### Special Use Permit Application

### Truckee Meadows Water Authority Mt. Rose Water Treatment Plant and Diversion Features/Infiltration Galleries

Prepared For:

Truckee Meadows Water Authority c/o John Enloe, PE 1355 Capital Blvd. Reno, NV 89502 (775) 832-8250

and

TL Mt. Rose Estates LP c/o Rich Balestreri 3300 Douglas Blvd., Suite 450 Roseville, CA 95661 (916) 787-3420

Prepared By:

Cynthia Albright, AICP, GISP Stantec Consulting, Inc. 6995 Sierra Center Parkway, Suite 200 Reno NV 89511 (775) 398-1270

December 15, 2015





Stantec Consulting Services Inc. 6995 Sierra Center Parkway, Reno NV 89511-2213 Phone: 775 850-0777

December 15, 2015

Eva Krause, AICP Washoe County Department of Community Development 1001 E. Ninth Street Reno, Nevada 89520

#### Reference: TMWA Mt. Rose Water Treatment Plant and Diversion Features/Infiltration Galleries Special Use Permit Submittal

Dear Eva,

Enclosed please find an original, 10 copies and a CD of the special use permit application for the above referenced project submitted on behalf of Truckee Meadows Water Authority and TL Mt. Rose Estates LP. The contents of this application speak to the project specifics which require the staff and Washoe County Board of Adjustments' consideration. The project owner, TMWA, intends to construct a small water treatment plant and two creek diversions to enhance the groundwater resources in the Mt. Rose Fan area and help to make the water delivery systems more resilient during periods of drought.

The location for this project is ideally suitable for the requested use while meeting the project goals of diverting water off of Thomas and Whites Creeks for the purpose of treatment and delivery through existing water distribution systems during times of available supplies and to provide a source of water to recharge of the groundwater aquifer. If approved, TMWA will purchase a portion of APN 150-460-05. A tentative map has been filed and has been extended that would modify APN 150-460-05 and create a 6.65 acre open space parcel and multiple residential lots. The proposed project would utilize 3.9 acres of the future 6.65 open space parcel. The remainder of the 6.65-acre parcel would remain undeveloped. An overhead power line and 100' NVE easement form the western boundary of the proposed project. The special use permit application consists of the following request for consideration:

- 1. Special Use Permit for development of a civic use in the form of a utility service for the water treatment plant within the High Density Rural regulatory zone in accordance with Washoe County Development Code (WCDC) Section 110.302.110;
- 2. Special Use Permit for construction of a small portion of the access driveway and limited grading within an established sensitive stream zone buffer area in accordance with WCDC Sections 110.418.20; and
- 3. Special Use Permit for construction of two diversion features/infiltration galleries within the established critical stream zone buffer areas of Thomas and Whites Creeks also in accordance with WCDC Section 110.418.20. The area will be completely revegetated so the appearance of the infiltration galleries would be difficult to detect.

The attached reports addressing traffic and drainage considerations indicate there are no anticipated negative impacts from the proposed use at this location. TMWA retained the architecture design services of Blakely Johnson Ghusn to create a water treatment building that incorporates the ranching/barn theme with multiple roof lines and a natural color palette to blend



December 15, 2015 Ms. Eva Krause, AICP Page 2 of 2

**Reference:** TMWA Mt. Rose Water Treatment Plant and Diversion Features/Infiltration Galleries Special Use Permit Submittal

within the surrounding development. The proposed grading and landscaping treatment will also mitigate the building size and height to the greatest degree possible.

I speak for all of us when I say we look forward to working with you on this project. If you have any questions please do not hesitate to call.

Sincerely,

#### STANTEC CONSULTING SERVICES, INC.

pethin albight

Cynthia J. Albright, AICP, GISP Senior Associate, Community Development Manager

v:\1801\active\180101383\application\cover letter.docx

### Washoe County Development Application

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Development staff at 775.328.3600.

Project Information Staff Assigned Case No.:				
Project Name:				
Project Description:				
Project Address:				
Project Area (acres or square fe	et):			
Project Location (with point of re	ference to major cross	streets AND area locator):		
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No(s):	Parcel Acreage:	
Section(s)/Township/Range:				
Indicate any previous Washo Case No.(s).	e County approval	s associated with this applicat	ion:	
Applicant	Information (atta	ch additional sheets if necessary	/)	
Property Owner:		Professional Consultant:		
Name:		Name:		
Address:		Address:		
	Zip:		Zip:	
Phone:	Fax:	Phone:	Fax:	
Email:		Email:		
Cell:	Other:	Cell:	Other:	
Contact Person:	Contact Person:			
Applicant/Developer:		Other Persons to be Contact	ed:	
Name:		Name:		
Address:		Address:		
	Zip:		Zip:	
Phone:	Fax:	Phone:	Fax:	
Email:		Email:		
Cell:	Other:	Cell:	Other:	
Contact Person:		Contact Person:		
	For Office	Use Only		
Date Received:	Initial:	Planning Area:		
County Commission District:		Master Plan Designation(s):		
CAB(s):		Regulatory Zoning(s):		

pplicant Name:       Trucke Meadow Water Authority         e receipt of this application at the time of submittal does not guarantee the application complies with all jurements of the Washoe County Development Code, the Washoe County Master Plan or the olicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will processed.         ate of California       }
Ultrements of the Washoe County Development Code, the Washoe County Master Plan or the oblicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will processed.         ate of California
J. Timothy Lewis         (please print name)         ng duly sworn, depose and say that I am the owner* of the property or properties involved in this         blication as listed below and that the foregoing statements and answers herein contained and the trimation herewith submitted are in all respects complete, true and correct to the best of my knowledge         bellef. I understand that no assurance or guarantee can be given by members of Planning and velopment.         (A separate Affidavit must be provided by each property owner named in the title report.)         essor Parcel Number(s):         Printed Name       J. Timothy Lewis         Signed
(please print name) Ing duly sworn, depose and say that I am the owner* of the property or properties involved in this plication as listed below and that the foregoing statements and answers herein contained and the primation herewith submitted are In all respects complete, true and correct to the best of my knowledge I bellef. I understand that no assurance or guarantee can be given by members of Planning and velopment. (A separate Affidavit must be provided by each property owner named in the title report.) ressor Parcel Number(s): Printed NameJ. Timothy Lewis Signed
In good of the properties involved in this service and say that I am the owner* of the property or properties involved in this plication as listed below and that the foregoing statements and answers herein contained and the provided are in all respects complete, true and correct to the best of my knowledge below. I bellef. I understand that no assurance or guarantee can be given by members of Planning and velopment. (A separate Affidavit must be provided by each property owner named in the title report.)  Ressor Parcel Number(s): Printed NameJ. Timothy Lewis Signed
Dication as listed below and that the foregoing statements and answers herein contained and the rmation herewith submitted are in all respects complete, true and correct to the best of my knowledge l bellef. I understand that no assurance or guarantee can be given by members of Planning and velopment.  (A separate Affidavit must be provided by each property owner named in the title report.)  Dessor Parcel Number(s):  Printed NameJ. Timothy Lewis Signed
Printed NameJ. Timothy Lewis
Signed
Address3500 Douglas Boulevard, #270
Roseville, CA 95661
scribed and sworn to before me this 12 day of <u>Austrian Burn</u> , <u>2015</u> (Notary Stamp)
Any Public in and for said county and state commission expires: <u>Migust</u> 30, 2018
oner refers to the following: (Please mark appropriate box.)
<ul> <li>Owner</li> <li>Corporate Officer/Partner (Provide copy of recorded document indicating authority to sign.)</li> </ul>
<ul> <li>Power of Attorney (Provide copy of Power of Attorney.)</li> </ul>
<ul> <li>Owner Agent (Provide notarized letter from property owner giving legal authority to agent.)</li> <li>Property Agent (Provide copy of record document indicating authority to sign.)</li> </ul>

### Special Use Permit Application Supplemental Information

(All required information may be separately attached)

Chapter 110 of the Washoe County Code is commonly known as the Development Code. Specific references to special use permits may be found in Article 810, Special Use Permits.

1. What is the type of project being requested?

2. What currently developed portions of the property or existing structures are going to be used with this permit?

3. What improvements (e.g. new structures, roadway improvements, utilities, sanitation, water supply, drainage, parking, signs, etc.) will have to be constructed or installed and what is the projected time frame for the completion of each?

4. What is the intended phasing schedule for the construction and completion of the project?

5. What physical characteristics of your location and/or premises are especially suited to deal with the impacts and the intensity of your proposed use?

6. What are the anticipated beneficial aspects or effects your project will have on adjacent properties and the community?

7. What will you do to minimize the anticipated negative impacts or effects your project will have on adjacent properties?

8. Please describe operational parameters and/or voluntary conditions of approval to be imposed on the project special use permit to address community impacts:

9. How many improved parking spaces, both on-site and off-site, are available or will be provided? (Please indicate on site plan.)

10. What types of landscaping (e.g. shrubs, trees, fencing, painting scheme, etc.) are proposed? (Please indicate location on site plan.)

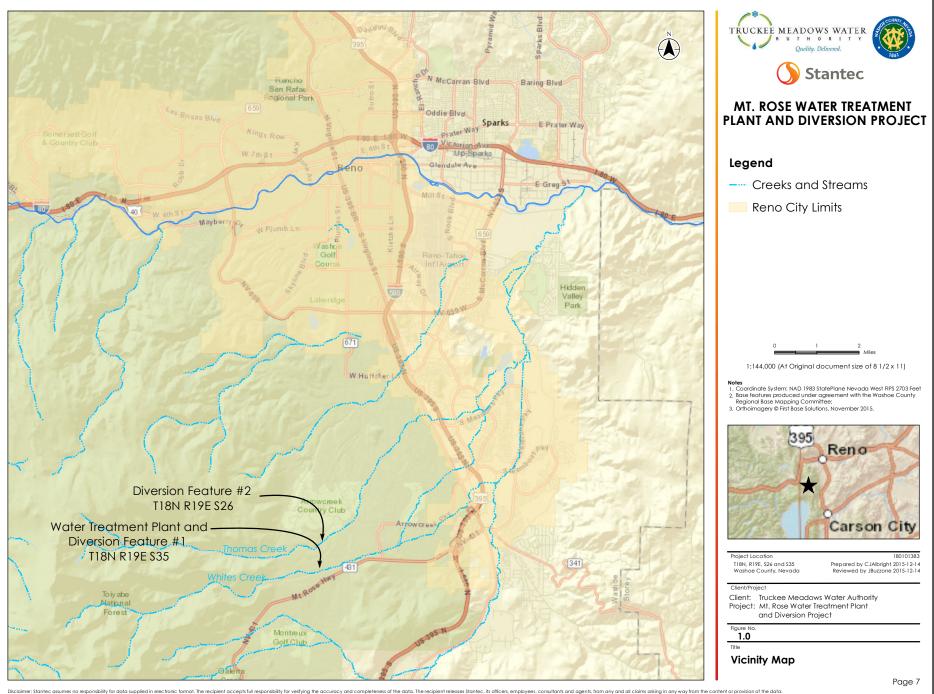
11. What type of signs and lighting will be provided? On a separate sheet, show a depiction (height, width, construction materials, colors, illumination methods, lighting intensity, base landscaping, etc.) of each sign and the typical lighting standards. (Please indicate location of signs and lights on site plan.)

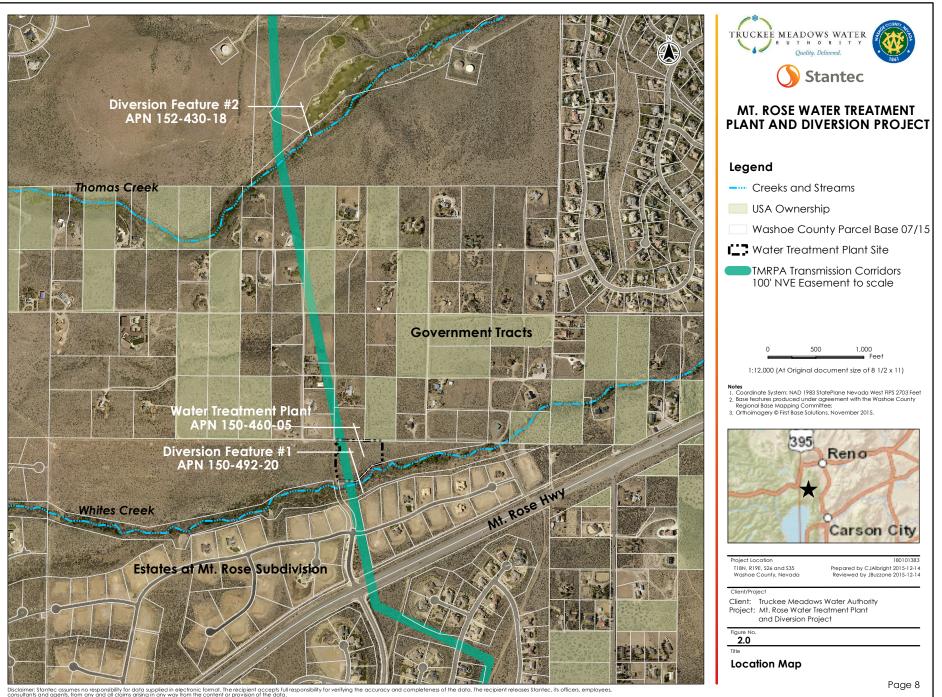
12. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that apply to the area subject to the special use permit request? (If so, please attach a copy.)

