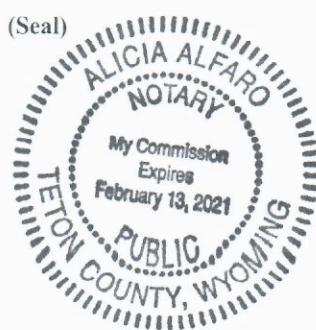
)
)SS.
)

The foregoing instrument was acknowledged before me by Max Chapman Jr. this 13 day of August, 2009.

WITNESS my hand and official seal.

(Notary Public)

My commission expires: Feb 13, 2021





October 1, 2019

Ryan Stanley
Vice President & General Manager
Snow King Mountain Resort

Tyler Sinclair
Town of Jackson Planning Director
PO Box 1687
Jackson, WY 83001

Re: Snow King Gondola Conditional Use Permit

Dear Tyler,

This letter is to serve as a narrative description of the proposed gondola installation at the base of Snow King Mountain. Included with this letter and conditional use permit application is a draft grading plan for the site that visually illustrates the proposed changes to the base of the mountain.

We are seeking to replace the existing Summit and Cougar ski lifts with a detachable gondola to replace aging infrastructure that is nearing the end of its functional life. This new aerial tramway will safely and comfortably transport guests to the summit of Snow King Mountain for summer and winter recreation as well as enjoying the spectacular views of Jackson Hole.

The gondola is proposed to be located at the site of the existing Cougar chair lift with a small plaza to accommodate guests loading and unloading the gondola directly adjacent to the North. A buffer zone between the existing concrete pathway adjacent to the play structure, and the gondola staging area is proposed with landscaping and seating on both sides to match the adjacent landscaping in the park. The patio area adjacent to the gondola will be at or near street grade to provide efficient ADA access to the gondola. A small ticket booth will be located on this plaza as well as a map of the resort and informational signage.

In order to create more open space at the base of the mountain we are proposing to relocate the existing snowmaking pump house to the South of the Snow King Sports and Events Center. In moving the snowmaking facilities associated pipes and utilities will be re-routed to this location.

All of the dirt excavated for the gondola will be pushed uphill and used to create a smooth even grade at the base of the existing ski slope as it transitions to the parking lot at the base of the mountain. Following construction new pathways will be created to access trails leading up the mountain and the Lodge Room. A sprinkler system and sod will be installed to create a large open field that will transition into native grass further up the hill.



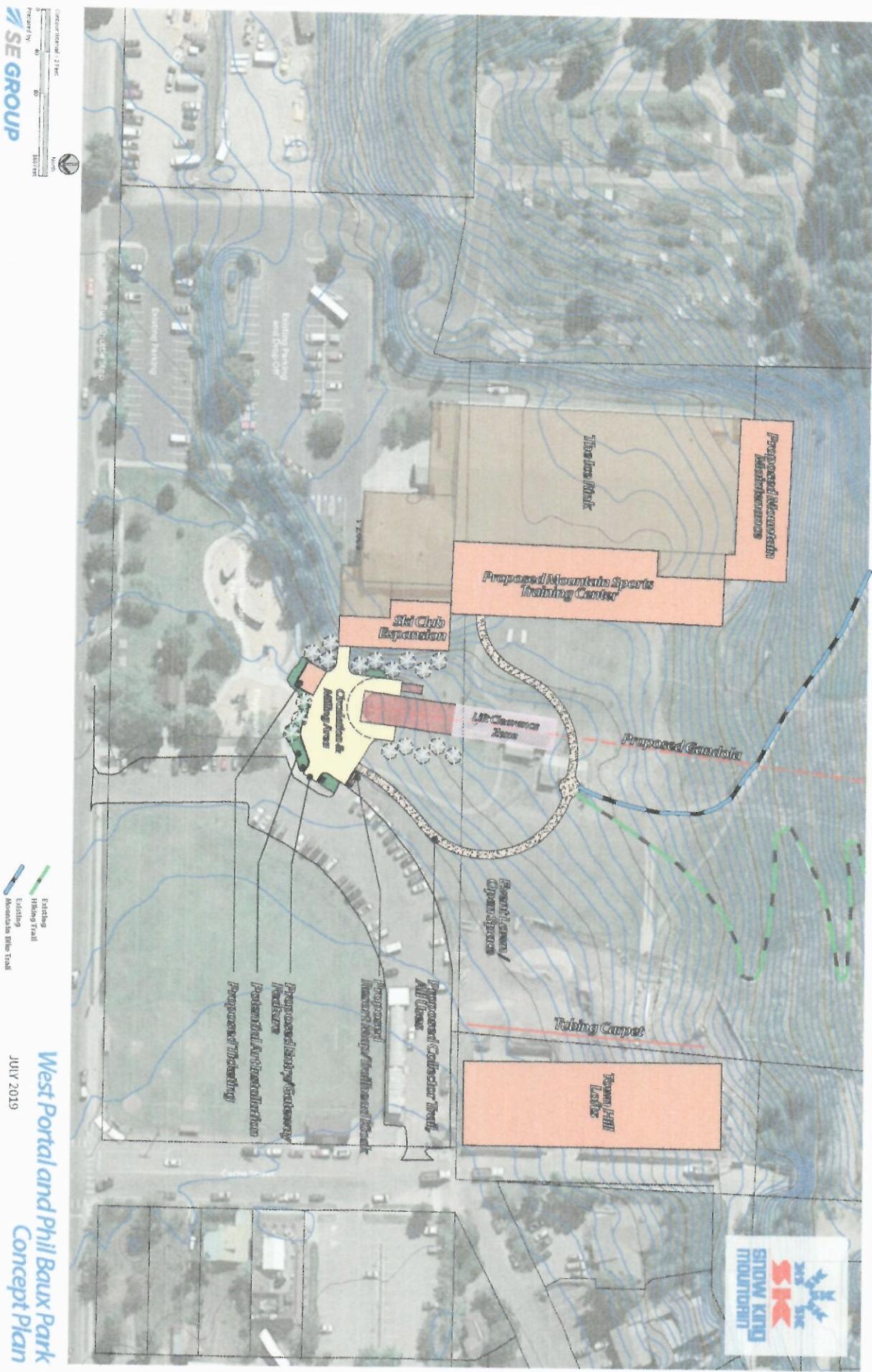
This project will not create any new employees for mountain operations as it involves the replacement of existing infrastructure. We currently have a team in place for long term maintenance and operations of this proposed infrastructure.

We believe this project, along with others proposed on the mountain, will help ensure the viability of Wyoming's oldest ski area for decades to come.

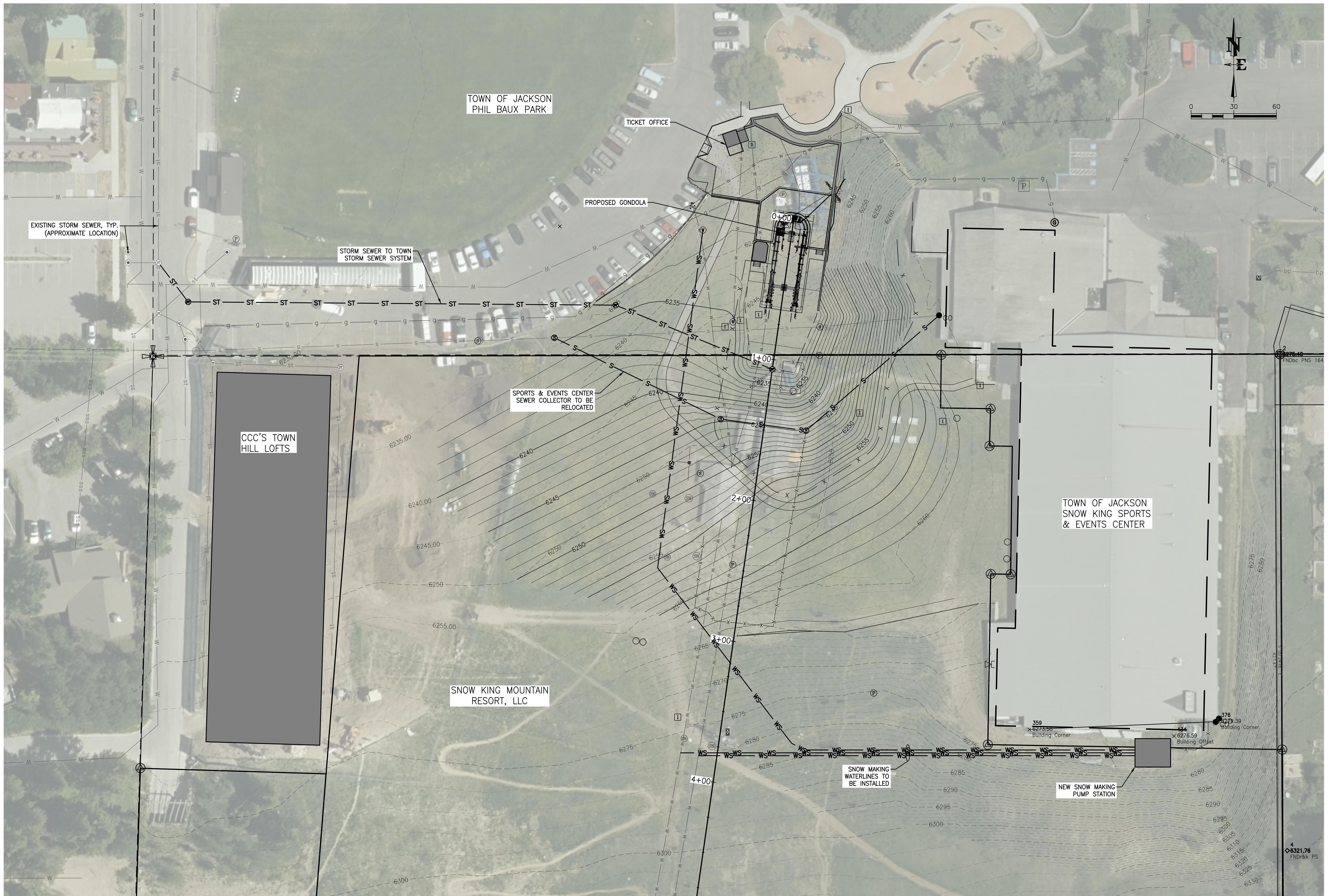
Sincerely,

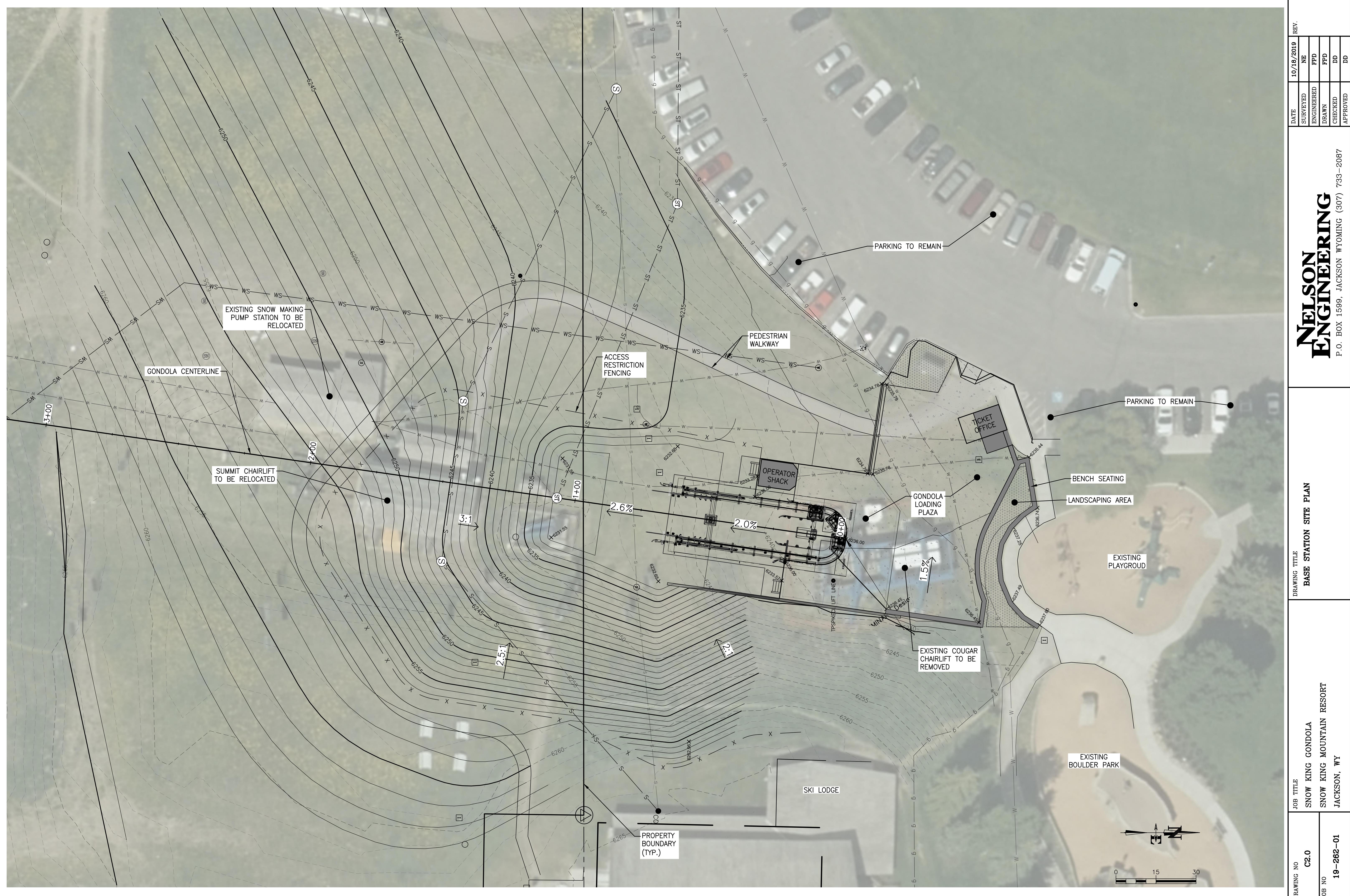
A handwritten signature in blue ink that reads "Ryan Stanley".

Ryan Stanley



West Portal and Phil Baux Park Concept Plan





Snow King Mountain Resort

Gondola & Zip-Line Conditional Use Permit

January 26, 2020

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Introduction

As a blend between a visitor-centric resort and a community service facility, Snow King Mountain Resort (SKMR) is a place where local residents and visitors share space comfortably. As an integral part of the Jackson community, SKMR serves as a bridge to nature for the town and offers a site for skiing, biking, hiking, concerts, and sporting events.

The underlying goal of SKMR is to create a vibrant, year-round, mixed-use complex contributing to the economy of Jackson and sustaining winter operations. With this objective in mind, SKMR is seeking to replace the existing Summit and Cougar ski lifts with a detachable gondola to replace aging infrastructure that is nearing the end of its functional life. This new aerial tramway will safely and comfortably transport guests to the summit of Snow King Mountain for summer and winter recreation as well as enjoying the spectacular views of Jackson Hole. In addition, SKMR is seeking to add a zip-line experience to the east side of the mountain adjacent to the Rafferty Lift and Mountain Coaster. This activity will primarily operate during the summer season, and may ultimately be connected to a longer zip-line tour that originates at the top of the proposed gondola.

The gondola is proposed to be located at the site of the existing Cougar chair lift with a small plaza to accommodate guests loading and unloading the gondola directly adjacent to the North. A buffer zone between the existing concrete pathway adjacent to the play structure, and the gondola staging area is proposed with landscaping and seating on both sides to match the adjacent landscaping in the park. The patio area adjacent to the gondola will be at or near street grade to provide efficient ADA access to the gondola. A small ticket booth will be located on this plaza as well as a map of the resort and informational signage.

The zip-line will start at the mid-station of the Rafferty Lift and terminate adjacent to the Snow King Hotel landing entirely on private property. The landing platform at the base will be a single steel pole with a spiral staircase allowing guests to descend to the ground. Landscaping will be added directly around the landing of the zip-line, but will be minimized so as to have the least impact on winter ski terrain.

In order to create more open space at the base of the mountain in conjunction with the new gondola, we are proposing to relocate the existing snowmaking pump house to the South of the Snow King Sports and Events Center. In moving the snowmaking facilities associated pipes and utilities will be re-routed to this location. Ultimately this pump house will be enclosed with a larger maintenance and storage facility for mountain operations.

It is anticipated that these projects will not start any earlier than the spring of 2021 following the completion of the USFS Environmental Impact Statement (EIS) currently underway.

