Board of Adjustment Staff Report



Meeting Date: July 24, 2020

Agenda Item: 8B

SPECIAL USE PERMIT CASE NUMBER:

WSUP20-0009 (Connect Neighborhood Center)

Phone Number: 775.328.3612, 775.328.3628 E-mail: <u>cbronczyk@washoecounty.us;</u> <u>dcahalane@washoecounty.us</u>

CASE DESCRIPTION

For possible action, hearing, and discussion to approve (1) the establishment of a 16,015-sf neighborhood center use type within the Low Density Suburban regulatory zone and (2) a request to vary parking standards from 64 spaces to 48 spaces.

Applicant: Location: APN:	Sage Property Ventures, LLC 2500, 2540 Crossbow Ct, located immediately northeast of the junction of Crossbow Ct and Arrowcreek Pkwy 152-921-01, 152-921-01	
Parcel Size:	0.774 acres, 1.073 acres	EE
Master Plan:	Suburban Residential	HE
Regulatory Zone:	Low Density Suburban	
Area Plan:	South West Truckee Meadows	
Citizen Advisory Board:	South Truckee Meadows/Washoe Valley	
Development Code:	Authorized in Article 302, Allowed Uses; Article 810, Special Use Permits	
Commission District:	2 – Commissioner Lucey	



STAFF RECOMMENDATION

APPROVE

APPROVE WITH CONDITIONS

DENY

POSSIBLE MOTION

I move that, after giving reasoned consideration to the information contained in the staff report and information received during the public hearing, the Washoe County Board of Adjustment approve with conditions Special Use Permit Case Number WSUP20-0009 for Sage Property Ventures, LLC for (1) to establish a neighborhood center use type, and (2) to vary standards as conditioned in Exhibit A, having made all five findings in accordance with Washoe County Code Section 110.810.30

(Motion with Findings on Page 17)

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Special Use Permit

The purpose of a special use permit is to allow a method of review to identify any potential harmful impacts on adjacent properties or surrounding areas for uses that may be appropriate within a regulatory zone; and to provide for a procedure whereby such uses might be permitted by further restricting or conditioning them so as to mitigate or eliminate possible adverse impacts. If the Board of Adjustment grants an approval of the special use permit, that approval is subject to conditions of approval. Conditions of approval are requirements that need to be completed during different stages of the proposed project. Those stages are typically:

- Prior to permit issuance (i.e. a grading permit, a building permit, etc.)
- Prior to obtaining a final inspection and/or a certificate of occupancy on a structure
- Prior to the issuance of a business license or other permits/licenses
- Some conditions of approval are referred to as "operational conditions." These conditions must be continually complied with for the life of the business or project.

The conditions of approval for Special Use Permit Case Number WSUP20-0009 are attached to this staff report as Exhibit A and will be included with the action order, if approved.

The subject property is designated as Low Density Suburban (LDS). The proposed use type is a neighborhood center which is a subcategory under commercial center and is permitted in (LDS) with an approved special use permit per WCC 110.302.05.3. Therefore, the applicant is seeking approval of this SUP from the Board of Adjustment.

Additionally, the SUP ordinance allows the Board to vary standards within the approval process per WCC 110.810.20(e). The applicant is seeking to vary parking standards from 64 required spaces to 48 spaces.



Site Plan

Project Evaluation

The proposed project site consists of two currently undeveloped parcels totaling ± 1.82 acres. This site has had 2 previous special use permits on June 13, 2014 and on October 15, 2018 submitted for this location. One was approved by Washoe County and the other was withdrawn by the applicant.

The subject properties have a Master Plan Designation of Suburban Residential (SR) and a regulatory zone of Low Density Suburban (LDS). The proposed development will be required to meet LDS yard setbacks which are 30 feet for front and rear and 12 feet for side yard setbacks. The proposed project site is adjacent to other properties with LDS regulatory zones to the east, north, west, and south. Immediately to the east is the newly constructed Marce Herz Middle School (LDS), while to the west is Hunsberger Elementary School (LDS) and Sage Ridge School (LDS), a private school. Arrowcreek Park (LDS) is located to the southwest of the project site.

