

PLANNING COMMISSION MEETING

117 South Main Street, Monticello, Utah 84535. Commission Chambers March 09, 2023 at 6:00 PM

AGENDA

Google Meet joining info Video call link: https://meet.google.com/wma-afjh-gbg Or dial: (US) +1 727-877-8458 PIN: 489 854 957# More phone numbers: https://tel.meet/wma-afjh-gbg?pin=5790317904712

YouTube Livestream Link: https://youtube.com/live/MhqIUlgRJ6I?feature=share

GENERAL BUSINESS

Welcome / Roll Call

Pledge of Allegiance

Approval of Minutes

1. Approval of February 9, 2023 Planning Commission Meeting Minutes

PUBLIC COMMENT

PUBLIC HEARING

2. Rezone: Balanced Rock Resort, Spanish Valley Planned Community District, Residential Flex

ADMINISTRATIVE ITEMS

- 3. Consideration and Approval Conditional Use Permit, Richard Collins
- 4. Consideration and Approval, Hassen Estates Subdivision Amendment 3, Curtis Wells
- 5. Consideration and Approval of Lonesome Left Estates Subdivision Amendment 6, Lloyd Wilson

LEGISLATIVE ITEMS

- <u>6.</u> Consideration and Recommendation, Balanced Rock Resort Rezone Application, Jim Schnepel, Gardner Plumb LLC
- 7. Spanish Valley Storm Water Master Plan, Greg Poole, Hansen Allen and Luce Engineers

BUILDING PERMIT(S) REVIEW

<u>8.</u> Building Permit List

ADJOURNMENT

In compliance with the Americans with Disabilities Act, persons needing auxiliary communicative aids and services for this meeting should contact the San Juan County Clerk's Office: 117 South Main, Monticello or telephone 435-587-3223, giving reasonable notice



PLANNING COMMISSION MEETING

117 South Main Street, Monticello, Utah 84535. Commission Chambers February 09, 2023 at 6:00 PM

MINUTES

GENERAL BUSINESS

Welcome / Roll Call

Planning Commission Chair Trent Schafer called the meeting to order at 6:04 pm.

PRESENT Chairman Trent Schafer Commissioner Lloyd Wilson Commissioner Cody Nielson Commissioner Ann Austin

STAFF: Ben Tomco, Building Inspector Scott Burton, Planning and Zoning Administrator Mitchell Maughan, Deputy County Attorney

Approval of Minutes

1. Approval of Minutes for January 12, 2023 Planning Commission Meeting

Time Stamp 1:00 (audio)

Motion to approve the minutes was made by Commissioner Austin, Seconded by Commissioner Wilson. Voting Yea: Chairman Schafer, Commissioner Wilson, Commissioner Nielson, Commissioner Austin

PUBLIC COMMENT

Time Stamp 2:26 (audio)

PC Trent Schafer opened the meeting for public comment, and mentioned four letters that were received expressing concern about the turn on US Hwy 191.

The following individuals made comment:

Lynda Smirz, a resident of northern San Juan County commented about the conditional use permit for Wandercamp and expressed a concern about an abandoned mine on the property, and a concern about the Bureau of Land Management (BLM) boundaries.

PC Commissioner Lloyd Wilson requested that the Planning Commission say the Pledge of Allegiance at the beginning of the meetings and that they be livestreamed to Facebook.

ADMINISTRATIVE ITEMS

2. Preliminary Plat Review, Old Airport Subdivision, Brad Bunker, Bunker Engineering

Time Stamp 8:33 (audio)

Tom Keogh the owner of the property presented the subdivision plat. County staff had a question about the access on SR 46. Tom will notify UDOT about the access point to see if they will require a turn lane or not. Tom also had a change that the roads would be county roads instead of private roads. The PC discussed the zoning which is almost completely in the Control District Highway Commercial.

The PC had a discussion about the construction and maintenance of the roads. Because this has been a recurring discussion, Planning and Zoning Administrator, Scott Burton suggested we have a meeting with the County Commissioners and the Road Department to come up with a solution to the road questions.

PC Chair Trent Schafer asked that the language about the road be changed on the plat to be a county road. PC Commissioner Ann Austin asked the the zoning be noted correctly on the plat.

3. Consideration and Approval of Conditional Use Permit, Wondercamp Campground, Kylie Chenn, Wondercamp

Time Stamp 29:41 (audio)

Andrew Chenn with Wondercamp presented this conditional use permit. Planning and Zoning Administrator discussed concerns that have been brought up including road access, property rights and water. Andrew addressed the abandoned mine and said that the mine has been sealed off. The water is planned to be provided by a service provider to haul water to the site. The property is private land that is being leased to Wondercamp.

PC Chair Trent Schafer asked about the highway access at the bottom of Blue Hill which is an already congested and dangerous location. He asked what additional traffic they anticipate, and that they need to contact UDOT to make sure they did not have any additional requirements for the access point.

Andrew explained that they cater to a more adventurous crowd that are aware of a need for a four wheel drive vehicle to access the site, and the limited services provided.

PC Commissioner Cody Nielson asked about the number of bathrooms, showers, and the holding capacity of the bath trailer to make sure it is sized sufficient for the number of people. Wondercamp is planning for 1-2 gallons of usage per person per day. These usage numbers will need to be verified with the County Health Department.

PC Commissioner Lloyd Wilson requested information about what the state requirements are for hauling water to a camping site like this.

Andrew mentioned that the state requirements would require facilities to be sized larger than the actual usage.

PC Commissioner Ann Austin mentioned that the County Economic Development Office is working on grant funding for mountain bike trails in this area. She mentioned that the access may be on the same road, and that they were working with UDOT on an improvement access.

PC Chair Trent Schafer asked that the applicant address the issues brought up and bring them back before they could approve the application.

BUILDING PERMIT(S) REVIEW

4. Building Permit List Review

Time Stamp 53:08 (audio)

The PC Reviewed the building permit list.

ADJOURNMENT

Time Stamp 53:08 (audio)

Motion to adjourn was made by Commissioner Wilson, Seconded by Commissioner Nielson. Voting Yea: Chairman Schafer, Commissioner Wilson, Commissioner Nielson, Commissioner Austin

Meeting was adjourned at 6:58 pm



STAFF REPORT

MEETING DATE: March 9, 2023

ITEM TITLE, PRESENTER: Consideration and Approval Conditional Use Permit, Richard Collins

RECOMMENDATION: Consideration and Approval

SUMMARY

Richard Collins has applied for a Conditional Use Permit for a summer camp on his property at 383 North Old Highway as outlined in the attached application.

The following conditions are consistent with conditions placed on similar conditional use permit applications recently:

- Must comply with the public water system requirements for water storage and pressure for fire suppression standards

- Must comply with any state or federal fire restrictions

- Must comply with San Juan County Fire Policy

- Must comply with all building permit requirements

- Must comply with San Juan County Health Department requirements and Utah State water system requirements.

HISTORY/PAST ACTION

N/A

Item 3.

SAN JUAN COUNTY CONDITIONAL USE PERMIT APPLICATION

Type of Application (check all that apply):

	New ConstructionImageLand Use ChangeAdditionImageAppeal			
Subje	ct Property Location or Address: <u>383 North Old Hwy</u>			
Parce Numl	I Identification Der: <u>33525E284800</u>			
Parce	Area: 40 ACRES Current Use: residence			
Floor	Area: Zoning Classification:			
Appli Name	Richard Collins			
Maili Addro	ng ess: P.O. Box 1044			
City, State, ZIP: Monticello, UTAH 84535				
Dayti	me Phone #: <u>859-393-4164</u> Fax#:			
Email	Address: gcfm 07 @gmail.com			
Busin	ess Name (If applicable):			
Prope	rty Owner's Name (If different):			
Prope	rty Owner's Mailing Address:			
City,	State, ZIP:			
Dayti	me Phone #:			
Descr f_0 c_h f_0 Author	ibe your request in detail (use additional page(s) if necessary: <u>I would like</u> <u>vse</u> my property for <u>A</u> <u>CAMP</u> for the <u>NAVAJO</u> <u>ildren</u> for two months in the <u>Summer</u> . We are planning <u>have zo children per week for four weeks</u> . prized Signature: <u>Vicharl and July</u> Date: <u>2/13/23</u>			

Property Owner's Affidavit

I (we) <u>*RicharD*</u> *Collins*, being first duly sworn, depose and that I (we) am (are) the current owner(s) of the property involved in this , being first duly application; that I (we) have read the application and attached plans and other exhibits and are familiar with its contents; and that said contents are in all respects true and correct based upon my personal knowledge.

hac Owner's Signature

)

Owner's Signature (co-owner if any)

State of Utah

County of San Juan

Subscribed and sworn to before me this 16th day of February, 2023.



Natha	Jar	es	P:H	5
Notary Public		1.		

Residing in Monticello, UT My Commission expires: June 29,2024

Dear Planning Committee,

Thank you for your consideration for a conditional use permit. We would like to use our property located at 383 North Old Highway for a summer camp for Navajo children. The camp will take place in the month of July.

Our goal is to give each camper an excellent camp experience. This will be accomplished by various team building activities, games, crafts, archery and bible teaching.

We will do four sessions of camp. Here is an example of how it will work. We will transport the campers from Montezuma Creek to our property on Monday morning July 10th. They will spend three nights and four days. In the afternoon of the fourth day (Thursday July 14th) they will be transported back to Montezuma Creek. On Friday we prepare for the next group and on Saturday we pick up the next group of campers in Montezuma Creek. We will repeat this three more times for a total of four camp sessions. Each session will have twenty campers for a total of 80 campers for the month.

While at camp the campers will be sleeping in 14 X16 wall tents on wooden platforms. Meals will be prepared in the garage where we have set up a small kitchen and dining area.

We will have port-a-lets for the toilet facilities. The number will be determined by the San Juan County health department.

The children will shower in a the shower house and a washing station will be connected to the side of the shower house where the kids can wash up and brush their teeth.

The grey water from the kitchen will be caught in a tank and when it's full will be emptied into the septic system connected to our house.

The grey water from the shower house and wash station will drain into an existing septic system that was used to service a mobile home that used to sit on the property.

Please understand that this is a not for profit operation. My wife Michelle and I are doing the best we can with what we have. It is our hope that you will see the value in what we are doing and give us grace as we get this camp off the ground and work to raise the necessary support to make improvements and expand it into a great asset for San Juan County and the children on the Navajo Reservation.

Sincerely, Richard and Michelle Collins





STAFF REPORT

MEETING DATE:	March 9, 2023
ITEM TITLE, PRESENTER:	Consideration and Approval, Hassen Estates Subdivision Amendment 3, Curtis Wells
RECOMMENDATION:	Consideration and Approval

SUMMARY

The San Juan Townhomes project was approved for the Spanish Valley Overnight Accommodations Overlay in April 2022 as outlined below.

This plat creates the property approved by the Spanish Valley Overnight Accommodations Overlay process.

This subdivision amendment reflects a change to the plan that removes the access from US 191. The San Juan County Road Department has expressed a concern about the only access being from the Tangren. This makes the shortest access back to the highway on Ranch Rd which is a gravel road that goes right through the LeGrand Johnson gravel operation.

Additional concerns from the staff review have been communicated to the developer for plat revisions.

HISTORY/PAST ACTION

The application for the Spanish Valley Overnight Accommodations Overlay was recommended for approval at the August 12, 2021 PC Meeting. The application was then approved by the Board of County Commissioners at their August 17, 2021 meeting.

At the March 10, 2022 Planning Commission Meeting, the Planning Commission voted to recommend that the Overnight Accommodations Overlay be attached to the development with the following conditions:

- Residential subdivision with nightly rentals
- Number of units: 98
- Must comply with the Utah Department of Transportation requirements for accessing US Hwy 191
- All roads in the development to remain private.
- Must have engineered storm drainage system ponds, rip wrap and overflow into the creek to meet the 100 year flood plain requirements, and any other requirements from the Army Corp of Engineers.
- Parking cannot spill out onto county roads or US Hwy 191

At the April 19, 2022 Board Of County Commissioners Meeting, the Commissioners approved to attach the Overnight Accommodations Overlay to this development with the above mentioned conditions.