Required Permits / Leases

Grading & Erosion Control

As part of this Conditional Use Permit (CUP), Grading and Erosion control permits will be obtained for all work done associated with this project prior to the commencement of any grading work. See the Conceptual Site Plan and Grading Disturbance section below for further information on grading and erosion control.

Building Permit

All required building permits for construction associated with this CUP will be obtained prior to the commencement of any construction. The only buildings that could potentially require a building permit will be the ticket booth adjacent to the gondola and the snowmaking pump house.

USFS Approval for Gondola

Prior to any construction, the USFS Environmental Impact Statement (EIS) that is currently ongoing must be completed and approval must be issued for the installation of the gondola. It is anticipated that the EIS and approval process will be completed mid-summer 2020.

TOJ Leases

It is anticipated that as part of this CUP process, leases from the Town of Jackson associated with ski area operations will be renegotiated. Snow King Mountain Resort would like to propose returning the lease rate to the original cost of \$10,800 per year, adjusted for inflation, with a term of 50 years. This represents approximately a 10 fold increase in the lease rate from the current lease and the term of the lease is comparable to other long term leases the town holds.

Required Approvals

Snow King Resort Master Association

Snow King Resort Master Association (SKRMA) will provide a letter approving this CUP submission in early February, prior to Town Council Review.

Site Plan

Conceptual Grading Plan & Site Disturbance

The proposed CUP will involve grading primarily associated with the redevelopment of the base area and gondola station. Minimal grading will occur at the base and top of the zip-line in order to install concrete underground to support the towers. Grading will occur throughout the area to the west and south of the Snow King Sports and Event Center and South of the existing parking lot. Dirt will be excavated in the location of the cougar lift to make space for the gondola and will be pushed uphill to ease the grade at the base of the mountain and make a smooth transition to the parking lot. Additional grading will occur in the area of the snowmaking pump house to provide access to this zone and for the installation of water lines and power. Existing utilities for snowmaking, sewer to the Snow King Sports and Event Center, and power will be relocated as part of this grading. A new walkway will be constructed from the Lodge room to the base of the gondola.

No trees will be removed at the base of the mountain in conjunction with grading and all areas disturbed by grading activities or access will be restored and revegetated. Disturbed slopes steeper than 3:1 will receive erosion control blankets in order to minimize loss of topsoil and to promote moisture retention for seed germination. Straw wattles will also be used along contours to reduce runoff velocities and minimize sediment transport down the slopes.

Prior to any grading or land disturbing activities a grading permit application will be made to the Town of Jackson.

Elevation Data

Elevations are indicated on the draft site plans and the height of the gondola and zip-line platform are indicated on the two-dimensional renderings.

Leased Land

The base of the gondola is situated on Town of Jackson property that has been leased for ski area operations for many decades. We anticipate renewing this lease as well as leases for the other ski area tracts and winter tubing leases as part of this CUP process.

Construction Access

No new permanent roads are proposed as part of this CUP. However, the USFS Master plan does include a new access road on the mountain that is not associated with this CUP. As part of the construction process for the gondola and zip-line construction vehicles will access the sites in manner that creates the least impact. Staging for the two projects will be on the KM6 Lot and Lot 57 as necessary. Any disturbance of native grass, sod, or soil created associated with construction will be restored.

Uphill Access During Construction

It is anticipated that existing uphill routes originating near the current Summit lift will be disturbed as part of the construction process. Temporary access for uphill hikers and bikers will be provided through alternative routes during construction and existing uphill trails will be re-established following construction.

Parking

No new parking areas are proposed; nor are any parking areas to be eliminated with the proposed development. As part of the Snow King Resort Association Master Plan Transportation Demand Management Monitoring, paving of the KM6 lot will be required to satisfy additional parking demand if lots exceed 80% capacity as indicated during the study periods.

Sewer & Water Connections

Installation of the gondola necessitates the relocation of the Snow King Events Center Sewer service piping because the required gondola grading will uncover the pipe. A straightforward realignment of the sewer piping is proposed and includes manholes at proposed angle points and sufficient sloping in accordance with WDEQ standards as well as TOJ standards.

As part of the relocation of the snowmaking pump station, an 8 inch waterline loop is proposed to be installed in order to increase snow making capacity. Modeling results of the addition of this 8 inch loop to the Town's water system indicates that installation of the waterline loop can increase snow making capacity from the current 600 gallons per minute to up to 2400 gallons per minute. Modeling results indicate that snow making demands of 2400 gallons per minute at the new pump station location will result in a 20 psi delivery pressure at the pump house while also providing maximum day demands elsewhere in the zone at no less than 45 psi. The proposed waterline loop will extend along the east and south side of the Snow King Event Center, where it serves the pump station on the south side, and completes the loop on the west side of the events center and connects back to the 8 inch main near the current connection of the existing 6 inch service. All water use, including snow making and irrigation, on the proposed loop will be metered.

Sewer and water lines are indicated on the attached draft engineering plans. Water lines illustrate primary mains to serve the pump station and also to connect to existing snow making infrastructure.

Subsurface Soils and Geologic Investigation

Subsurface soil and geologic investigation required for construction design and grading will take place this summer. This information will be provided as required for grading and building permits.

Stormwater Runoff Management

Consistent with the requirements of the Stormwater Management Standard provisions of the Land Development Regulations, the proposed redevelopment will limit the amount and velocity of the stormwater runoff from the site. A grading permit will be submitted prior to construction indicating the grading, stormwater and erosion control measures to be utilized to meet detention requirements and to aid in limitation of stormwater velocities.

For the gondola installation, the stormwater runoff management plan includes capture of stormwater in the gondola base station “pit” south of the gondola loading plaza; capture of snowmelt and stormwater from the ski slope into a storm drain to minimize runoff onto the parking lot; and a relocation of the drain piping from the snow making pump station and snow making waterlines. The Gondola Base Station plan and Utility Overview drawings indicate the proposed stormwater measures.

For the proposed zipline, no additional stormwater management measures are considered necessary as the installation will not increase the amount or volume of stormwater runoff.

Landscape Plan

Landscape Plan Attached.

Lighting

Appropriate night lighting for the exterior of the gondola will be consistent with Snow King Mountain Resort lighting designs. Locations for new lights associated with night skiing are included in the attached maps. Due to the removal of the summit and Cougar Lifts which currently hold the majority of the lights for night skiing, it is necessary to add a number of new lights on the mountain to ensure continued safe night skiing.

Signage

Resort Signage associated with this CUP will conform to the guidelines set forth in the Snow King Resort PRD Master Plan. Signage will be homogenous in style and consistent across the resort facility. New signage for the base area of the ski resort will be developed in order to direct traffic on the mountain. A large resort map and required ski area signage will be located adjacent to the gondola.

Landscaping & Screening

Landscaping plan attached.

Noise

The proposed zip-line installation company conducted a noise analysis and found decibel readings associated with the zip-line itself to be below 65 decibels. Zip-line trolley wheels are coated with urethane and the landing catch system does not have any springs associated that create noise. The gondola is also relatively quite in operation, similar to either of the gondolas at Teton Village.

Days and Hours of Operation

Snow King Mountain operating hours in winter have ranged from 9:00am to 9:00pm being the longest to 10:00am to 6:30pm presently. It is anticipated that night skiing hours of operation in conjunction with the Gondola could go to 9:00pm in the future depending on public interest. Prior to the construction of new facilities at the summit, it is anticipated that that gondola would generally not operate past 9:00pm in the winter. Following construction of a restaurant and other facilities at the summit, it is anticipated that the gondola could operate the same hours as other restaurants and bars in town. Lighting associated with gondola operations would be substantially reduced for operating hours past 9:00pm.

During summer months Snow King Mountain is generally open seven days a week from 10:00am to 9:00pm during peak season and reduced operating hours for shoulder periods of the summer operating season. These hours of operation vary for special events. As part of this CUP it is requested that operating hours for all activities be flexible from 9:00am – 9:00pm and later as needed for the gondola specifically to meet the needs of facilities at the summit.

Wildlife Impacts

An extensive study of wildlife impacts has been undertaken associated with the Snow King EIS and results from that study will be available to review as part of the Draft EIS document to be released in late January, 2020.

Housing

Based on the new Teton County Affordable Housing regulations no housing is required associated with this CUP. All employees associated with the zip-line operations will be seasonal in nature, or existing managers currently working for Snow King Mountain. The gondola project will not create any new employees for mountain operations as it involves the replacement of existing infrastructure. We currently have a team in place for long term maintenance and operations of this proposed infrastructure.

Construction and Staging Plan

Staging for the construction of all facilities included in this CUP will occur principally on the KM6 property. Additional staging may occur on Lot 57, but efforts will be made to minimize construction activity on this lot in order not to disturb adjacent condominium owners.

Staging of construction materials will begin in late March to early April. It is anticipated that some construction related work associated with this project would begin in April including the removal of snow and grading.

It is anticipated that grading work for the base of the gondola will continue into mid-summer and final installation of the gondola and landscaping will not be complete until November 2021. Installation of gondola lift towers and the removal of old lift towers will occur by helicopter in the later summer/early fall. Policies and procedures will be developed for managing construction access routes and the interaction amongst contractors. A project manager will oversee all contractors on site.

Included Mapping, Imagery, and Additional Information

[Gondola Base Station Site Plan](#)

[Zip-line Site Plan](#)

[Gondola Side View](#)

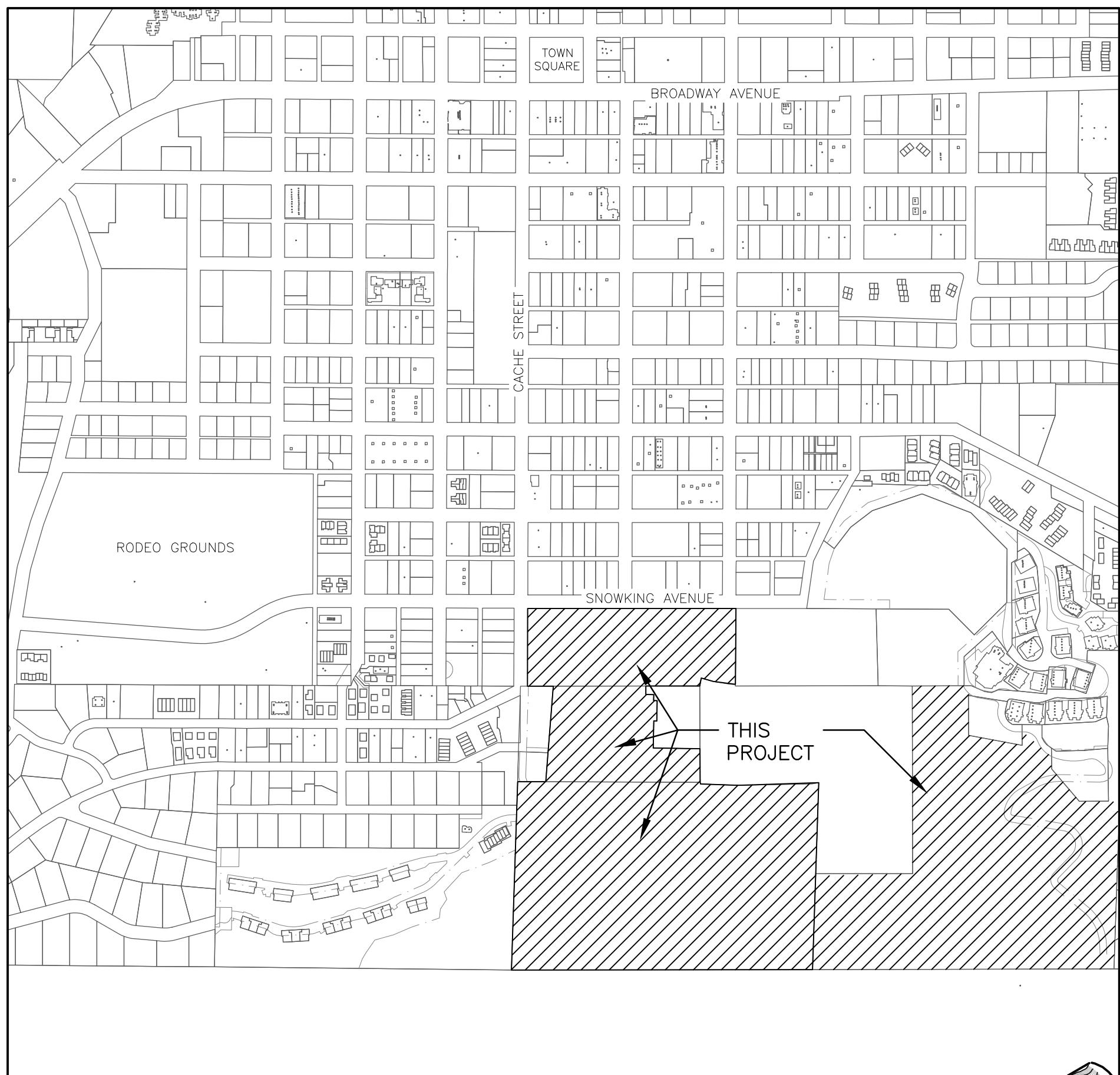
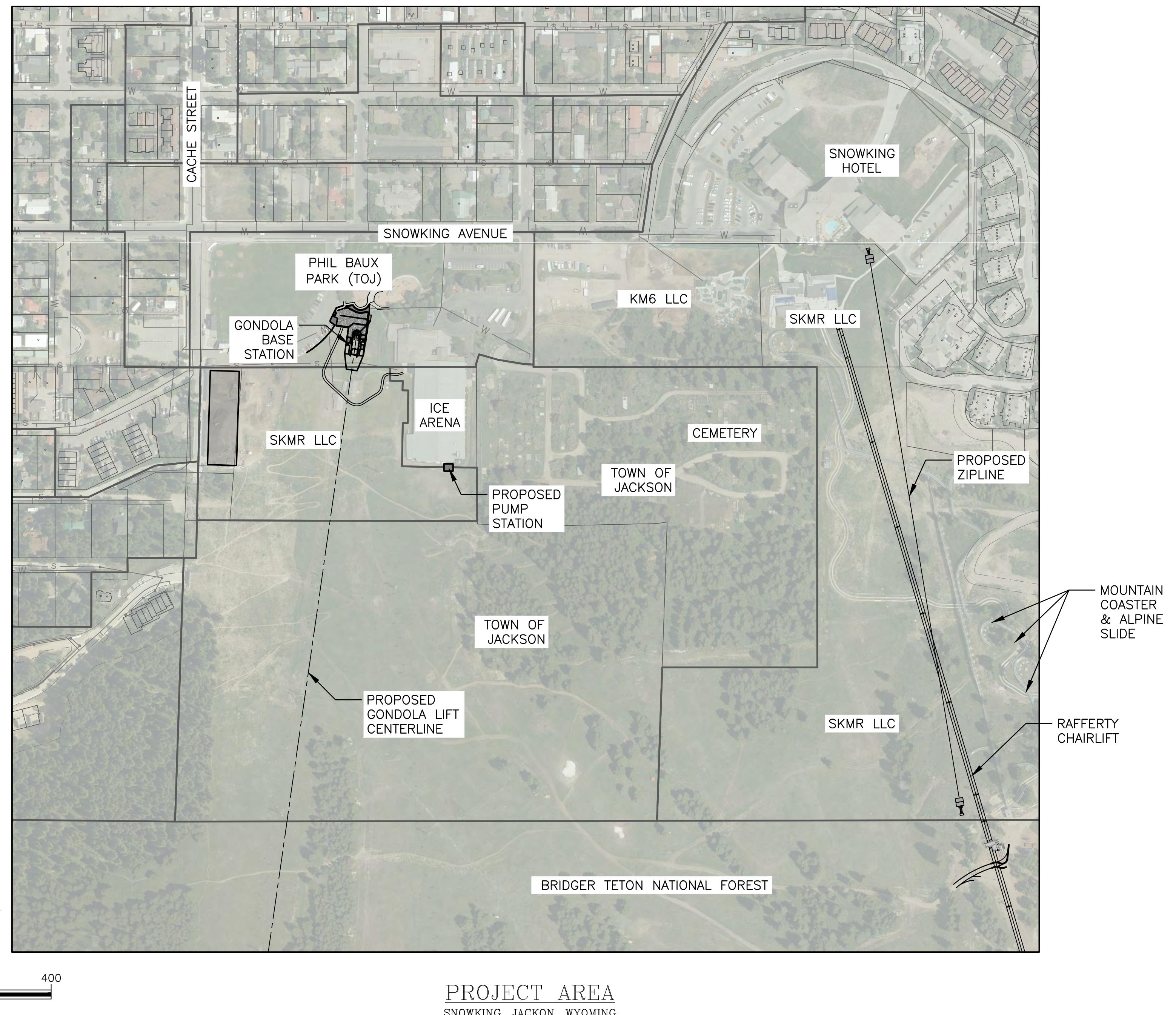
[Zip-line Rendering](#)