The applicant is proposing to construct a neighborhood commercial center, consisting of a 16,015 square foot neighborhood center (including personal services) within the Low Density Suburban regulatory zone. A neighborhood commercial center is a type of a commercial center (commercial use type) and is defined in Washoe County Code Chapter 110, Article 304, *Use Classification System*, as follows:

Section 110.304.25 Commercial Use Types: Commercial use types include the distribution and sale or rental of goods, and the provision of services other than those classified as civic or industrial use types. All permanent commercial uses are required to operate from a commercial structure.

The Washoe County Development Code details what is allowed within the LDS Regulatory Zone in Article 302, Allowed Uses, and defines each use in Article 304, Use Classification System. If the Board wishes to approve the proposed special use permit to allow for a Neighborhood Center. The applicant is requesting to establish a Neighborhood center, as defined below:

- (f) typically includes convenience retail and services a population of 2,500 to <u>Commercial</u> <u>Centers:</u> Commercial centers use type refers to a group of unified commercial establishments built on a site which is planned, developed, owned and managed as an operating unit. The following are commercial center use types:
 - (1) <u>Neighborhood Centers:</u> Neighborhood centers refer to sales of convenience goods (foods, drugs and sundries) and personal services, those which meet the daily needs of an immediate neighborhood trade area. A neighborhood center 40,000 people, typically has a service area radius of one-half to one-and-one- half miles, and has a typical range of 15,000 to 50,000 square feet of gross leasable area.

Commercial use types allowed or permitted within the LDS Regulatory Zone are allowed as a main use within the neighborhood center. Other commercial use types may be permitted as an ancillary use within a neighborhood center.

The applicant is also requesting to establish personal services use type within the neighborhood center. The definition of personal services can be found below.

(z) Personal Services: Personal services use type refers to establishments primarily engaged in the provision of informational, instructional, personal improvement, and similar services of a non-professional nature, but excludes services classified as commercial recreation or lodging services. Typical uses include photography studios, yoga studios, driving schools, weight loss centers, and photography studios.

Personal services use types are not allowed within an LDS regulatory zone but are included in the definition of a neighborhood center. Therefore, any personal services must be part of a mix of convenience and personal services. Staff has determined that the personal services use type may not exceed 50% of the total building footprint in order to meet the intent of the neighborhood center

use definition. The proposed personal services use type is limited to 6,600sf and does not exceed 50% of the total building footprint as outlined in the application.

The proposed neighborhood center is intended to have community gardens and personal services such as a fitness studio, indoor and outdoor meditation spaces for both adults and children, as well as coffee/tea areas, and retail areas. Convenience retail is permissible with an approved special use permit. A demonstration kitchen, co-working pods, and training/meeting spaces will be utilized within the proposed neighborhood center. Food takeaway options will be present at this location but indicates no food preparation will take place on site. It is estimated that there will be 12-15 employees during peak hours, 15-20 children under the age of 16 for the meditation class, and 20 attendees in adult studio classes. The proposed general hours of operation are from 7:00 a.m. to 9:00 p.m. on weekdays and 7:00 a.m. to 5:00 p.m. on weekends. Peak hours are anticipated to be between 8:00 a.m. to 10:00 a.m. and 3:00 p.m. to 6:00 p.m.

The proposed development intends to tie into existing utilities and infrastructure. The service providers are Waste Management, NV Energy, and Truckee Meadows Water Authority (TMWA). Wastewater will be handled by Truckee Meadows Water Reclamation Facility. The building permit will require review from the City of Reno's Environmental Control prior to approval. Environmental Control is the agency that provides inspections per the interlocal agreement. Washoe County Engineering and Capital Projects has indicated that TMWRF has sufficient capacity for this type of development.

The applicant will be required to complete a reversion to acreage prior to any site development. The applicant has mentioned the intent to do so and staff has required this as part of the conditions of approval (Exhibit A).





2,800 SF









Master Plan Category/Regulatory Zone

The project has a Master Plan category of Suburban Residential (SR) with a Regulatory Zone of Low Density Suburban (LDS). Although residential in nature, the Low Density Suburban (LDS) regulatory zone does allow for limited commercial use types.