SHEET 1 OF 2

HASSEN ESTATES AMENDMENT III AMENDING LOT 1B, 2B, AND 3C OF HASSEN ESTATES AMENDMENT II TOGETHER WITH OTHER LANDS

SAN JUAN COUNTY, UTAH MARCH, 2023





BASIS OF BEARINGS

THE BASIS OF BEARING FOR THIS PLAT IS THE SECTION LINE BETWEEN THE NORTHWEST CORNER AND THE SOUTHWEST CORNER OF SECTION 1, TOWNSHIP 27 SOUTH, RANGE 22 EAST, U.S. SURVEY, SHOWN HEREON AS DUE SOUTH.

NARRATIVE

THE BOUNDARY FOR THIS SUBDIVISION WAS DETERMINED BY DEED AND RETRACING AND THE HASSEN ESTATES AMENDMENT II SUBDIVISION PLAT FROM FOUND MONUMENTS. ALL BOUNDARY CORNERS WERE SET WITH A 5/8" X 24" REBAR AND PLASTIC CAP STAMPED "REEVE & ASSOCIATES".

BOUNDARY DESCRIPTION

ALL OF LOT 1B, 2B, AND 3C OF HASSEN ESTATES AMENDMENT II TOGETHER WITH OTHER LANDS BEING A PART OF THE WEST HALF OF SECTION 1, TOWNSHIP 27 SOUTH, RANGE 22 EAST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT, SAID POINT BEING SOUTH 2654.02 FEET AND EAST 55.67 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 1 (NORTHWEST CORNER BEING NORTH 5392.92 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 1); THENCE EAST 659.50 FEET; THENCE SOUTH 00°09'54" WEST 60.21 FEET TO A POINT ON AN EXISTING FENCE; THENCE ALONG SAID FENCE LINE THE FOLLOWING THREE (3) COURSES: (1) EAST 440.25 FEET; (2) SOUTH 00°02'00" WEST 608.00 FEET; AND (3) WEST 225.00 FEET; THENCE NORTH 00°00'02" WEST 202.70 FEET TO A POINT ON AN EXISTING FENCE LINE; THENCE ALONG SAID FENCE LINE THE FOLLOWING FOUR (4) COURSES: (1) WEST 214.90 FEET; (2) NORTH 173.55 FEET; (3) SOUTH 70°41'28" WEST 496.62 FEET; AND (4) ALONG A NON-TANGENT CURVE TURNING TO THE LEFT WITH A RADIUS OF 10277.72 FEET, AN ARC LENGTH OF 494.45 FEET, A DELTA ANGLE OF 02°45'23", A CHORD BEARING OF NORTH 22°40'51" WEST, AND A CHORD LENGTH OF 494.41 FEET TO THE POINT OF BEGINNING.

CONTAINING 441,837 SQUARE FEET OR 10.143 ACRES MORE OR LESS.

COUNTY SURVEYOR	COUNTY ROAD DEPARTMENT	APPROV
APPROVAL IN ACCORDANCE WITH INFORMATION AND RECORDS ON FILE IN THIS OFFICE.	APPROVED THIS DAY OF, 20	APPROVED AS TO
COUNTY SURVEYOR DATE	COUNTY ROAD DEPARTMENT	

PART OF THE WEST HALF OF SECTION 1, TOWNSHIP 27 SOUTH, RANGE 22 EAST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY



NOT TO S

WEST 225.00

LIMITED COMMON SQUA FOOTAGE TABLE

UNIT #	LIMITED COMMON DRIVEWAY S.F.	LIMITED COMMON PATIO S.F.	unit #	LIMITED COMM DRIVEWAY S.
1	328 S.F.	375 S.F.	50	1128 S.F.
2	360 S.F.	375 S.F.	51	1329 S.F.
3	328 S.F.	375 S.F.	52	328 S.F.
4	328 S.F.	375 S.F.	53	360 S.F.
5	360 S.F.	375 S.F.	54	328 S.F.
6	328 S.F.	375 S.F.	55	360 S.F.
7	328 S.F.	375 S.F.	56	328 S.F.
8	360 S.F.	375 S.F.	57	328 S.F.
9	328 S.F.	375 S.F.	58	360 S.F.
10	328 S.F.	375 S.F.	59	328 S.F.
11	360 S.F.	375 S.F.	60	360 S.F.
12	328 S.F.	375 S.F.	61	328 S.F.
13	368 S.F.	375 S.F.	62	360 S.F.
14	336 S.F.	375 S.F.	63	328 S.F.
15	368 S.F.	375 S.F.	64	360 S.F.
16	336 S.F.	375 S.F.	65	328 S.F.
17	368 S.F.	375 S.F.	66	360 S.F.
18	336 S.F.	375 S.F.	67	328 S.F.
19	368 S.F.	375 S.F.	68	328 S.F.
20	368 S.F.	300 S.F.	69	360 S.F.
21	336 S.F.	300 S.F.	70	328 S.F.
22	368 S.F.	300 S.F.	71	360 S.F.
23	336 S.F.	300 S.F.	72	328 S.F.
24	368 S.F.	300 S.F.	73	296 S.F.
25	336 S.F.	300 S.F.	74	328 S.F.
26	368 S.F.	300 S.F.	75	296 S.F.
27	336 S.F.	300 S.F.	76	328 S.F.
28	360 S.F.	300 S.F.	77	296 S.F.
29	328 S.F.	300 S.F.	78	328 S.F.
30	360 S.F.	300 S.F.	79	328 S.F.
31	328 S.F.	300 S.F.	80	360 S.F.
32	360 S.F.	300 S.F.	81	328 S.F.
33	360 S.F.	375 S.F.	82	360 S.F.
34	328 S.F.	375 S.F.	83	360 S.F.
35	360 S.F.	375 S.F.	84	328 S.F.
36	328 S.F.	375 S.F.	85	360 S.F.
37	328 S.F.	300 S.F.	86	328 S.F.
38	360 S.F.	300 S.F.	87	360 S.F.
39	328 S.F.	300 S.F.	88	360 S.F.
40	360 S.F.	300 S.F.	89	328 S.F.
41	360 S.F.	300 S.F.	90	360 S.F.
42	328 S.F.	300 S.F.	91	328 S.F.
43	360 S.F.	300 S.F.	92	360 S.F.
44	328 S.F.	300 S.F.	93	360 S.F.
45	368 S.F.	300 S.F.	94	328 S.F.
46	378 S.F.	300 S.F.	95	360 S.F.
47	538 S.F.	300 S.F.	96	328 S.F.
48	714 S.F.	300 S.F.	97	360 S.F.
49	867 S.F.	300 S.F.		

NOTES

- 1. ALL AREAS NOT LABELED AS PRIVATE UNIT, LIMITED COMMON AREA, OR PRIVATE STREET IS CONSIDERED COMMON AREA.
- 2. ALL COMMON AREA IS CONSIDERED PUBLIC UTILITY EASEMENT.
- 3. ALL LIMITED COMMON DRIVEWAYS ARE 16 FEET WIDE.
- 4. ALL UNIT TIES ARE PERPENDICULAR TO BOUNDARY LINES OR PRIVATE R.O.W. LINES.
- 5. THIS PLAT CONFORMS WITH THE SPANISH VALLEY OVERNIGHT ACCOMMODATIONS OVERLAY AND WAS APPROVED BY THE SAN JUAN COUNTY BOARD OF COUNTY COMMISSIONERS AT THEIR REGULAR MEETING ON APRIL 19, 2022.



CURVE TABLE # RADIUS ARC LENGTH CHD LENGTH TANGENT CHD BEARI C1 10277.72' 494.45' 494.41' 247.28' N22*40'51'

val as to form COUNTY BOARD OF HEALTH PLANNING COMMISSION CERTIFICAT APPROVED THIS _____ DAY OF _____, APPROVED THIS _____ DAY OF _____, 20__, FORM THIS _____ DAY OF __, 20___. 20___. BY SAN JUAN COUNTY PLANNING COMMISSION. ATTORNEY COUNTY BOARD OF HEALTH CHAIR

	SURVEYOR'S CERTIFICATE
Alipoet Rd PROJECT Ranch Rd Rach Rd State Rach Rd CALE	I, IREVOR J. HATCH, DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR IN THE STATE OF UTAH IN ACCORDANCE WITH TITLE 58, CHAPTER 22, PROFESSIONAL ENGINEERS AND LAND SURVEYORS ACT; AND THAT I HAVE COMPLETED A SURVEY OF THE PROPERTY DESCRIBED ON THIS PLAT IN ACCORDANCE WITH SECTION 17–23–17 AND HAVE VERIFIED ALL MEASUREMENTS, AND HAVE PLACED MONUMENTS AS REPRESENTED ON THIS PLAT, AND THAT THIS PLAT OF HASSEN ESTATES AMENDMENT III IN SAN JUAN COUNTY. UTAH, HAS BEEN DRAWN CORRECTLY TO THE DESIGNATED SCALE AND IS A TRUE AND CORRECT REPRESENTATION OF THE HEREIN DESCRIBED LANDS INCLUDED IN SAID SUBDIVISION, BASED UPON DATA COMPILED FROM RECORDS IN THE SAN JUAN COUNTY RECORDER'S OFFICE AND FROM SAID SURVEY MADE BY ME ON THE GROUND, I FURTHER CERTIFY THAT THE REQUIREMENTS OF ALL APPLICABLE STATUTES AND ORDINANCES OF SAN JUAN COUNTY, CONCERNING ZONING REQUIREMENTS REGARDING LOT MEASUREMENTS HAVE BEEN COMPLIED WITH. SIGNED THIS DAY OF, 20
RE	OWNERS DEDICATION AND CERTIFICATION KNOW ALL MEN BY THESE PRESENTS THAT THE UNDERSIGNED ARE THE OWNERS OF THE ABOVE DESCRIBED TRACT OF LAND, AND HEREBY CAUSE THE SAME TO BE DIVIDED INTO LOTS TOGETHER WITH EASEMENTS AS SET FORTH TO BE HEREAFTER KNOWN AS
LIMITED COMMON PATIO S.F. 300 S.F.	HASSEN ESTATES AMENDMENT III AND DO HEREBY DEDICATE ALL LAND DESIGNATED ON SAID PLAT AS PRIVATE STREETS AS ACCESS TO THE INDIVIDUAL UNITS, TO BE MAINTAINED BY A HOME OWNERS ASSOCIATION WHOSE MEMBERSHIP CONSISTS OF SAID OWNERS, THEIR GRANTEES, SUCCESSOR, OR ASSIGNS AND ALSO DO GRANT AND CONVEY TO THE HOME OWNERS ASSOCIATION ALL THOSE PARTS OR PORTIONS OF SAID TRACT OF LAND DESIGNATED AS COMMON AREAS TO BE USED FOR OPEN SPACE AND PUBLIC UTILITY FOR THE BENEFIT OF EACH UNIT IN COMMON WITH ALL OTHERS IN THE SUBDIVISION. SIGNED THIS DAY OF, 20
375 S.F. 375 S.F. 375 S.F. 375 S.F. 375 S.F. 375 S.F. 375 S.F. 375 S.F. 375 S.F. 375 S.F.	MIDWAY MEADOW DEVELOPMENT, LLC
375 S.F. 300 S.F. 300 S.F. 300 S.F.	AARON MUELLER, MANAGER
300 S.F. 375 S.F.	ACKNOWLEDGMENT STATE OF UTAH)SS. COUNTY OF
375 S.F. 375 S.F. 375 S.F. 375 S.F. 375 S.F. 375 S.F.	COMMISSION EXPIRES NOTARY PUBLIC
	Froject Info. Surveyor: Receve Sito Stassociates, Inc. Sito State, Virus Bardos, United Bardos, States, Inc. Tit Barli Solt State, States, States, AMENDMENT III Number: 7374–03
, PRESENTED TO THE	SAN JUAN COUNTY COMMISSION THIS STATE OF UTAH, SAN JUAN COUNTY, RECORDED AT THE REQUEST OF