[Landscape Plans](#)

[Lighting Plan](#)

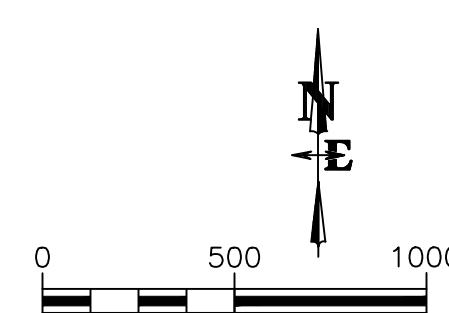
SNOW KING MOUNTAIN RESORT 2020 IMPROVEMENTS PROJECT TOJ CONDITIONAL USE PERMIT DRAWINGS

JACKSON, WYOMING



VICINITY MAP

SNOWKING MOUNTAIN RESORT
PART OF SECTION 34
T414N R116W
JACKSON, WYOMING



PROJECT CONTACTS

OWNER:
SNOW KING MOUNTAIN RESORT
RYAN STANLEY
GENERAL MANAGER
PH: 307-201-5004
EMAIL: ryan@snowkingmountain.com

CIVIL ENGINEER & PROJECT MANAGER:
DAVE DUFault, PE
NELSON ENGINEERING
430 SOUTH CACHE STREET
JACKSON, WY 83001
PH: 307-733-2087
EMAIL: ddufault@nelsonengineering.net

DRAWING INDEX	
DWG NO.	DRAWING TITLE
C0.1	TITLE SHEET
C1.0	EXISTING SITE PLAN
C1.1	BASE STATION EXISTING SITE PLAN
C2.0	PROPOSED SITE PLAN
C2.1	GONDOLA BASE STATION SITE PLAN
C3.0	NIGHT SKIING LIGHTING PLAN
C4.0	UTILITY PLAN OVERVIEW
C5.0	ZIP LINE SITE PLAN

DRAWING NO	JOB TITLE	REV.
C0.1	SNOW KING MOUNTAIN RESORT	NE
19-262-01	2020 IMPROVEMENTS	NB
	JACKSON, WYOMING	DD
		APPROVED

**NELSON
ENGINEERING**
P.O. BOX 1599, JACKSON, WYOMING (307) 733-2087



DRAWING NO	JOB TITLE	EXISTING SITE PLAN	DRAWING TITLE
C1.0	SNOW KING MOUNTAIN RESORT	EXISTING SITE PLAN	EXISTING SITE PLAN
JOB NO	2020 IMPROVEMENTS		
19-262-01	JACKSON, WYOMING		

**NELSON
ENGINEERING**
P.O. BOX 1599, JACKSON, WYOMING (307) 733-2087

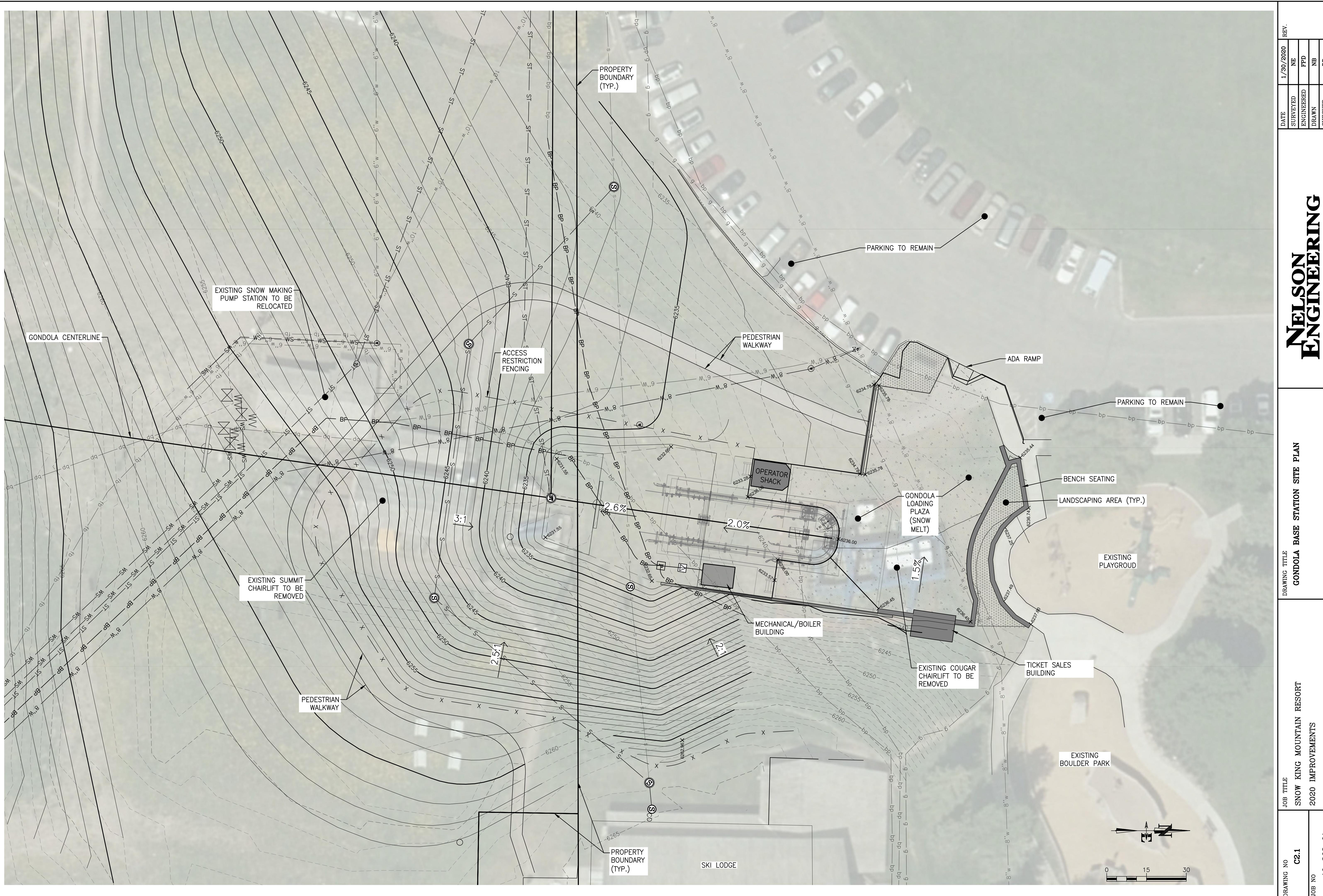
DATE	1/30/2020	REV.
SURVEYED	NE	
ENGINEERED		
DRAWN	NB	
CHECKED	DD	
APPROVED	DD	

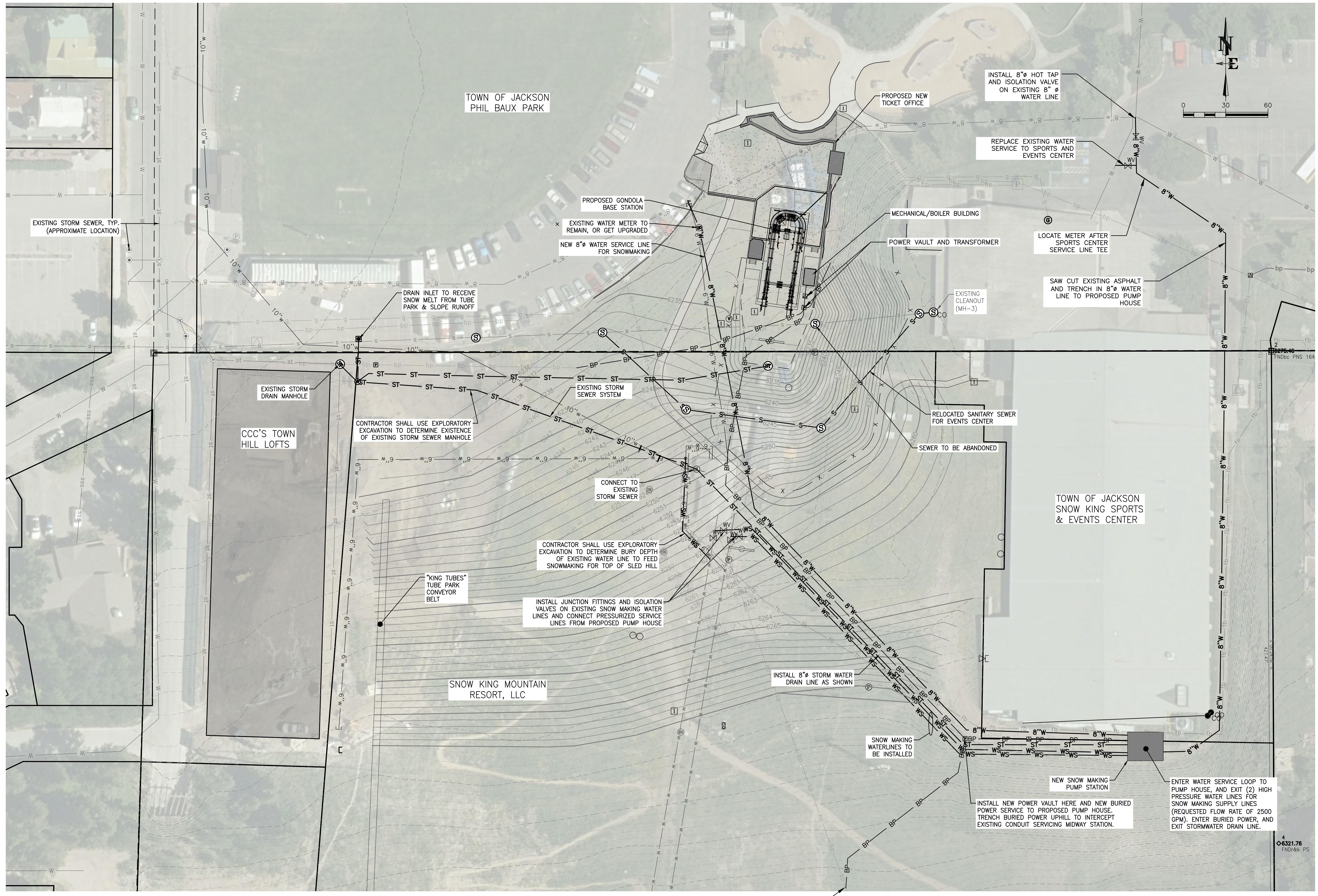


DRAWING NO.	JOB TITLE	DRAFTING TITLE			REV.
		BASE STATION	EXISTING	SITE PLAN	
11-262-01	SNOW KING MOUNTAIN RESORT	3.1.1	2020 IMPROVEMENTS	JACKSON, WYOMING	1/30/2020
JOB NO.	JOHN	JOHN	JOHN	JOHN	JOHN
APPROVED	DD	DD	DD	DD	DD
SURVEYED	NE	NE	NE	NE	NE
ENGINEERED					
DRAWN	NB	NB	NB	NB	NB
CHECKED					
DATE					



DRAWING NO	JOB TITLE	DRAWING TITLE
C2.0	SNOW KING MOUNTAIN RESORT	PROPOSED SITE PLAN
19-262-01	2020 IMPROVEMENTS	
	JACKSON, WYOMING	
		NELSON ENGINEERING
		P.O. BOX 1599, JACKSON, WYOMING (307) 733-2087
		DATE 1/30/2020 REV. NE
		SURVEYED ENGINEERED
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SVPro2019-262-01 Snow King Street Gridfile Improvements.dwg Drawing: Nelson-Utility Plan Overview - Jun 30 2020 04:02:01 pm PLOTTED BY Notes INDS FORMAT: 2200

DRAWING TITLE

UTILITY PLAN OVERVIEW

JOB NO

44.0 SNOW KING MOUNTAIN RESORT

2020 IMPROVEMENTS

JACKSON, WYOMING

DATE 1/30/2020 REV.

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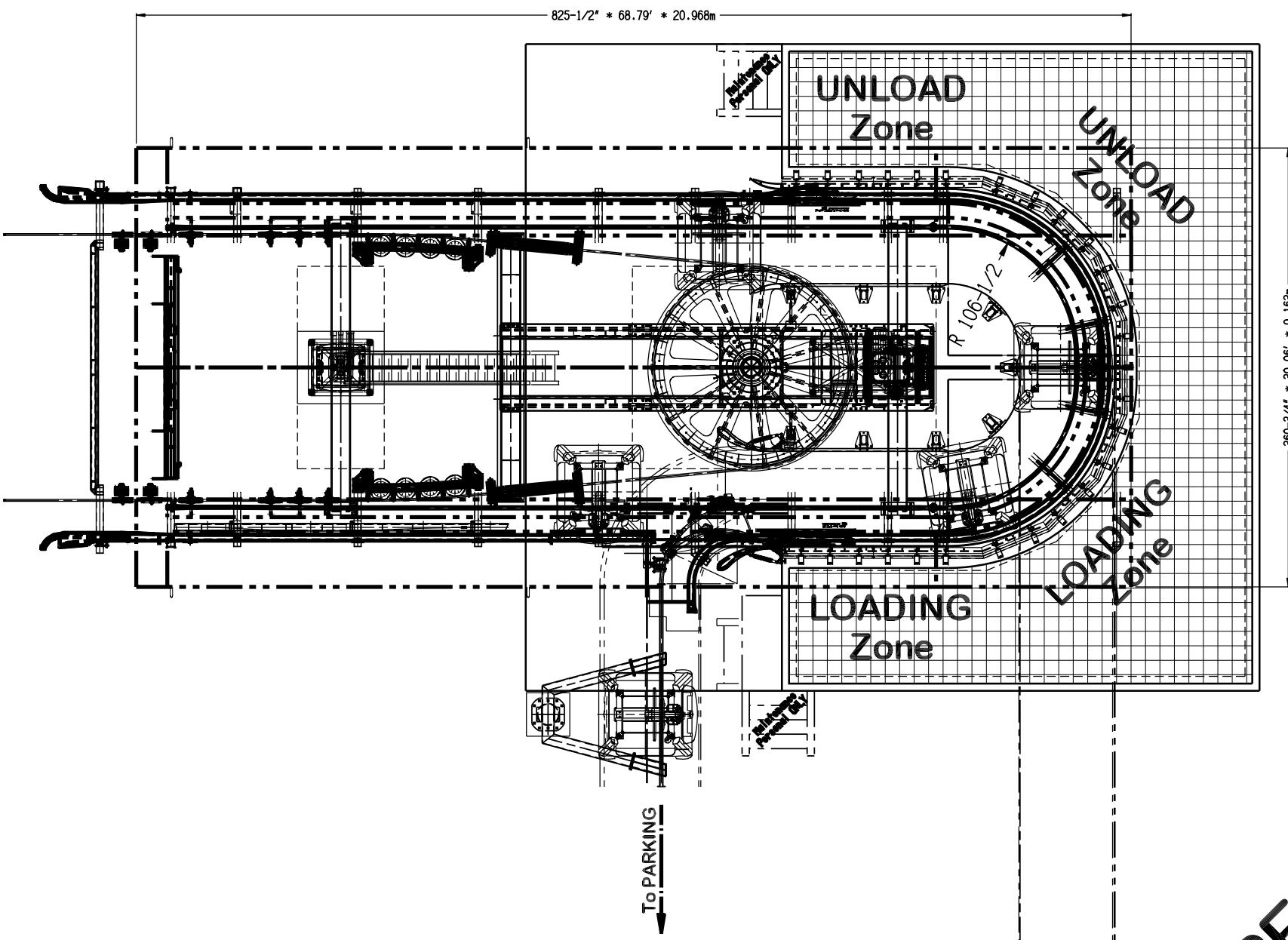
NELSON ENGINEERING
P.O. BOX 1599, JACKSON, WYOMING (307) 733-2087