Section 110.106.10 Master Plan Categories

(c) <u>Suburban Residential:</u> The Suburban Residential Master Plan category is intended primarily for residential uses of low to medium densities. Supporting neighborhood scale commercial uses and mixed use village center development is allowed with approval of a discretionary permit. The following Regulatory Zones are allowed in and are consistent with the Suburban Residential Master Plan category: Low Density Suburban One, Low Density Suburban Two, Medium Density Suburban, Medium Density Suburban Four, High Density Suburban, Public and Semi-Public Facilities, Specific Plan, Parks and Recreation, and Open Space.

Section 110.106.15 Regulatory Zone

(f) Low Density Suburban Regulatory Zone: The Low Density Suburban (LDS) Regulatory Zone is intended to create and preserve areas where single-family, detached homes on one (1) acre lots are predominant. Small neighborhood commercial uses may be permitted when they serve the needs of residents and are compatible with the residential character of the area. The maximum number of dwelling units that may be located in this regulatory zone is one (1) unit per one (1) acre. The minimum lot area in this regulatory zone is thirty-five thousand (35,000) square feet.

Traffic Flow/Access

It is anticipated that a majority of traffic for the neighborhood center will be from local area residents of the surrounding subdivisions and local schools, which would be typical of small neighborhood centers of this size and location. Access will be off Crossbow Court only. The Washoe County Engineering Program typically requires a certified Traffic Study if a project exceeds 80-peak hour ADT. Based on the anticipated traffic numbers, no traffic improvements will be required for Arrowcreek Blvd. or Crossbow Court.

The applicant has provided a traffic study, dated June 3, 2020. The proposed project is anticipated to generate approximately 463 Average Daily Trips (ADT), as shown in the table below:

				TRI	TABL P GENE		ON						
		AM STUDY HOURS					PM STUDY HOURS						
		7:00-8:00		7:30-8:30		8:30-9:30		2:00-3:00		3:00-4:00		4:30-5:30	
LAND USE	ADT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
Community Center 16,015 S.F.	463	46	23	46	23	18	9	7	7	12	15	29	32

Parking and Screening

WCC Section 110.410.10, *Required Parking Spaces*, and WCC Table 110.410.10.3, Off-Street Parking Space Requirements, requires, for commercial centers which includes a neighborhood center) between 15,000 square feet and 400,000 square feet, 4 parking spaces per 1,000 square feet of a building. The proposed project is anticipated to be a maximum of 16,015 square feet, therefore requiring 64 parking spaces. The applicant is requesting that the Board of Adjustment vary this standard as described on page 13 of this staff report under the section "modification of standards". WCC Section 110.410.15(c) regulates handicapped parking and refers to WC Table

110.410.15.1, Handicapped Accessible Spaces which requires 3 handicapped accessible spaces (for the range of 51 to 75 required parking spaces) and one of those must be van accessible. All parking spaces, driveways, and maneuvering areas shall be paved and permanently maintained with asphalt or cement.

All business loading/un-loading areas are planned to be on the North side of the building and will be screened from residential uses. Additionally, the trash and recycle enclosures will be located in the parking area and will be screened with the appropriate enclosure type and fencing (6 to 7 feet high fencing consisting of chain-link with vinyl slats or concrete block enclosure), per Washoe County Development Code 110.412.40 (d).

Landscaping

A preliminary landscape plan has been provided as part of the application. The landscape plans depict 40,831 square feet of landscaped area with a mix of evergreen trees, deciduous trees, and a large number of shrubs. Per Washoe County Code Section 110.412.40, a minimum of 20% of the total developed land area shall be landscaped and 20% of the 1.81-acre site is 15,768 square feet. Additionally, 1 tree every 50 linear feet of street frontage is required. The landscaping plan as submitted appears to meet the requirements set forth in Article 412.



Signage and Lighting

The applicant has proposed sign criteria in order to provide consistency and uniformity of signage throughout the neighborhood center. The applicant is proposing a 5.5-foot tall Monument style sign to be placed at the southeast corner of the project site, along Arrowcreek Parkway. The total square footage of the sign is 29.33 square feet. The proposed signage as submitted appears to be in compliance with WCC Chapter 110, Article 505, *Sign Regulations*.