_____ DAY OF _____, 20___, SUBDIVISION WAS ACCEPTED AND APPROVED

ATTEST

DATE _____ BOOK _____ PAGE _____ FEE _____



	ARC LENGTH	CHD LENGTH	TANGENT	CHD BEARING	DELTA
2'	494.45'	494.41'	247.28'	N22°40'51"W	2°45'23"
	14.59'	13.33'	8.94'	S48°10'50"W	83°37'14"
	14.09'	13.94'	7.20'	S08°02'48"E	28°50'02"
	15.71'	14.14'	10.00'	S67°27'49"E	90'00'00"
	15.71'	14.14'	10.00'	S22°32'11"W	90'00'00"
	15.16'	13.75'	9.46'	S65°53'10"E	86•50'43"
	16.26'	14.53'	10.57'	S24°06'50"W	93•09'17"
	15.71 '	14.14'	10.00'	N25°41'28"E	90'00'00"
	16.26'	14.53'	10.57'	N65°53'10"W	93°09'17"
	15.16'	13.75'	9.46'	N24°06'50"E	86•50'43"
	54.11'	53.79'	27.38'	N78°22'37"E	21°40'52"
	49.01'	48.69'	24.82	N78°46'06"E	22'27'49"
	41.95'	41.68'	21.25'	N78°46'06"E	22°27'49"
	20.84'	19.30'	12.34'	N50°42'04"E	77°01'58"
	99.66'	98.21	<u>51.35'</u>	S27°30'51"E	<u>33°59'21"</u>
	85.63'	84.48	44.02'	S28'09'14"E	32 42 35"
	30.66'	25.90'	23.57'	S33°19'33"W	113°20'55"
	48.75'	48.47'	24.66'	S33*55'43"E	21'09'37"
	102.62'	100.05'	54.06'	S22*14'16"E	44 ° 32'31"
	116.61'	113.70'	61.43'	S22°14'16"E	44•32'31"
	130.60'	127.34'	68.80'	S22*14'16"E	44•32'31"
	15.70'	14.14'	9.99'	S45°01'00"W	89*58'00"
	15.71	14.15	10.01'	S44•59'00"E	90'02'00"
	15.70'	14.14'	9.99'	N45°01'00"E	89•58'00"
	<u>15.71′</u>	14.15	10.01	S44°59'00"E	90°02′00″
	31.43	28.29	20.01	S44*59'00"E	90'02'00"
	59.71	53.76	38.02	<u>S44'59'00"E</u>	90'02'00"
	88.00	79.22	56.03	<u>S44'59'00"E</u>	90.02.00
	24.17	21.79	15.32	S44 37 56"E	89 19 53"
,	24.15	21.78	15.30	<u>544'39'56''W</u>	89 15 53"
4	97.12	97.12	48.56	<u>S23'47'19"E</u>	0'32'29"
4	/4./9	/4./9	37.39	<u>52518557°E</u>	0.25.01
4	14.96	14.96	/.48	S250333"E	0.05.00"
<u>,</u>	74.80	74.80	37.40'	S22'48'32"E	0'25'01"
<u>,</u>	14.96	14.96	7.48	S22'33'32"E	0.05.00"
<u>,</u>	74.80	74.80	37.40	S22'18'31"E	0'25'01"
<u>,</u>	14.96	14.96	7.48	S22'03'30"E	0.05.00"
2	74.79	<u>74.79'</u>	37.40'	<u>S21°48′29″E</u>	0°25′01″
)' I	53 77'	1 53 97'	1 76 63'	L CO1"O7'A/"E	17'10"

LINE	BEARING	DISTANCE
L1	S22°27'49"E	6.89'
L2	S67°32'11"W	30.00'
L3	N89°59'28"E	47.89'
L4	N00°00'00"E	36.00'
L5	N90°00'00"E	13.24'
L6	S43°29'22"E	53.11'
L7	S34°47'12"E	70.56'
L8	S10°08'34"E	40.68'
L9	S10°40'04"W	36.87'
L10	S43°29'22"E	18.20'
L11	S34°47'12"E	78.27'
L12	S10°08'34"E	51.99'
L13	S10°40'04"W	21.15'
L14	S66°28'56"W	28.72'
L15	S66°53'57"W	27.61'
L16	S66*58'57"W	27.45'
L17	S67°23'58"W	27.00'
L18	S67*28'59"W	26.98'
L19	S67*54'00"W	27.18'
L20	S67*59'00"W	27.28'
L21	S68*24'01"W	28.14'





Item 5.



Health Department	Form Approval	County State of Utah, County of San Juan, Recorded	y Recorder at the request of	Final Plat
Approved this Day of 20_	— Approved this Day of 20	Filed : Date: Time:	4	Lonesome Left Estates Subdivision
		Book: Page: Fee:		Amendment No. 6
Health Official	Attorney		County Recorder	Within Section 1, Township 27 South, Range 22 East, SLB&M
	Acknowledgement		Owners Dedication	
State of Utah, County of San Juan, on the	Day of, 20personally appeared beforand proved to me on the basis of satisfactory evidence that he (she/they) executed the same freely and volunts	re me e to be the person(s) whose name(s) is (are) arily for the purposes stated herein.	Know all men by these presents that we, the unders land, having caused the same to be divided and am Lonesome Left Estates Subdivision Amendment N	gned owners of the above described lots of By:
My commission expires 20	Res	siding in County		By:
	Notary Public		In witness whereof I have hereunto set my hand thi	Day of, 20
	San Juan County Commission	San.	Juan County Planning Commission proved by the San Juan County Planning	Bunker Engineering, LLC
The amendment hereon was presented to accepted and approved.	the San Juan County Commission this day of	20, and was	amission this Day of, 20	965 South Creek Road, Monticello, UT 84535 P.O. Box 432, Monticello, UT 84535 (435) 459-9152
				Date: 4/12/2022 Drawn By: B.D. Bunker Scale: 1" = 20'
	Attest Commiss	ioner	Chairman	Drawing Name: Survey Reference Number: BE1292 Sheet: 1 of 1



STAFF REPORT

MEETING DATE:	March 9, 2023
ITEM TITLE, PRESENTER:	Consideration and Recommendation, Balanced Rock Resort Rezone Application, Jim Schnepel, Gardner Plumb LLC
RECOMMENDATION:	Consideration and Recommendation

SUMMARY

This rezone application includes parcels 27S22E063001, 27S23E06300 and 27S23E010001 as shown in the application. The property totals 72.27 acres and is currently in the Spanish Valley Residential District (SVR). The application is to rezone the property to the Spanish Valley Planned Community District (PC), Residential Flex (RF). The application also includes a preliminary Community Structure Plan for a Small Planned Community as outlined in Chapter 10 of the San Juan County Spanish Valley Development Ordinances. In order to qualify for the Small Planned Community the property needs to be 20 acres under single ownership.

This is step one of the PC approval process outlined in Table 2-1. The application provides the necessary information outlined in the table, including the Preliminary Community Structure Plan. (See attached application and PCSP)

The Planning Commission makes a recommendation to the Board of County Commissioners for their approval of the rezone request.

HISTORY/PAST ACTION

San Juan County, Utah Planning and Zoning 117 S. Main Street Monticello, UT 84535

REZONE APPLICATION

CONTACT INFORMATION

Property Owner:	Elkin Spielman Charitable Remainder Trust
Contact:	Karl Spielman
Address:	404 W. Main Street, #123, Cortez, CO 81321
Phone:	435-260-1383
Email address:	2karlspielman@comcast.net
Owner Representative:	Gardner Plumb LLC
Contact:	Jim Schnepel
Address:	201 S. Main Street, Suite 2000, Salt Lake City, UT 84111
Phone:	801-231-3666
Email address:	westernlanddev@gmail.com

PROJECT INFORMATION

Planned community name:	Balanced Rock Resort
General location of property:	North end of Spanish Valley
Size of property:	72.27 acres (per the survey)
Current zoning:	SVR
Proposed zoning:	Planned Community District, Small Community, Residential Flex

PROPERTY DESCRIPTION

Parcel 1 27S22E063001 35.92 acres

Parcel 2 27S23E063000 10.01 acres

Parcel 3 27S23E010001 26.34 acres

See Appendix A for a map of the property.

See attached Balanced Rock Resort Conceptual Layout. (230125_Balanced Rock Resort_Conceptual Layout)

SUPPORTING MATERIALS

The attached Preliminary Community Structure Plan (CSP) has additional project information, and a list of the adjacent parcels. (230125_Balanced Rock Resort_Community Structure Plan_preliminary)

NARRATIVE

• The Subject Property falls within the Spanish Valley Ordinances' definition for Central Development Areas:

These are the flattest, least sensitive and easiest-to-develop sites in the Spanish Valley, which makes them suitable for a wide range of residential and park/open space uses. These are the preferred areas for locating higher residential density and mixed-use neighborhood centers, where a mix of residential, locally-scaled commercial and civic services will be provided. 4-5 residential units/ERUs per acre. [ERU = Equivalent Residential Unit] (p.14)

- The San Juan County Spanish Valley Area Plan (April 17, 2018) recommends that, "...development should be implemented sequentially from north to south as part of a rational extension of municipal water and sewer services (Phases 1-6)." (p. 33) The Subject Property lies within Phase 1 of the SUMMARY OF LAND USE PHASING ASSUMPTIONS table which anticipates that Phase 1 properties will be developed first, within the next 0- 10 years (written in 2018), and that these properties will draw from the existing 5,000 acre-feet of water supply. (p.36)
- This application to rezone approximately 72.27 acres ["Subject Property"] to the Spanish Valley Planned Community (PC) District, Small Community, Residential Flex is requested to accommodate a large-scale master-planned development, in accordance with the San Juan County Spanish Valley Development Ordinances of the San Juan County Zoning Ordinance, dated September 13, 2019. ["Spanish Valley Ordinance"]
- According to the Spanish Valley Ordinance,

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"PC Zone(s) may include residential neighborhoods and subdivisions; neighborhood commercial centers; business, research and educational campuses; highway commercial and flex development areas; and parks and open space with convenient pedestrian access and connections. Individual structures within each PC Zone may contain mixed uses. Permitted densities may be higher than those permitted in surrounding districts." (p.14)

- The Spanish Valley Ordinance lists the permitted uses in the Small Planned Community zone (20-199 acres), which include, among others (pp. 17-18):
 - "Residential uses of various types and lot sizes including single family detached; single family attached; multifamily residential; town homes; loft apartments; residential units above ground floor retail or office..."
 - "Home-based businesses;"
 - "Common areas, such as parks, plazas, playgrounds, and trails;"
 - "Open space, including landscaped areas and areas in natural vegetation, waterways, parks, trails and recreational areas;"
 - "Other accessory uses which are ancillary and designed to serve the foregoing uses."
- The Spanish Valley Ordinance states that the conditional uses in the Small Planned Community zone as:

"The PC Zone Plan or Community Structure Plan may include provisions for specific land uses identified as either a permitted or a conditional use within a given PC Zone and may include uses listed elsewhere in this chapter or additional uses." (p. 18)

• The proposed permitted and conditional uses for the Balanced Rock Resort (Subject Property) include a range of lots consisting of single family, duplex, live/work/play townhomes or condominiums ["condos"], and a lodge (up to 130 rooms). (Depending on market conditions, the lodge lot may be converted to lots for condos or apartment building(s), and/or to the other uses listed above.)