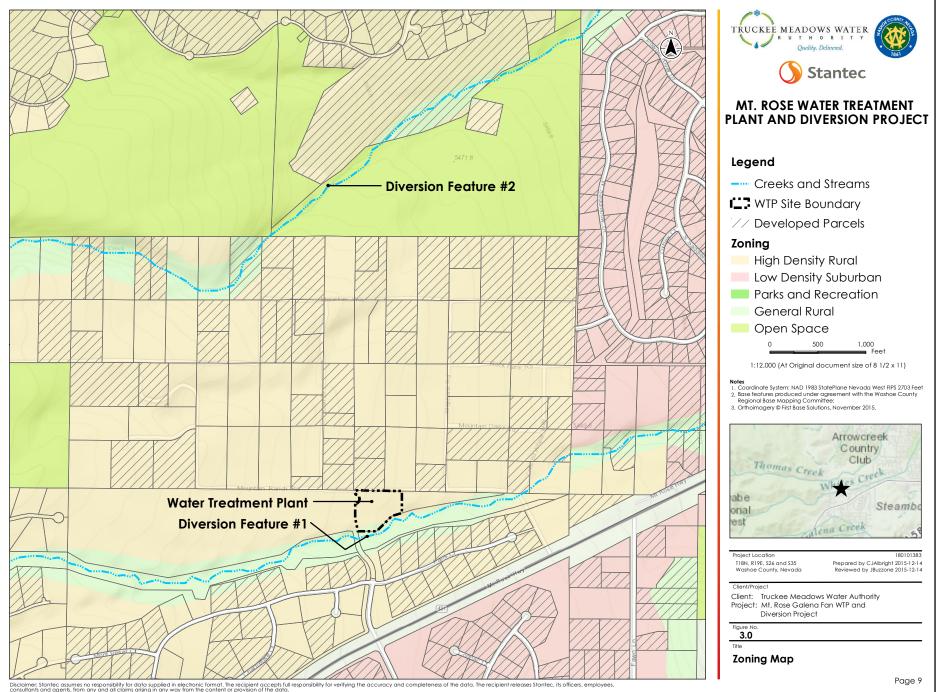
🖵 Yes	🗅 No
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13. Community Sewer

🖵 Yes	D No	
Community Water		
🖵 Yes	D No	







View of Water Treatment Plant site adjacent to NVE Power Line





View south across site, across Whites Creek and to adjacent Mt. Rose Estates Subdivision from Water Treatment Plant site

### View south and southeast from Water Treatment Plant site across Whites Creek

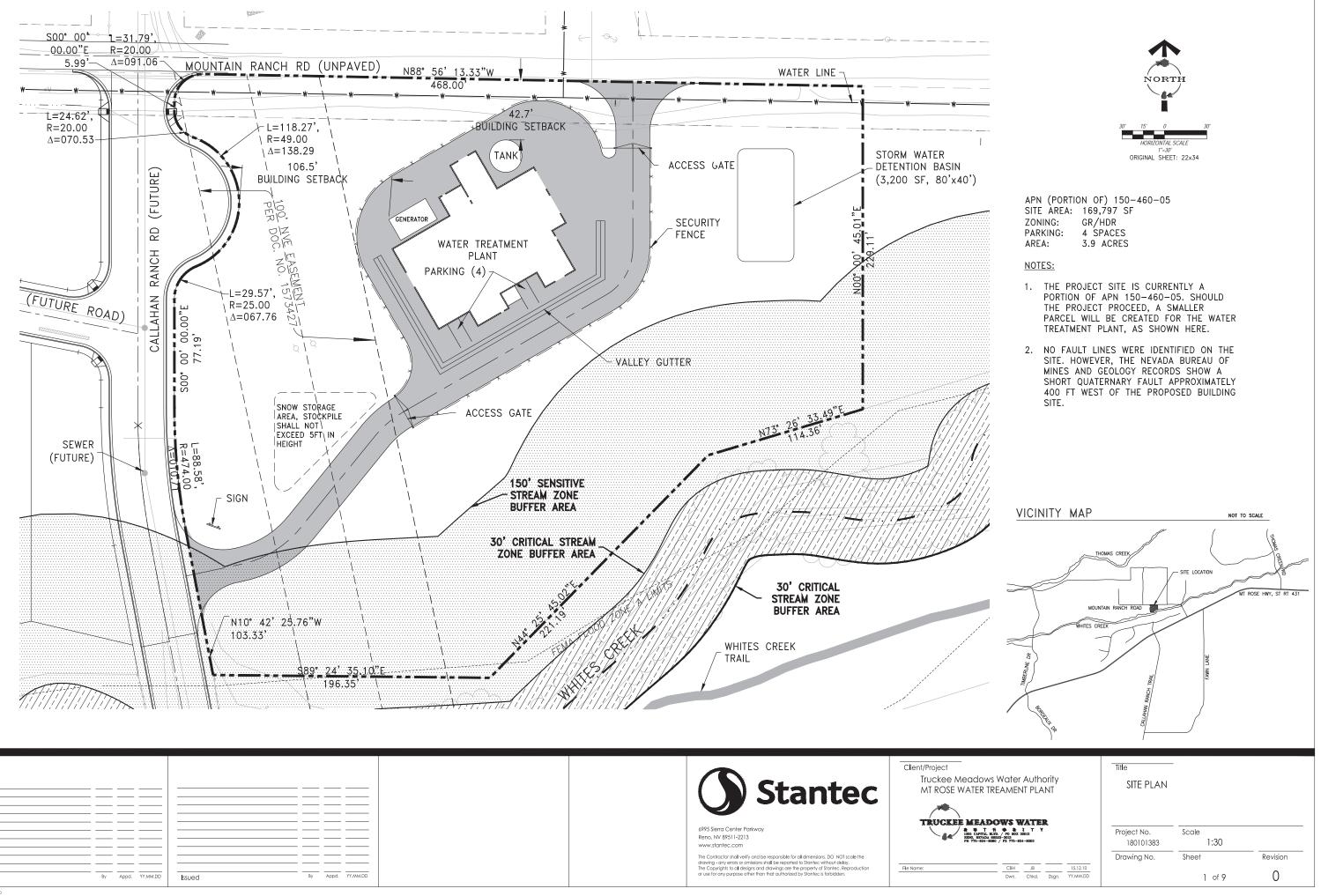


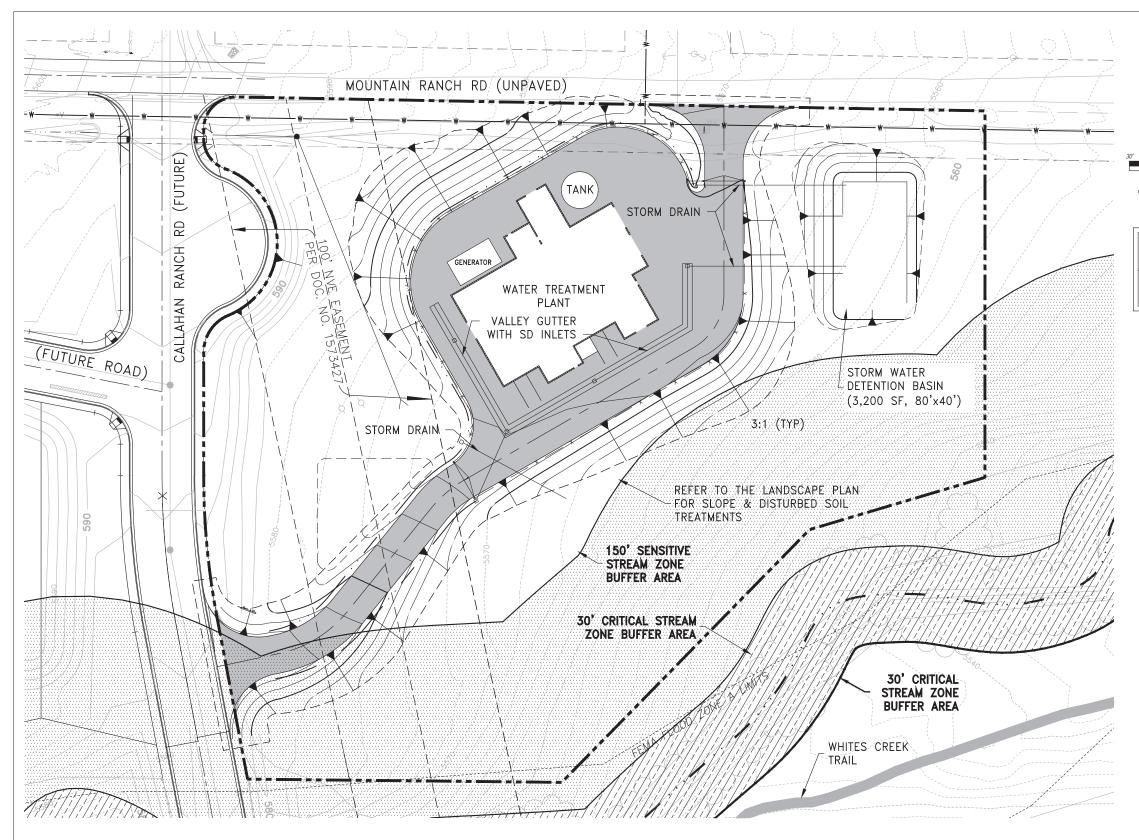
View north from Estates at Mt. Rose across Whites Creek looking at Water Treatment Plant site and nearest on Mountain Ranch Road

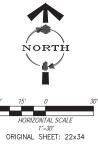
### View northwest from Estates at Mt. Rose Subdivision across Whites Creek; site east of NVE Power Line



# **ENGINEERING PLAN SET**





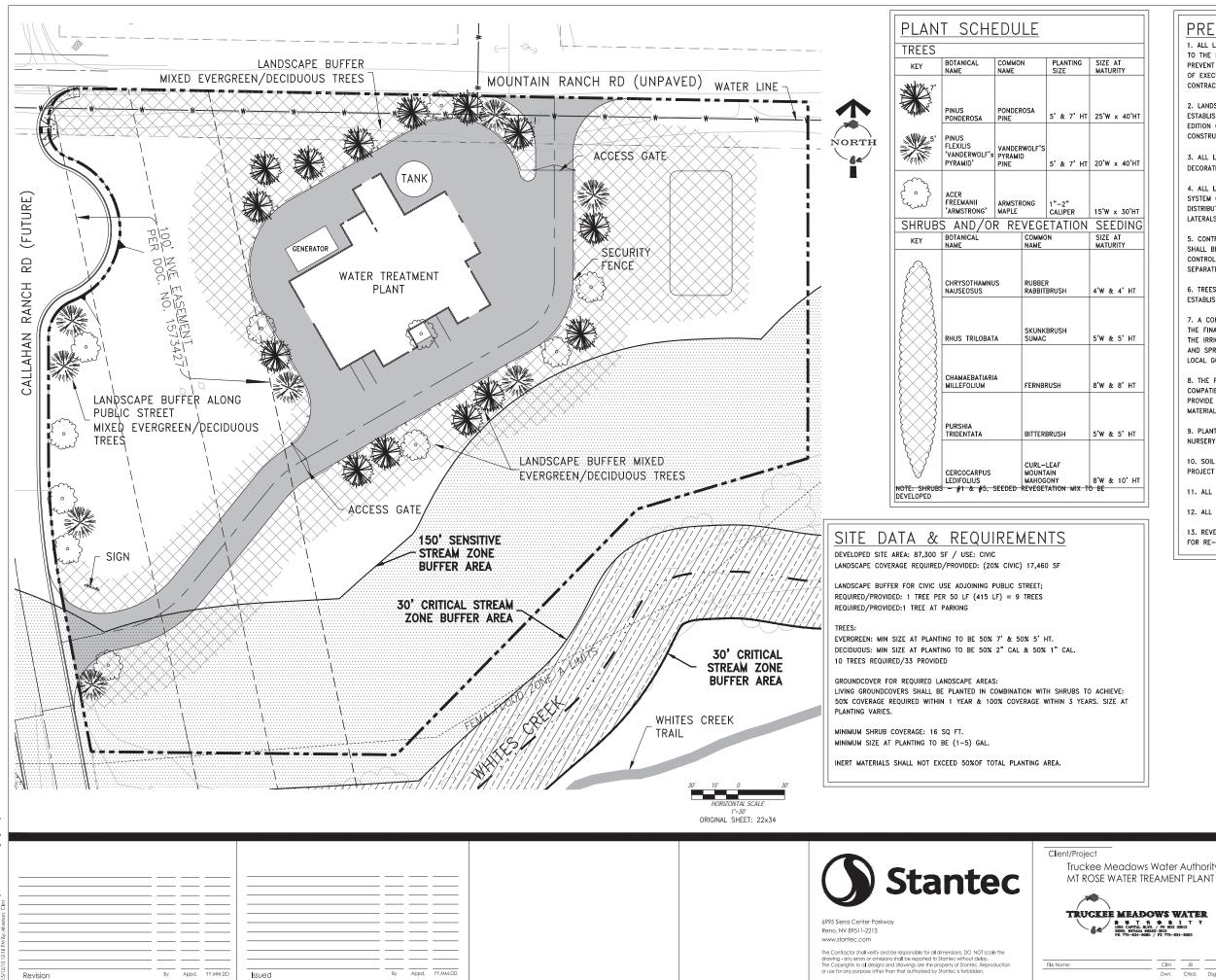


Client/Project

File Name:

VOLU	ME		
	CUT (CU.YD.)	FILL (CU.YD.)	NET (CU.YD.)
EARTHWORK	4,450	3,650	800 CUT

nt/Project Truckee Meadows ' MT ROSE WATER TRE					Title GRADING	PLAN	
TRUCKEE MEADO	/ PO BOX	1 T Y 30013	R		Project No. 180101383	Scale 1:30	
					Drawing No.	Sheet	Revision
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ORIGINAL SHEET - ANSI D

SIZE AT MATURITY	PRELIMINARY PLAN NOTES 1. ALL LANDSCAPE AND IRRIGATION COMPONENTS SHALL BE INSTALLED IN ACCORDANCE TO THE REQUIREMENTS OF LOCAL GOVERNING AUTHORITIES. SITE CONDITIONS THAT PREVENT THE PROPER EXECUTION OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF EXECUTION OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE
5'W x 40'HT	CONTRACT REPRESENTATIVE FOR WRITTEN DIRECTION. 2. LANDSCAPE AND IRRIGATION WORK SHALL BE ACCOMPLISHED USING LOCALLY ESTABLISHED, HORTICULTURALLY SOUND TRADE METHODS. REFER TO THE MOST RECENT EDITION OF THE STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
0'W x 40'HT	3. ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH 3" MINIMUM DEPTH INERT MULCH, DECORATIVE ROCK/DECOMPOSED GRANITE MATERIALS.
<u>5'w x 30'нт</u> SEEDING	4. ALL LANDSCAPE PLANTINGS SHALL BE PROVIDED WITH AN AUTOMATIC IRRIGATION SYSTEM CONSISTING OF DRIP IRRIGATION TO ALL CONTAINER PLANT MATERIAL. GENERAL DISTRIBUTION OF DRIP IRRIGATION WATER SHALL BE PROVIDED THROUGH PVC PIPE LATERALS, WITH LIMITED RUNS OF FLEXIBLE TUBING FOR DRIP EMITTERS.
	5. CONTROL SYSTEM WITH ADEQUATE CAPACITY AND CAPABILITY OF LONG TIME CYCLES SHALL BE PROVIDED. PRESSURE COMPENSATION SHALL PRESSURE WITH LOCAL UTILITY CONTROL REQUIREMENTS WITH FINAL DESIGN AND LOCAL GOVERNING AUTHORITIES. A SEPARATE WATER METER SHALL BE PROVIDED FOR THE IRRIGATION SYSTEM.
'W & 4' HT	6. TREES SHALL BE PROVIDED WITH ADEQUATE STAKING OF GUYING FOR PROPER ESTABLISHMENT IN CONSIDERATION OF THE PREVAILING WIND CONDITIONS OF THE SITE.
W & 5' HT	7. A COMPLETE MAINTENANCE PLAN SHALL BE SUBMITTED AS PART OF, AND BASED ON, THE FINAL LANDSCAPE AND IRRIGATION DESIGN. THE MAINTENANCE PLAN SHALL INCLUDE THE IRRIGATION APPLICATION SCHEDULE, SEASONAL ADJUSTMENT, PROPER WINTERIZATION AND SPRING START-UP PROCEDURES, FERTILIZATION AND OTHER REQUIREMENTS OF LOCAL GOVERNING AUTHORITIES.
W & 8' HT	8. THE FINAL LANDSCAPE DESIGN SHALL REFLECT PLANT SELECTION AND PLACEMENT IN COMPATIBLE WATER USE ZONES. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATER TO PLANT MATERIAL FOR THRIVING GROWTH OF THE PLANT MATERIAL.
W & 5' HT	9. PLANT MATERIAL QUALITY SHALL BE AS SPECIFIED IN THE AMERICAN STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
W & 10' HT	10. SOIL PREPARATION SHALL BE BASED ON THE CONDITION OF THE SOILS OF THE PROJECT SITE AFTER GRADING IS COMPLETE AND IN ACCORDANCE WITH A SOILS TEST.
<del>JE</del>	11. ALL DISTURBED AREAS SHALL BE REVEGETATED.
	12. ALL DISTURBED AREAS ARE 3:1 OR FLATTER SLOPES. 13. REVEGETATION AREAS: TOPSOIL AND NATIVE PLANT MATERIAL SHALL BE STOCKPILED
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SIZE AT	
 e Meadows Wate	Title
	PRELIMINARY LANDSCAPE PLAN

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TRUCKEE MEADOWS WATER 1355 CAPITAL BLVD. / PO BOX 30013 RENO, NEVADA 68520-3013 RH 776-854-8000 / FY 775-834-8003 Project No. 180101383 Drawing No.

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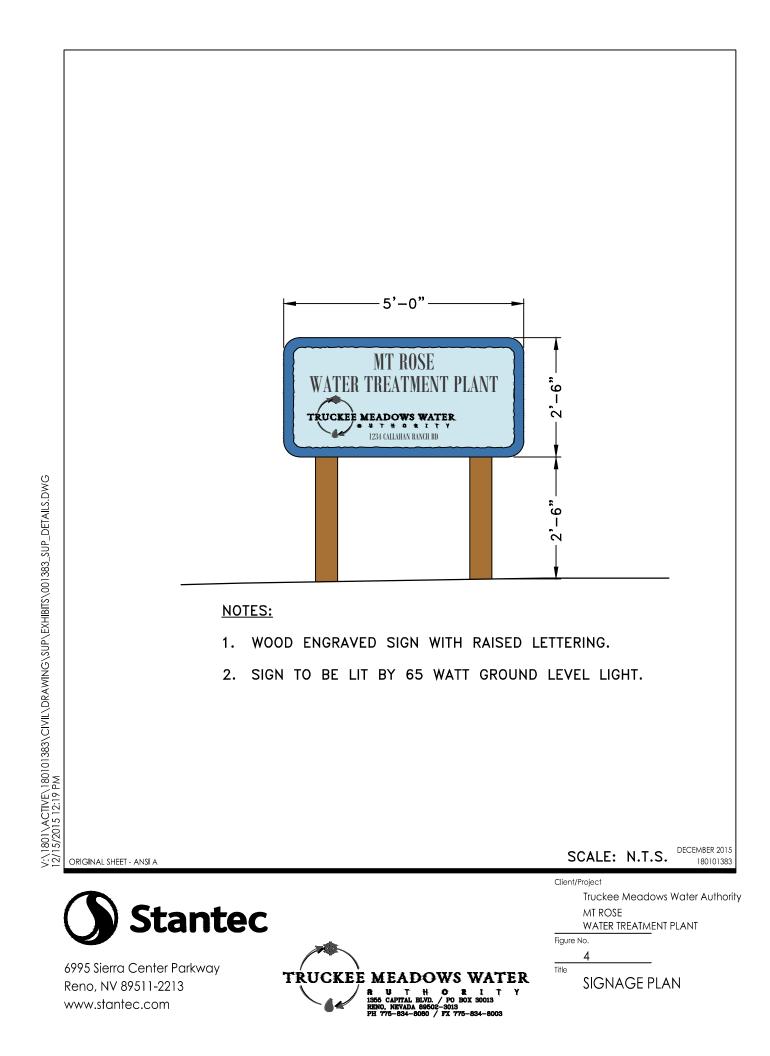
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#### LIGHTING CONTROLS

- 1. LIGHTING FIXTURE ACTIVATED BY PHOTOSENSOR.
- 2. LIGHTING FIXTURE ACTIVATED BY SWITCHES LOCATED INSIDE BUILDING (NORMALLY OFF WHEN BUILDING IS UNOCCUPIED). PROVIDE ADDITIONAL OVERRIDE CONTROL AT KEYPADS LOCATED AT ENTRANCE GATES.

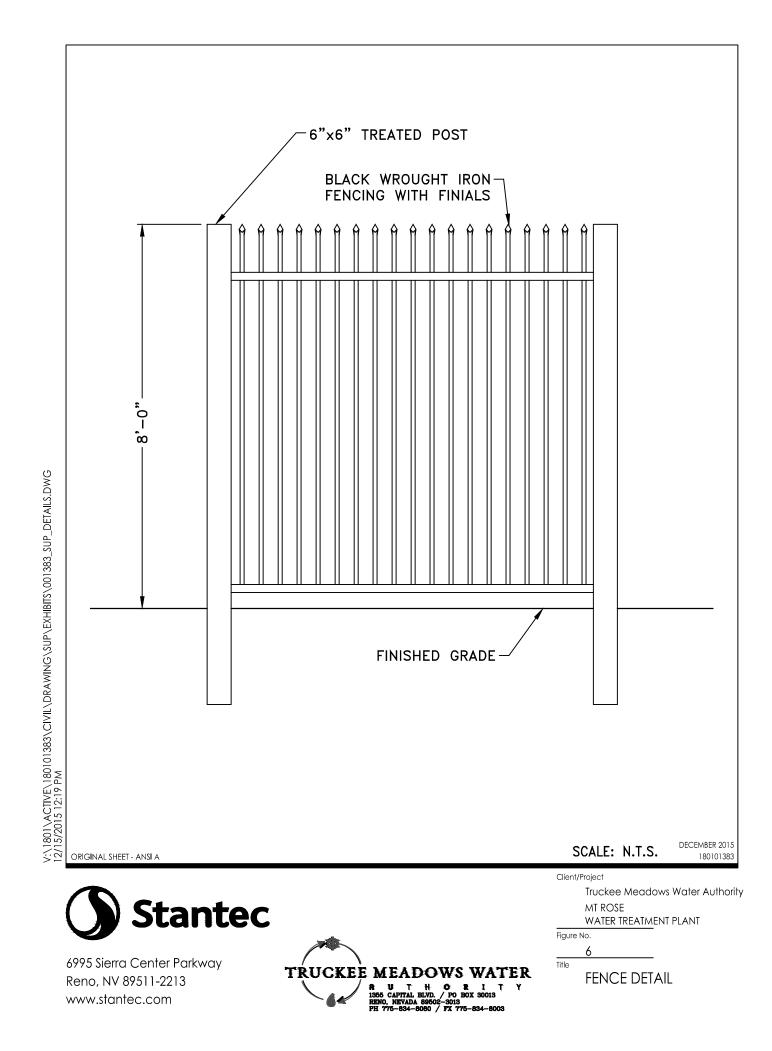
#### SITE LIGHTING CALCULATIONS

ILLUMINAN	ICE (FO	C)	
AVERAGE	= 1.3	2	
MAXIMUM	= 8.2		
MINIMUM	= 0.1		
AVG/MIN	RATIO	=	13.20
MAX/MIN	RATIO	=	82.00
MAX/AVG	RATIO	=	6.21



FIXTURE	MOUNTING	DESCRIPTION
	10'0"	TYPE 3 OUTDOOR AREA LED FIXTURE, DIE-CAST ALUMINUM
109	POLE	HOUSING. UL LISTED FOR WET LOCATIONS. BRONZE. PHOTOCELL
		10'-0" STRAIGHT SQUARE STEEL POLE.
		LED FIXTURE, SINGLE PIECE DIE-CAST ALUMINUM HOUSING.
9	WALL	MOUNTED 10'-0" ABOVE GROUND LEVEL.
		LED FIXTURE ANCHORED TO PAD.
65	GROUND	LIGHT ENGINE IN STANDARD 4000K.
		LED FIXTURE, SINGLE PIECE DIE-CAST ALUMINUM HOUSING.
22	BOLLARD	OVERALL HEIGHT OF 42" STANDARD.
		LIGHT ENGINE IN STANDARD 4000K.