All on-site lighting must adhere to Washoe County's "dark sky" standards, including down shielded lights and not allowing for spillover onto adjoining properties, per the Washoe County Development Code Section 110.414.21. Light poles cannot exceed 12 feet in total height if within 100 feet of a residentially zoned property. All lighting must comply with Article 414, Noise and Lighting Standards. A preliminary photometric plan was submitted as part of the application and as submitted does not meet the standards set forth in Article 414. The lighting plan submitted shows 10 light posts that are 28 feet tall. The lighting plan submitted does not indicate the 10 light fixtures will be down-shielded and the height exceeds the allowable height within a residential zone. A recommended condition of approval has been included that requires an updated lighting plan to be submitted at building permit stage that conforms to code standards. Compliance will also be confirmed prior to Certificate of Occupancy.



Grading

A total of 2,700 cubic yards of excavation is anticipated at this site, of which 1,200 cubic yards shall be exported. The site will have a total disturbance area of 65,000 square feet, which triggers a special use permit for area disturbed on slopes less than fifteen percent. The majority of the disturbed area will be covered by buildings, parking, paving, and ornamental landscaping. The grading plan includes a detention pond along the eastern edge of the property. As submitted, the proposed grading conforms to Washoe County standards.



Modification of Standards

The applicant is requesting parking standards be reduced from the required 64 spaces (4 spaces per 1000sf) and 5 loading spaces (1 space per 3,000sf) to 33 parking spaces and 1 loading space respectively. The applicant provided a parking study using the Institute of Traffic Engineer's 5th edition of ITE Parking Generation.

The applicant assessed the parking demand for both a community center, ITE #495, and a shopping center, ITE #820. The applicant's parking analysis for the community center use type generated an average parking need of 2.07 spaces per 1000sf for a total of 33 parking spaces. The applicant's parking analysis for a shopping center use type generated an average parking need of 1.95 spaces per 1000sf for a total of 32 parking spaces. These are both less than the 48 parking spaces outlined in the application.

A community center use type is not allowed in an LDS regulatory zone per WCC table 110.302.05.2. Therefore, staff rejects the request to vary standards based on a community center use type. However, staff believes that the shopping center use type fits with the proposed commercial center neighborhood in this application. Therefore, staff agrees to vary the parking standards to require 1.95 spaces per 1000sf for the proposed neighborhood center and has provided conditions in Exhibit A.

Staff agrees that the 5 loading spaces is excessive for a neighborhood commercial use type and has provided conditions to reduce the number of loading spaces to 1, which can be found in Exhibit A.

Southwest Truckee Meadows Area Plan Modifiers

WCC Chapter 110, Article 214, *Southwest Truckee Meadows Area*, has one section applicable to this proposed application:

Section 110.214.10 Height Restrictions – In addition to height restrictions established in Article 402, Density/Intensity Standards, and Article 406, Building Placement Standards, all new commercial structures in commercial or residential regulatory zones are limited to two stories in height, not to exceed thirty-five (35) feet in height. If the underlying building pad has a slope in excess of fifteen (15) percent, an additional six (6) feet shall be added to the thirty-five (35) foot maximum.

<u>Staff Comment</u>: The applicant has proposed the height to be thirty-three (33) feet, which is under the thirty-five (35) foot maximum building height for the Neighborhood Center. Therefore, the proposed development is in conformance with this requirement.

Southwest Truckee Meadows Area Plan

SW2.2 Site development plans in the Southwest Truckee Meadows planning area must include a plan for the control of noxious weeds. The plan should be developed through consultation with the Washoe County District Health Department, the University of Nevada Cooperative Extension, and/or the Washoe-Storey Conservation District. The control plan will be implemented on a voluntary compliance basis.

<u>Staff Comment:</u> No noxious weeds plan was submitted with the proposed application. A noxious weeds plan will be required to be submitted at time of building permit.

SW 2.3 Applicants directed to obtain a variance, special use permit, tentative map, or master plan amendment shall be required to present their items to the Citizen Advisory Board (CAB) and submit a statement to staff regarding how the final proposal responds to the community input received at the CAB.

<u>Staff Comment:</u> The applicant presented to the CAB on June 11, 2020 and has provided a statement to staff on how the final proposal responds to community input. (Exhibit H).

SW 2.5 Any lighting proposed must show how it is consistent with current best practice "dark-sky" standards. In subdivisions established after the date of final adoption of this plan the use of streetlights will be minimized.

<u>Staff Comment:</u> The applicant submitted a preliminary photometric plan with the application. The application indicates that all lighting will be dark sky compliant per the South Valleys Master Plan. Proposed lighting must be down shielded and reduced to 12' max height light poles.