PERMITTED USES	CONDITIONAL USES	NOTES		
	Lodge	Up to 130 rooms		
Single-Family				
Duplex				
Townhomes/Condos		Live/Work/Play		

Land Use Table: Permitted and Conditional Uses

 The rezone would allow for a density of up to 4 units/ERUs¹ per acre, which is approximately 289 units given the 72.27 acres. (A later application may be submitted to develop under the PUD ordinance, which could provide a density bonus if it is needed.²)

- The current preliminary layout includes a mix of single-family lots, duplex lots, live/work/play townhome/condo lots, and a lodge lot (up to 130 rooms). It will have open space with trails, as well as a community clubhouse with a pool, pickleball and tennis courts (which will also have basketball standards), a playground and other amenities.
- During discussions with the Planning and Zoning department, as well as by analyzing similar approaches in other municipalities, the number of lodge rooms may be converted to an equivalent number of units (ERUs) based on their being smaller in size than typical residential units, and due to their being occupied at a lower occupancy rate.

Land Use Table: Acres and Density (maximum density)

ACRES	MAXIMUM SQ. FT. NON RESIDENTIAL*	MAXIMUM UNITS/ROOMS	MAXIMUM ERUs**	DESCRIPTION		
72.27			289	Number of units/ERUs allowed at 4 units/acre density***		
33.10		250	250	Single-family, duplex, work/play towhomes/condos		
5.00	45,000	130	39	130 Lodge rooms convered to units at 30% rate		
			289	Total ERUs		
3.06				Community space, including clubhouse and grounds		
	5,800			Clubhouse (acres are noted above)		
16.6				Open space		

* The Lodge maximum square footage figure is for the main level. It is anticipated to have additional levels.
 ** ERUs = Equivalent Residential Units

*** The Central Development Areas allow for "4-5 residential units/ERUs per acre."

(Due to some ambiguity in the Spanish Valley Ordinances, 5 units/ERUs per acre may be permitted in the PC Residential Flex zone. If needed, the applicant may apply to obtain a bonus density under the PUD ordinance.)

• The major utilities (gas, water, sewer, electric) are at, or near, the property boundary. (Depending on the power needs of the lodge there may be an option to reimburse the county for some of the expenses paid to install the 3-phase power to the Special Service District culinary well.)

APPLICANT STATEMENT

The applicants submit this request for a rezone with the intent of using the Small Planned Community Residential Flex zone to master plan a resort-style community. We believe that the type of real estate product mix we are proposing will hold high appeal to the types of residents and visitors who want to be in the Moab area. Our goal is to create a quality resort community that will reflect positively on San Juan County.

We plan to continue to work with SITLA and other landowners to ensure that our designs harmonize with the future developments planned for neighboring areas.

The Gardner Plumb group has a strong history of building high-quality communities and looks forward to bringing this resort to fruition.

For the Elkin Spielman Charitable Remainder Trust

5/23 Austro Karl Spielm Melinda Elkin

For Gardner Plumb LLC

Walter J Plumb III

Date

NOTES:

- 1. The density for the zone may be 4-5 units/ERUs rather than the 4 units/ERUs used in the table. The Spanish Valley Ordinances state that 4-5 units/ERUs per acre are allowed in the Central Development Areas. (p.14) It further states that 4-5 units/ERUs per acre are allowed in the three Flex Development Areas. (p.15) And, later states that 4 units per acre are allowed in a Small Planned Community. (p.16)
- 2. The San Juan County Utah Zoning Ordinance (Amended Sept. 2011) states: "Planned unit developments may be allowed by Planning Commission Approval in any zoning district." (p.29)

Item 6.

Exhibit A



Community Structure Plan

(preliminary)

Spanish Valley San Juan County, Utah

January 25, 2023



Introduction

The Gardner Plumb group proposes to develop approximately 72.27 acres of land that is currently owned by the Elkin Spielman Charitable Remainder Trust. The land is located on the north end of Spanish Valley, in San Juan County, and is generally very flat. This preliminary Community Structure Plan (CSP) outlines our vision for the Balanced Rock Resort community we plan to build.

Please reference the Balanced Rock Resort conceptual plan as you read through the following pages. (230125_Balanced Rock Resort_Conceptual Layout)

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1. Name of Planned Community

Balanced Rock Resort

2. Name, Address, and Phone Number of Applicant and Property Owner

Property Owner:	Elkin Spielman Charitable Remainder Trust
	Karl Spielman and Melinda Elkin
	404 W. Main Street, #123
	Cortez, CO 81321
	435-260-1383
Applicant:	Gardner Plumb LLC
	Jim Schnepel
	201 S. Main Street, Suite 2000

3. CSP Location, Legal/Boundary Description and Acreage

801-231-3666



Parcel 1: Township 27 South, Range 23 East, SLBM Section 6: Lot 2 Parcel No: 27S23E063001

Parcel 2:

Beginning at a point which is South 89° 55' East 391.9 feet and North 767.4 feet from the West ¹/₄ corner of Section 6, Township 27 South, Range 23 East, SLM, and proceeding thence North 552. 7 feet to a corner, thence South 89°57' East 788.1 feet to a corner, thence South 552.7 feet to a corner, thence North 89° 57' West 788. 1 feet to the point of beginning Parcel No. 27S23E063000

Parcel 3:

Beginning at the Northeast corner of Section 1, Township 27 South, Range 22 East, SLM, and proceeding thence with the East line of said Section 1, South 0° 04' West 867.3 feet to a corner, thence South 89° 58' West 1321.3 feet to a corner, thence North 0° 04' East 869.4 feet to a corner, thence with the North line of said Section 1, South 89° 56' East 1321.3 feet to the point of beginning. Parcel No. 27S22E010001

4. Proposed Land Use District Boundaries and Acreages

This map was taken from SITLA's South Valley Community: Community Structure Plan (August 2, 2022) and modified to illustrate how a rezone will correlate with what is planned for the greater area.



5. Maximum Number of Dwelling Units and Acreages

These tables describe the general land uses, acreages, and assumptions for the CSP.

Land Use	e Table: Acres and	Density (maximu	m density)			
ACRES	MAXIMUM SQ. FT. NON RESIDENTIAL*	MAXIMUM UNITS/ROOMS	MAXIMUM ERUs**	DESCRIPTION		
72.27			289	Number of units/ERUs allowed at 4 units/acre density***		
33.10		250	250 Single-family, duplex, work/play towhomes/condos			
5.00	45,000	130	39 130 Lodge rooms convered to units at 30% rate			
			289	Total ERUs		
3.06				Community space, including clubhouse and grounds		
	5,800			Clubhouse (acres are noted above)		

* The Lodge maximum square footage figure is for the main level. It is anticipated to have additional levels.

** ERUs = Equivalent Residential Units

16.6

*** The Central Development Areas allow for "4-5 residential units/ERUs per acre."

(Due to some ambiguity in the Spanish Valley Ordinances, 5 units/ERUs per acre may be permitted in the PC Residential Flex zone.

If needed, the applicant may apply to obtain a bonus density under the PUD ordinance.)

	ΟΤΥ	BUILDING	TYPICAL	EAD	TOTAL ACRES	LOT TYPE AS % OF	NOTES
		FOOTPRINT SF	LOT SF	FAR	BY LOT TYPE	TOTAL ACRES*	NOTES
Single-Family "5k SF Lots"	46	2,200	5,000	44%	6.3	9%	
Single-Family "10k SF Lots"	46	3,500	10,000	35%	10.9	15%	
Single-Family "12k SF Lots"	6	3,500	12,000	29%	1.7	2%	
Single-Family "Hangar Lot"	1	5,865	37,026	16%	0.9	1%	The addition of a single-family house is planned for this lot
Duplex	42	2,800	10,450	27%	10.4	14%	There will be 2 living units per lot, for a total of 84 units
Live, Work, Play Townhomes	34	2,400	4,400	55%	2.9	4%	
					33.1	46%	Totals
Lodge	1	45,000	152,024	30%	5.0	7%	The Lodge lot is 3.49 acres. (There is also a separate lot for parking.)
Clubhouse	1	5,800	133,294	4%	3.1	4%	
Open Space	MISC.				16.617	23%	
RV Parking	MISC.				1.08	1%	
Streets	MISC.				13.43	19%	

Open space

Land Use Table: Floor Area Rations (FAR), and Acres by Lot Type (based on the conceptual layout)

* Total acres of project: 72.27

Note: The conceptual layout has 175 residential lots, for a total of 217 dwelling units (there will be two units on each duplex lot.)

6. Master Circulation System Plan

Existing Transportation System

The Spanish Valley area is primarily served by US-191 and Spanish Valley Drive. The property being proposed for the Balanced Rock Resort community currently is accessed by East Allen Street, which is a county road that goes from Spanish Valley Drive to the property boundary.

Future Transportation System

It is anticipated that in the future the Balanced Rock Resort community will primarily be accessed via a new road which will be an extension of Old Airport Road, which currently goes from US-191 to Spanish Valley Drive. One half of this future road extension has been identified along the south edge of the 10 acres that the county owns just east of Spanish Valley Drive (where the health clinic is located). SITLA has committed to provide the other

half of the land needed in the Purchase and Sale Agreement that covered the acquisition of the 10 acres by the county. This future road is shown in SITLA's latest plan and will connect to the eastern part of East Allen Street. Once completed, it will provide residents a direct route to Spanish Valley Drive and US-191.



The Balanced Rock Resort will also connect to adjoining land, with roads being planned to access properties to the east, west and south (where another subdivision is being planned). We strongly believe in coordinating with other landowners to ensure that roadways will effectively serve existing and future land uses.

The conceptual plan for the Balanced Rock Resort community shows proposed road alignments, ROW widths, and trails (for pedestrians and bicyclists) that will connect residents and the community to open spaces, and neighboring properties. It was designed to work with SITLA's most recent plan.

7. Water Sources, Flood Control, and Major Utilities and Easements

Major utilities run along the north border of the property, including water, sewer, and electricity. Natural gas is at the northwest property corner, and a smaller gas line (not adequate to serve the new development) runs to an existing structure. Please refer to Exhibit A.

It is anticipated that culinary water and sanitary sewer services will be provided through the San Juan Spanish Valley Special Service District. The property falls within that area that The San Juan County Spanish Valley Area Plan (April 17, 2018) identified as being the first phase

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of development for the area, and that it would draw from the existing 5,000 acre-feet of water supply. The project has received an initial approval that the Special Service District will be able to provide service (see Exhibit B).

Please refer to the conceptual plan for the Balanced Rock Resort to see other easements that affect the property. We plan to work with the neighboring property owners who benefit from those easements to work on realignments of the easements that currently interfere with the development of the project.

There is an existing well identified on the conceptual layout. Water from the well may be used for irrigation, at least initially to help establish new plants and trees.

The conceptual plan includes measures to mitigate surface and storm water. Low Impact Design (LID) storm water practices shall be required wherever possible.

There are no known FEMA designated flood zones for the property.

8. Adjacent Parcels

This map and table show the adjacent parcels, their owners, and their uses.



MAP IDENTIFIER	PARCEL NUMBER	USE	OWNER		
Α	000450000030	One house	Ronald Tazz Robinson and Kellie Warden		
В	000450000040	One house	James Peter Patterson; Kimberly J Jacobs		
С	000450000050	One house	James Peter Patterson; Kimberly J Jacobs		
D	000640000050	One house	Business Resolutions, LLC		
E	640000010	Vacant	Business Resolutions, LLC		
F	T26S R23E	Vacant*	SITLA		
G	27S23E062400	Hangar	Stephen P & Kathleen M Johnston		
н	T27S R23E	Vacant*	SITLA		
I	27S23E063600	One house	Timothy & Beverly B O'Neill		
J	27S22E010002	Vacant*	B & B Thomas LLC		
К	T27S R22E	Vacant*	SITLA		

* Owner intends to develop the property

9. Topography and Form

The following map shows the 40-foot contours and significant topographic features within or adjacent to the CSP property. A more detailed topographic map can be found in the conceptual layout.

Most of the property is relatively flat, or moderately sloped, and is conducive to development. The high hill to the northeast provides some natural isolation to that area of the property.