— Meadows Water Authority WATER TREATMENT PLANT	Title SITE LIGHTING PLAN AND CALCULATIONS			
E         MEADOWS         WATER           8         0         1         Y           1355         0.017L0         8.1         Y           2007         1710         8007         1001           711         1715-584-8000         / 12         175	Project No. 180101383	Scale 1:30		
	Drawing No.	Sheet	Revision	
JB         15.12.10           Dwn.         Chkd.         Dsgn.         YY.MM.DD		5 of 9	0	

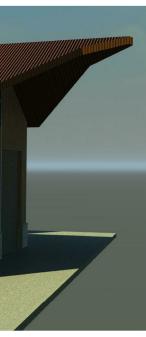


# MT ROSE WATER TREATMENT PLANT

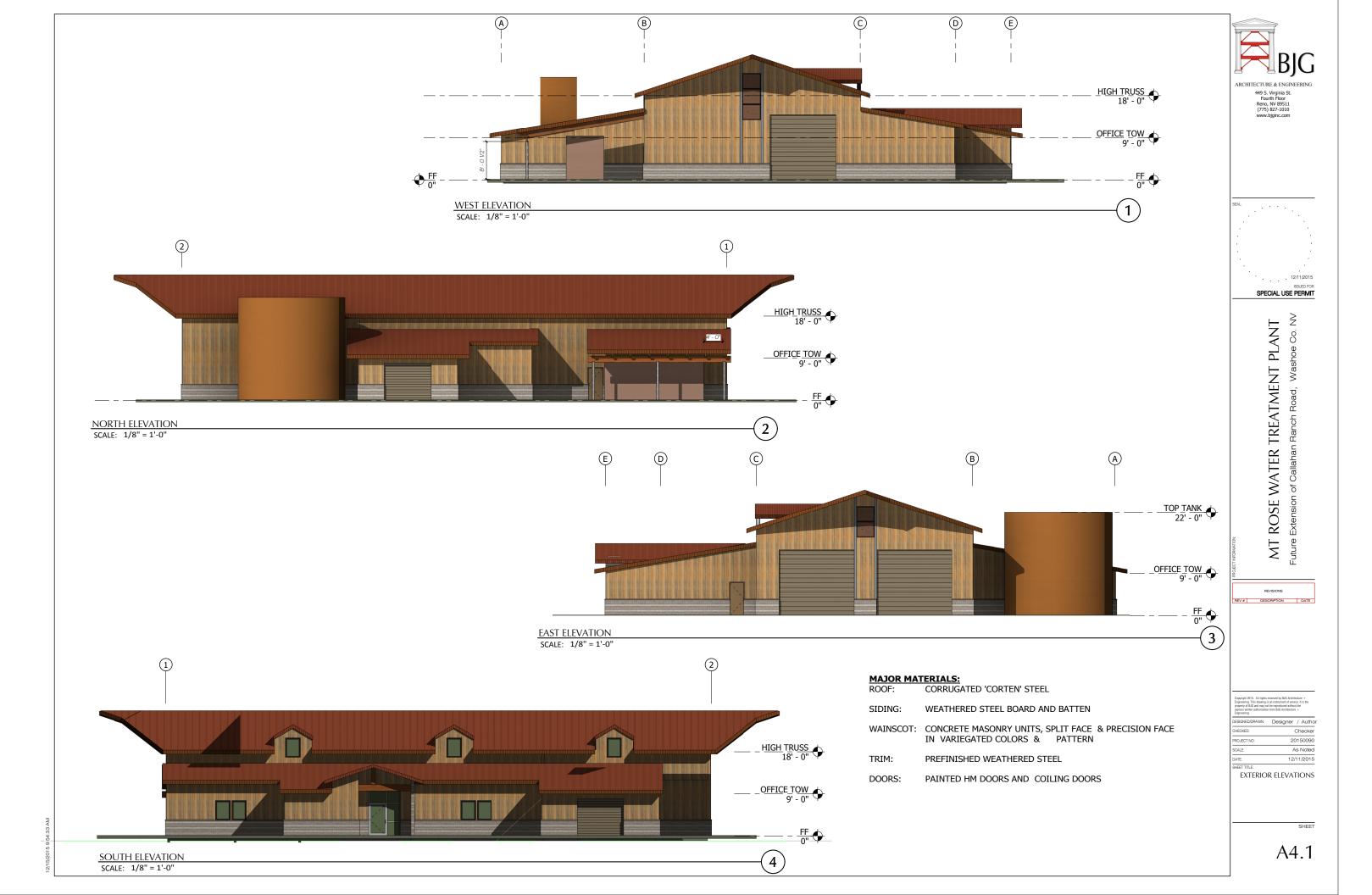
Future Extension of Callahan Ranch Road, Washoe Co. NV



VIEW FROM SOUTH EAST NOT TO SCALE



Fi Ren (77		St. 11
SEAL:		· .  
		, , ,
SP	ECIAL U	12/11/2015 ISSUED FOR: ISE PERMIT
PROJECT NECHWATON	MT ROSE WATER TREATMENT PLANT	Future Extension of Callahan Ranch Road, Washoe Co. NV
		<u> </u>
	REVISIONS	DATE
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# **APPENDICES**

## **APPENDIX A**

### AFFIDAVIT FOR WASHOE COUNTY WITH PARCEL MAPS



### Washoe County COMMUNITY SERVICES DEPARTMENT

**Operations Division** 

December 9, 2015

Eva Kraus Washoe County Community Services Department Planning and Development

Re: Special Use Permit Application - Mt Rose Water Treatment Plant, Truckee Meadows Water Authority

Eva,

This letter is to inform you that the Truckee Meadows Water Authority (TMWA) has discussed their proposed Mt Rose Water Treatment Plant project with the Washoe County Community Services Department (CSD) and described the need to install water diversions on Whites and Thomas Creeks as part of the project. TMWA identified the proposed diversion locations (APN 150-492-20 and APN 152-430-18), explained why the diversions need to be constructed at these locations, described the nature of the diversion structures, and requested CSD consider granting land easements for the two diversions. CSD has agreed to assess the possibility of granting the necessary easements; however, no determination of whether the easement can or will be granted has been made at this time.

We understand the project schedule requirements and the need for TMWA to submit a Special Use Permit application in advance of a determination on the granting of any easements for the diversions. As such, CSD does not object to TMWA submitting an SUP application for the water treatment plant project with diversions located on Washoe County owned parcels APN 150-492-20 and APN 152-430-18. However, issuance of a Special Use Permit shall not be interpreted as a commitment or guarantee that Washoe County can or will grant any easements for the project. Further, the issuance of a Special Use Permit shall not bind Washoe County to any term or condition related to the granting of any easements for the project. Any grant of easements relative to this project will be subject to the procedures set forth in the adopted Park Land Easement Policy and may occur subsequent to the SUP application process. This Park Land Easement procedure will identify any and all terms and conditions to be included in any easement agreement.

If you have any questions, please don't hesitate to contact me at 328-2182 (office) or <u>Ecrump@washoecounty.us</u> (email).

Thank you,

Eric Crump Operations Division Director

c: Dave Solaro, Director-CSD John Enloe, TMWA John Buzzone, Stantec

PN: 150-492-	20 Card	1 of 1				Y ASSESSOR		2.0						12/14/20	
			gal Descrij	otion					В	Building	g Inform	ation			
Situs	CALLAHA	CALLAHAN RD					uality							Bldg Type	
Owner 1	WASHOE	WASHOE COUNTY				St	ories			Square Fee			uare Feet	0	
Mail Address PO BOX 11130					Year	Built	0	Squa	quare Feet does not include Basement or Ga				ent or Gara	ige	
	ATTN CO	ATTN COMMUNITY SERVICES DEPT							Conv	onversion Area.				_	
	RENO N	RENO NV 89520				V	W.A.Y. 0				Finished Bsm			hed Bsmt	0
Rec Doc No	4159873		Rec Date	10/05/2	012	Bedro	oms	0		Unfin Bsmt					0
Prior Owner	TL MT RC	SE ESTATE	S LP,			Full E	Baths	0		Bsmt				Smt Type	
Prior Do	4144694					Half Baths				Gar Conv Sq Foot					0
Keyline Des	RS 5449 (	OPEN SPAC	E 2-A			Fixt	tures						Tota	Gar Area	0
			E PHASE 3A			Fireplaces		0		Gar Type			Gar Type		
		Block: OS	Sub Map#			Heat	Heat Type				Det Garage			et Garage	0
Record	of Survey M		Parcel		-	Sec Heat	Туре						Bsmt Gar Door		0
			Map#			Ext	Walls			Sub Floor				Sub Floor	
Section: 35 Township: 18 Range: 19		SPC	011		Sec Ext	Walls						Frame			
		-				Roof C	over			Construction Mod				0	
Tax Dist 6000 Ac		dd'l Tax	Prior APN	150-492	2-18	Obso/Bldg Ad		0		Units/Bldg			0		
		for Low Cor	an High Can		% Incom	plete			Units/Parce				its/Parcel	0	
Tax Cap         Use does not qualify for Low Cap,           Status         Applied			, riigir ca												
					Lan	nd Informat	ion								
Land Use	120			Zon	ing	HDR 17% / GR 83%				Sewer	r None NBC EAFF		EAFF		
Size	8.26 Acre o	r ~ 359,806	5 SqFt	Wa	ater	None				Street	Paved	NE	SC Map	EA NBC M	lap
Val	uation Inf	ormation	1			Sales/Tra	nsfei	r In	nforn	nation/	Record	ed Do	cumen	t	
Valuation I	History	2015/16 FV	2016/17 NR	V-Code	LUC	Doc Date	Value/Sale Price			e Grantor		Grantee			
Taxable L	and Value	8,260	8.260	3NTT	240	10-05-2012				TL MT ROSE ESTATES LP,		WASHOE COUNTY		Y	
Taxable Improvement Value		0	0	3NTT	240	08-24-2012			0 1	TL MT ROSE ESTATES LP,					TES
Тах	able Total	8,260	8,260												
Assessed L	and Value	2,891	2,891												
Assessed Improvement 0 0 Value															
Total Assessed 2,891 2,891															
he 2016/201 Ind subject to		e prelimina	ary values												
	Ri	uilding #1	Sketch							Pr	operty l	Photo			

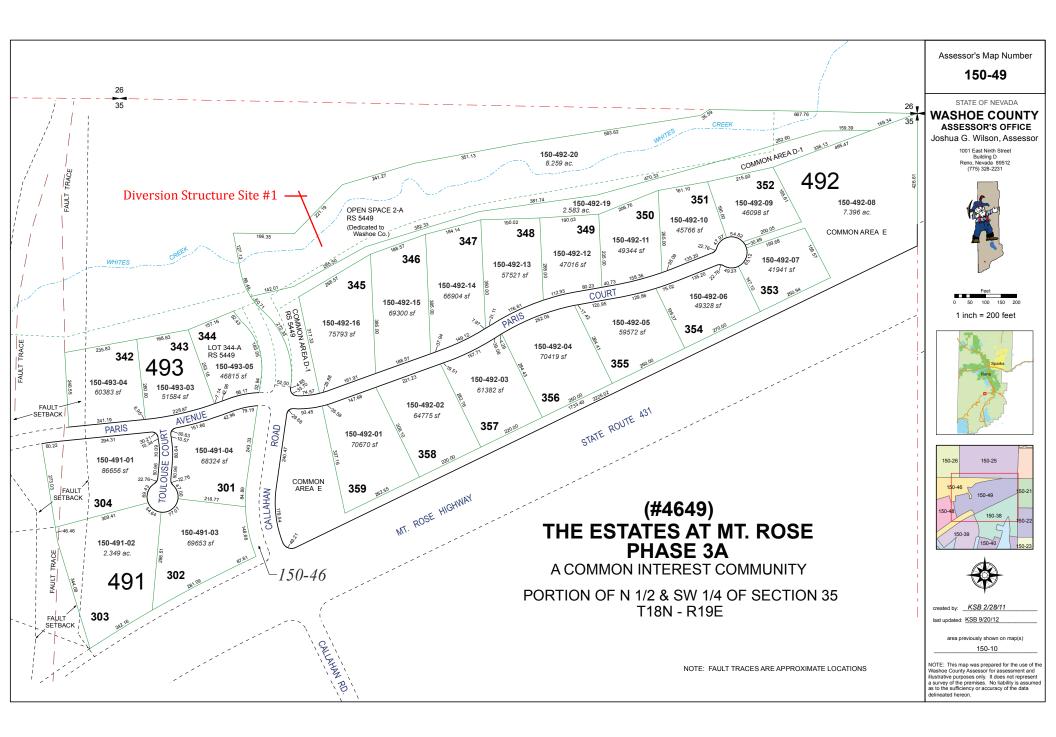
If the property sketch is not available on-line you can obtain a copy by

calling (775) 328-2277 or send an email to

exemptions@washoecounty.us with 'Sketch Request' in the subject

line. Please include the APN.

All parcel data on this page is for use by the Washoe County Assessor for assessment purposes only. Zoning information should be verified with the appropriate planning agency. Summary data may not be a complete representation of the parcel. All Parcels are reappraised each year. This is a true and accurate copy of the records of the Washoe County Assessor's Office as of 12/13/2015. **NOTE:** The 2016/2017 values are preliminary values and subject to change.