SW 2.6 Street lights, security lights, and other outdoor lighting should be powered by solar or other renewable energy sources whenever possible.

<u>Staff Comment</u>: This policy is a development guideline found within Goal Two of the Southwest Truckee Meadows area plan, and whenever possible lighting for the development should be powered by solar or other renewable energy sources.

SW 2.8 All landscape designs will emphasize the use of native vegetation, with non-native and atypical vegetation integrated sparingly into any landscaped area.

<u>Staff Comment</u>: The applicant submitted a landscape plan with the application, the landscape plan shows a mix of evergreen and deciduous trees, as well as evergreen and deciduous shrubs. The landscape plan meets the intent of goal SW 2.8.

SW 2.14 The approval of all special use permits and administrative permits must include a finding that the community character as described in the character statement can be adequately conserved through mitigation of any identified potential negative impacts. Mitigation measures shall be reviewed by the Washoe County Planning Commission as well as by the relevant Citizen Advisory Board.

<u>Staff Comment:</u> The proposed use type is a moderate increase in a high-quality mix of commercial use types along an established transportation corridor, Arrowcreek Parkway. Staff believes that the proposed development is not in conflict with the community character outlined in the character statement. No mitigation measures are needed.

SW 8.5 As new residential and commercial properties develop in the Southwest Truckee Meadows planning area, the Washoe County Department of Regional Parks and Open Space will review development proposals for potential trail connections.

<u>Staff Comment:</u> The application was provided to Washoe County's Parks and Open Space Planner, after reviewing the application, no comments or conditions were requested.

SW 10.3 The granting of special use permits in the SWTM planning area must be accompanied by a finding that no significant degradation of air quality will occur as a result of the permit. As necessary, conditions may be placed on special use permits to ensure no significant degradation of air quality will occur. The Department of Community Development will seek the advice and input of the Air Quality Division of the Department of Health in the implementation of this policy.

<u>Staff Comment:</u> The project was sent to the Air Quality Division for review. Staff did not receive any comments indicating that there would be significant degradation of air quality.

SW 11.1 Development proposals, with the exception of single family homes and uses accessory to single family homes, within the Southwest Truckee Meadows planning area will include detailed soils and geo-technical studies sufficient to:

- a. Ensure structural integrity of roads and buildings.
- b. Provide adequate setbacks from potentially active faults or other hazards.
- c. Minimize erosion potential.

<u>Staff Comment:</u> The applicant has submitted a drainage report and provided a geotechnical study with the application. The hydrology report and geotechnical study highlighted no hazards or significant constraints on the property.

Land Use and Transportation Element

LUT 1.2 Mixed-use, sustainable developments are extremely encouraged.

<u>Staff Comment:</u> The proposed development contains mixed use elements within the design, providing gardens, convenience, retail, meditation, and classes for adults and children.

LUT 2.1 Ensure that existing and proposed land uses are compatible. a. Projects shall be evaluated with the intent to promote mixed-use and land use compatibility. b. Mixed-use refers to the combining of retail/commercial and/or service uses with residential or office use in the same building or on the same site in one of the following ways

<u>Staff Comment:</u> The subject properties border existing schools to the north and west and a future school to the east. The subject property is separated by Arrowcreek Parkway from Arrowcreek Park and Saddlehorn Open space. All of the surrounding use types are civic in nature, which are compatible with the neighborhood scale commercial development proposed.

LUT 2.4 Development reviews shall include a process to ensure that a safe and reasonable walking/biking route exists between all relevant land uses that promote these alternative transportation modes within a community or region.

<u>Staff Comment:</u> The site is accessible via Arrowcreek Parkway, which has bicycle lanes and paved sidewalks up to the site. The site is also accessible via trails through Arrowcreek Park and a crosswalk at the intersection of Crossbow Ct and Arrowcreek Parkway. Staff believes that there are safe walking/biking routes to the proposed development.

LUT 21.2 Nonresidential development shall be compatible with the nearby neighborhoods, service and facility capacities, and the surrounding environment.

<u>Staff Comment:</u> The proposed development is not an intense commercial use, it is limited to what is allowed under the LDS regulatory zone. Staff believes the proposed use type is compatible with the nearby neighborhoods and surrounding civic land uses.