DRAWING NO.		JOB TITLE		DRAWING TITLE	
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JOB NO.		2020 IMPROVEMENTS			
19-262-01		JACKSON, WYOMING		P.O. BOX 1599, JACKSON WYOMING (307) 733-2087	
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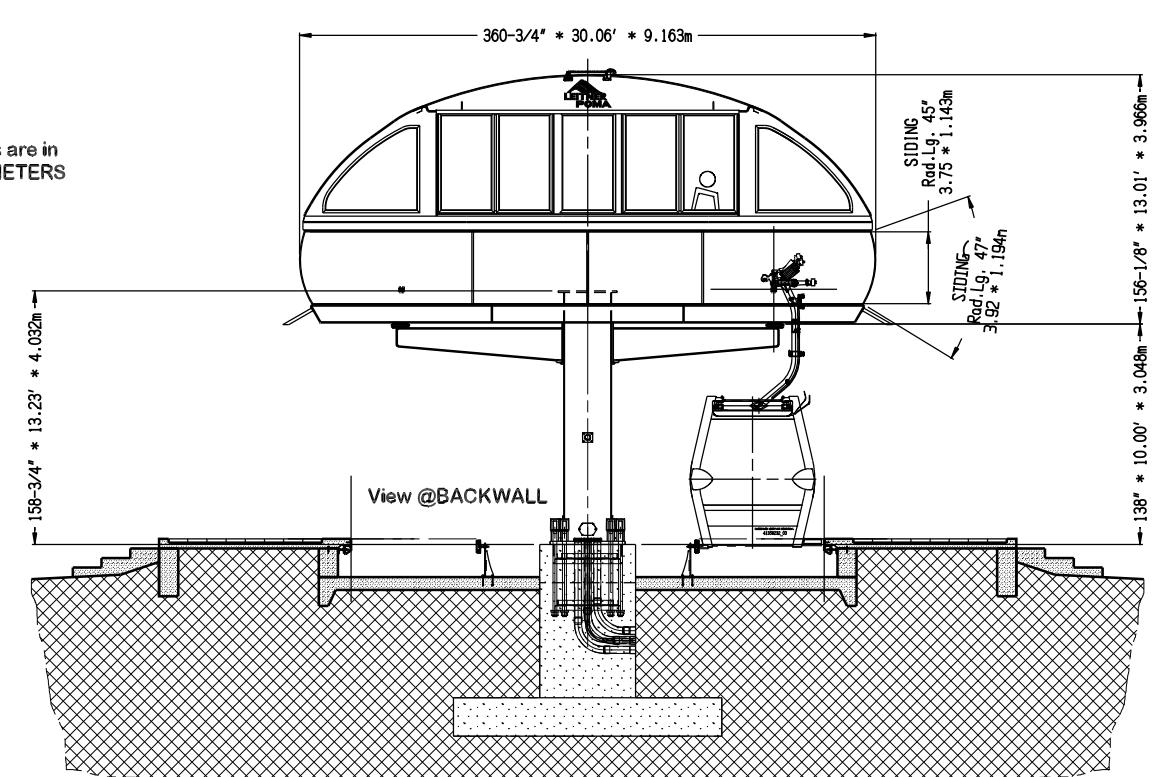
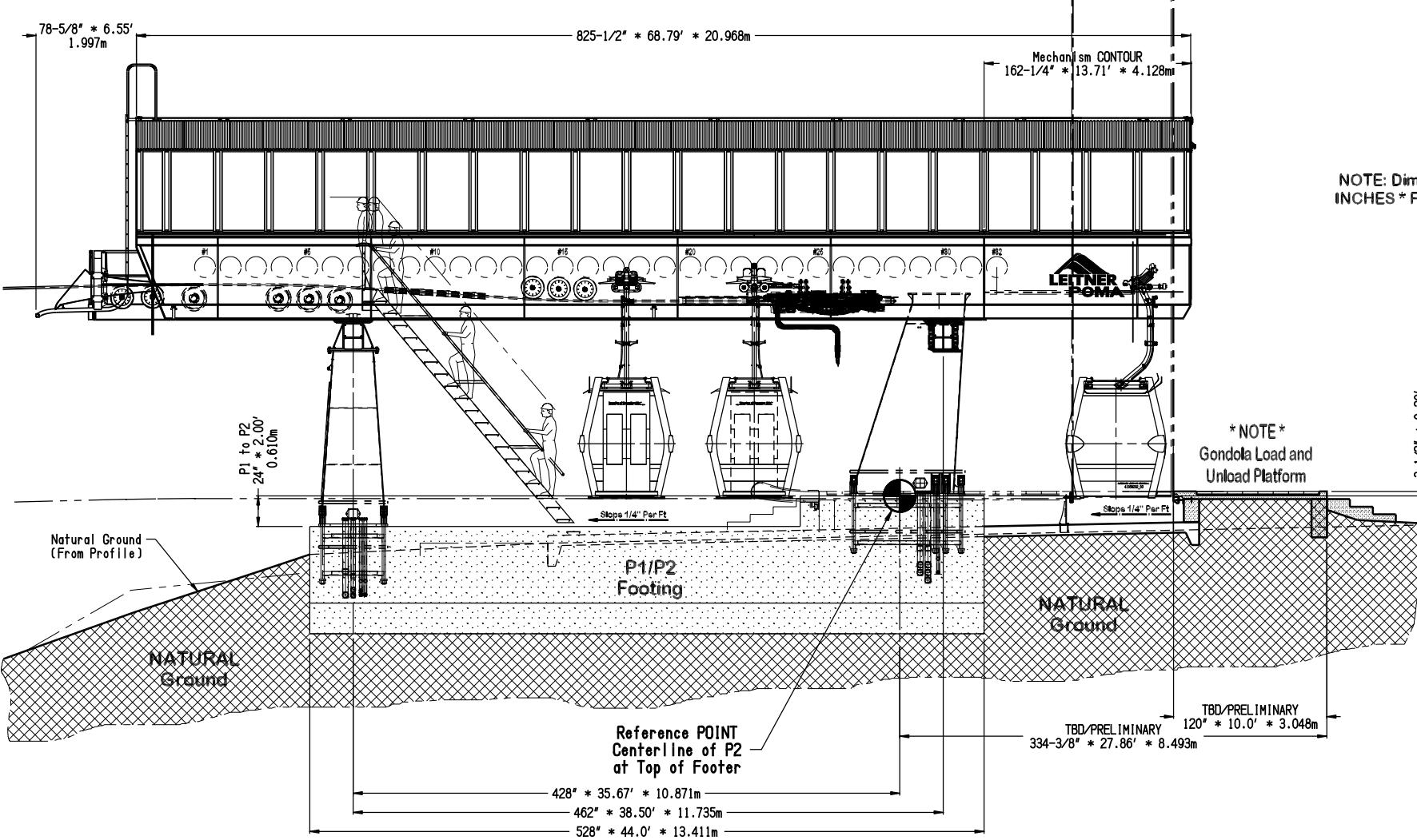


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JOB NO.		2020 IMPROVEMENTS			SURVEYED	
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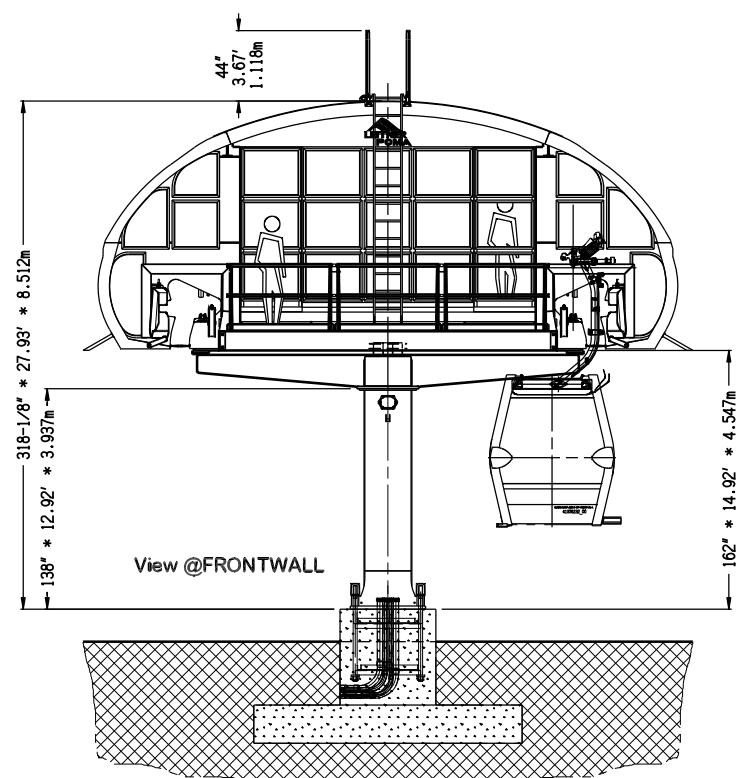


PRELIMINARY Design
*** NOT for Construction ***

01	MODIF. PI Tower Height and Foundations	UPDATE: Cabin and Gondola	NOTE: Reference Point	11/20/2019
REV	DESCRIPTION of REVISION			DATE BY
LPA Mechanism 32T/Gondola				MODEL YEAR
Drive Station				2020
STATION LAYOUT/Drive LPA-8PG/32T, Gondola				
STATION LAYOUT/Drive Station LPA-8 Place Gondola Cabin/32 Tire Mechanism				
DESIGNED BY	JOH	DRAWN BY	J.D.Hazelhurst	CHECKED BY
- AS REV'D -		- AS REV'D -		/
QTY. REV'D. /		REFERENCE /		
- Per ? -		- OTHER -		
DRAWING PROJECTION		DRAWING FORMATS	GENERAL TOLERANCES	
DRAWING JUNCTION		DRAFTS	SECURITY LEVEL	
CABLE JUNCTION		DRILLS	- - -	
CABLE TENSION		SHRINK FITS	DRAWING & ITEM NUMBER	
CABLE TENSION		CONCEALED	77030473 01	
CABLE TENSION		CONCEALED	Sheet 2 of 2	
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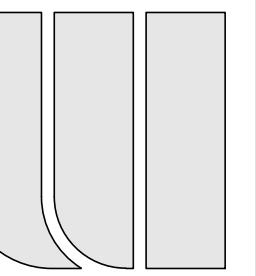
PRELIMINARY Design
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- AS REV'D -		- AS REV'D -		/
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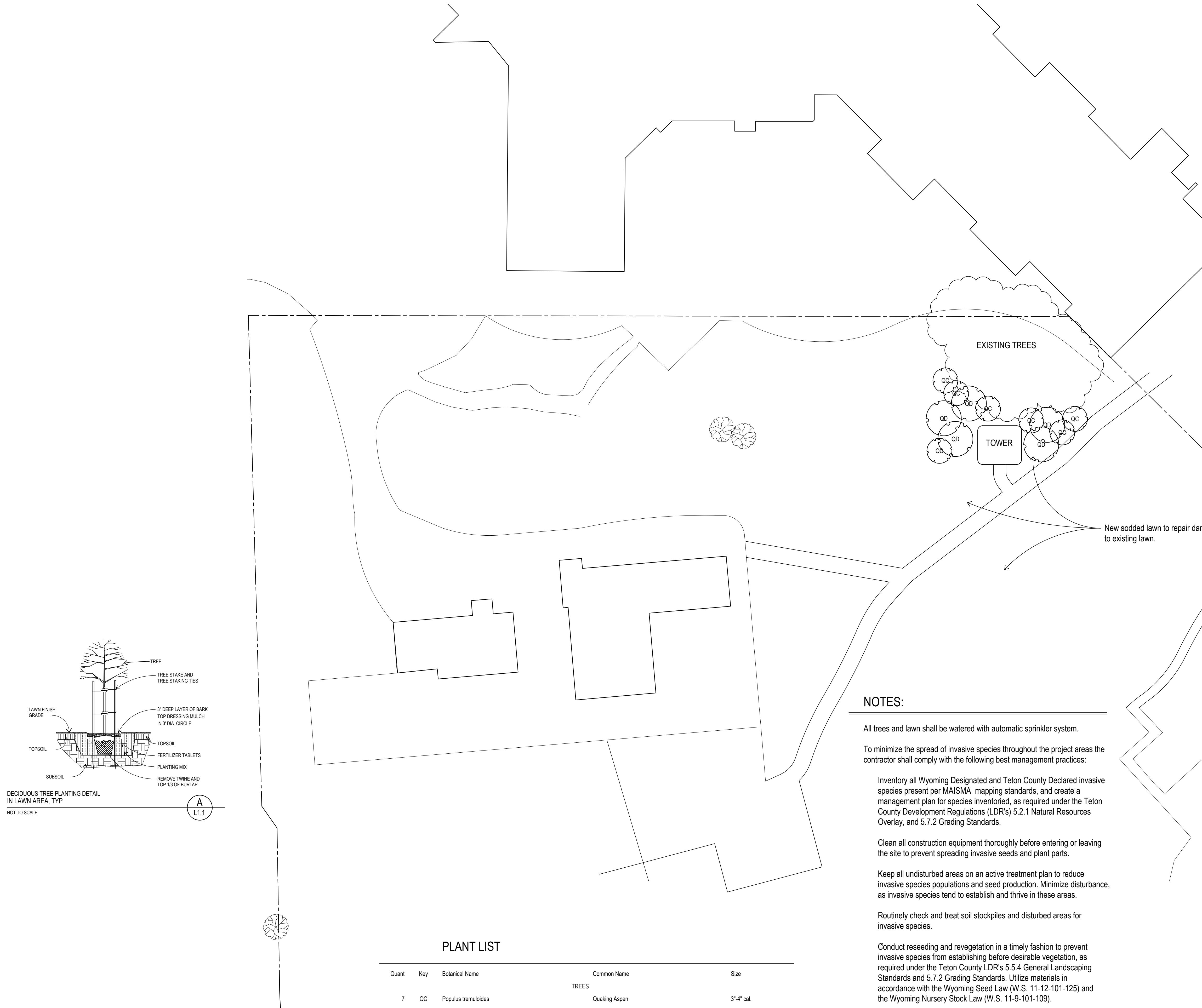
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LANDSCAPE ARCHITECTURE - LAND PLANNING
1605 SOUTH WOODRUFF AVENUE
IDAHO FALLS, IDAHO 83404
(208) 529-9504

SNOW KING ZIP LINE TOWER
SNOW KING RESORT
JACKSON, WYOMING



PLANT LIST

Quant	Key	Botanical Name	Common Name	Size
TREES				
7	QC	Populus tremuloides	Quaking Aspen	3"-4" cal.
5	QD	Populus tremuloides	Quaking Aspen	5"-7" cal.

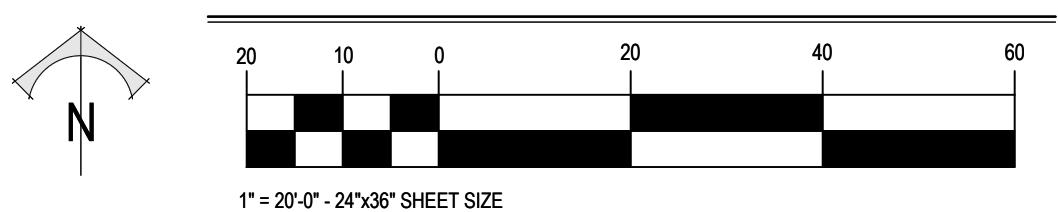
Conduct reseeding and revegetation in a timely fashion to prevent invasive species from establishing before desirable vegetation, as required under the Teton County LDR's 5.5.4 General Landscaping Standards and 5.7.2 Grading Standards. Utilize materials in accordance with the Wyoming Seed Law (W.S. 11-12-101-125) and the Wyoming Nursery Stock Law (W.S. 11-9-101-109).

Schedule a post-development site visit with Teton County Weed and Pest to update the management plan, and perform necessary maintenance as required under the Teton County LDR's 5.5.5 Installation and Maintenance.

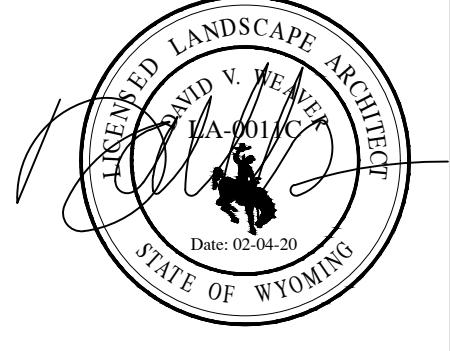
Revegetate all disturbed turf grass lawn areas as soon as practical after grading by sodding with bluegrass sod.

Repair damage to existing sprinkler system using materials to match existing. New sprinkler system shall work together with existing sprinkler system to provide full coverage to landscape areas.