10. Existing and Proposed Secondary Water Rights, Shares and Usage

This table shows the existing water rights that are within the CSP boundary. It is anticipated that the project will use water from the existing well for irrigation.

STATUS	WATER RIGHT	ACRE FEET	EXISTING USE	FUTURE USE
EXISTING	05-2779	6.73	Irrigation and culinary	Irrigation
EXISTING	05-2730	19.374	Irrigation and culinary	Irrigation

11. Open Space Plan

As is shown on the conceptual plan, there is approximately 16.6 acres of open space designed into the community. This represents about 23% of the entire property that will be available for residents and visitors to enjoy. We are planning to add a network of trails in the open space.

The open space is primarily broken into two major areas, with the first (approximately 8 acres) running north-south following a natural drainage through the heart of the development, and the second (approximately 7 acres) sited in the northeast corner of the property where greater privacy will be felt.

See Exhibit C for a map showing the open space.

12.Major Public Infrastructure Standards

Streets

All streets will be paved and will meet the county's road specs. The street rights-of-way are fifty feed wide. We do not anticipate including street furniture.

Sidewalks/Trails

To maintain an essence of the rural feel of Spanish Valley the streets and lots have been purposefully designed to not have sidewalks. There will be a network of trails for residents and visitors to enjoy sited in the open spaces. The trails within the central open space will be approximately 5-6' wide and will be finished with crushed gravel to ensure durability. The trails in the northeast portion of the property will follow a more natural style and will be more of a hiking path that you would find in a wilderness setting. There will be some benches provided along the trails.

Community Lighting

Dark sky preservation will be the prevailing theme. Limited public lighting will be provided. All lighting will be high quality and commercial grade, "Dark Sky" compliant, and will meet the requirements in the county code.

Clubhouse and Grounds

The clubhouse and associated amenities will be built early in the development of the project. On approximately 3 acres there will be a clubhouse, pool, pickleball and tennis courts (which may double as a basketball court), and a playground. The proposed locations are shown on the conceptual plan. Following, are photos of some amenities we built for a community we developed in St. George, UT:





13.Building Standards

Architectural Form

To create a community that fits into the natural environment and setting, the Balanced Rock community will advance architectural design standards that will create a cohesivelooking community. The design standards will apply to single-family, duplexes, townhomes (live/work/play), clubhouse and lodge.

Currently the Modern Desert style of architecture best captures our vision for the look and feel we like for the community. Here are some examples of the style:



The design, but not the Modern Desert style, of the live/work/play townhomes is represented by this photo:



The use of appropriate exterior materials for all structures will be chosen regarding colors that fit into the desert landscape, and for their permanence and resilience for maintenance.

Structure setbacks will conform with San Juan County codes.

Plumbing, maintenance, and mechanical equipment should be located on the interior of buildings whenever possible. If it is necessary to locate such features outside of building or on roofs, they should be screened using parapet walls, high-quality site walls, and other screening methods that match the quality and look of the structure.

Walls and Fencing

To maintain as sense of open space and community, the use of walls to separate lots will be discouraged unless they are made of high-quality materials (concrete, stone, adobe, etc.) and built with changes in height or other design features to enhance architectural interest. Fences, if any, will be made of metal (wrought iron or similar) or wood of a design that falls within the Modern Desert theme. Plastic/vinyl and chain-link fencing will not be allowed.

RV/Trailer Parking

Residents and visitors will be encouraged to park RVs and trailers in the provided parking lot.

Landscaping and Irrigation

Water-wise landscaping will be mandated and will follow the Spanish Valley Water Efficient Landscape ordinance to ensure that the water resources available in the region are used wisely and conserved. It is anticipated that the minimal landscaping that will be required near the clubhouse will be drawn from the existing well and the water rights associated with it.

All areas of lots and parcels not designated for open space, parking, buildings, or other hard surfacing shall be landscaped and properly maintained. The well water will be used to help establish drought tolerant plants and shrubs.

Designated open space shall remain in a natural condition ad properly maintained. A small grass area may be planted in the immediate area of the playground and pool area.

Maintenance

The applicable owners shall properly maintain all private areas of individual lots or parcels.

A Homeowners Association (HOA) will be established to manage the maintenance of all common area improvements including buildings, open space, recreational facilities, roads, fences/walls, utilities, landscaping, walkways, streetlights, and signs not specifically dedicated to or accepted for ownership or maintenance by San Juan County or other incorporated entity. The HOA will collect fees from lot owners to cover these costs.

EXHIBIT A



EXHIBIT B

	64 E Tangre	n Ln – 375 S Main 9 435-459-	St #234 - M 4121	loab, UT	84532
ate: January 20, 20	23				
ailing Address:	pielman Charitable R V. Main Street, #123	lemainder Trust			
ty: Cortez	Stat	te: Colorado	Zip:	81321	
hone:435-260-1383		_			
Mail: 2karlspielman@	comcast.net				
ontact Person(If Differer	t):Jim Schnepe	4			Property Developer
ontact Phone:	801-231-3666	jbschnepel⊜yaho	oo.com		201 S. Main Street, Suite 2000 SLC UT 84111
ervice Address:185 :	3. Planesfield Drive, S	panish Valley			Development Name Balanced Rock Resort
arcel Number: 27\$23E0	53001, 27S23E0630	00, 27S22E01000	1	Need Se	ervice For
equested Services:	wer and Water service	e		216 Re	sidential Units:
roject Type Residential	Commercial Industr	rial)		84 34 21	Duplex Units (42 buildings) Townhomes (Live/Work/Play) Total
leter Size Requested V	arious		-	130 Los	dge Rooms

This approval is A PRELIMINARY proof of service availability. SJSVSSD REQUIRES A WILL SERVCE APPLICATION, FEE AND DEVELOPMENT REVIEW PRIOR TO FINAL APPROVAL

EXHIBIT C


ltem 6.



















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STAFF REPORT

MEETING DATE:	March 9, 2023
ITEM TITLE, PRESENTER:	Spanish Valley Storm Water Master Plan, Greg Poole, Hansen Allen and Luce Engineers
RECOMMENDATION:	Consideration and Recommendation

SUMMARY

This Spanish Valley Storm Water Master Plan was a prepared by Hansen, Allen and Luce Engineers. The plan was paid for by SITLA and San Juan County. County staff formed the stakeholder committee in the development of the plan.

The Planning Commission will make a recommendation to the Board of San Juan County Commissioners for adoption of the plan.

Possible Recommendations:

1. Include the Spanish Valley Storm Water Master Plan as an exhibit of the San Juan County Land Use and Development Ordinance (LUDMO).

OR

 Codify the Spanish Valley Storm Water Master Plan as an Exhibit to the San Juan County Spanish Valley Development Ordinances of the San Juan County Zoning Ordinance, September 13, 2019, and modify the Table of Contents of the San Juan County Spanish Valley Development Ordinances of the San Juan County Zoning Ordinance, September 13, 2019 to include this plan

HISTORY/PAST ACTION

N/A



SPANISH VALLEY

STORM WATER DRAINAGE MASTER PLAN

(HAL Project No.: 452.02.100)

February 2023

SPANISH VALLEY

STORM WATER DRAINAGE MASTER PLAN

(HAL Project No.: 452.02.100)



Gregory J. Poole, P.E. Principal, Project Manager



February 2023

ACKNOWLEDGEMENTS

Successful completion of this master plan was made possible by the cooperation and assistance of many individuals, including the personnel as shown below. We sincerely appreciate the cooperation and assistance provided by these individuals.

San Juan County

Mack McDonald - San Juan County Chief Administrative Officer Kent B. (Sam) Cantrell – PLS, San Juan County Surveyor Jacob Regalado – Chief Deputy Surveyor Devlin McCarthy – Deputy Surveyor Scott Burton – Subdivision Administrator Todd Adair - Road Superintendent Tammy Gallegos - Emergency Director

School Institutional Trust Lands Administration

Elise Erler - SITLA - Development

Hansen, Allen, & Luce, Inc.

Gregory J. Poole - PE, Project Manager Kayson Shurtz – PE, Pack Creek Master Plan Dan Jones – PE, Development Drainage Master Plan

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EXECUTIVE SUMMARY

Storm water runoff is a difficult resource to manage. In a dry climate such as Utah's, existing drainage ways are often dry and, to the inexperienced, may appear to be prime places to construct buildings. Storm water flows are dependent on many complex time and spatially varied factors. Even a natural undeveloped drainage system is not static: streams can erode in one section while depositing in another; stream courses can also change alignment and cross section dramatically with just one storm runoff event. Urbanization compounds the problem and creates a need for a drainage system with the basic goals of managing nuisance water, protecting development from damage, and protecting downstream waters from adverse quality and quantity impacts.

Spanish Valley is expected to experience significant population growth and development. San Juan County recognizes the importance of developing a drainage master plan to guide development planning. This storm drainage master plan focuses on the San Juan County Spanish Valley floor where most of the development is expected to occur.

The San Juan County Area Plan (2018) and the South Valley Community Structure Plan (2022), prepared by Landmark Design for the School and Institutional Trust Lands Administration (SITLA), provide a framework for future development and a basis for storm drainage master planning.

KEY MASTER PLAN OBJECTIVES

- Protect developments from flooding in events up to the design storm runoff event.
- Potential development impacts on storm water quality and quantity to Pack Creek must be mitigated.
- Plan facilities with maintenance in mind.

STUDY AREA

The study area includes the San Juan County Spanish Valley floor south of the county line plus directly tributary areas.

PACK CREEK MASTER PLAN

Pack Creek poses a flood hazard risk to a significant portion of the San Juan County Spanish Valley floor. The braided nature of the channel network in the southern end of the valley is evidence of an alluvial fan. Above the valley floor Pack Creek flood flows are confined in mountain ravines which have high gradients and convey large quantities of eroded sand, rock, and boulders out onto the valley floor. On the valley floor land slopes are reduced and flood flow velocities are reduced depositing sediment and debris that form a fan shape. The erosion/deposition process results in channel braiding where channels are alternately cut and filled with sediment. This phenomenon is commonly referred to as an alluvial fan.

HAL performed a hydrologic study on Pack Creek previously to help San Juan County and SITLA better understand the flood hazards in Spanish Valley (HAL, 2019). San Juan County and SITLA are pursuing a recommendation from that study to develop debris basins and other facilities with sufficient capacity to convey the 1% chance flood event.

Two debris basins are currently planned as part of a Natural Resources Conservation Service (NRCS) project upstream of the drainage master plan study area. These new debris basins are

expected to reduce debris floods on the alluvial fan. In addition to the debris basins, a Pack Creek flood control basin is proposed to reduce the 1% chance flood flows.

The Pack Creek flood control basin is conceptually sized to provide about 423 acre-feet of flood attenuation storage. The flood control basin will normally be dry with available storage space to reduce storm runoff peak flood flowrates during a 100-year 24-hour storm event from 5,200 cfs to 1,500 cfs.

The Pack Creek master plan includes channel improvements below the flood control basin. The master plan improvements include grade control structures, channel forming and lining, and road crossings. The Pack Creek master plan alignment and proposed flood control basin are shown in **Figure EX-1**. The preferred channel cross section is shown in **Figure EX-2**. Conceptual construction cost estimates for the Pack Creek improvements are provided in **Table EX – 1**.

ltem	Estimated Construction Cost	Notes
Flood Control Detention Basin	\$6,000,000	Cost estimate does not include land costs
Channel Improvements	\$16,800,000	Total assumed length is 16,400 ft (from proposed detention basin to County line). Cost includes grouted boulder drops and protection for the low flow channel.
Typical Road Crossing	\$430,000	Assumes three 9' x 6' box culverts to pass 1,500 cfs without overtopping the road.

Table EX-1. Conceptual Cost Estimates for Pack Creek



Figure EX-2 – Preferred Pack Creek Master Plan Cross Section



All new developments to implement Low Impact Development to control runoff up through the 10-year storm event.