LUT 25.1 Ensure that development proposals are in conformance with appropriate Master Plan policies and the relevant Area Plan policies.

<u>Staff Comment:</u> The proposed application meets all appropriate Master Plan policies, and relevant Area Plan policies.

South Truckee Meadows/Washoe Valley Citizen Advisory Board (STMWV CAB)

The proposed project was presented by the applicant's representative at the regularly scheduled Citizen Advisory Board meeting on June 11, 2020. The proposed application was unanimously approved by the CAB. The following items were brought up at the CAB meeting.

- Increased traffic generation
- One-way signage
- Why does the proposed grading not require an SUP

Reviewing Agencies

The following agencies received a copy of the project application for review and evaluation.

- Washoe County Community Services Department
 - o Planning and Building Division
 - o Engineering and Capital Projects Division
 - o Utilities/Water Rights
 - Parks and Open Spaces
 - o **Traffic**

- Washoe County Health District
 - o Air Quality
 - Environmental Land Development
 - o Emergency Medical Services
- Washoe County School District
- State of Nevada
 - Division of Environmental Protection
 - Department of Transportation
 - o Department of Wildlife
- Truckee Meadows Fire Protection District
- Regional Transportation Commission
- Washoe-Storey Conservation District
- South Truckee Meadows / Washoe Valley Citizen Advisory Board

Four out of the sixteen above listed agencies/departments provided comments and/or recommended conditions of approval in response to their evaluation of the project application. **Five** additional agencies – Emergency Medical Services, Water Management Planning, Parks and Open Spaces, Nevada Department of Transportation, and Washoe County Sheriff's Office - reviewed the application but had no comments or conditions. A **summary** of each agency's comments and/or recommended conditions of approval and their contact information is provided. The Conditions of Approval document is attached to this staff report and will be included with the Action Order.

- <u>Washoe County Planning and Building Division</u> addressed operational requirements in effect for the life of the project.
 Contact: Chris Bronczyk, 775.328.3612, <u>cbronczyk@washoecounty.us</u>; Dan Cahalane, 775.328.3628, dcahalane@washoecounty.us
- <u>Washoe County Engineering and Capitol Projects Division</u> addressed construction, draining code requirements, and provided parking and traffic conditions.
 Contact: Leo Vesely, 775.328.2313, Ivesely@washoecounty.us
- <u>Washoe-Storey Conservation District</u> addressed noxious weeds requirements, building color, and drainage.
 - Contact: Jim Shaffer, shafferjam51@gmail.com
- <u>Truckee Meadows Fire Protection District</u> addressed fire access, fire protection water supply, and provided International Wildland-Urban Interface Code information.
 Contact: Dale Way, 775.326.6000; Dway@tmfpd.us

Staff Comment on Required Findings

WCC Section 110.810.30, Article 810, *Special Use Permits*, requires that all the following findings be made to the satisfaction of the Washoe County Board of Adjustment granting approval of the request. Staff has completed an analysis of the special use permit application and has determined that the proposal is in compliance with the required findings as follows.

1. <u>Consistency.</u> That the proposed use is consistent with the action programs, policies, standards and maps of the Master Plan and the Southwest Truckee Meadows Area Plan.

<u>Staff Comment:</u> The proposal is consistent with the Master Plan and the Southwest Truckee Meadows Area Plan. The proposed Neighborhood Center use types is permitted, subject to the approval of a special use permit, in the Low Density Suburban (LDS) regulatory zone.

2. <u>Improvements.</u> That adequate utilities, roadway improvements, sanitation, water supply, drainage, and other necessary facilities have been provided, the proposed improvements are properly related to existing and proposed roadways, and an adequate public facilities determination has been made in accordance with Division Seven.

<u>Staff Comment:</u> The existing and planned improvements on the project site will adequately serve the proposed new use. The proposed project was reviewed by relevant agencies and no conditions were received regarding additional required improvements.

3. <u>Site Suitability.</u> That the site is physically suitable for a neighborhood center, and for the intensity of such a development.

<u>Staff Comment:</u> The applicant is planning grading improvements to the site, which will make it physically suitable for the construction of the Neighborhood Center. The Southwest Truckee Meadows Area Plan's Development Suitability Map indicates that the subject parcels are unconstrained.