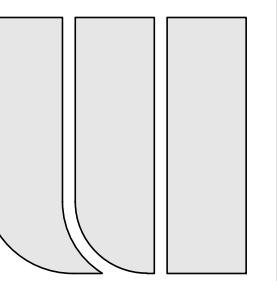
LANDSCAPE PLANTING PLAN



L1.1



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LANDSCAPE ARCHITECTURE - LAND PLANNING
1605 SOUTH WOODRUFF AVENUE
IDAHO FALLS, IDAHO 83404
(208) 529-9504

GRADING

1. Perform grading work required to prepare site for installation of landscaping as described in Contract documents.
2. Contractor shall provide all topsoil. Topsoil shall be fertile, loose, friable, sandy loam with a pH range between 5.5 and 8.0, soluble salts less than 3.0 mmhos/cm, sodium absorption ratio less than 6.0 and organic content greater than one percent. Topsoil shall be free from toxic minerals and chemicals, noxious weeds, rocks larger than one inch in any dimension and other objectionable materials.
3. Before rough grading, dig out weeds from planting areas by their roots and remove from site. Remove rocks larger than 2 inches in size and foreign matter such as building rubble, wire, cans, sticks, concrete, etc.
4. After placing topsoil, remove construction debris and rocks over 2" diameter.
5. Topsoil depth shall be as shown on drawings. Where topsoil depth is shown deeper than 6", mix soil amendments into topsoil before placing.
6. Elevation of finish grade of amended topsoil after placement and compaction in relation to adjacent hard surface - graded areas: one inch below measured to top of soil, seeded areas: one inch below, new planting areas: one inch below measured to top of mulch as shown.
7. Do not expose or damage existing shrub or tree roots. Slope grade to drain away from building for 12 feet minimum from walls at a slope of 1/2 inch per foot minimum, unless otherwise noted. High point of finish grade at building shall be as shown. Direct surface drainage by molding surface to facilitate natural run-off of water. Fill low spots and pockets with top soil and grade to drain properly.

SPRINKLER SYSTEM - Repair existing system.

1. Location of heads shown on Drawings is approximate. Actual placement may vary slightly as is required to achieve full, even coverage without spraying onto buildings, sidewalks, fences, etc. During layout, consult with Landscape Architect to verify proper placement and make recommendations where revisions are advisable. Minor adjustments in system layout will be permitted to avoid existing fixed obstructions.
2. Arrange valve stations to operate in an easy-to-view progressive sequence around building. Record sequence on controller lid.
3. As installation occurs, prepare accurate record drawing to be submitted before final inspection, including: detail and dimension changes made during construction, significant details and dimensions not shown in original Contract Documents, field dimensioned locations of valve boxes, quick-coupler valves, pressure wire runs not in mainline ditch, and both ends of sleeves. Take dimensions from permanent constructed surfaces or edges located at or above finish grade. Take and record dimensions at time of installation. Reduce copy of record drawing to half-size, color key circuits, and laminate both sides with 5 mil thick or heavier plastic. Place laminated drawing with controller.
4. Provide Operations & Maintenance Manual that lists complete instructions for system operation and maintenance, including winterizing.
5. Work and materials shall be in accordance with latest rules and regulations, and other applicable state or local laws. Nothing in Contract Documents is to be construed to permit work not conforming to these codes.
6. Contractor shall include in bid a one year guarantee that shall include: filling and repairing depressions and replacing plantings due to settlement of irrigation trenches for one year following acceptance of Project, a guarantee that the system has been adjusted to supply proper coverage of areas to receive water, a guarantee of replacement for all materials and workmanship that do not function according to manufacturer's specifications and as designed, and that the system can be adequately drained to protect from freeze damage.
7. After system is installed and approved, instruct Owner in complete operation and maintenance.
8. Drain entire system at end of first watering season following installation. Train Owner by having him assist in winterizing procedure.
9. Materials:

- a. Pea Gravel shall be 1/2 inch maximum round, water worn, washed rock.
- b. Native Material shall be soil native to project site free of wood and other deleterious materials and rocks over 1-1/2 inches.
- c. Topsoil - Remove rocks, roots, sticks, clods, debris, and other foreign matter over 1-1/2 inches longest dimension encountered during trenching.
- d. Pipe shall be continuously and permanently marked with Manufacturer's name, size, schedule, type, and working pressure. Pipe sizes shown on Drawings are minimum. Larger sizes may be substituted without additional cost to Owner. Pipe materials shall be as shown on drawings.
- e. Fittings shall be the same material as pipe for PVC pipe, and insert fittings for polyethylene pipe.
- f. Sleeves under parking area and driveway paving shall be Schedule 40 PVC Pipe. All other sleeves shall be Class 200 PVC Pipe. Sleeve diameter shall be two times larger than pipe installed in sleeve. Extend sleeves 6 inches minimum beyond walk or pavement edge.
- g. Sprinkler heads shall conform to requirements shown on Drawings as to type, size, radius of throw, pressure, and discharge. Equals must be approved by Landscape architect before bidding. Each type of head shall be product of single Manufacturer.
- h. Sprinkler risers Toro "Funny-pipe" or equal, unless shown otherwise on drawings. Length shall be 14 inches minimum and 24 inches maximum.
- i. Automatic sprinkler control wiring shall be UF-UL listed, color coded copper conductor direct buried cable sized according to controller manufacturer's recommendations. Do not use green color coded wire.
- j. Waterproof wire connectors shall be Blazing BVS series, as approved by controller mfg.
- k. Automatic controller shall make and model shown on Drawings.
- l. Electric valves shall be make and model shown on Drawings.
- m. Stop valves shall be bronze construction, 150 pound class, threaded connections as shown on drawings.
- n. Backflow prevention device shall be make and model shown on Drawings or as required by local code.
- o. Valve boxes shall be rectangular, heavy duty, with lock top or snap top lids. Boxes shall be large enough for easy removal or maintenance of valves. Use extensions as required.

Approved Manufacturers: Ametek or Brooks.

p. Other components shall be as recommended by Manufacturer and subject to Owner's review and acceptance. Provide components necessary to complete and make system operational.

10. During construction and storage, protect materials from damage and prolonged exposure to sunlight. Work damaged during course of work of this Section shall be replaced or repaired at no additional cost to Owner. If damaged work is new, repair or replacement shall be performed by installer of original work. Do not cut existing tree roots measuring over 2 inches in diameter in order to install sprinkler lines.

11. Drawings show arrangement of piping. Should local conditions necessitate rearrangement, obtain written approval of Owner before proceeding with installation.

12. Pulling of polyethylene pipe is permitted; pulling PVC pipe is not permitted.

13. For PVC pipe, over-excavate trenches 2 inches and bring back to indicated depth by filling with rock-free soil or sand. Separate out rocks larger than 1/2 inch in any direction uncovered in trenching operation from excavated material and remove from areas to receive landscaping. Cover PVC pipe both top and sides with 2 inches of rock-free soil. Remainder of backfill to within 5 inches of finish grade shall be site soil. Top 5 inches of backfill shall be topsoil. Do not cover pressure main fittings until landscape architect has inspected and approved system.

14. Sleeve water lines and control wires under walks and paving. Use one water pipe maximum per sleeve. Sleeve control wiring in separate sleeve. Position sleeves with respect to buildings and other obstructions so pipe can be easily removed.

15. Install piping so system can be completely drained using compressed air. Slope pipes under parking areas or driveways to drain outside these areas.

16. Install pipe in manner to provide for expansion and contraction as recommended by Manufacturer. Unless otherwise indicated on Drawings, install main lines with minimum cover of 18 inches based on finished grade. Install lateral lines with minimum of 12 inches of cover based on finish grade. Install pipe and wires under driveways or parking areas in specified sleeves 18 inches minimum below finish grade or as shown on Drawings.
17. Locate no sprinkler head closer than 12 inches from building foundation. Heads immediately adjacent to lawn edges, walks, or curbs shall be one inch below top of lawn edge, walk, or curb and spaced with a consistent 3 inch clearance between head and lawn edge, walk, or curb.
18. Cut plastic pipe square. Remove burrs at cut ends prior to installation so unobstructed flow will result. Make solvent weld joints as follows:

- a. Do not make solvent weld joints if ambient temperature is below 40 deg F.
- b. Clean mating pipe and fitting with clean, dry cloth and apply one coat of P-70 primer to each.
- c. Apply uniform coat of 711 solvent to outside of pipe. Apply solvent to fitting in a similar manner. Re-apply light coat of solvent to pipe and quickly insert into fitting.
- d. Twist pipe or fitting a quarter turn to insure even distribution of solvent and make sure pipe is inserted to full depth of fitting socket. Hold in position for 15 seconds minimum or long enough to secure joint.
- e. Wipe off solvent appearing at outer shoulder of fitting. Do not use excessive amount of solvent that may cause obstruction to form on inside of pipe.
- f. Allow joint to set at least 24 hours before applying pressure to PVC pipe.

19. Tape threaded connections for mainline and valves with teflon tape.
20. Do not install polyethylene pipe which has been kinked or damaged.
21. Install controller, control wires, and valves in accordance with Manufacturer's recommendations and according to electrical code.

22. Install valves in rectangular plastic boxes with reinforced heavy duty plastic covers. Do not install more than two valves in single box. Place concrete paver below valve box at each corner. Install gravel below paver to depth of excavation. Install valve box over soil so all parts of valve can be reached for service. Set cover of valve box one inch above finish grade. Valve box shall be reasonably free from dirt and debris.
23. Install control wiring adjacent to mainline. Install a 24" loop of all control wiring in each valve box. Use waterproof wire connectors at splices and locate all splices within valve boxes. Use white or gray color for common wire and other color for all other wire. Each common wire may serve only one controller. Install one extra control wire from panel continuously from valve to valve throughout system similar to common wire for use if a wire fails. Extra wire shall be different color than all other wires and shall be marked in each control box as an extra wire.
24. Backflow prevention device shall be installed in accordance with codes.
25. Before installation of sprinkler heads or emitters, open control valves and use full head of water to flush out system. Set sprinkler heads and quick-coupler valves perpendicular to finish grade.
26. Test pressure mainline at 100 psi minimum for 1 hour minimum and make certain there are no leaks before backfilling. Notify Landscape architect 2 working days minimum before testing. Adjust heads to proper grade when turf is sufficiently established to allow walking on it without appreciable harm. Such lowering or raising of heads shall be part of original contract with no additional cost to Owner. Adjust sprinkler heads for proper distribution and trim so spray does not fall on building. Adjust watering time of valves to provide proper amounts of water to all plants.

SOIL PREPARATION

1. Take care to avoid conditions which will create hazards. Post signs or barriers as required.
2. After topsoil has been approved and accepted by landscape architect, install fertilizer and compost. Compost shall be Pure Elements Compost available from Terra Firma Organics.
3. Install 16-16-8 fertilizer in lawn and seeded areas at the rate of 10 lbs. per 1,000 sq. ft. Fertilizer may be applied during the Hydroseeding process in seeded areas.
4. Install compost in lawn and seeded areas with a mixture of one part compost to three parts topsoil.
5. Robotill fertilizer and compost into top 4 inches of top soil until homogeneous mixture results.
6. In areas where topsoil is to be deeper than 6", thoroughly mix compost into topsoil before installing topsoil.
7. Notify Landscape Architect two working days minimum prior to rototilling in any soil additive.
8. Provide adequate means for protection from damage through excessive erosion, flooding, heavy rains, etc. Install wattles as required to direct runoff to established drainage structures. Install U.S. Erosion, or equal, 12" wattles made with 100% weed free wheat straw. Repair or replace damaged areas.

PLANTINGS

1. Plants shall conform to requirements of Plant List and Key on Drawings and to "Horticultural Standards" as to kind, size, age, etc.
2. Guarantee shrubs, trees, ground covers, and vines meeting approval at Substantial Completion to live and remain in healthy condition for one year minimum from date landscape installation is accepted as complete.
3. Plant names used in Plant List shall conform to "Standardized Plant Names" by American Joint Committee on Horticultural Nomenclature except in cases not covered. In these instances, follow custom of nursery trade. Plants shall bear a tag showing the genus, species, and variety of at least 10 percent of each species delivered to site.
4. Plants shall be sound, healthy, vigorous, free from plant disease, insect pests or their eggs, noxious weeds, and have healthy natural root systems. Container stock shall be well established and free of excessive root-bound conditions. Do not prune plants or top trees prior to delivery.
5. Plant materials shall be subject to approval by landscape architect as to size, health, quality, and character. Root trees or shrubs are not acceptable. Provide plant materials from a licensed nursery.
6. All plantings are subject to approval by landscape architect before delivery to site.
7. Measure height and spread of all plant materials with branches in their normal position as indicated on Drawings or Plant List. Measurement should be average of plant, not greatest diameter. For example, plant measuring 15 inches in widest direction and 9 inches in narrowest would be classified as 12 inch stock. Plants properly trimmed and transplanted should measure same in every direction. Measure caliper of trees 6 inches above surface of ground. Where caliper or other dimensions of plant materials are omitted from Plant List, plant materials shall be normal stock for type listed. Plant materials larger than those specified may be supplied, with prior written approval of landscape architect, if complying with Contract Document Requirements in all other respects, and if at no additional cost to Owner, and if sizes of roots or balls are increased proportionately.
8. Plant materials shall be symmetrical or typical for variety and species and conform to measurements specified in Plant List. Well grown material will generally have height equal to or greater than spread. However, spread shall not be less than 2/3 height.
9. Planting Mix shall be a mixture of three parts topsoil and one part commercial, weed free compost equal to Terra Firma Organics Compost.
10. Planting Tablets shall be 21 gram Agriform 20-10-5.
11. Tree stakes shall be 2" diameter, 8' long Lodgepole pine. Use flex strap tree ties. Tree Guys shall be 1/2" steel stakes and 1/2" poly rope with new rubber hose to protect tree.
12. Bark Top Dressing Mulch shall be 3" deep "medium bark" douglas fir bark in shrub areas and 1" deep "Soil pep" over 2" of planting mix in perennial planting areas, unless shown otherwise on drawings.
13. Stone Top Dressing Mulch shall be as shown on drawings.
14. Weed barrier fabric shall be DeVitt 4.1 oz. 20 year woven polypropylene, or equal.
15. Before proceeding with work, check and verify dimensions and quantities. Report variations between Drawings and site to landscape architect before proceeding with work.
16. Plant totals are for convenience only and are not guaranteed. Verify amounts shown on Drawings. All plantings shown on Drawings are required unless indicated otherwise.
17. Take care and preparation in work to avoid conditions which will create hazards. Post signs or barriers as required. Provide adequate means for protection from damage through excessive erosion, flooding, heavy rains, etc. Repair or replace damaged areas.
18. Layout individual tree and shrub locations and areas for multiple plantings. Stake locations and outline areas. Secure landscape architect's acceptance before planting. Make minor adjustments as may be requested.

19. Interface with other work. Do not plant trees and shrubs until major construction operations are completed and until sprinkler system is completed and approved.
20. If underground construction work or obstructions are encountered in excavation of planting holes, landscape architect will select alternate locations.

21. Install plants in holes at least three times greater in diameter than root ball or container. Holes for shrubs shall be deep enough to allow one inch of tamped planting mix beneath root ball. Holes for trees shall be one inch deeper than bottom of root ball. Do not use soil that has been taken from excavation of holes for landscaping purposes.
22. Remove binders and containers. Remove top 1/3 of wire basket, burlap and plastic twine binders.
23. Plant immediately after removing binding material and containers. Place trees and shrubs in holes so, after watering and settling, top of root ball shall be approximately one inch higher than finished grade. Properly cut off broken or frayed roots. Center plant in hole and backfill with specified planting mix. Make ring of mounded soil around hole's perimeter to form a temporary watering basin.
24. Install planting tablets in relation to root ball as recommended by manufacturer in plant pit as follows:

- a. One Gallon Shrub - 1 Tablet
- b. 5 Gallon Shrub/Tree - 3 Tablets
- c. 24" Shrub/Tree - 6 Tablets
- d. 36" Tree - 8 Tablets
- e. 48" Tree - 12 Tablets
- f. 60" Tree - 18 Tablets
- g. 90" Tree - 24 Tablets

25. Settle by firming in positions of plants as directed by landscape architect. Thoroughly water trees and shrubs immediately after planting.
26. Install adequate support for trees. Guy trees 3" caliper or larger. Place tree guys 6 to 12 inches below crotch of main deciduous tree canopy.
27. After plantings are accepted by landscape architect, remove temporary watering basins and rake planting area smooth. Install weed barrier fabric as indicated on drawings. Mulch shrub planting areas with specified top dressing mulch 3" deep unless shown otherwise. Install soil pep top dressing mulch 1" deep in perennial planting areas unless shown otherwise. Place top dressing mulch to uniform depth and rake to neat finished appearance.