New developments to detain on site the 100year release to 0.1 cfs per acre.

Legend

- Points of Interest
- Existing Flow Paths
- - Future Flow Direction
- Pack Creek Master Plan Alignment

Master Plan Conveyance by Type

- Regional
- ····≺···· Local
 - Future Subbasins
 - **CSP** Boundary
 - CSP Roads
 - San Juan County Line
 - Pack Creek Flood Control Basin

Land Owner

- BLM
- Private
- SITLA

FIGURE EX-1

DRAINAGE DESIGN CRITERIA

Several workshops were held with San Juan County staff. The following storm drainage design criteria were selected for implementation in the San Juan County portion of Spanish Valley:

- Design minor storm is the 10-year 24-hour storm event.
- Design major storm is the 100-year 24-hour storm event. Future development buildings are to be protected from flooding in events up to the 100-year storm event.
- Require Low Impact Development to control minor storm runoff:
 - Minimize directly connected impervious area.
 - Use Rain Gardens and Dry Wells (sumps) with pre-treatment to capture and infiltrate runoff from a 10-year storm event close to the source of runoff.
- Require detention basins to control major storm runoff to pre-development rates.
- Downhill cul-de-sacs and sags in streets which are not located at an intersection are to be avoided.
- Maintenance:
 - Assure adequate access.
 - No drainage structures placed on back lot lines.

SPANISH VALLEY SOILS

Most of the soils in the Spanish Valley floor in the study area are classified as hydrologic soil group A and are highly permeable well drained soils.

UNDISTURBED NATIVE VEGETATION STORM RUNOFF CHARACTERISTICS

The predevelopment condition was established in the model by applying the design storm to a basin with a Curve Number of 60. This number was selected as the predominant soil group is A and the cover is most like desert shrub in fair to poor condition. The resultant runoff volume and peak discharge per unit area are tabulated in **Table EX-2**. The values in **Table EX-2** represent the hydrologic characteristics of the undisturbed native vegetation condition.

Storm Frequency (24-hour)	10-year	100-year
Percent Annual Chance Exceedance	10%	1%
Precipitation (inches)	1.80	2.81
Runoff Volume (acre-inches/acre)	0.03	0.27
Peak Flowrate (cfs/ac)	0.004	0.1

Table EX-2 Undisturbed Vegetation Storm Runoff Characteristics

DEVELOPMENT CHARACTERISTICS

The San Juan County Area Plan (2018) and the South Valley Community Action Plan (2022), prepared by Landmark Design for the School and Institutional Trust Lands Administration (SITLA), provide a framework for future development and a basis for drainage master planning.

DEVELOPMENT STORM DRAINAGE MASTER PLAN ALTERNATIVES

<u>Minor storm</u>. To prevent increased runoff during the 10-year storm for new development (commensurate with undisturbed native vegetation runoff), sumps or other infiltration means should be implemented to retain and infiltrate the runoff from a 10-year storm event onsite.

<u>Major storm</u>. To prevent increased peak storm runoff flowrates from new development during the 100-year storm (commensurate with undisturbed native vegetation, see **Table EX-2**), detention and conveyance need to be added. There are two primary approaches for construction and maintenance of detention basins: regional and local. A comparison of the pros and cons of regional and local detention alternatives is summarized in **Table EX-3**.

	л Базін Арр	
Category	Regional	Local
Maintenance/Number of facilities	Low	High
Cost per acre-foot detention storage	Typically lower	Typically higher
Opportunity to "double store"	Lower	Higher
Conveyance Sizing	Larger	Smaller
Funding and Phasing difficulty	Higher	Low

Table EX-3 Pros and Cons of Each Detention Basin Approach

Due to the funding constraints, the County has indicated a preference for the local detention approach for implementation in the master plan. Regional facilities may be permitted or required on a case-by-case basis.

Figure EX-1 shows a concept of the design flowrates for major conveyances under the local detention approach. **Table EX-4** provides a conceptual construction cost estimate for the major storm drainage conveyance facilities shown on **Figure EX-1**.

Table EX-4 Conceptual Cost Estimates of the Master Plan Regional Storm Drainage Facilities

PROJECT	COST*
Master Plan Conveyances	\$6,310,000
Coronado (new outfall to Pack Creek) \$512,000	
Mt. Peale Drive (drainage crossing replacement)	\$102,000

* Assumes that the local detention option is selected. Also assumes that Master Plan Conveyances are pipes. Includes 30% for contingency and engineering.

CHAPTER 1 – INTRODUCTION

BACKGROUND

Storm water runoff is a difficult resource to manage. In a dry climate such as Utah's, existing drainage ways are often dry and, to the inexperienced, may appear to be prime places to construct buildings. Unlike sanitary sewers and culinary water systems, there are no clearly defined minimum service requirements for storm water systems. Storm water flows are dependent on many complex time and spatially varied factors. Even a natural undeveloped drainage system is not static: streams can erode in one section while depositing in another; stream courses can also change alignment and cross section dramatically with just one storm runoff event. Urbanization compounds the problem and creates a need for a drainage system with the basic goals of managing nuisance water, protecting development from damage, and protecting downstream waters from adverse quality and quantity impacts.

"Stormwater (runoff) management is the planned set of public policies and activities undertaken to regulate runoff under various specified conditions within various portions of the urban drainage system (McPherson 1970). It may establish criteria for control of peak flows or volumes, for runoff detention and retention, or for control of pollution, and may specify criteria for the relative elevations among various elements of the drainage system. Stormwater management is primarily concerned with limiting future flood damages and environmental impacts due to development, whereas flood control aims at reducing the extent of flooding that occurs under current conditions (Walesh 1987)." (After "The Urban Water Resources Research Council of the American Society of Civil Engineers and the Water Environment Federation, 1992").

Spanish Valley is expected to experience significant population growth and development. San Juan County recognizes the importance of developing a drainage master plan to guide development planning. This storm drainage master plan focuses on the San Juan County Spanish Valley floor where most of the development is expected to occur.

The San Juan County Area Plan (2018) and the South Valley Community Structure Plan (2022), prepared by Landmark Design for the School and Institutional Trust Lands Administration (SITLA), provide a framework for future development and a basis for storm drainage master planning.

Low impact development (LID) techniques should be implemented as close as possible to the source of the runoff. Inherent in development is an increase in impervious area which can increase the volume and peak of storm water runoff. The Spanish Valley study area soils are permeable and LID practices including infiltration will be effective in mitigating the potential impacts. LID practices will potentially reduce initial infrastructure costs. The study area soils are conducive to the use of dry wells (sumps) to infiltrate runoff near the source and thus reduce the size and cost of downstream conveyance systems while recharging the valley fill aquifer.

KEY MASTER PLAN OBJECTIVES

- Protect developments from flooding in events up to the design storm runoff event (see drainage design criteria below).
- Potential development impacts on storm water quality and quantity to Pack Creek must be mitigated.

• Plan facilities with maintenance in mind.

AUTHORIZATION

The San Juan County and SITLA selected Hansen, Allen & Luce, Inc. (HAL) to prepare the Storm Water Drainage Master Plan. The Storm Water Drainage Master Plan has been completed in accordance with the agreement between SITLA and HAL dated March 15, 2022. The Storm Water Drainage Master Plan was completed under the direction of and in cooperation with San Juan County staff.

STUDY AREA

The portion of Spanish Valley included in the study area is shown on **Figure 1-1** and includes the San Juan County Spanish Valley floor south of the county line plus directly tributary areas.



CHAPTER 2 – STORM RUNOFF HYDROLOGY

The project team adopted a workshop approach with San Juan County staff to determine the design criteria, study areas, analysis processes, deficiencies, alternatives, and solutions. This section describes the methodology followed in developing the Master Plan.

DRAINAGE DESIGN CRITERIA

Several workshops were held with San Juan County staff. The following storm drainage design criteria was selected for implementation in the San Juan County portion of Spanish Valley.

- Design minor storm is the 10-year 24-hour storm event.
- Design major storm is the 100-year 24-hour storm event. Future development buildings are to be protected from flooding in events up to the 100-year storm event.
- Require Low Impact Development to control minor storm runoff.
 - Minimize directly connected impervious area.
 - Use Rain Gardens and Dry Wells (sumps) with pre-treatment to capture and infiltrate runoff from a 10-year storm event close to the source of runoff.
- Require detention basins to control major storm runoff to pre-development rates.
- Downhill cul-de-sacs and sags in streets which are not located at an intersection are to be avoided.
- Maintenance:
 - Assure adequate access.
 - No drainage structures placed on back lot lines.

HYDROLOGY

Hydrology is the study of the movement, distribution, accumulation, and management of water. For this Master Plan, the hydrology performed includes selecting a rainfall design frequency and storm distribution; subbasin area delineations and calculations; calculating runoff potential using soil data, land cover, and impervious surface estimates; and estimating the timing of peak runoff. This chapter details these processes in greater detail.

Design Frequencies

Spanish Valley selected design storm event frequencies of 10-year (10% chance of being equaled or exceeded in any given year) and 100-year (1% chance of being equaled or exceeded in any given year) for this study. Criteria included:

- 10-year 24-hour design capacity for the initial retention system. The initial retention system includes sumps, rain gardens, bioretention cells, rainwater harvesting, and infiltration basins, trenches, or galleries. Stormwater discharge should be zero for storms smaller than or equal to this event.
- 100-year conveyance capacity where flooding of homes may occur.
- 100-year 24-hour storm runoff capacity on all detention facilities. Release rate should be restricted to the pre-development discharge rate (0.1 cfs/acre, see Table 2-3 Undisturbed Vegetation Storm Runoff Characteristics, below).
- A minimum freeboard of 1-foot for open channel conveyances and detention facilities should be provided during a 1% chance storm event.

Design Storms

The design storm distribution is how the precipitation falls throughout a storm of a particular duration. Selection of an appropriate storm distribution is important because it determines peak flows through pipes and channels and peak storage volumes in detention ponds. These results, determined in part by storm distribution, dictate the sizing of projects designed to solve existing deficiencies.

The storm distribution selected for use in this plan is the 24-hour NRCS Nested distribution which can be seen in **Figure 2-1**.

Precipitation depths were obtained from *NOAA Atlas 14: Precipitation-Frequency Atlas of the United States* (Bonnin et al. 2004; NOAA 2013). The design storm rainfall depths modeled for this Master Plan are seen in **Table 2-1**.

Modeled Rainfall Depths		
Storm Frequency	24-hr Depths	
10-yr Rainfall Amount (in)	1.80	
100-yr Rainfall Amount (in)	2.50	





DEVELOPMENT OF THE HYDROLOGIC MODELS

As part of the Master Plan, HAL developed a hydrologic computer model to simulate runoff during storm events. The software used to develop this hydrologic model was HEC-HMS version 4.10.

Subbasins

A drainage basin, also called a subbasin, watershed or catchment, is an area in which all rainfall or snowmelt runoff will collect to a common point (the lowest point in the basin). Drainage basin boundaries depend upon both the topography and the location of storm drainage facilities. Subbasin characteristics developed for this plan were based on aerial imagery, soil data, GIS mapping, land use information from the County, and engineering literature. Important subbasin characteristics described below include 1) area, 2) hydrologic soil group, 3) percentage of impervious area, 4) SCS curve number (CN), 5) Subbasin width, and 6) overland flow characteristics. Much of the methodology is documented in *Technical Release 55: Urban Hydrology for Small Watersheds* (NRCS, 1986), hereafter referred to as TR-55.

Subbasin Area

The amount of runoff is proportional to the area of the subbasin. The study area was divided into drainage subbasins based on best available mapping and planning. The estimated future subbasins are shown on **Figure 2-2**.