			WA	SHOE CO	UNTY	ASSESS	OR PR	OP	ER	TY DATA			12/14/20	)15
<mark>PN: 152-430-1</mark> Owne			gal Descrij	otion						Buildir	ng Info	rmation		
Situs	0 ARROWCREEK PKWY						Qualit	ty			0		Bldg Type	
Owner 1	WASHOE COUNTY					Storie	es		Square Fe			Square Feet	0	
Mail Address PO BO		D BOX 11130				Ye	Year Built 0		0	Square Feet does not include Basement or Garage				ige
	ATTN COMMUNITY SERVICES DEPT									Conversion	Area.			-
	RENO NV 89520				_	W.A.Y. 0			0		Finished Bsmt 0			
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Prior Owner				1		Fu	ill Bath	าร	0				Bsmt Type	
Prior Doc	2389789					На	lf Bath	าร	0		Gar Conv Sq Foot			0
Keyline Desc	PM 3301	FR LT 4 RS 3	3571			I	Fixture	es			Total			0
Subdivision						Fireplaces		es	0			Gar Type		
	-	4 Block:	Sub Map#			He	at Typ	be					Det Garage	0
Record	of Survey N	lap: 3571	Parcel	3301		Sec He	at Typ	be				Bsi	mt Gar Door	0
Record of Survey me			Map#			E	xt Wal	ls					Sub Floor	
Section: Township: 18 Range:		SPC	011		Sec E	xt Wal	ls					Frame		
	1	19				Roof Cover		er			Construction Mod 0			0
Tax Dist	6000 Ad Info	dd'l Tax	Prior APN	152-020	-82	Obso/Bldg Adj		dj	0		Units/Bldg 0			0
Tax Cap Status		not qualify	for Low Cap	, High Cap	,	% Inco	omplet	te		Un			Units/Parcel	0
					Lan	d Inform	nation	ו						
Land Use	100					Zoning	OS		Τ	Sewer N	lone	NBC	EBZZ	
Size	85.394 Acı	re or ~ 3,7	19,763 SqFt			Water	None	5	Γ	Street N	lone	NBC Map	EB NBC Ma	р
Valu	uation Inf	ormatior	۱			Sales/1	ranst	fer	In	formatio	n/Reco	rded Docum	ent	
Valuation H	listory	2015/16	2016/17	V-Code	LUC	Doc Date V		Valı	lue/Sale Price		Grantor		Grantee	
		FV			100	06-06-2	011			0	WASHOE COUNTY,		WASHOE COUNTY	
Taxable L	and Value	85,390	85,390			10-15-19	999			0			WASHOE CO	UNT
Taxable Imp	rovement Value	0	0				1					I		
Тах	able Total	85,390	85,390											
Assessed L	and Value	29,887	29,887											
Assessed Imp	rovement Value	0	0											
Tota	Assessed	29,887	29,887											
The 2016/2017 and subject to		e prelimin	ary values											
	Bi	uilding #1	Sketch							F	roper	ty Photo		

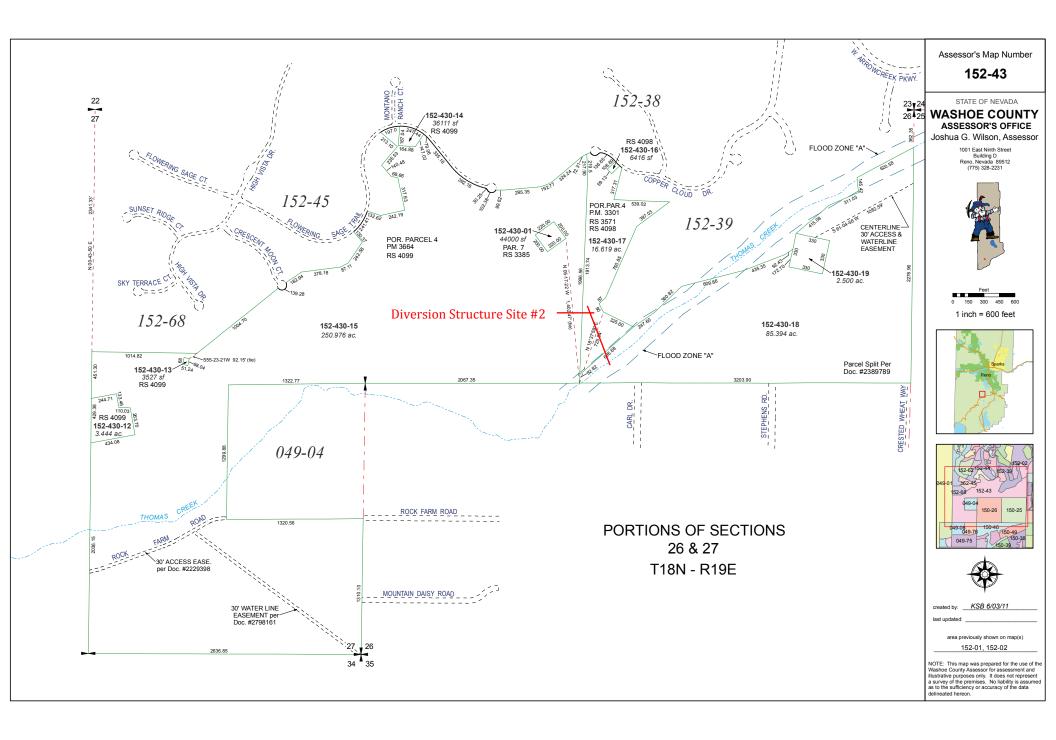
If the property sketch is not available on-line you can obtain a copy by

calling (775) 328-2277 or send an email to

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line. Please include the APN.

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### **APPENDIX B**

# PROOF OF PROPERTY TAX PAYMENTS APN: 150-460-05 150-492-20 152-430-18

#### Water Treatment Plant Site

Washoe County Treasurer Tammi Davis Washoe County Treasurer P.O. Box 30039, Reno, NV 89520-3039 ph: (775) 328-2510 fax: (775) 328-2500

**Payment Information** 

Special Assessment District

Installment Date Information

Assessment Information

Account Detail

**Pay Online** Back to Search Results Change of Address Print this Page No payment due for this account. **Washoe County Parcel Information** Parcel ID Status Last Update 12/15/2015 2:10:17 15046005 Active \$0.00 AM SITUS: **Current Owner:** 0 MOUNT ROSE HWY TL MT ROSE ESTATES LP WCTY NV Pay By Check 3300 DOUGLAS BLVD STE 450 ROSEVILLE, CA 95661 AMOUNT ABOVE WILL POPULATE AFTER PAYMENT TYPE IS SELECTED Please make checks payable to: **Taxing District** Geo CD: WASHOE COUNTY TREASURER 6000 Mailing Address: Legal Description P.O. Box 30039 Reno, NV 89520-3039 Township 18 Section 35 Lot 3-1-A Block Range 19 SubdivisionName ESTATES AT MT ROSE Overnight Address: 1001 E. Ninth St., Ste D140 Reno, NV 89512-2845 PHASE 3A

Tax Bill (Click on desired tax year for due dates and further details)											
Tax Year	Net Tax	Total Paid	Penalty/Fees	Interest	Balance Due						
2015	\$4,204.07	\$4,204.07	\$0.00	\$0.00	\$0.00						
2014	\$4,073.04	\$4,136.01	\$0.00	\$0.00	\$0.00						
2013	\$3,952.78	\$3,952.78	\$0.00	\$0.00	\$0.00						
				Total	\$0.00						

#### **Important Payment Information**

- <u>ALERTS:</u> If your real property taxes are delinquent, the search results displayed may not reflect the correct amount owing. Please contact our office for the current amount due.
- For your convenience, online payment is available on this site. E-check payments are accepted without a fee. However, a service fee does apply for online credit card payments. See Payment Information for details.

The Washoe County Treasurer's Office makes every effort to produce and publish the most current and accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use, or its interpretation. If you have any questions, please contact us at (775) 328-2510 or tax@washoecounty.us

This site is best viewed using Google Chrome, Internet Explorer 11, Mozilla Firefox or Safari.

## **Diversion Site #1 - Whites Creek**

Washoe County Treasurer Tammi Davis

Account Detail

Back to Search Results Change of Address Print this Page **Washoe County Parcel Information** Parcel ID Status Last Update 12/15/2015 2:10:17 15049220 Active AM **Current Owner:** SITUS: WASHOE COUNTY 0 CALLAHAN RD ATTN COMMUNITY SERVICES DEPT WCTY NV PO BOX 11130 RENO, NV 89520 **Taxing District** Geo CD: 6000

Legal Description Township 18 Section 35 Lot 2-A Block OS Range 19 SubdivisionName ESTATES AT MT ROSE PHASE 3A

Tax Bill (Click on desired tax year for due dates and further details)						
Tax Year	Net Tax	Total Paid	Penalty/Fees	Interest	Balance Due	
2015	\$0.02	\$0.02	\$0.00	\$0.00	\$0.00	
2014	\$0.02	\$0.02	\$0.00	\$0.00	\$0.00	
2013	\$0.02	\$0.02	\$0.00	\$0.00	\$0.00	
				Total	\$0.00	

### **Important Payment Information**

- <u>ALERTS:</u> If your real property taxes are delinquent, the search results displayed may not reflect the correct amount owing. Please contact our office for the current amount due.
- For your convenience, online payment is available on this site. E-check payments are accepted without a fee. However, a service fee does apply for online credit card payments. See Payment Information for details.

The Washoe County Treasurer's Office makes every effort to produce and publish the most current and accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use, or its interpretation. If you have any questions, please contact us at (775) 328-2510 or tax@washoecounty.us

This site is best viewed using Google Chrome, Internet Explorer 11, Mozilla Firefox or Safari.

Washoe County Treasurer P.O. Box 30039, Reno, NV 89520-3039 ph: (775) 328-2510 fax: (775) 328-2500

**Pay Online** 

No payment due for this account. \$0.00 Pay By Check AMOUNT ABOVE WILL POPULATE AFTER PAYMENT TYPE IS SELECTED Please make checks payable to: WASHOE COUNTY TREASURER Mailing Address: P.O. Box 30039 Reno, NV 89520-3039 Overnight Address: 1001 E. Ninth St., Ste D140 Reno, NV 89512-2845 **Payment Information** Special Assessment District **Installment** Date Information **Assessment Information** 

## **Diversion Site #2 - Thomas Creek**

Washoe County Treasurer Tammi Davis Washoe County Treasurer P.O. Box 30039, Reno, NV 89520-3039 ph: (775) 328-2510 fax: (775) 328-2500

📙 Payment Information

**Special Assessment** 

District

Installment Date Information

Assessment Information

12c

Account Detail

					Pay Online
Back to Search R	esults Chan	ge of Address	Print this Pag	e	No payment due for
Washoe County Parcel Info	ormation				this account.
Parcel ID	9	Status	Last l	Jpdate	
15243018	ŀ	Active		15 2:10:17 M	\$0.00
Current Owner: WASHOE COUNTY ATTN COMMUNITY SERVICES PO BOX 11130 RENO, NV 89520	DEPT	SITUS: 0 ARRC WCTY N	WCREEK PKWY		Pay By Check AMOUNT ABOVE WILL POPULATE AFTER PAYMENT TYPE IS SELECTED
Taxing District 6000		Geo CI	):		Please make checks payable to: WASHOE COUNTY TREASURER
	Legal Des	cription			Mailing Address: P.O. Box 30039
Township 18 SubdivisionName	_UNSPECIFIED Ra	ange 19 Lot 4			Reno, NV 89520-3039 Overnight Address: 1001 E. Ninth St., Ste D140 Reno, NV 89512-2845
Tax Bill (Click on desired ta	ax year for due d	ates and furth	er details)		1010, 110 03012-2040
Tay Vear Net Tay Ta	tal Daid Dan		atovert Delev		

2015       \$0.19       \$0.00       \$0.00       \$0.00         2014       \$0.18       \$0.18       \$0.00       \$0.00         2013       \$0.18       \$0.20       \$0.00       \$0.00       \$0.00         2012       \$0.12       \$0.12       \$0.00       \$0.00       \$0.00         2011       \$0.14       \$0.14       \$0.00       \$0.00       \$0.00         Total	Tax Year	Net Tax	Total Paid	Penalty/Fees	Interest	Balance Due
2014       \$0.18       \$0.20       \$0.00       \$0.00       \$0.00         2012       \$0.12       \$0.12       \$0.00       \$0.00       \$0.00         2011       \$0.14       \$0.14       \$0.00       \$0.00       \$0.00	2015	\$0.19	\$0.19	\$0.00	\$0.00	\$0.00
2013       \$0.12       \$0.12       \$0.00       \$0.00         2011       \$0.14       \$0.00       \$0.00       \$0.00	2014	\$0.18	\$0.18	\$0.00	\$0.00	\$0.00
2012         \$0.14         \$0.00         \$0.00         \$0.00           2011         \$0.14         \$0.00         \$0.00         \$0.00	2013	\$0.18	\$0.20	\$0.00	\$0.00	\$0.00
2011	2012	\$0.12	\$0.12	\$0.00	\$0.00	\$0.00
Total \$0.00	2011	\$0.14	\$0.14	\$0.00	\$0.00	\$0.00
					Total	\$0.00

### **Important Payment Information**

- <u>ALERTS:</u> If your real property taxes are delinquent, the search results displayed may not reflect the correct amount owing. Please contact our office for the current amount due.
- For your convenience, online payment is available on this site. E-check payments are accepted without a fee. However, a service fee does apply for online credit card payments. See Payment Information for details.