SODDING

1. Cut and lift sod by approved methods. Cut sod in pieces approximately 3/4 to one inch thick. Roll or fold sod so it may be lifted and handled without breaking or tearing and without loss of soil.
2. Schedule deliveries to coincide with topsoil operations and laying. Keep storage at job site to minimum without causing delays. Deliver, unload and store sod on pallets within 24 hours of being lifted. Do not deliver small, irregular or broken pieces of sod.
3. During wet weather, allow sod to dry sufficiently to prevent tearing during lifting and handling. During dry weather, protect sod from drying. Water as necessary to insure vitality and to prevent excess loss of soil in handling. Sod which dries out will be rejected.
4. Do not commence installation of sod until planting and sprinkler system work has been completed and approved. Do not install sod after October 31 or before March 15.
5. Sod shall be superior sod grown from certified, high quality, seed of known origin or from plantings of certified grass seed. Assure satisfactory genetic identity and purity. Assure over-all high quality and freedom from noxious weeds or an excessive amount of other crop and weedy plants at time of harvest. Sod shall be a blend of three or more types Kentucky Bluegrass for turf. Native grass sod shall be as shown on drawings.
6. Take care and preparation in work to avoid conditions which will create hazards. Post signs or barriers as required. Provide adequate means for protection from damage through excessive erosion, flooding, heavy rains, etc. Repair or replace damaged areas. Keep site well drained and landscape excavations dry.
7. Seven days maximum prior to sodding:

- a. Loosen area 4 inches deep, dampen thoroughly, and cultivate to properly break up clods and lumps. Remove clods, rocks, weeds, roots and debris.
- b. Install topsoil to specified depth and thoroughly mix amendments into top 4" of topsoil.
- c. Grade and shape area to receive sod to bring surface to true uniform planes free from irregularities and to provide drainage and proper slope to catch basins.

d. After lawn areas have been prepared, take no heavy objects over them except lawn rollers.

e. After preparation of lawn areas and with topsoil in semi-dry condition, roll lawn planting areas in two directions at approximately right angles with approved grading equipment.

f. Rake or scarify and cut or fill irregularities that develop as required until lawn area is true and uniform, free from lumps, depressions, and irregularities.

8. Final grade of soil after sodding of lawn areas and wildflower sod areas is complete shall be one inch below top of adjacent pavement of any kind.

9. Lay sod during growing season. Sodding during dry summer period, at freezing temperatures, or over frozen soil is not acceptable. Lay sod within 36 hours of being lifted. Lay sod in rows with joints staggered. Butt sections closely without overlapping or leaving gaps between sections. Cut out irregular or thin sections with a sharp knife. Lay sod flush with adjoining existing sodded surfaces. Do not sod slopes steeper than 3:1. Consult with landscape architect for alternate treatment.

10. After sodding of lawn is complete roll horizontal surface areas in two directions perpendicular to each other. Repair and re-roll areas with depressions, lumps, or other irregularities. Heavy rolling to correct irregularities in grade will not be permitted.

11. Water sodded areas immediately after sod laying to obtain moisture penetration through sod into top 4" inches of topsoil.

12. Sodded areas will be accepted at final inspection if sodded areas are properly established, if sod is free of bare and dead spots and without weeds, if no surface soil is visible when grass has been cut to height of 2 inches, and when sodded lawn areas have been mowed a minimum of once.

13. Areas sodded after October 1st will be accepted following spring (July 1st) approximately one month after start of growing season if specified conditions have been met.

14. Replace damaged areas at no additional cost to Owner.

15. Immediately clean up any soil or debris spilled onto pavement and dispose of all deleterious materials.

16. Provide adequate protection of sodded areas against trespassing, erosion, and damage of any kind. Remove this protection after sodded areas have been accepted by landscape architect.

MAINTENANCE

1. Maintain landscaping from completion of landscape installation to 30 days after Substantial Completion Meeting. If Substantial Completion Meeting occurs between September 1st and May 1st, then maintenance period shall extend to the following July 1st.
2. Maintain seeded areas until seed has germinated and filled in. Water as required. Re-fertilize using 16-16-0 at the rate of 10 lbs. per 1,000 s.f. three weeks after seeding.
3. Maintain sodded native grass areas until lawn complies with specified requirements and throughout maintenance period. Water sodded areas in sufficient quantities and at required frequency to maintain sub-soil immediately under sod continuously moist to 3 to 4 inches deep. Mow once at the end of growing season. Mow to a height of 6". A minimum of one mowing is required. Re-fertilize at the rate of 10 lbs. per 1,000 s.f. three weeks after sodding.
4. Maintain sodded turf areas until lawn complies with specified requirements and throughout maintenance period. Water sodded areas in sufficient quantities and at required frequency to maintain sub-soil immediately under sod continuously moist to 3 to 4 inches deep. Mow turf grass the first time when it reaches 3 inches high. Continue to mow at least once each week throughout maintenance period. Remove clippings. A minimum of one mowing is required. Re-fertilize at the rate of 10 lbs. per 1,000 s.f. three weeks after sodding.
5. Maintain trees, shrubs and groundcover by pruning, cultivating, and weeding as required for healthy growth. Tighten and repair stake and guy supports and reset trees and shrubs to proper grades or vertical positions as required. Spray as required to keep trees and shrubs free of insects and disease. Provide supplemental water by hand as needed in addition to water from sprinkling system.
6. Landscape architect will inspect landscaping installation approximately 2 weeks before Substantial Completion. Replace landscaping that is dead or appears dead as directed by Landscape architect within 10 days of notification and before Substantial Completion.
- a. Seeded areas that do not germinate and fill in shall be re-seeded and guaranteed and maintained an additional 30 days from date of re-seeding.
- b. Sodded lawn that does not live shall be replaced and guaranteed and maintained an additional 30 days from date of replacement.

SNOW KING ZIP LINE TOWER
SNOW KING RESORT
JACKSON, WYOMING

L1.2



ZIP-FLYER PROPRIETARY
THIS DOCUMENT AND THE DATA
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Fractions: +/- 1/16
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.XX = +/- 0.01
.XXX = +/- 0.005
ANGLES = +/- 0.5°
BREAK SHARP EDGES .010-.025



DRAWN BY: Luc Trentesaux DATE 12/8/16
CHECKED BY: DATE
ENGINEER: DATE
PROJECT NAME/NUMBER:
CUSTOMER NAME/NUMBER:
PART CLASSIFICATION:
Filename: Draw2.slddrw

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DESCRIPTION
SNOWKING LANDING
PART NUMBER SN-LAN-01 REV B
SCALE: 1:10 SHEET 1 Of 1



April 2, 2020

Ryan Stanley
Vice President
Snow King Mountain Resort
Jackson, WY 83001

Tyler Sinclair
Town of Jackson Community Development Director
PO Box 1687
Jackson, WY 83001

RE: Gondola CUP Additional Information

Dear Tyler,

I am writing to provide additional information to accompany the submission of the Snow King Gondola Conditional Use Permit as requested by the planning department.

If all approvals are received in the coming year, we anticipate construction to commence on the proposed gondola project in the spring of 2021.

A complete lighting plan for construction will be submitted with the building and grading plans as part of the grading permit for the project; however, we would like to provide some additional information on the proposed lighting changes for night skiing. Currently, nearly all of the lights on the lower portion of the mountain on the Summit lift side are located on the lift towers of the Summit and Cougar lifts. The current lighting on in this area is below standards for night skiing in the industry due to the relatively few magnetic induction lights that are relatively far apart.

In 2014, Snow King Mountain worked with the Jackson Hole Ski and Snowboard Club and Energy Conservation works to replace the old metal halide lights on this side of the mountain with magnetic induction lights. These "snow bright" magnetic induction lights are 40% more energy efficient and produce 60% less light pollution, substantially reducing the impacts on night lighting on residents and wildlife. The system allows for lower light intensity without sacrificing human visual perception. The diffuse, soft light reduces reflection and wasted light while maximizing the light needed by skiers and riders. The output system allows light to be directed at the snow at such an angle that is transmitted laterally. This technology replaces intense blotches of light with uniform slope illumination. As a result, glare is reduced for the neighboring community and the visual experience for users is enhanced.

While this project was completed and all the lights in this area were replaced, the ultimate goal of achieving a first class night lighting system for ski race training was not achieved due to budget limitations that forced the project to concentrate on simply replacing existing lights and not executing the lighting plan that was designed to achieve this objective. Due to the elimination of a substantial number of lift towers associated with this project we have proposed to add a number of fixed light poles on the mountain



as suggested in the original lighting plan for the ski club project in 2014. Upgrading the light to the proposed plan entails adding an additional 13-20 free standing light poles on the mountain depending on the ability to place lights on trees in certain locations and approximately 30 additional lights beyond the existing number of lights in this area. Each of these lights is 300 watts. Trees will be used wherever possible in order to minimize additional obstacles on the mountain; however, in order to create a quality night skiing experience, the consistent spacing of lights is essential and as such additional poles are required.

We would like to further explain why no additional year-round employees will be generated by this development as discussed in the application. We typically employ two lift operations and maintenance managers, one supervisor, and five maintenance individuals for the operation of our 3 ski lifts and two magic carpets. This team is qualified to maintain and operate the proposed gondola in addition to providing training to the gondola operators. The proposed gondola project involves eliminating both the Cougar lift and Summit lift and replacing them with a detachable gondola. Both a gondola and lift require the same number of seasonal lift operators, and therefore we expect to have a reduction in the number of seasonal employees associated with this project. We do not anticipate any change with respect to year-round employees for the maintenance of the gondola as we will use the additional bandwidth from maintaining one less lift to do additional required gondola maintenance. When this analysis is entered into the employee housing calculation formula no additional employee housing is required.

Sincerely,

A handwritten signature in blue ink that appears to read "Ryan Stanley".

Ryan Stanley

March 26, 2020

PG/19-262

Ryan Stanley
Snow King Mountain Resort
Via email

**RE: Proposal/Letter Agreement for Geotechnical Investigation, New
 Gondola Base Station, Snow King Mountain**

Ryan:

As requested, this is a proposal for the performance of a geotechnical investigation for the proposed Gondola Base Station.

PROJECT DESCRIPTION

The proposed gondola base is located at the base of Snow King mountain. The existing Cougar lift base station will be removed and the Gondola base constructed in roughly the same location. Existing site topography consists of relatively steep manmade cut slopes to the east leading up to the events center and native undisturbed slopes of less than 20% to the south. Geologic mapping shows surficial deposits of wind-deposited loess at the base of the mountain and the project site. Wyoming Geologic Survey landslide mapping the multiple slump/multiple flow type landslide on the north face of Snow King is located about 200 feet upslope of the site.

Proposed grading will consist of a flat pad for the gondola base and excavated cuts forming a compression pit upslope to the south. Slopes of 3:1 form the pit on the south and blend into the existing steeper cuts to the east. Our project experience in the area and geologic mapping inform our expectation of subsurface profiles consisting of loess overlying stony colluvium. Stability of the local and global slopes is anticipated to be satisfactory based on site geometry and anticipated soil profiles.

SCOPE OF SERVICES

Our proposed services are as follows:

1. **Underground Utility Locates:** Nelson Engineering will call One Call of Wyoming to notify external utility companies of the proposed test pit excavations. External utilities typically include the Town of Jackson, Lower Valley Energy, gas, and telecommunications.
1. **Subsurface Investigation:** The investigation will consist of drilling three borings. Borings will be located from south to north as follows: within the base footprint, near the upper extent of the proposed compression pit, upslope of the pit grading south of the Summit base station. Boring depth will be determined by preliminary slope

stability analysis failure surfaces. Borings will be advanced with a truck mounted drill rig using hollow and or solid flight augers. Minor grading performed by Snow King may be required to provide truck drill rig access. Split spoon drive samples will be collected at designated intervals throughout the drilling process. Shelby tube and California samplers will be utilized to collect relatively undisturbed samples in softer soils. Drilling and sampling will be supervised by a professional geologist or geotechnical engineer. Drilling conditions, groundwater conditions, and samples will be carefully logged; selected samples will be laboratory tested as deemed necessary to determine engineer design parameters. A flush-mount monitoring well will be installed in a boring.

2. **Geotechnical Report:** The final work product will be a geotechnical report conforming to the International Building Code 2018 containing descriptions of general subsurface conditions including soil types and groundwater conditions, geotechnical foundation recommendations, assessments and general earthwork recommendations. **Static and seismic global slope stability analysis will be performed to verify local slope stability in the Snow King Base area.**

FEE AND PAYMENT TERMS

Nelson Engineering will perform the proposed scope of services described in above for a lump sum fee of **\$14,900**. You will receive monthly billings for work in progress based upon estimated progress. This financial arrangement is based upon the prompt payment of our bills and orderly, continuous progress of the project. Nelson Engineering reserves the right to stop work if invoices remain unpaid 60 days past the date of the invoice. Past due invoices will be charged finance charges in accordance with the terms set forth in the General Provisions to Supplement Letter of Agreement Between Engineer and Client attached as Exhibit A.

PERFORMANCE SCHEDULE

Work to be performed in the summer or fall of 2020. Drill rig scheduling may require one month or more lead time. Report delivery will be within one month of completing the field investigation. If there are protracted delays for reasons beyond our control, we will negotiate with you an equitable adjustment of the completion dates and of our compensation, taking into consideration the impact of such a delay including, but not limited to, reallocation of staff and changes in price indices and pay scales applicable to the period when services are in fact being rendered. Additional services, if requested, can be considered just cause for Nelson Engineering to renegotiate the date for completion of the services.

CLIENT RESPONSIBILITIES

As the Client, you agree to provide Nelson Engineering with all pertinent and available project information and to promptly inform Nelson Engineering of any changes in the work that pertain to our scope of services. Additional Client Responsibilities are set forth in the attached General Provisions.

ADDITIONAL SERVICES

Additional services will be performed after your approval on a time and materials basis or for an agreed upon lump sum fee. Please note that revisions requested to completed work will be considered additional services.

AGREEMENT

This proposal can serve as a Letter of Agreement for services. This proposal together with Exhibit A, General Conditions between Nelson Engineering and Client represent the understanding between you and Nelson Engineering with respect to the project and may only be modified in writing signed by both parties. If it satisfactorily sets forth your understanding of our agreement, we would appreciate your signing in the space provided below and returning one set of originals to us as soon as possible.

We appreciate the opportunity to submit this proposal and to be of service to you. Please call if you have any questions.

Sincerely,



Philip Gyr, PE
Geotechnical Engineer/Principal



Dave Dufault PE
President

Encl.

Proposal Accepted by:

(Printed Name)

(Signature)

(Date)

GENERAL PROVISIONS TO AGREEMENT BETWEEN NELSON ENGINEERING AND CLIENT

1. **Authorization to Proceed:** The signing of this Agreement by the Client named thereon (hereinafter referred to as CLIENT) and Nelson Engineering (hereinafter referred to as NE) will serve as written authorization for NE to perform the scope of services called for in this Agreement. However, charges to the project by NE may precede the date of the signing of this Agreement.
2. **Extent of Agreement:** These Provisions, together with the attached Agreement and any specifically listed Exhibits represents the entire and integrated Agreement between CLIENT and NE. This Agreement may be altered only by written instrument signed by both CLIENT and NE. Work beyond the scope of services or redoing of any part of the project through no fault of NE, shall constitute extra work and shall be paid for on a time-and-materials basis in addition to any other payment provided for in this Agreement. In the event NE is prevented from performing its scope of services in whole or in part under this Agreement through no fault of NE, or in the event CLIENT requests NE to temporarily suspend the rendering of its services, the fee of NE for extra services rendered as a result of such delay shall be those set forth in the Staff Charge Rates and Reimbursable Expenses of NE in effect at the time the services, as resumed, are rendered. Any fixed price amounts shall be renegotiated to take into consideration mobilization and demobilization and any changes applicable to the period when services, as resumed, are in fact being rendered.
3. **Payment:** In the event the compensation of NE is not elsewhere herein provided, NE shall be compensated for its service hereunder according to NE's Staff Charge Rates and Reimbursable Expenses in effect at the time the services are rendered. Invoices/statements will be issued monthly. Each billing shall be due and payable upon receipt. In the event CLIENT fails to make any payment due NE within sixty (60) days after NEs billing date, the unpaid amount due NE shall bear a late charge at the rate of 1-1/2 percent per month (18% Per Annum) from date of billing until paid and, in addition, NE may suspend or terminate its services under this Agreement until it has been paid in full all amounts due for its services and expenses. Any known disagreement, dispute, or dissatisfaction of NE services shall be resolved at the time they arise rather than waiting until the final payment. The progress billings, when paid, represent acceptances by CLIENT of the invoiced services performed by NE insofar as CLIENT has knowledge of the services provided.
4. **Disputes:** In the event that a dispute should arise relating to the performance of the services to be provided under this Agreement, and should that dispute result in litigation, it is agreed that the prevailing party shall be entitled to recover all reasonable costs incurred, including statutory court costs and reasonable and necessary attorneys' fees. Any litigation resulting from a dispute covered by this Agreement shall be heard in a court of competent Jurisdiction in Teton County, Wyoming. NE shall carry on NE's work, maintain its progress, and fulfill its Agreement, in spite of the existence of, and during, any dispute and/or legal proceedings with respect to this Agreement, provided that payment for these services is provided by CLIENT to NE in accordance with this Agreement. All claims between the parties shall be deemed relinquished unless filed within one (1) year after substantial completion of the services.