Hydrologic Soil Group

Hydrologic soil group is a general indication of a soil's infiltration capacity and is a key determinant of runoff behavior. The Natural Resources Conservation Service (NRCS) has classified soils into four hydrologic groups A, B, C, and D. Soils of group A have the highest infiltration rate and therefore produce the least amount of runoff. Group A soils include permeable gravels and well-drained sands. Group B soils have moderate infiltration rates and moderately fine or coarse textures. Group C soils have a lower infiltration rate and finer textures, sometimes with a layer that impedes infiltration. Soils of group D have the lowest infiltration rate and produce the highest amount of runoff. Group D soils include fine silts, clays, and other soils with low infiltration rates. Soil groups are described in TR-55 (NRCS, 1986).

Group A soil is the most prevalent in the Study area and is geologically associated with the valley fill. As the landscape changes to the rocky cliffs, the soil type also changes to soil type D. Soil data for this study originated from the NRCS Web Soil Survey (Canyonlands Area Soil Survey, 2020). A soil map of the Study area is shown in **Figure 2-3**. The hydrologic soil group is a factor used to determine the CN for each subbasin.

Land Use

Different types of land cover in a watershed determine to what degree water infiltrates, accumulates (remains as puddles), or flows over the land (runoff). Various land covers have higher or lower amounts of interception and evapotranspiration. The land cover used in the hydrologic model was developed through a field visit and through available aerial imagery. The predominant land cover for undeveloped areas is most closely associated with TR-55's desert shrub in poor to fair condition or sagebrush in poor hydrologic condition. To develop curve numbers for poor to fair condition, a linear average was computed for the desert shrub between poor and fair conditions. As sagebrush with grass understory does not have a curve number for soil type A, it was assumed to be the same as desert shrub in poor to fair condition. The existing land cover can be seen in **Figure 2-4**.

Impervious Area

Impervious areas within each subbasin were assumed to be disconnected from the runoff network, which assumes that runoff will flow over a pervious region at some point in its flow to Pack Creek. The future model also assumed that impervious areas would remain disconnected, through implementation of Low Impact Development (LID) practices and careful planning. The future model shows the need for and impact of not implementing LID, and therefore design future flows assume development occurs according to this Master Plan. Flows from the future hydrologic model were reduced by applying the discharge per area requirement to the upstream detained area and adding it to the more local undetained flows.







SCS Curve Number

Each subbasin was assigned a curve number based on hydrologic soil group, land use, and ground cover type as outlined in Chapter 2 of TR-55 (NRCS, 1986). The curve number describes the relationship between precipitation and runoff for the pervious and unconnected impervious portions of the subbasin. Practical curve numbers range from 30 to 98. Areas that are more pervious have lower curve numbers. For example, a well-vegetated subbasin with sandy soils and little impervious area would have a lower curve number than a poorly vegetated subbasin with clay soils and a significant amount of impervious area. Curve numbers used in the model for existing conditions on the valley floor are shown on **Table 2-2**.

Curve Number Assignment Table	
TR-55 Category	CN
Sagebrush Grass, Poor-Fair	60
Desert Shrub, Poor	64
Desert Shrub, Poor-Fair	60
Residential 1 Acre Lots	68
Open Water	98

Table 2-2
Curve Number Assignment Table

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UNDISTURBED NATIVE VEGETATION STORM RUNOFF CHARACTERISTICS

The predevelopment condition was established in the model by applying the design storm to a basin with a Curve Number of 60. This number was selected based on Hydrologic Soil Group A with a cover which is most similar to desert shrub in fair to poor condition. The timing and area of the basin were selected from Subbasin-15, which is a basin that is nearly untouched by development. The resultant runoff volume and peak discharge per unit area are tabulated in **Table 2-3**.

Undisturbed Vegetation Storm Runoff Characteristics		
Storm Frequency	10-year	100-year
Percent Annual Chance Exceedance	10%	1%
Precipitation (inches)	1.80	2.81
Runoff Volume (acre-inches/acre)	0.03	0.27
Peak Flowrate (cfs/ac)	0.004	0.1

Table 2-3Undisturbed Vegetation Storm Runoff Characteristics

Table 2-3 represents the hydrologic characteristics of the undisturbed native vegetation condition. This is an important baseline as it is the metric against which new development is graded. For a new development to have no adverse effects on its downstream neighbors, it must detain to the undisturbed flowrates reported above. All development will increase volume and there is potential for increased flows due to hydrograph aggregation from several detention basins; however, the peak flows should not exceed predevelopment conditions. As the discharge per acre is quite low for a 10-year event, and as the soils are well suited for infiltration, San Juan County has selected a full retention policy for the 10-year event. For the 100-year event, Spanish Valley has selected a detention release rate of no greater than 0.1 cfs per tributary acre.

DEVELOPMENT CHARACTERISTICS

Community Structure Action Plan

A draft version of a document titled the Community Structure Plan for the South Valley Community dated July 13, 2022, was provided to HAL. The Community Structure Plan (CSP) describes a land-use vision of the community and includes planning and description of community boundaries, development densities, a circulation plan, and utility connections and improvements.

Volume weighting was performed to the Curve Numbers to account for increased future impervious percentage. The assumed future percentage impervious was developed according to zoning maps provided in the Planned Community Rezone Application (e.g. Map 2, CSP). Predicted future impervious percentage is shown in **Figure 2-5**.

Infill Assumptions

As one-acre lots are subdivided into quarter-acre lots, infill is expected to happen which will result in an increase in impervious area. The projected future impervious percentage is shown in **Figure 2-5**. We recommend that new lots be required to provide sumps to capture and infiltrate the runoff from storm events up to a 10-year 24-hour storm from the new impervious area.



CHAPTER 3 – PACK CREEK MASTER PLAN

HAL performed a hydrologic study on Pack Creek previously to help San Juan County and SITLA better understand the flood hazards in Spanish Valley (HAL, 2019). San Juan County and SITLA are pursuing recommendations from that study to develop debris basins and other facilities with sufficient capacity to convey the 1% chance flood event.

The results of the prior study predict that the 1% annual chance exceedance peak flood flow for Pack Creek at the San Juan County line is about 5,200 cfs. The 10% annual chance exceedance peak flood flow estimated by the HMS model is about 2,400 cfs.

Pack Creek poses a flood hazard risk to a significant portion of the San Juan County Spanish Valley floor. The braided nature of the channel network in the southern end of the valley is evidence of an alluvial fan. Above the valley floor, Pack Creek flood flows are confined in mountain ravines which have high gradients and convey large quantities of eroded sand, rock, and boulders out onto the valley floor. On the valley floor, land slopes are reduced; and flood flow velocities are reduced depositing sediment and debris forming a fan shape. The erosion/deposition process results in channel braiding where channels are alternately cut and filled with sediment. This phenomenon is commonly referred to as an alluvial fan.

The Pack Creek alluvial fan presents a special flood hazard (see SITLA Flood Hazard Mapping memo, HAL 2019). Two debris basins are currently planned as part of a Natural Resources Conservation Service (NRCS) project upstream of the drainage master plan study area. These new debris basins are expected to reduce debris floods on the alluvial fan. In addition to the debris basins, a flood control basin is proposed to reduce the 1% chance flood flows.

Pack Creek is an intermittent stream through the study reach with visibly flowing water occurring during periods of snow melt and rainfall events. The creek bed is dry much of the year (see **Figure 3-1**). The water table is deep in the valley floor, and the stream channel lacks riparian vegetation.



Figure 3-1. Pack Creek Channel in Valley Floor

FLOOD CONTROL BASIN

San Juan County and SITLA are exploring the option of constructing a detention basin on Pack Creek to reduce peak flowrates and protect existing homes and structures; it will also make more land developable. The general location of the proposed detention basin is southeast of the gravel pits that are owned by SITLA. A conceptual figure showing the approximate size, location, and extents of the potential basin is shown in **Figure 3-2**.


Figure 3-2. Conceptual Detention Basin Location and Extents

The detention basin would be downstream of debris basins that are currently in the design phase. The hydrologic model developed previously was used to estimate the required detention volume for various release rates. A hypothetical dam was added to the existing terrain data at a location selected by SITLA and San Juan County. A storage elevation curve was developed based on anticipated grading and the assumption that much of the material to create the detention basin embankment could come from material excavated on site.

It was estimated the required berm height would be approximately 35 feet above lowest existing elevation and would require about 156 acre-ft of material for the prism of the detention embankment. It was assumed that 100 of the 156 acre-ft of required volume could be extracted within the first 8 feet above the lowest existing elevation. The estimated elevation storage curve for the potential detention basin is shown in **Figure 3-3** below.



Figure 3-3. Hypothetical Future Pack Creek Detention Basin Storage vs. Elevation Curve

A recent relatively high flow event on Pack Creek was reported at approximately 1,500 cfs. Existing dwellings along Pack Creek in San Juan County and in Grand County were not impacted by the flow. Minor damage occurred during the event but was mostly attributed to excessive debris and not necessarily the flowrate. The general thought has been if the upstream debris basins significantly reduce debris loads and the flowrate can be reduced to 1,500 cfs via the flood control detention basin, then existing dwellings along Pack Creek in San Juan and Grand counties will not be flooded in a 1% chance event.

The model was then run with an orifice sized to release 400 cfs up to 8 feet of depth and 100acre-ft of volume (2-5 year event). A second orifice was set at a depth of 8 feet and sized to release a combined 1,500 cfs for the 100-year flood event. A summary of the orifice configuration is shown in **Table 3-1**.

Orifice #	Elevation (ft)	Area (sf)	Coefficient		
1	5064	29	0.61		
2	5072	31	0.61		

Table 3-1. Summary of Assumed Orifice Configuration

The required volume based on the configuration described above is approximately 423 acre-feet. The model results are shown in **Figure 3-4**.



Figure 3-4. HEC-HMS Pack Creek Model Detention Analysis Results

PACK CREEK CHANNEL MASTER PLAN CROSS SECTION

Below the proposed flood control basin, Pack Creek will need stabilization and increased conveyance to accommodate the existing and proposed developments. The following channel design criteria were selected in consultation with SITLA and San Juan County.

Design Flow

- Low Flow Channel capacity = 400 cfs (approximately 2 to 5-year detained release)
- Total Channel capacity = 1,500 cfs (100-year detained release)

Channel Hydraulics

- Maximum Froude Number in low flow channel = 0.8
- Low Flow Channel riprap design based on safety factor method with a safety factor of 1.5. Calculated D50 is 9-inches.

3-5

• Composite channel will be sized to convey the 1,500 cfs.

The recommended Pack Creek channel design includes the use of grade control structures. The existing slopes are too steep for subcritical flow; Froude numbers less than or equal to 0.8 are desirable for a stable channel design. The recommended Pack Creek Channel design involves a series of stable channel reaches and grade control structures as needed based on ground slopes. An example profile of how this may look is shown in **Figure 3-5**. The typical spacing between drops for a 3- and 4-foot drop are provided in **Table 3-2**.



Figure 3-5. Typical Pack Creek Design Channel Profile

	Typical 3' Drop Spacing (ft)	Typical 4' Drop Spacing (ft)
	Design Channel Slope (ft/ft)	Design Channel Slope (ft/ft)
Ground Slope (ft/ft)	0.01	0.01
0.030	150	200
0.025	200	267
0.020	300	400

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The preferred method for grade control is the Grouted Sloping Boulder Drops with criteria as specified in the Urban Storm Drainage Criteria Manual, Volume 2, Mile High Flood District Denver, Colorado (MHFD, 2016). **Figure 3-6** shows an example of a grouted boulder drop profile with a free draining stilling basin.



Figure 3-6. Grouted Boulder Drop Profile Drawing (MHFD, 2016)

Preferred Pack Creek Channel Section

The preferred composite design channel cross section for Pack Creek downstream of the proposed detention basin is shown in **Figure 3-7**.

Low flow channel

- Bottom Width of 15 feet
- Side slopes of 3H:1V
- Channel slope of 1%
- Riprap protection D50 of 9-inches
- Depth of approximately 2.75 feet

The Preferred Composite Channel Cross Section extends out beyond the top of the low flow channel by 11 feet on each side, and then has 3:1 side slopes up to the existing grade (total required width varies based on proximity to drop structures).