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# **APPENDIX C**

**TRAFFIC IMPACT REPORT** 



То:	John Enloe, P.E.	From:	Joseph Mactutis, PE, PTOE
	Truckee Meadows Water Authority		Stantec Reno
File:	180101383	Date:	December 14, 2015

## Reference: Mt Rose/Galena Fan Water Treatment Plant – Special Use Permit Application Traffic Impact Report

This memorandum is submitted to the Truckee Meadows Water Authority (TMWA) in fulfillment of the "Traffic Impact Report" requirement of the Washoe County Special Use Permit Application (SUP) for the above referenced project.

## Background

It is understood that TMWA is proposing to develop the Mt. Rose/Galena Fan Water Treatment Plant (WTP) on property within The Estates at Mt. Rose subdivision. This location is further described as connecting to Callahan Ranch Road just north of the intersection of Callahan Ranch Road and Paris Avenue. Callahan Ranch Road intersects with SR 431, Mt. Rose Highway approximately 0.12 miles from the project site. Callahan Ranch Road and Paris Avenue are Washoe County jurisdictional roadways. SR 431, Mt. Rose Highway is an NDOT jurisdictional roadway classified as a minor arterial. Figure 1 below illustrates the project location.

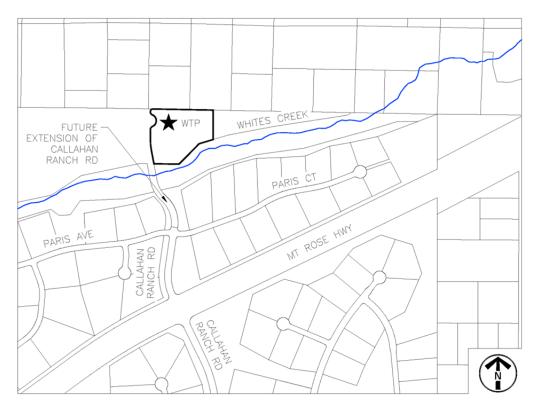


Figure 1. Proposed Mt. Rose/Galena Fan Water Treatment Plant Location



December 14, 2015 John Enloe, P.E. Page 2 of 3

## Reference: Mt Rose/Galena Fan Water Treatment Plant – Special Use Permit Application Traffic Impact Report

## **Traffic Impact Study Requirements**

As per Item 8 of the Washoe County SUP Development Application Requirements: "Traffic impact reports are required whenever the proposed development project will generate 80 or more weekday peak hour trips as determined using the latest edition Institute of Transportation Engineers (ITE) trip generation rates or other such sources as may be accepted by the Washoe County Engineering and Capital Projects. Projects with less than 200 peak hour trips may not need to perform an impact analysis for future years. Traffic consultants are encouraged to contact staff prior to preparing a traffic impact report."

## Consultation with Washoe County Community Development Department Staff

As recommended by Washoe County SUP Application Requirements, in October 2015 Stantec contacted Mr. Trevor Lloyd, Senior Planner with the Washoe County Community Services Department, regarding the need for a traffic impact report for this project. Although this was prior to the assignment of the case to Ms. Eva Krause, Mr. Lloyd concurred that a traffic impact report would not be required for the permit based on the anticipated traffic volumes. However, if traffic volumes exceeded these thresholds the development could be found in violation of its SUP.

## **Trip Generation**

Water treatment plants are unique facilities custom designed to perform specific water treatment operations and are not included in trip generation rates published by the Institute of Transportation Engineers (ITE). ITE's trip generation rates would also not have information for similar uses. Given the unique nature of water treatment plants, Stantec in conjunction with TMWA, developed anticipated traffic volumes based upon an operational analysis of the proposed Mt. Rose/Galena Fan WTP. This traffic estimate included employees required to operate the plant, facility maintenance personnel for landscaping, and material deliveries. This traffic estimate is presented in Appendix A "Mt Rose/Galena Fan Water Treatment Plant Staffing and Material Deliveries." In summary, anticipated traffic for this proposed water treatment plant is only four (4) trips per day. This is well below the Traffic Impact Report requirements of 80 weekday peak hour trips. Therefore, it is anticipated that a full traffic impact report is not required for the SUP Application and that this letter documenting the traffic generated by the site is sufficient.

## **Other Safety/Operation Concerns**

In addition to the trip generation analysis described above, Stantec transportation engineers made one site visit to determine if any readily apparent potential safety issues and/or non-standard design considerations were present. Based upon this site visit, no potential safety issues or non-standard design considerations were identified. The proposed water treatment plant would access the public street network at Callahan Ranch Road as the north leg of the intersection of Callahan Ranch Road and Paris Avenue. This intersection is already a two-way stop controlled intersection and therefore no additional control would be required for this connection at the north leg. Project traffic would access SR 431, Mt. Rose Highway via Callahan Ranch Road. Mt. Rose Highway already has westbound right turn pockets and eastbound left turn pockets to access Callahan Ranch Road. A visual assessment of sight distance did not reveal any concerns of inadequate sight distance.



December 14, 2015 John Enloe, P.E. Page 3 of 3

## Reference: Mt Rose/Galena Fan Water Treatment Plant – Special Use Permit Application Traffic Impact Report

## **Summary and Conclusions**

Stantec performed a trip generation estimate for the proposed Mt Rose/Galena Fan Water Treatment Plant and determined that traffic generated by the proposed project is well below thresholds established by Washoe County requirements for a traffic impact report as described in the SUP Development Application Requirements. Therefore, it is anticipated that a full traffic impact report is not required for the SUP Application and that this letter documenting the traffic generated by the site is sufficient. A site visit by Stantec transportation engineers did not reveal any potential safety issues or non-standard design considerations.

Stantec appreciates being of continued service to the Truckee Meadows Water Authority. If there are any questions or concerns regarding this traffic analysis, please feel free to contact the undersigned.

## **Stantec Consulting Services Inc.**

Joseph A. Mactutis PE, PTOE Associate, Transportation Engineer Phone: (775) 398-1288 Fax: (775) 850-0787 joseph.mactutis@stantec.com



Attachment: Appendix A, Mt Rose/Galena Fan Water Treatment Plant Staffing and Material Deliveries

c. John Buzzone, Stantec



Memo

To:	John Enloe, P.E.	From:	John Buzzone, P.E. Mike Wilkin, P.E.
	Truckee Meadows Water Authority		Stantec Reno
File:	180101383	Date:	November 13, 2015

## Reference: Mt Rose / Galena Fan Water Treatment Plant Staffing and Material Deliveries

Stantec, Inc. is currently preparing a Special Use Permit (SUP) application on behalf of the Truckee Meadows Water Authority (TMWA) for the proposed Mt. Rose / Galena Fan Water Treatment Plant (WTP). The SUP application requires the preparation of a traffic analysis to determine the impact the WTP will have on the surrounding roadways. The traffic loading will be a function of the number of employee trips and deliveries to the WTP. This memorandum was prepared to document the anticipated WTP staffing levels and the expected frequency of deliveries.

## **STAFFING REQUIREMENTS**

TMWA proposes to operate the WTP as an un-manned facility. This will require regularly scheduled visits as well as unscheduled visits by TMWA staff in standard service trucks. Scheduled visits are generally to perform process checks, collect water samples, monitor supplies, inspect equipment, perform regular maintenance, maintain landscaping, etc. Unscheduled visits, in general, will be for responding to process alarms, intrusion alarms, and to perform unscheduled maintenance or repairs. For the purpose of establishing the frequency of visits, it is assumed that some visits will be performed by non-operator staff (for example, landscape maintenance will be performed by TMWA landscaping staff). The anticipated scheduled and unscheduled staff visitations are summarized in Table 1.

Scheduled Visitations	Frequency
Process Operations	2 (per day)
Facilities Maintenance	1 (per week)
Landscaping Maintenance	1 (per week)
Unscheduled Visitations	
Maintenance/Repair	1 (per week)
Process Alarms	1 (per day)
Intrusion Alarms	1 (per week)
Total Average Visitations	
Average Weekly Visitations	25

Table 1 – Scheduled and Unscheduled Staff Visitations (Serv	ice Trucks)
---	-------------



## Reference: Mt Rose / Galena Fan Water Treatment Plant Staffing and Material Deliveries

Average Daily Visitations	3.6

## CHEMICAL AND MATERIALS DELIVERIES

Chemicals and materials will be delivered to the site in a variety vehicles ranging from service trucks to WB-40 trucks (up to 50-foot wheel span). Deliveries are expected to occur during normal scheduled staff visitations, and no additional staff visitations are necessary to receive the deliveries. The expected deliveries are summarized in Table 2.

Type of Delivery	Frequency
Sodium Hypochlorite	1 (per month)
pH Control	1 (per month)
Polymer	1 (per month)
Misc. Equipment/Supplies	1 (per month)
Sand	1 (per month)
Total Average Deliveries	
Average Monthly Deliveries	5
Average Daily Deliveries	0.2

## Table 2 – Chemical and Material Deliveries (Misc. Trucks)

# **APPENDIX D**

PRELIMINARY DRAINAGE ANALYSIS



To:	John Enloe, P.E.	From:	Candice Abrams, P.E. Trina Magoon, P.E.
	Truckee Meadows Water Authority 1355 Capital Boulevard Reno, Nevada 89502		Stantec Consulting Services, Inc. 6995 Sierra Center Parkway Reno, Nevada 89511-2213
File:	180101383	Date:	December 14, 2015

## **Reference:** Mt. Rose / Galena Fan Water Treatment Plant – Special Use Permit Application Preliminary Drainage Analyses

Stantec is currently preparing a Special Use Permit (SUP) application on behalf of the Truckee Meadows Water Authority (TMWA) for the proposed Mt. Rose / Galena Fan Water Treatment Plant (WTP). The SUP application requires the preparation of a drainage analysis to analyze existing and proposed drainage conditions at the WTP site.

## **PROJECT LOCATION**

The proposed WTP is located on an approximately 3.9 acre site within the Monte Vista at Mt. Rose Estates neighborhood. This site is within an open space area of the neighborhood and adjacent to White's Creek. The WTP will be served by two diversions, one on White's Creek and one on Thomas Creek. The proposed WTP and diversion locations are located within Special Flood Hazard Zone A of Whites Creek and Zone A of Thomas Creek as shown on the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) for Washoe County, Nevada and Incorporated Areas, panel 3240 of 3475, dated March 16, 2009.

## **ONSITE HYDROLOGIC ANALYSIS**

The Rational Method was utilized to estimate the onsite peak flow rates for the, 5-year and 100-year storm events. The equation for the Rational Method is as follows:

## $Q = C^*i^*A$

where: Q is the flow rate in cubic feet per second (cfs), C is the runoff coefficient, i is the intensity in inches per hour (in/hr), and A is the area in acres. One onsite watershed was developed for the site. Runoff coefficients were applied to the appropriate land uses within the watershed and weighted averages were calculated. NOAA Atlas 14 was used to estimate rainfall intensity values. Time of concentration for the basin was estimated using an initial overland flow time, plus the time of travel in a swale, or other conveyance system. A minimum time of concentration of ten (10) minutes was required per the *Truckee Meadows Regional Drainage Manual* (TMRDM), dated April 30, 2009, prepared by Washoe County, the City of Reno, and the City of Sparks, Nevada. Rational Method runoff rates for the site are listed in the table below:

Table 1 - Kational Method Kunon Kates					
Scenario	5 Year Event Total Q5 (cfs)	100 Year Event Total Q100 (cfs)			
Existing Conditions	1.3	7.8			
Proposed Conditions	2.3	9.3			
Runoff Increase	1.0	1.5			

Table 1 - Rational Method Runoff Rates



## Reference: Mt. Rose / Galena Fan Water Treatment Plant – Special Use Permit Application Preliminary Drainage Analyses

Stantec obtained increases in runoff from existing to proposed conditions in both the 5-year and 100-year storm events, confirming that detention is required for the site. An onsite detention basin is proposed in the eastern corner of the site, just east of the proposed facility.

## **PROPOSED IMPROVEMENTS**

The proposed onsite detention basin shall be designed to have sufficient capacity to detain the increase in runoff due to the proposed improvements, in addition to the 50,000 gallon water tank volume for a total of 281 cubic yards. Minimal additional onsite drainage improvements shall include inlets and storm drain piping in combination with LID swales that will enhance overall water quality onsite.