5. **Warranty and Liability:** Services performed by NE within the limits prescribed by this Agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. Unless otherwise expressly stated or agreed in writing between the parties, no other warranty or representation, either expressed or implied, is included or intended under this Agreement.

It is assumed that the work site is free of hazardous materials. When hazardous materials are known, assumed or suspected to exist at a site, NE is required to take appropriate precautions to protect the health and safety of its personnel, to comply with applicable laws and regulations, and to follow procedures that NE deems prudent to minimize physical risks to its employees and the public. By joining in this Agreement, CLIENT warrants that NE will be notified of any known or suspected occurrences of hazardous materials at the project site. CLIENT will notify NE of any known or suspected occurrences of hazardous materials at the project site.

By entering into this Agreement, CLIENT recognizes that subsurface conditions may vary from those encountered at the location where borings, surveys, or explorations are made by others, for the project underway. Data, interpretations and recommendations of NE are based solely on the information available. NE will be responsible for those data, interpretations, and recommendations, but shall not be responsible for the interpretation by others of the information developed. Where NE is provided (for the purposes of consultation or design) with data developed by others, NE will not be responsible for the accuracy of said data, only for the conclusions made in good faith of that data by NE. Should subsequent information indicate that such data provided to NE is incorrect, NE is not responsible for any design or consultation conclusions which were made based upon such incorrect information.

6. **Insurance:** NE represents and warrants that it and its staff are protected by workers compensation insurance and that NE has public liability and property damage insurance policies. Certificates for all such policies of insurance shall be provided to CLIENT, upon request in writing. Within the limits and conditions of such insurance, NE agrees to indemnify and save CLIENT harmless from and against any loss, damage, or liability arising from any negligent act or omission by NE in the performance of NE's professional services. NE shall not be responsible for any loss, damage, or liability arising from any act, omission, or fault of CLIENT, or other third parties.

7. **Limitation of Liability:** Notwithstanding any other provision of this Agreement, due to the relative risks and benefits involved with the Project and the disproportionate nature of the risks compared to the amount to be paid under this Agreement, CLIENT agrees to limit NE's liability, including the liability of NE's officers, employees, agents, subconsultants, and others for whom NE is legally liable, due to professional negligence and to any liability arising out of or relating to this Agreement, to a maximum of NE's engineering services fee. It is the express intent of this provision to limit the potential liability of NE to the fee for services. Under no circumstance shall either party be liable to the other for consequential, incidental or indirect damages, including, but not limited to, loss of use or loss of profit.

8. **Fiduciary Service:** CLIENT confirms that neither NE nor any of NE's subconsultants or subcontractors has offered any fiduciary service to the CLIENT and no fiduciary responsibility shall be owed to the CLIENT by the NE or any of NE's subconsultants or subcontractors as a consequence of NE's entering into this Agreement with the CLIENT.
9. **Construction Phase Service:** When NE acts as CLIENT's representative during any construction phase, unless otherwise agreed upon in writing, NE does not have the authority or responsibility to supervise construction or stop the construction work. NE is neither a guarantor of CLIENT's performance nor a surrogate surety for CLIENT. If the work is to be stopped for whatever reason, CLIENT must take that action based on full consideration of the legal consequences.
10. **Responsibility:** NE shall not be responsible for acts of any party or parties involved in the services covered by this Agreement other than its own. NE is not and shall not be responsible for CLIENT's or any of its subcontractor's safety precautions, means, methods, techniques, sequences, materials, workmanship, or procedures. NE makes no warranties, express or implied, regarding the professional advice or services furnished by others. Nothing contained in this Agreement shall create a contractual relationship with, a duty toward, or a cause of action in favor of a third party against either NE or CLIENT. This Agreement is not intended to confer a separate and distinct benefit upon any third party.
11. **Ownership and Maintenance of Documents:** All materials resulting from NE's efforts on this project, including documents, calculations, maps, photographs, drawings, computer printouts, notes, and any other pertinent data are instruments of NE's service, but unless otherwise specified in the scope of services shall be owned by CLIENT. In any event, NE shall have the right to retain copies of all said instruments of service.

NE shall maintain for CLIENT all such materials and data in kind or on disc, for a period of not less than two years after completion of the project. CLIENT shall specify in advance and be charged for all arrangements for special or extended period maintenance of such materials by NE.
12. **Re-Use Prohibited:** All reports, design, and other materials resulting from NE's efforts on this project are not intended or represented to be suitable for reuse by CLIENT, or others on extensions or modifications of this project or any other project. Reuse of said reports, designs or other materials by CLIENT on such extensions, modifications or other project without written permission or adaptation by NE for the specific purpose intended shall be at the user's sole risk, without liability on NE's part, and CLIENT agrees to indemnify and hold harmless NE from all claims, damages, and expenses including attorney's fees arising out of such reuse. Any reuse or adaptation of the instruments of service occurring with NE's written permission shall entitle NE to further compensation in amounts to be agreed upon with CLIENT.
13. **Termination:** This Agreement may be terminated by either party by not less than ten (10) days written notice to the other party specifying a substantial failure to perform in accordance with the terms of this Agreement through no fault of the notifying party. Such

termination shall not be effective if that substantial failure is capable of and has been remedied before expiration of the time specified in the written notice. If this Agreement is terminated, NE shall be paid for services performed to the termination notice date plus reasonable termination expenses.

In the event of termination or suspension for more than three (3) months prior to completion of all designs or reports contemplated by this Agreement, NE may perform such analyses and prepare records as are necessary to complete appropriate files and may also prepare a report on the services performed to the date of notice of termination or suspension. The expenses of termination or suspension shall include all direct costs of NE in completing such analyses, records, and reports.

14. **Assignments and Subcontracts:** Unless identified in the scope of services, neither party to this Agreement shall assign, subcontract, or otherwise transfer its rights or obligations hereunder without prior written consent of the other party.
15. **Compliance with Laws:** Any provisions of this Agreement held in violation of any law or ordinance shall be deemed stricken, and all remaining provisions shall continue valid and binding upon the parties. CLIENT and NE shall attempt in good faith to replace any invalid or unenforceable provisions of this Agreement with provisions which are valid and enforceable and which come as close as possible to expressing the intention of the original provisions.
16. **Independent Contractor Status:** Nothing in this Agreement shall construe NE or any of its employees or agents to be CLIENT employees, agents or representatives. NE shall be an independent contractor and shall have responsibility for and control over the details and means for performing its services. NE shall be subject to the directions of CLIENT only with respect to the scope of services and the general results required.
17. **Confidentiality:** NE shall hold confidential all business or technical information obtained from CLIENT or its affiliates or generated in the performance of services under this Agreement. NE shall not disclose such information without CLIENT's consent except to the extent required for: 1) performance of services under this Agreement; 2) compliance with professional standards of conduct for preservation of the public safety, health, and welfare; 3) compliance with any court order or other governmental directive; and/or 4) protection of NE against claims or liabilities arising from performance or services under this Agreement. NE's obligations hereunder shall not apply to information in the public domain or lawfully acquired on a non-confidential basis from others.

April 10, 2020

DD/19-262-01

Town of Jackson Planning and Public Works
Jackson, WY

ATTN: Tyler Sinclair & Brian Lenz
Re: Snow King Gondola CUP – Supplemental Information regarding Water Supplies

Dear Tyler and Brian:

This letter is to provide further information in regards to the water supply information originally submitted with the CUP for the Snow King Gondola and Zip Line Project.

The original submitted information included the following:

As part of the relocation of the snowmaking pump station, an 8 inch waterline loop is proposed to be installed in order to increase snow making capacity. Modeling results of the addition of this 8 inch loop to the Town's water system indicates that installation of the waterline loop can increase snow making capacity from the current 600 gallons per minute to up to 2400 gallons per minute. Modeling results indicate that snow making demands of 2400 gallons per minute at the new pump station location will result in a 20 psi delivery pressure at the pump house while also providing maximum day demands elsewhere in the zone at no less than 45 psi. The proposed waterline loop will extend along the east and south side of the Snow King Event Center, where it serves the pump station on the south side, and completes the loop on the west side of the events center and connects back to the 8 inch main near the current connection of the existing 6 inch service. All water use, including snow making and irrigation, on the proposed loop will be metered.

To supplement and provide greater understanding about Snow King's intent with the information submitted, please consider the following:

Snow King's operation relies heavily on snowmaking. Natural snowfall has historically been insufficient, particularly in early season, to enable the Resort to provide skiing services without supplemental snow via snow making. Early season skiing at Snow King is important for not only Snow King's business and is also critical to the Jackson Hole Ski Club and local ski programs, but it also provides additional benefit to other business in the community by attracting other skiers and ski teams that desire a location for early season training. That said, it is Snow King's desire to improve their snow making capacity by increasing water supply. More water means more snow (as long as weather is cold enough). And more water enables snow to be put down on the ground faster.

It should be understood that snow making at Snow King essentially occurs for approximately 6 weeks and typically occurs from mid-October to the end of December when temperatures are suitably cold for productive snow making. It should also be understood that this period of snow

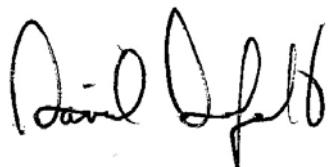
making is outside of the peak water demand season for the Town of Jackson (late spring, summer, and early fall, when locals are using water for irrigation and when the Town population is at its peak with tourists and second homeowners). Because snow making is occurring off the seasonal peak, and also often at night when domestic demands are also low, the Town's system's capacity is capable to provide Snow King with additional water flow for snow making beyond the 600 gpm currently supplied.

The addition of a new 8-inch water main, and potential loop around the ice rink, with the waterline is proposed under the CUP. It is a necessity to move the existing pump station in order to install the gondola as currently proposed. Installing a larger capacity service line while relocating the pump station is proposed in order to allow for more snow making capacity within the water service. The preliminary water modeling results, attached, can be further evaluated with Town Engineering and Water Department to better understand the capacity of the Town's system to provide additional supply. This further analysis should include not only calibration of the piping network's hydraulics, but also the demands within the zone that coincide with the time that snow making is occurring. Although the information within the CUP indicates that flows for snow making may be acceptable up to 2400 gpm, it is understood that the proposed new pump station, water supply piping, and metering will ultimately be designed, following CUP approval, to be within an acceptable supply range that the Town water distribution can accommodate while also, of course, meeting all other demands on the system including fire flows.

Finally, it should be noted that Nelson Engineering and Snow King have evaluated other alternatives to provide additional snow making water supply. The alternatives evaluated include drilling a well at the base of Snow King; re-use of the Town thaw well in Karns Meadow and re-implementation of the previously installed dedicated snow making transmission pipeline from Karns to Snow King; and even the possibility of a new well for snow making supply in Leeks Canyon on the south side of Snow King. These evaluations concluded that Snow King is best served, at least at present, by asking the Town to provide additional water supply, potentially up to 2400 gpm. However, at this time, Snow King simply is asking for the CUP to be approved with concurrence by the Town that additional supplies can be provided, with the flow rate of the additional supply be determined and approved with Town Engineering and Water Department concurrence during the construction permit process.

Please let me know if you have any questions.

Sincerely,



Dave Dufault, PE
Senior Project Manager

Encl.

cc. Ryan Stanley

Scenario	2020 Snow King
Max Month	Average August Flows
Flow Demand	800 gpm

ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1230	J-382	6,280.00	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)
385	J-65	6,280.00	157: Central	<Collection: 0 items>	0.6	6,373.00	40.2
521	J-340	6,272.00	158: West	<Collection: 0 items>	1.59	6,369.40	42.1
384	J-66	6,275.00	157: Central	<Collection: 0 items>	6.23	6,372.50	42.2
383	J-67	6,274.00	157: Central	<Collection: 0 items>	8.22	6,372.20	42.5
477	J-166	6,265.00	157: Central	<Collection: 0 items>	0.67	6,368.70	44.9
353	J-102	6,265.00	157: Central	<Collection: 0 items>	4.73	6,370.90	45.8
378	J-73	6,264.00	157: Central	<Collection: 0 items>	9.39	6,371.60	46.6
229	J-106	6,438.00	160: Pine	<Collection: 0 items>	5.73	6,548.90	48
386	J-64	6,261.00	157: Central	<Collection: 0 items>	12.25	6,372.00	48

Scenario	2020 Snow King (to new pump house 8" line)
Max Month	Average August Flows
Flow Demand	1500 gpm
Pump House Elevation	6280

ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1230	J-382	6,280.00	<None>	<Collection: 1 item>	1,500.00	6,330.70	21.9
521	J-340	6,272.00	158: West	<Collection: 0 items>	1.59	6,364.60	40.1
385	J-65	6,280.00	157: Central	<Collection: 0 items>	0.6	6,372.80	40.1
384	J-66	6,275.00	157: Central	<Collection: 0 items>	6.23	6,371.90	41.9
477	J-166	6,265.00	157: Central	<Collection: 0 items>	0.67	6,362.40	42.1
383	J-67	6,274.00	157: Central	<Collection: 0 items>	8.22	6,371.60	42.2
353	J-102	6,265.00	157: Central	<Collection: 0 items>	4.73	6,368.60	44.8
378	J-73	6,264.00	157: Central	<Collection: 0 items>	9.39	6,370.70	46.1
229	J-106	6,438.00	160: Pine	<Collection: 0 items>	5.73	6,546.00	46.7

Scenario	2020 Snow King (to new pump house 12" line)
Max Month	Average August Flows
Flow Demand	2500 gpm
Pump House Elevation	6280

ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1230	J-382	6,280.00	<None>	<Collection: 1 item>	2,500.00	6,325.90	19.8
521	J-340	6,272.00	158: West	<Collection: 0 items>	1.59	6,354.40	35.7
477	J-166	6,265.00	157: Central	<Collection: 0 items>	0.67	6,348.60	36.1
385	J-65	6,280.00	157: Central	<Collection: 0 items>	0.6	6,372.30	39.9
384	J-66	6,275.00	157: Central	<Collection: 0 items>	6.23	6,371.10	41.6
383	J-67	6,274.00	157: Central	<Collection: 0 items>	8.22	6,370.50	41.8
1227	J-381	6,238.00	<None>	<Collection: 0 items>	25.76	6,335.30	42.1
353	J-102	6,265.00	157: Central	<Collection: 0 items>	4.73	6,364.60	43.1

Scenario	2020 Snow King (to new pump house with extra 8" line)
Max Month	Average August Flows
Flow Demand	2500 gpm
Pump House Elevation	6280


ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1230	J-382	6,280.00	<None>	<Collection: 1 item>	2,500.00	6,325.80	19.8
477	J-166	6,265.00	157: Central	<Collection: 0 items>	0.67	6,344.00	34.2
521	J-340	6,272.00	158: West	<Collection: 0 items>	1.59	6,356.50	36.6
385	J-65	6,280.00	157: Central	<Collection: 0 items>	0.6	6,372.40	40
384	J-66	6,275.00	157: Central	<Collection: 0 items>	6.23	6,371.10	41.6
383	J-67	6,274.00	157: Central	<Collection: 0 items>	8.22	6,370.60	41.8
476	J-164	6,245.00	157: Central	<Collection: 0 items>	0	6,344.00	42.8
353	J-102	6,265.00	157: Central	<Collection: 0 items>	4.73	6,365.20	43.3
229	J-106	6,438.00	160: Pine	<Collection: 0 items>	5.73	6,541.60	44.8

Key notes:

Pine Glades High Pressure System

P-140 Closed

P-151 Closed

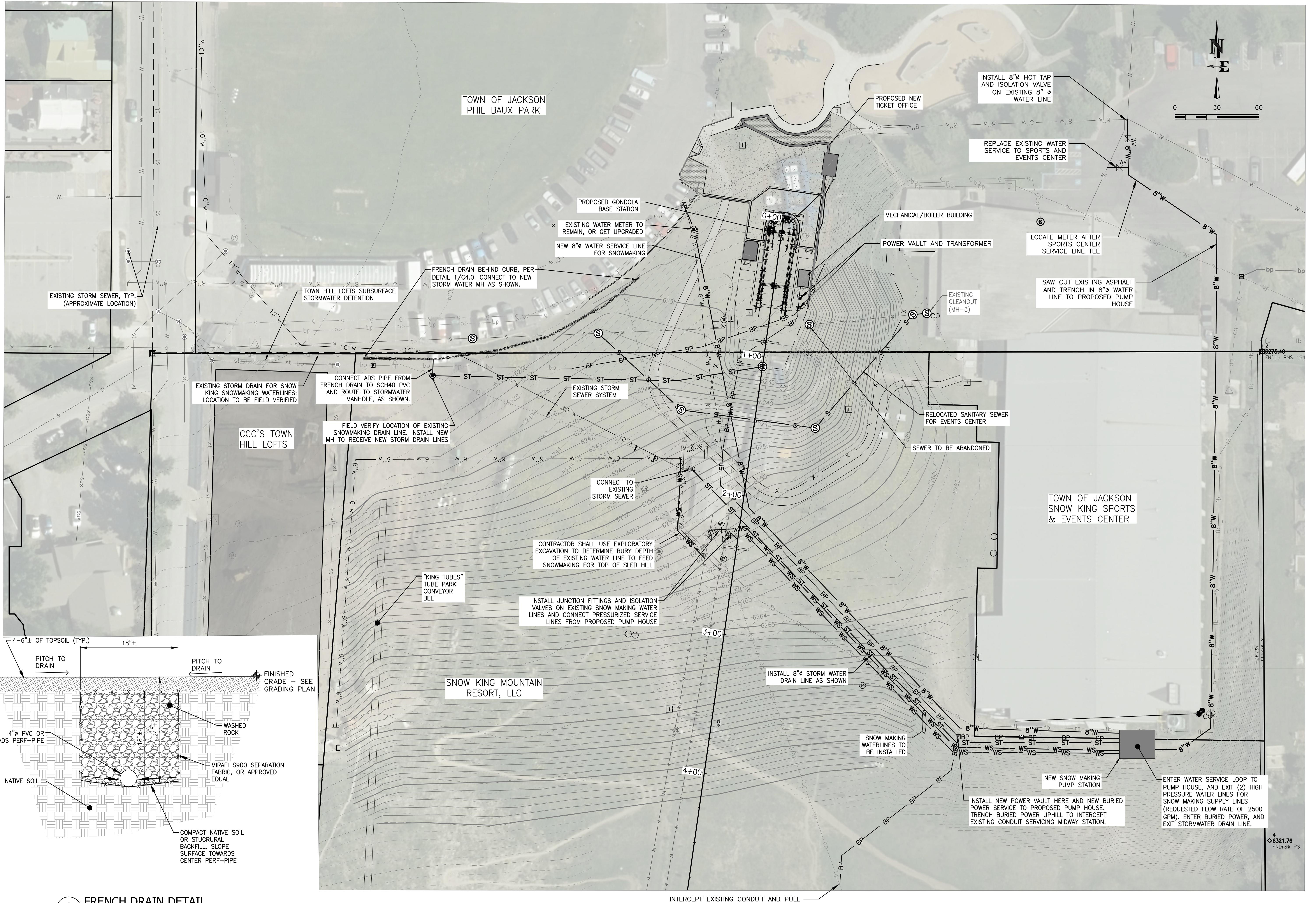


DRAWING NO	JOB TITLE	DRAWING TITLE	EXHIBIT A	REV.
EX. A	SNOW KING IMPROVEMENTS	SNOW KING MOUNTAIN RESORT		

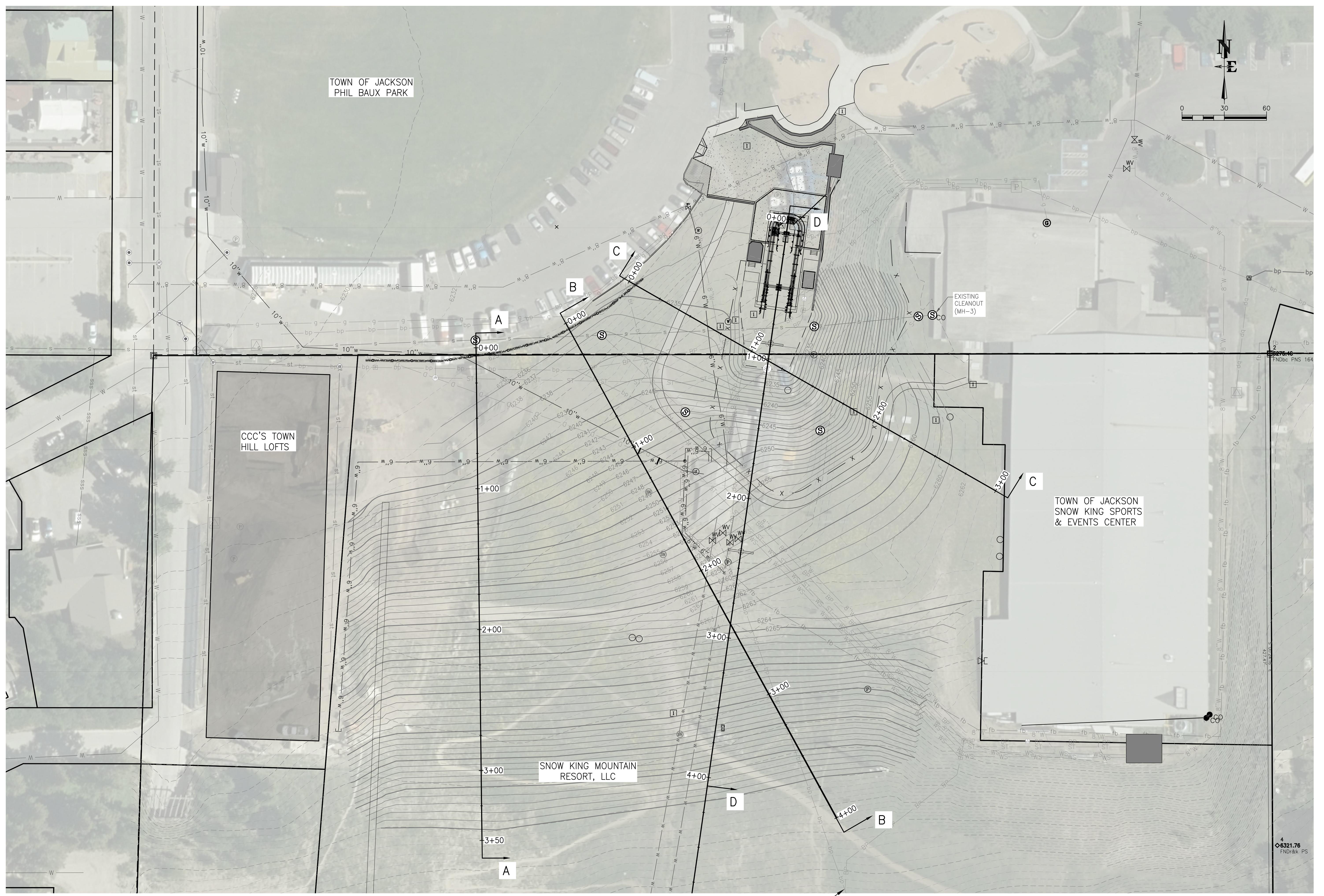
**NELSON
ENGINEERING**

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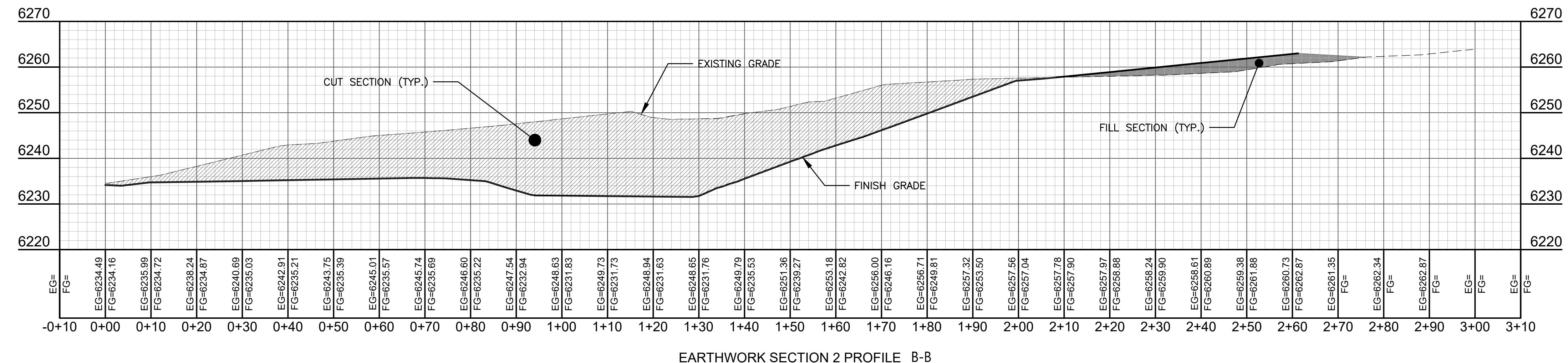
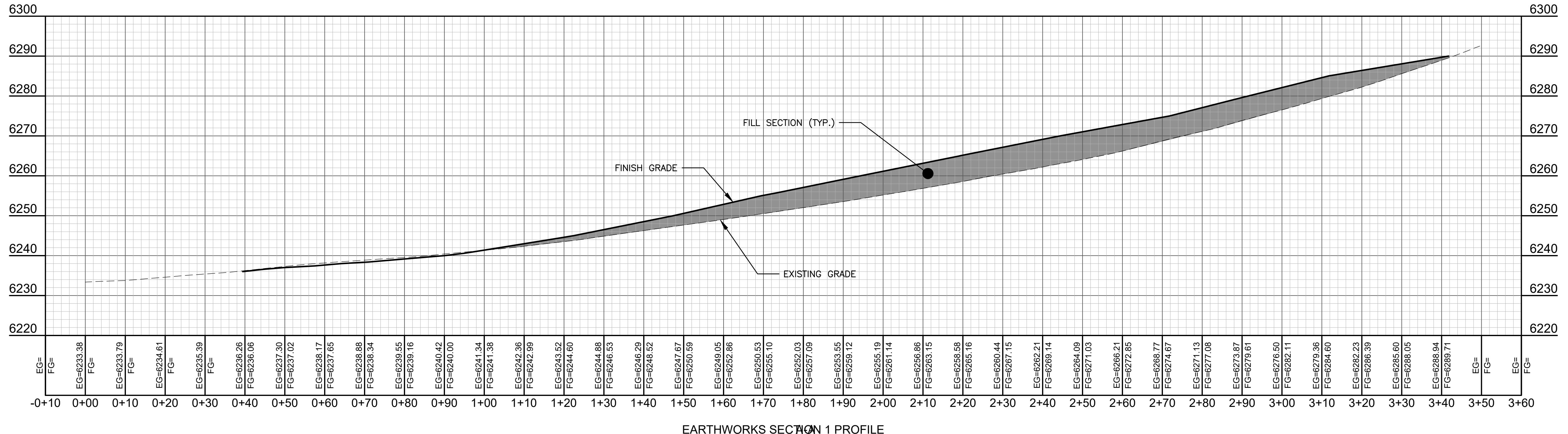
DATE	SURVEYED	ENGINEERED
		DRAWN
		CHECKED
		APPROVED



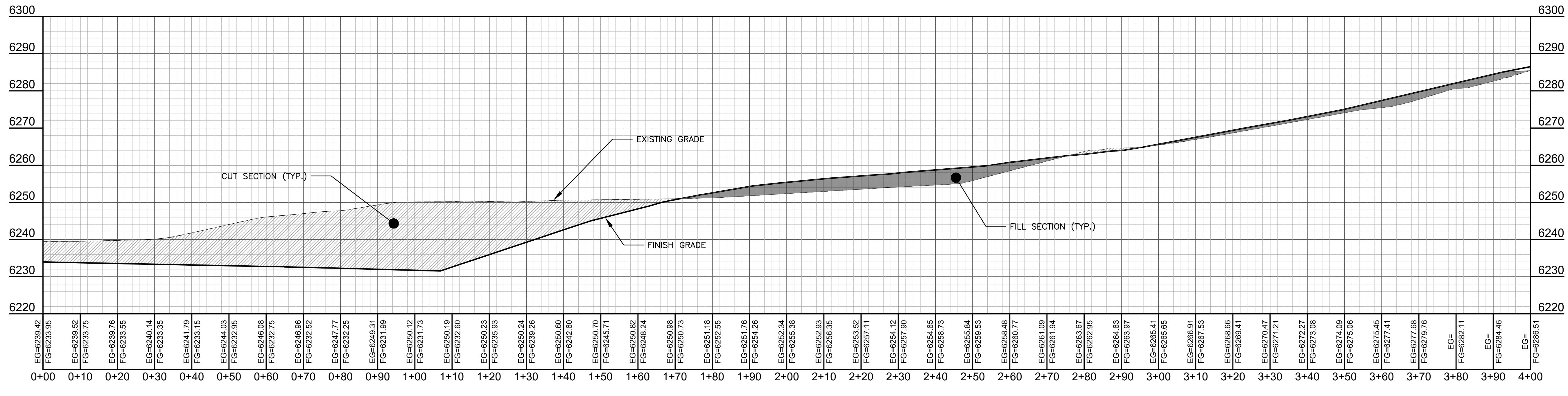
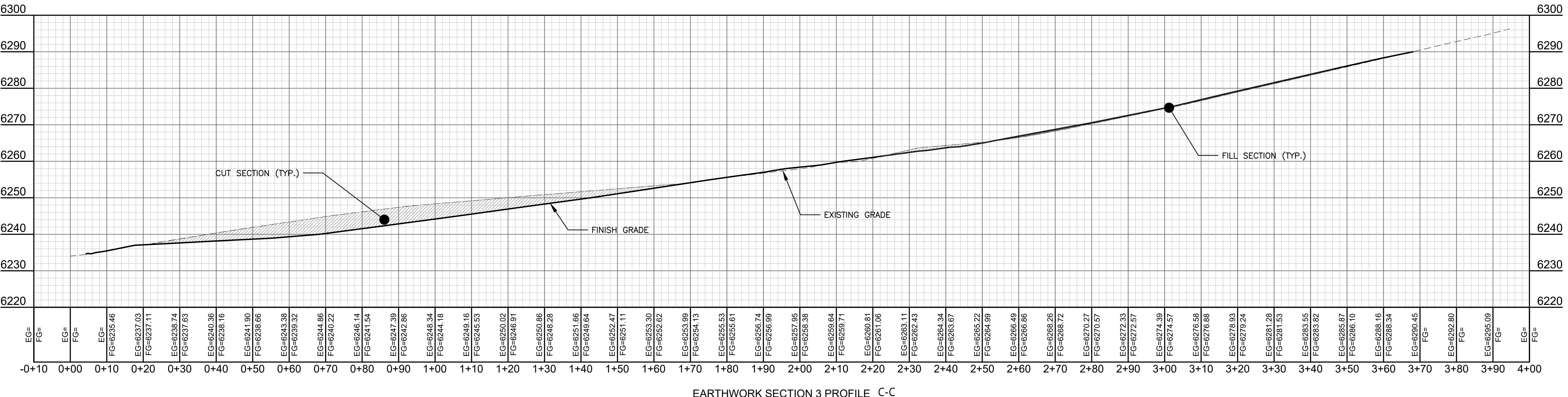
DRAWING NO		JOB TITLE		DRAWING TITLE	
4.0	NE	SURVEYED	3/31/2020	REV.	3/31/2020
19-262-01	NE	ENGINEERED	NE	REV.	NE
JOB NO		SNOW KING MOUNTAIN RESORT		UTILITY PLAN OVERVIEW	
19-262-01		2020 IMPROVEMENTS		SNOW KING MOUNTAIN RESORT	
P.O. BOX 1599, JACKSON WYOMING (307) 733-2087		JACKSON, WYOMING		JACKSON, WYOMING	
APPROVED		CHECKED		DRAWN	
DD		DD		NB	
DD		DD		NB	



DRAWING NO		JOB TITLE		DRAWING TITLE	
3.0		SNOW KING MOUNTAIN RESORT		BASE STATION EARTHWORK OVERVIEW	
19-262-01		2020 IMPROVEMENTS		PLAN VIEW	
		JACKSON, WYOMING			P.O. BOX 1599, JACKSON WYOMING (307) 733-2087



EARTHWORK SECTION 2 PROFILE B-B'



DRAWING NO	JOB TITLE	DRAWING TITLE		DATE SURVEYED	DATE DRAWN	REV.
		BASE STATION EARTHWORK SECTION VIEWS: 2 OF 2				
JOB NO	2020 IMPROVEMENTS JACKSON, WYOMING		ENGINEERED	NE	APPROVED	DD
19-262-01	NELSON ENGINEERING P. O. BOX 1599, JACKSON, WYOMING (307) 733-2087					