Narrow Pack Creek Channel Section

In areas where top width is limited due to existing development, gabion walls could be used to reduce the required top width while keeping the low flow channel the same. The typical narrow cross section configuration is shown in **Figure 3-8**.



Figure 3-8. Pack Creek Narrow Cross Section (for use where existing channel encroachments preclude use of the preferred cross section)

Item 7.

MASTER PLAN TYPICAL ROAD CROSSING

Two alternatives for crossings to allow conveying the 100-year flood event without impacting buildings have been investigated: 1) use of box culverts with sufficient capacity to convey the 100-year flood event without overtopping the road, and 2) use of a depressed road surface in the section of the crossing with a culvert sized sufficiently to convey 1,500 cfs with combined culvert and weir flow over the road.

Box Culverts Sized for 100-Year Flood Event

Because of the available gradients through the study reach (generally greater than 2%), box culverts for the road crossings have been conceptually sized and are shown below based on inlet control conditions.

- Approximate Size is three 9' x 6' box culverts to pass the 1,500 cfs.
- Approximate Size is one 15' x 6' box culvert to pass the 1,100 cfs (the additional 400 cfs of weir flow would require approximately 1.5 feet of head and 75 feet of weir length).

In the situation where weir flow over the road is possible, signs should be placed in the road to warn of the flood prone nature of the crossing.

We recommend that the culverts be sized to carry the full 1,500 cfs without overtopping the road. Because the flows are being detained, the likelihood that the channel will experience flows of this magnitude is increased significantly.

Existing Crossings

The existing crossing at Sunny Acres Lane is severely undersized and should be improved as the design channel is constructed in that area. The existing crossing at Old Airport Road currently has sufficient capacity to pass the 1,500 cfs without overtopping. No existing dirt road crossing has sufficient capacity for the design flows. These crossings should either be removed or improved to provide sufficient capacity for the design flow of 1,500 cfs. This will become increasingly important as development occurs, because bottlenecks in the creek increase flood risk.

CONCEPTUAL CONSTRUCTION COST ESTIMATES

Construction cost estimates for the detention basin, channel improvements, and typical road crossings are provided in **Table 3-3**. The unit cost for channel improvements is approximately \$1,000 per linear foot.

Item	Estimated Construction Cost	Notes
Detention Basin	\$6,000,000	Cost estimate does not include land costs
Channel Improvements	\$16,800,000	Total assumed length is 16,400 ft (from proposed detention basin to County line). Cost includes grouted boulder drops and protection for the low flow channel.
Typical Road Crossing	\$430,000	Assumes three 9' x 6' box culverts to pass 1,500 cfs without overtopping the road.

3-8

 Table 3-3. Conceptual Cost Estimates for Pack Creek

CHAPTER 4 – STORM DRAINAGE MASTER PLAN

The existing storm drainage system in Spanish Valley is primarily open channel, comprised mostly of creeks, washes, roadside swales, irrigation ditches, and some culvert road crossings. The proposed development will change the landscape of Spanish Valley and will require associated drainage improvements. This chapter discusses the existing drainage deficiencies and the plan to prevent future deficiencies for both existing and future landowners as land develops.

EXISTING DRAINAGE DEFICIENCIES

The existing deficiencies in this master plan were identified by San Juan County staff for areas which constituted known drainage issues. Identified existing drainage deficiencies and possible solutions are described below by location.

Coronado

The residence of 110 East Coronado Street has been flooded several times according to the County. The contributing drainage area to 110 East Coronado Street for minor storm events appears to be limited to local drainage. Major storm events could contribute flow from south of Coronado Street or east of Cabrillo Street. This location is particularly hazardous as the driveway directs flow away from the road into or near the house. Some possible solutions which would resolve the minor event flooding include:

- 1. Adding sumps on both sides of the driveway which would intercept and infiltrate the road drainage.
- 2. Increasing conveyance by improving the ditch along the east side of the driveway.
- 3. Developing storage in the undeveloped land east of the driveway.

The ideal option is of course elevation of the structure and, wherever possible, this option should be employed. This example serves as a reminder why homes should be elevated and driveways sloped down to the road.

There is an irrigation ditch on the south side of Coronado which, if it overtops, would spill some flow north across Coronado during large events. Solving the major event flooding would require also installing detention or retention upstream. Good siting for this basin or these basins would include the areas immediately south of the property and/or the southeast corner of the intersection at Coronado and La Sal Loop Rd.

Rio Grande

Any flow from the major event that does not cross Coronado at the location discussed above, crosses Rio Grande Drive just to the west. According to LiDAR, the minimum crest elevation for Rio Grande is approximately one foot lower than that of Coronado's (4791.2 compared to 4792.2). This means that this conveyance path receives 100% of the storm runoff from south of Coronado Street until the flood is large enough to overtop Coronado, at which time both locations experience major flooding. A potential solution for this location includes a culvert under Rio Grande Drive to convey the design peak flow. The selected master plan solution is to construct a new conveyance to Pack Creek from the west end of Coronado.

Mt. Peale

The crossing of the open drainage way (wash) just east of Sky Ranch airport with Mt. Peale Drive results in the closing of the road during flood events. The neighborhood just east of the crossing has more than 50 homes and is currently accessible only via Mt. Peale Drive. It is recommended that the design event for this crossing be the 100-year storm. The 100-year design flow for this crossing is 118 cfs. A 54-inch diameter culvert operating under inlet control is adequate to pass the design flow (118 cfs) with a headwater depth of 5.2 feet.

Sunny Acres

The County identified the Sunny Acres Drive crossing of Pack Creek as prone to flooding; it needs to be replaced. This crossing is addressed in the Pack Creek master plan (see Chapter 3).

MASTER PLAN ALTERNATIVES

<u>Minor storm</u>. To prevent increased runoff during the 10-year storm for new development (commensurate with undisturbed native vegetation runoff), sumps or other infiltration means should be implemented to retain and infiltrate the runoff from a 10-year storm event onsite.

<u>Major storm</u>. To prevent increased runoff from new development during the 100-year storm (commensurate with undisturbed native vegetation), detention and conveyance need to be added. There are two primary approaches for construction and maintenance of detention basins: regional and local. The following paragraphs describe the advantages and disadvantages of each approach.

Regional Detention Basins

Regional detention facilities serve to detain flows from a large contributing area. The advantage of regional detention facilities is that they are few. Maintenance is consolidated for maintenance personnel with fewer basins. Regional detention basins are larger and provide an increased opportunity for multi-use facilities. Regional detention basins are usually maintained by the local government entity. The cost per unit storage is generally lower due to economy of scale. As the system detains flow in fewer places, there is less opportunity to "double-store" volume, which happens when water has been detained once already and is mixed with undetained flows prior to entering another detention facility.

A disadvantage of regional detention facilities is the higher requirement for coordination on the funding. Construction of the regional facility will need to happen early in the development process to provide the required benefits. Additionally, the conveyance sizing to direct flows to the regional facility are larger as the flow is accumulated prior to being detained. **Figure 4-1** shows a concept of the pipes and basins under the regional detention approach.

Development Detention Basins

Local detention basins only serve the development for which they were constructed. Their strengths and weaknesses are generally opposite those of regional facilities. As they must occur for every development, local detention policy will result in creation of many detention basins. Maintenance costs are higher, and the cost per unit storage is generally larger than for regional facilities. The system detains flow in more places and there is more opportunity to "double-store" volume. The sizing of the conveyances to route the flow from the local facilities is smaller than it would have been in the regional case, but care should be taken not to commingle detained flows



All new developments to implement Low Impact Development to control runoff up through the 10-year storm event.

All new developments should be required to detain 100-year release to 0.1 cfs per acre.

Kens Lake Rd

Legend

- Flow Paths
- Points of Interest \circ
 - **Detention Basins**

Master Plan Conveyance by Type

- Regional
- ····≺···· Local
 - Future Subbasins
 - CSP Boundary
 - CSP Roads
 - County Line
 - Pack Creek Flood Control Basin

with undetained flows. **Figure 4-2** shows a concept of the pipes and basins under the local detention approach. **Table 4-1** provides a summary of the pros and cons of each approach.

Pros and Cons of Each Detention Basin Approach					
Category	Regional	Local			
Maintenance/Number of facilities	Low	High			
Cost per unit volume	Typically lower	Typically higher			
Opportunity to "double store"	Lower	Higher			
Conveyance Sizing	Larger	Smaller			
Funding and Phasing difficulty	Higher	Low			

 Table 4-1

 Pros and Cons of Each Detention Basin Approach

Due to the funding constraints, the County has chosen the local detention approach for implementation in the master plan. Regional facilities may be permitted or required on a case-by-case basis.

CONCEPTUAL CONSTRUCTION COST ESTIMATES

Construction cost estimates for the master plan conveyances and existing deficiencies on Mt. Peale Drive and Coronado Street are provided in **Table 4-2**. This cost estimate assumes that the local detention option is selected and that the Master Plan Conveyances are pipes.

Table 4-2Conceptual Cost Estimatesof the Master Plan Regional Storm Drainage Facilities

PROJECT	COST*
Master Plan Conveyances	\$6,310,000
Coronado (new outfall to Pack Creek)	\$512,000
Mt. Peale Drive (drainage crossing replacement)	\$102,000

* Assumes that the local detention option is selected. Also assumes that Master Plan Conveyances are pipes. Includes 30% for contingency and engineering.



All new developments to implement Low Impact Development to control runoff up through the 10-year storm event.

New developments to detain on site the 100year release to 0.1 cfs per acre.

Legend

- Points of Interest
- Existing Flow Paths
- - Future Flow Direction
- 🗕 💻 Pack Creek Master Plan Alignment

Master Plan Conveyance by Type

- Regional
- ····≺···· Local
 - Future Subbasins
 - **CSP** Boundary
 - CSP Roads
 - San Juan County Line
 - Pack Creek Flood Control Basin

Land Owner

- BLM
- Private
- SITLA

FIGURE 4-2



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Permit Report

02/04/2023 - 03/03/2023

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Permit # 🕈	Permit \$ Date	City or County	Residential or Commercial	Type of Permit	Building CityStateZip	Owner Name	Applicant Name	Parcel # 🕏	Parcel Address
23,021	3/3/2023			Modular Home	Moab, Utah 84532		Affordable Builders	0003900000C0	
23,020	3/3/2023	San Juan County	Residential	Modular Home	Moab, Utah 84532		Affordable Builders	0003900000C0	
23,019	3/3/2023	San Juan County	Commercial	HVAC	Moab, Utah 84532		Moab Property Mananagment	000850010060	11850 S HWY 191, STE A-6
23,018	2/17/2023			New Construction/ADU	bluff ut 84512	Lynda Stocks	William H Hoagland	C40210253005	430 N 300 W
23,017	2/16/2023	San Juan County	Residential	New Construction	Moab, UT 84532		Eric R. Wolz	000700000040	377 W STONE CLIFF DR
23,016	2/14/2023	San Juan County	Residential	New Construction	MOAB, UT 84532		GERALD TRAINOR	700000330	16 S PINON RD
23,015	2/13/2023	San Juan County	Residential	Manufactured Home-Private Property	LaSal UT 84530		Affordable Builders	001530000630	209 BOBBIE LANE
23,014	2/9/2023	Town of Bluff	Residential	Addition	Bluff UT 84512	Ann Brown and Rusty Munn	Milan Munson	C00720020110	68 SOUTH 10TH WEST
23,013	2/7/2023	San Juan County	Residential	Addition	Monticello UT 84535	Justin Ramsay	Justin Ramsay	34S25E043610	
23,012	2/6/2023	San Juan County	Residential	Solar	Moab, Utah, 84532		Randy Barbe	27S23E221800	70 N DESERT SOLITAIRE RD

Total Records: 10

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3/3/2023