The WTP will be served by two infiltration gallery-type diversions, one on Whites Creek and one on Thomas Creek. The project will require the construction of facilities in the Sensitive Stream Zone. Whites and Thomas Creeks in the areas of the proposed diversions are historically undisturbed and heavily vegetated. Approximate flow rates for Thomas Creek and Whites Creek in the vicinity of the diversions were obtained from drainage reports prepared by Numbus Engineers, the *Revised Hydrologic Analyses for Thomas Creek, Dry Creek, and Boynton Slough,* dated November 1990, and the *Whites Creek Detention Facility Feasibility Study*" dated June 1993. 100-year flow rates of 2,640-cfs and 5,100-cfs were obtained for Thomas Creek and Whites Creek, respectively. The proposed diversions will include riprap channel lining to protect the diversion and prevent erosion. A preliminary maximum riprap size was found to be approximately Class 550; however, further analyses will be required to determine exact sizing.

Both streams in the project area are shown on the Washoe County Development Code (WCDC) Map 110.418.05.1 as a Perennial Stream and any project must comply with WCDC's Article 418 Significant Hydrologic Resources, and must result in no net loss of significant hydrological resource size, function and value. Further, any activities in the creeks will require coordination with the United States Army Corp of Engineers (USACE). Stantec will meet with the USACE at a Pre-Design Meeting to discuss the proposed project to determine any design requirements and mitigations necessary for the future diversions.

Compliance with FEMA regulations for development within a floodplain will also be required. In order to conceptually demonstrate no impact to the FEMA designated floodplain and no net loss of flood conveyance, one existing conditions cross section at each proposed intake location on Whites and Thomas Creeks were prepared and compared with proposed conditions cross sections showing the intake infrastructure.

## CONCLUSIONS

Preliminary conceptual hydrologic and hydraulic analyses for the project have been prepared. Supplemental backup data has been included for reference and can be found in the appendix. The proposed drainage improvements have been conceptually designed to accommodate the peak flows developed in the hydrologic analyses (and obtained through reference materials) and meet the design standard criteria outlined in the *Truckee Meadows Regional Drainage Manual* (TMRDM), dated April 30, 2009, prepared by Washoe County, the City of Reno, and the City of Sparks, Nevada.

# **APPENDIX E**

**COMMUNITY OUTREACH LETTER SENT BY TMWA** 

Quality. Delivered.



July ??, 2015

## 1355 Capital Blvd. ● P.O. Box 30013 ● Reno, NV 89520-3013 ♀ 775.834.8080 ● ♀ 775.834.8003

{FIRSTNAME} {LASTNAME} {MAILINGSTREET} {MAILCITY}, {MAILSTATE} {MAILZIP}

## RE: TMWA's Plan for Groundwater Sustainability on the Mt. Rose Fan Regarding Service Address: {STREETNUM} {STREET} {CITY}, NV {ZIPCODE}

Since the successful completion of Truckee Meadows Water Authority's (TMWA's) merger with the Washoe County Department of Water Resources (DWR) and the South Truckee Meadows General Improvement District (STMGID) water systems, TMWA is working on enhancing groundwater resources in the Mt. Rose Fan area.

At TMWA we recognized that once the merger was completed, we would implement programs to move treated surface water from the Truckee River and various creeks into the former DWR and STMGID systems. This conjunctive management of surface and groundwater resources in the Mt. Rose Fan area helps to protect and restore groundwater supplies. **Conjunctive use management maximizes use of surface water when it's available, thereby reducing groundwater pumping. This approach allows us to meet demands with surface water, and to rest and recharge specific wells when enough surface water is available. For example, from January through May of 2015, the Double Diamond #1 and STMGID #1, #2, #3 and #11 wells were not pumped; the areas that these wells serve were supplied with surface water. Compared to January through May of 2014, this operation reduced groundwater pumping by over 147 million gallons. In addition, we also recharged over 18 million gallons of surface water into the groundwater aquifer during this same period.** 

Due to dependence upon groundwater and the continued decline in water levels aggravated by the ongoing drought, it is necessary to provide a supplemental source of supply for the water systems located on the upper Mt. Rose and Galena fan areas as soon as possible. These areas currently rely on groundwater wells for 100 percent of their water supply and the continuing drought situation has severely limited the amount of natural recharge to local aquifers. TMWA's unique ability to provide conjunctive use management is something neither STMGID nor DWR could do with their more limited water resources. This program and the projects described below support one of the primary goals of consolidation: **to improve management of the area's water resources**.

With the full resources of a consolidated water utility now available, immediate construction of the facilities to implement conjunctive use management has begun. This will improve reliability for both TMWA customers and domestic well owners by mitigating the continued decline of groundwater levels in the area.

## **TMWA's Conjunctive Use Plan**

TMWA is implementing a \$7.8 million conjunctive-use plan for the Mt. Rose/Galena Fan area, consisting of three projects (see enclosed map) which will provide the ability to deliver treated surface water from the Truckee River to the area:

- Arrowcreek/Mt. Rose Conjunctive-Use Facilities
- Expanded Conjunctive-Use Facilities/Aquifer Storage and Recovery Program
- STMGID Conjunctive-Use Facilities

Note: these facility improvements are included in TMWA's existing budget and will not affect rates.

## Arrowcreek/Mt. Rose Conjunctive-Use Facilities

The Arrowcreek/Mt. Rose Conjunctive-Use Phase 1 Facilities will deliver up to 1,500 gallons per minute of surface water during the winter months. This allows TMWA to not pump its production wells in the Arrowcreek and Mt. Rose water systems. These facilities consist of three booster pump stations and about 3,600 feet of 10-inch pipe on Zolezzi Lane. When installed, the project will deliver water to the Arrowcreek #3 Tank, located below the Thomas Creek Trail parking lot off Timberline Drive. This \$2.8 million project is scheduled for construction in the summer of 2015; the facilities are planned to be operational by November of this year.

## Expanded Conjunctive-Use Facilities/Aquifer Storage and Recovery Program

TMWA is also expanding its Aquifer Storage and Recovery (ASR) Program. ASR occurs during the fall, winter and spring when water use in the community drops to approximately one-fourth of its peak summer usage, making Truckee River water available for recharge. ASR is the process of injecting treated surface water into the groundwater aquifer when the wells are not in use. The more water we can recharge and store during the off-peak season, the more we will have available when river flows are low. It's like money in the bank.

Since last winter, TMWA engineers, hydrogeologists and operations personnel have been identifying well sites for recharge in the Mt Rose/Galena Fan area. Staff is working as quickly as possible to test, design, permit, construct and implement recharge in at least three wells by this coming winter. The first wells scheduled to be equipped for recharge are Arrowcreek 2, Tessa West and Mt Rose 3.

Truckee Meadows Water Authority is a not-for-profit, community-owned water utility, overseen by elected officials and citizen appointees from Reno, Sparks and Washoe County.

Pg. 2

An additional component of the overall ASR program is Phase 2 of the Arrowcreek/Mt. Rose conjunctive-use facilities. Scheduled to be constructed in 2016-2017, Phase 2 will consist of an additional \$1.2 million of system improvements. This will allow delivery of surface water into the upper portions of the Mt. Rose/Galena water system for use in recharging additional wells.

## **STMGID Conjunctive-Use Facilities**

The third project, the \$3.8 million STMGID Conjunctive-Use Facilities, will provide an off-peak surface water supply for an area which primarily serves former STMGID customers, located in the vicinity of the Saddlehorn neighborhood. The facilities will be constructed in 2017-2018, benefiting TMWA customers and domestic well owners by providing surface water to protect and restore groundwater resources. The project will consist of a new booster pump station and about 8,100 feet of 10-inch pipe to be located on Arrowcreek Parkway. These facilities will deliver about 1,000 gallons per minute to the STMGID Tank 4 and Tank 5 zones during the winter months.

### Addressing Water Demand Created by New Development

Effective June 1, 2015, TMWA's Board of Directors adopted revisions to its rules, water rights dedication policies and Water Service Facility Charges for the Mt. Rose/Galena Fan area. These changes affect new development in the area.

It is important to note that TMWA is a water purveyor required to respond to development approved by local governments. TMWA does *not* promote or encourage development in one location versus another. When, where and what type of growth occurs is solely within the land-use entitlement and planning functions of cities, counties and regional planning agencies. By contrast, TMWA's water-supply planning is designed to facilitate delivery of safe and reliable water supplies—*if and when land-use entitlements are granted*. TMWA is obligated to provide retail water service to users in its service area, which it can only do by identifying present and future needs and doing the necessary planning to meet them. TMWA's integrated planning process ensures the long-term water resources, facility capacity and funding mechanisms are in place to meet current and future water supply and demand conditions.

The newly adopted rules, water rights dedication policies and Water Service Facility Charges for this area require developers to dedicate supplemental surface water (creek) supplies when dedicating groundwater for new service in the area. Supplemental surface water resources (Whites, Thomas and/or Galena creeks) are a key component of the conjunctive resource management plan and necessary to ensure a sustainable water supply for existing customers, domestic well owners and new development in these areas.

Truckee Meadows Water Authority is a not-for-profit, community-owned water utility, overseen by elected officials and citizen appointees from Reno, Sparks and Washoe County.

Pg. 3

Surface water from Whites, Thomas and Galena creeks has historically been used for agricultural irrigation. These creeks remain a key part of the regional water resources for the South Truckee Meadows. For instance, the creeks are used to augment the South Truckee Meadows Water Reclamation Facility reclaimed water (purple pipe) supply. The State Engineer also permits the use of these creek rights for water service.

In order to develop supplemental surface water supplies that will provide for the long-term sustainability of the local groundwater aquifer, TMWA is implementing the plan to construct a small water treatment plant (WTP) off of Whites and Thomas Creeks— this plan was approved as part of Washoe County's 2002 South Truckee Meadows Facility Plan. The County's Facility Plan recognized that, "The upper treatment plant is an integral component of the recommended water supply plan ... Most importantly, it will provide recharge water and/or offset winter groundwater pumping in the upper Mt. Rose fan area."

As part of the process of planning for this small WTP, biologists and scientists are evaluating creek habitat and biological resources, as well as its form, structure and functionality. This assessment will make it possible to estimate the amount and timing of water that could be supplied to the WTP. The WTP project will be vetted through various permitting agencies and Washoe County's Special Use Permit process, taking into account public input and comments.

Lastly, TMWA is developing and expanding an updated groundwater model for the area. The new model will significantly improve estimates of water-level impacts from future pumping, climate variability and recharge scenarios. TMWA plans to use the model to optimize well-pumping rates and locations, as well as recharge locations. This will help reduce the drawdown that can be expected to occur, particularly in the months when the municipal wells are used the most.

I understand this is a lot of information. If you have questions or would like further explanation of TMWA's plans, please contact me at jenloe@tmwa.com or 834-8250.

Sincerely,

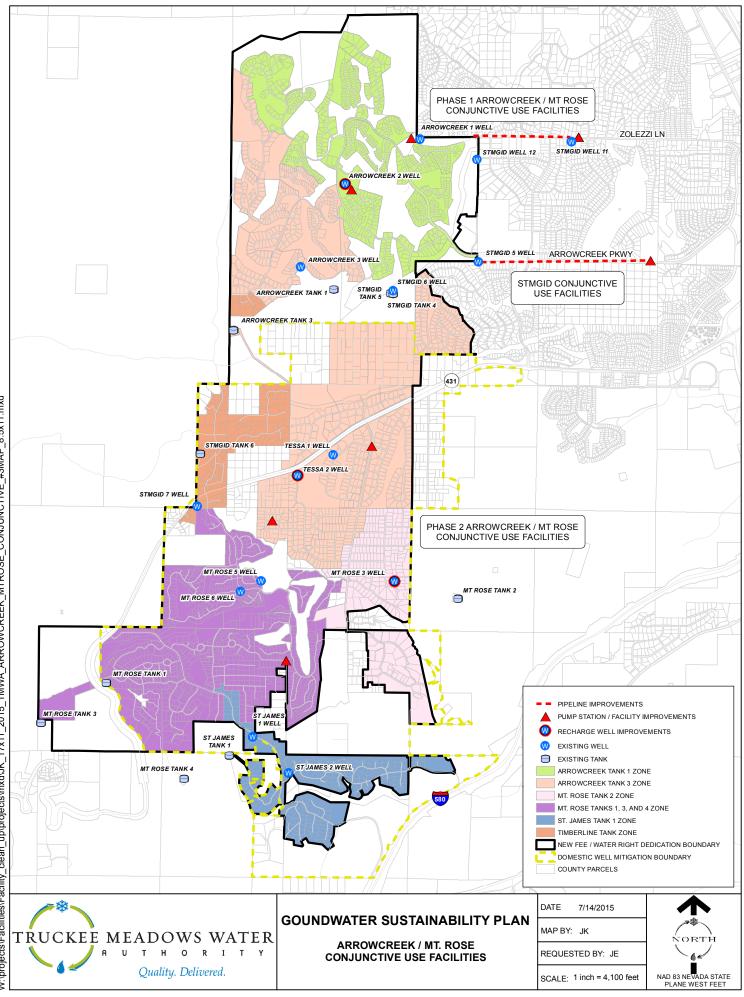
Jahn Enle

John Enloe, P.E. Manager, Operational Strategies

Enclosure

Truckee Meadows Water Authority is a not-for-profit, community-owned water utility, overseen by elected officials and citizen appointees from Reno, Sparks and Washoe County.

## Pg. 4



W:\projects\Facilities\Facility\_clean\_up\projects\mxd\JK\_17x11\_2015\_TMWA\_ARROWCREEK\_MTROSE\_CONJUNCTIVE\_#3MAP\_8.5x11.mxd

## **APPENDIX F**

# OFFICAL PLAT OF MONTE VISTA AT THE ESTATES AT MOUNT ROSE

### OWNER'S CERTIFICATE:

THIS IS TO CERTIFY THAT THE UNDERSIGNED, T. WT ROSE ESTATES, L.P., A CALIFORNIA LIMITED PARTNERSHIP, IS THE OWNER OF THE TRACT OF LAND REPRESENTED ON THIS PLAT AND HAS CONSENTED TO THE PREPARATION AND RECORDATION OF THIS PLAT AND THAT THE SAME IS DECLIDED IN COMPLIANCE. WITH AND SUBJECT TO THE PROVISIONS OF M.R.S. CHAPTERS 278 AND STORMARE THE PREPARATION AND RECORDATION OF THIS PLAT AND THAT THE SAME IS DECLIDED IN COMPLIANCE. WITH AND SUBJECT TO THE PROVISIONS OF M.R.S. CHAPTERS 278 AND SHOWN ARE HERE'T DEDICATED AND SET APART TO BE USED AS PUBLIC THORNOGINGHARES STOWN ARE HERE'T DEDICATED AND SET APART TO BE USED AS PUBLIC THORNOGING STORAGE, RADW MASHEN THE SAME IS SHOWN ON THE FLAT FOR FLOORD SWATER AUTHORITY SHOWN ARE HERE'T DEDICATED AND SET APART TO BE USED TO THAT FOR FLOORD SWATER AUTHORITY FUNCTEME MADONG SWATER AUTHORITY E SAMEMENTS BUTTIED OF THE MAT FAR FLOOR SWATER AUTHORITY STORAGE, MADONG SWATER AUTHORITY ESAMENTS BUTTIED TO THE PLAT FOR FLOOR SWATER AUTHORITY FUNCCEME MADONG SWATER AUTHORITY ESAMENTS BUTTIED TO THEORY FOR MADE READULIES WITH THE RIGHT OF ACCESS THERETO FOREVER, THE SURE FAOLINES AND ASSOCIATED MADONG SWATER AUTHORITY ESAMENTS BUTTIED TO THE WATER FAOLINES AND ASSOCIATED SWATER AUTHORITY ESAMENTS DENTIFIED OF THE AND ASSOCIATED MADONG SWATER AUTHORITY ESAMENTS BUTTIED THE AND FAULT AND FAOLINES AND ASSOCIATED SWATER AUTHORY FAULT ON MADE CONTY. THE WATER FAOLINES AND ASSOCIATED AND AND AND AND AND AND AND ADDIT AND AND ADDIT AND AND AND ADDIT AND AND ADDIT AND AND ADDIT AND ADDITE AND ADDIT AND ADDITED AND ADDIT AND ADDIT AND ADDIT AND ADDIT AND ADDIT AND ADDIT AND ADDITAL AND ADDIT ADDIT AND ADDITAL ADDITAL AND ADDITE AND ADDITAL AND ADDITAL AND ADDITAL ADDITES AND ASSOCIATED ADDITAL ADDITES AND ASSOCIATED ADDITAL ADDITES AND ASSOCIATED ADDITES AND ASSOCIATED ADDITAL ADDITES AND ASSOCIATED ADDITAL ADDITES AND ASSOCIATED ADDITAL ADDITES AND ASSOCIATED ADDITAL ADDITES AND ADDITAL ADDITES AND

TL MT ROSE ESTATES, LP, A CALIFORNIA LIMITED PARTNERSHIP BY: TL MANAGEMENT, INC., A CALIFORNIA CORPORATION

ACKNOWLEDGMENT:

STATE OF NEVADA COUNTY OF WASHOE } SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THE <u>12<sup>14</sup></u> DAY OF <u>AUGUSL</u>, 2015, BY <u>RICHARD BOLISSYTET</u>OF TL MANAGEMENT, INC., ITS <u>GENERAL</u> PARTNER OF TL MT. ROSE ESTATES, L.P., A CALIFORNIA LIMITED PARTNERSHIP.

Motary PUBLIC

PRINT NAME Amber Harmon BY COMMISSION NUMBER 01-71967-2 MY COMMISSION EXPIRES 11-17-2017

.15

#### SECURITY INTEREST HOLDER'S CERTIFICATE:

THIS IS TO CERTIFY THAT THE FOLLOWING HAVE CONSENTED TO THE PREPARATION AND RECORDATION OF THIS PLAT BY SEPARATE DOCUMENT.

HOUSING CAPITAL COMPANY, A MINNESOTA PARTNERSHIP BY DOCUMENT NO. OFFICIAL RECORDS OF WASHOE COUNTY, NEVADA (REFERENCE DEED OF TRUST DOCUMENT NO. 4124446 & MODIFICATION DOCUMENT NO'S 4271630 AND 4394024).

### TITLE COMPANY CERTIFICATE:

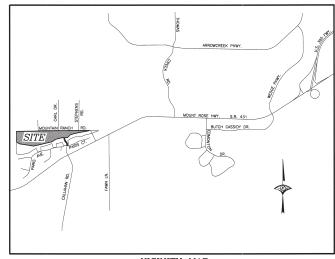
THE UNDERSIGNED HEREBY CERTIFIES THAT THIS PLAT HAS BEEN EXAMINED AND THAT TL MT. ROSE ESTATES, L.P., A CALFORNA LUMITED PARTNERSHP OWN OF RECORD OF MINITEREST IN THE LANDS DELINEATED HEREPH AND THAT THEY ARE THE OWN OF OWNED OF RECORD OF SMD LAND, THAT ALL COMPANY, A MINIESOTA PARTNERSHIP HOLDS OF RECORD A SECURITY MITTEREST IN A PORTION OF THE LAND, THAT THERE ARE NO LUENS OF RECORD A SECURITY MITTEREST IN A PORTION OF THE LAND, THAT THERE ARE NO LUENS OF RECORD A SECURITY MITTEREST IN A PORTION OF PECLAN. SESSIBILITS.



### COUNTY SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS PLAT CONSISTING OF 5 SHEETS, AND THAT I AM SATISFIED SAID PLAT IS TECHNICALLY CORRECT AND THAT AN ADECUATE PERFORMANCE GUARANTEE HAS BEEN FILED GUARANTEEING THE MONUMENTS AS SHOWN HEREON WILL BE SET BY\_\_\_\_\_

### MICHAEL E. GUMP, P.L.S. 13927 WASHOF COUNTY SURVEYOR



THE OFFICIAL PLAT OF MONTE VISTA AT THE ESTATES AT MOUNT ROSE

A COMMON INTEREST COMMUNITY

### VICINITY MAP NOT TO SCALE

### UTILITY COMPANIES' CERTIFICATE:

THE UTILITY EASEMENTS SHOWN ON THIS PLAT HAVE BEEN CHECKED, ACCEPTED AND APPROVED BY THE UNDERSIGNED CABLE TV, PUBLIC UTILITY COMPANIES, TRUCKEE MEADOWS WATER AUTHORITY AND WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT.



### TAX CERTIFICATE:

The undersched hereby certifies that all property takes on the land ord time fiscal vector had and that the fill and/ord or any determed property takes for the conversion to the property from Agricultural use has been paid pursuant to n.r.s. so 13/12.05. Q /a /a /a .



#### DISTRICT BOARD OF HEALTH CERTIFICATE:

THIS FINAL MAP IS APPROVED BY THE WASHOE COUNTY DISTRICT BOARD OF HEALTH. THIS APPROVAL CONCERNS SEMACE DISPOSAL WATER POLLUTION, WATER OLALITY AND WATER SUPPLY FOLLITES AND IS PREDICATED UPON PLANS FOR A PUBLIC WATER SUPPLY AND A COMMUNITY SYSTEM FOR DISPOSAL OF SEMACE.

FOR THE DISTRICT BOARD OF HEALTH

### DIVISION OF WATER RESOURCES CERTIFICATE:

THE PLAT IS APPROVED BY THE STATE OF NEWADA DIVISION OF WATER RESOURCES OF THE DEPARTMENT OF CONSERVITION WITH AND WATER RESOURCES CONCERNING WATER QUANTITY SUBJECT TO THE REMEW OF APPROVAL ON FILE IN THIS OFFICE. 9/1/2015





DATE

### COMMUNITY SERVICES CERTIFICATE:

THE TENTATIVE MAP FOR TM11-001 MONTE VISTA WAS APPROVED BY THE WASHOE COUNTY PLANNING COMMISSION ON THE 6TH DAY OF SEPTEMBER, 2011.

The Final Map. The optical plat of Monte MSTA at the States at Monit Rose. Meets all applicates statutes commandes and code providents. If in Substantial conformation with the textative map and its conditions, which are incorreated herein by this reference, and those combinitions have been satisfied for recordance of this MAP. REFERENCE, AND INDUCE CONTINUES THE DELET STRIPTLE FOR RECORDED ACTION OF THE WAR, EXCEPT THAT THE "OPERATIONAL CONDITIONS" CONTAINED IN THE RECORDED ACTION ORDER SHALL REMAIN IN FULL FORCE AND EFFECT IN PERPETUITY.

IF ALL LOTS ON THIS MAP ARE REVERTED TO ACREAGE AND A NEW SUBDIVISION APPROVAL IS OBTAINED AT A FUTURE DATE, THE PROVISIONS OF THIS APPROVAL SHALL BE NULL AND VOID, UPON APPROVAL BY WASHOE COUNTY OF THOSE ACTIONS.

THE IS THE OULY FINAL MAP FOR THI-OOI AND MUS BE APPROVED AND ACCEPTED FOR RECORDATION BY THE PLANNING AND DEVELOPMENT DIRECTOR ON OR BEFORE THE EXPRATION DATE. THE ENT HAVE AND SEVENTIATIES AND FOR THE TENTATIVE MAP MUST BE APPROVED BY THE WASHOE CONTIN' PLANNING COMMISSION ON OF BEFORES AND DATE.

THIS FINAL MAP IS APPROVED AND ACCEPTED FOR RECORDATION THIS \_\_\_\_\_ DAY OF \_\_\_\_\_\_ 20.\_\_\_\_ BY THE WASHOE COUNTY PLANNING AND DEVELOPMENT DIRECTOR. THE OFFER OF DEDICATION FOR STREETS, AVENUES, DRIVES, COURTS, OPEN SPACE, HIGHWAYS, SEWER FACILITIES IS RELECTED AT THIS THE, BUT WILL REMAIN OPEN IN ACCRONANCE WITH NRS CHAPTER 278.

DATE

BILL WHITNEY COMMUNITY DEVELOPMENT DIRECTOR

SURVEYOR'S CERTIFICATE:

I, DANIEL A. BIGRIGG, A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEVADA, CERTIFY THAT:

- 1. THIS PLAT REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF MT ROSE ESTATES, LP, A CALIFORNIA LIMITED PARTNERSHIP.
- 3. THIS PLAT COMPLIES WITH THE APPLICABLE STATE STATUTES AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE GOVERNING BODY GAVE ITS FINAL APPROVAL.
- 4. THE MONIMENTS DEPICTED ON THE PLAT WILL BE OF THE CHARACTER SHOWN AND OCCUPY THE POSITIONS MICRATED BY MID AN APPROPRIATE FINANCIAL GUARANTEE WILL BE POSTED WITH THE GOVERNME BODY BEFORE RECORDATION TO ENSURE THE INSTALLATION OF THE MONIMENTS.

WOOD RODGERS

5440 Reno Corporate Drive Tel 775.823.406 Reno, NV 89511 Fax 775.823.408



M. D. M. NEVADA JOB NO. 1558.007

SHEET

OF 5

DANIEL A. BIGRIGG, P.L.S. NEVADA CERTIFICATE NO. 19716 FILED FOR RECORD AT THE REQUEST

ON THIS \_\_\_\_\_ DAY OF \_\_\_ 201\_, AT \_\_\_\_ MINUTES PAST \_\_\_\_ O'CLOCK. \_.M., OFFICIAL RECORDS OF WASHOE COUNTY NEVADA

COUNTY RECORDER BY: \_\_\_\_\_\_ DEPUTY

FEE:

FILE NO.