4. <u>Issuance Not Detrimental.</u> That issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area.

<u>Staff Comment</u>: As proposed and with the conditions of approval, the proposed uses are expected to create minimal impacts and not cause significant detriment or injury to the public, adjacent properties, or surrounding area.

5. <u>Effect on a Military Installation.</u> Issuance of the permit will not have a detrimental effect on the location, purpose or mission of the military installation.

<u>Staff Comment:</u> No military installations are located within the required noticing distance; therefore, this finding does not apply to this project.

Required Findings for Special Use Permits within the Southwest Truckee Meadows Area Plan

6. SW 2.14 The approval of all special use permits and administrative permits must include a finding that the community character as described in the character statement can be adequately conserved through mitigation of any identified potential negative impacts. Mitigation measures shall be reviewed by the Washoe County Planning Commission as well as by the relevant Citizen Advisory Board.

<u>Staff Comment:</u> Staff believes that this finding can be made, the conditions of approval will assist in mitigating any potential impacts.

Recommendation

After a thorough analysis and review, Special Use Permit Case Number WSUP20-0009 is being recommended for approval with conditions. Staff offers the following motion for the Board's consideration.

<u>Motion</u>

I move that, after giving reasoned consideration to the information contained in the staff report and information received during the public hearing, the Washoe County Board of Adjustment approve with conditions Special Use Permit Case Number WSUP20-000 for Sage Property Ventures, LLC

for (1) to establish a neighborhood center use type, and (2) to vary standards as conditioned in Exhibit A, having made all five findings in accordance with Washoe County Code Section 110.810.30:

- 1. <u>Consistency.</u> That the proposed use is consistent with the action programs, policies, standards and maps of the Master Plan and the Southwest Truckee Meadows Area Plan;
- 2. <u>Improvements.</u> That adequate utilities, roadway improvements, sanitation, water supply, drainage, and other necessary facilities have been provided, the proposed improvements are properly related to existing and proposed roadways, and an adequate public facilities determination has been made in accordance with Division Seven;
- 3. <u>Site Suitability.</u> That the site is physically suitable for a Neighborhood Center, and for the intensity of such a development;
- 4. <u>Issuance Not Detrimental.</u> That issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area;
- 5. <u>Effect on a Military Installation</u>. Issuance of the permit will not have a detrimental effect on the location, purpose or mission of the military installation.

Appeal Process

Board of Adjustment action will be effective 10 calendar days after the written decision is filed with the Secretary to the Board of Adjustment and mailed to the applicant, unless the action is appealed to the Washoe County Board of County Commissioners, in which case the outcome of the appeal shall be determined by the Washoe County Board of County Commissioners. Any appeal must be filed in writing with the Planning and Building Division within 10 calendar days from the date the written decision is filed with the Secretary to the Board of Adjustment and mailed to the applicant.

Applicant/Owner:	Sage Property Ventures, LLC 510 West 4 th St.
	Carson City, NV 89703

Representatives: Tectonics Design Group 730 Sandhill Rd, Ste 250 Reno, NV 89521



Conditions of Approval

Special Use Permit Case Number WSUP20-0009

The project approved under Special Use Permit Case Number WSUP20-0009 shall be carried out in accordance with the conditions of approval granted by the Board of Adjustment on July 24, 2020. Conditions of approval are requirements placed on a permit or development by each reviewing agency. These conditions of approval may require submittal of documents, applications, fees, inspections, amendments to plans, and more. These conditions do not relieve the applicant of the obligation to obtain any other approvals and licenses from relevant authorities required under any other act.

<u>Unless otherwise specified</u>, all conditions related to the approval of this special use permit shall be met or financial assurance must be provided to satisfy the conditions of approval prior to issuance of a grading or building permit. The agency responsible for determining compliance with a specific condition shall determine whether the condition must be fully completed or whether the applicant shall be offered the option of providing financial assurance. All agreements, easements, or other documentation required by these conditions shall have a copy filed with the County Engineer and the Planning and Building Division.

Compliance with the conditions of approval related to this special use permit is the responsibility of the applicant, his/her successor in interest, and all owners, assignees, and occupants of the property and their successors in interest. Failure to comply with any of the conditions imposed in the approval of the special use permit may result in the institution of revocation procedures.

Washoe County reserves the right to review and revise the conditions of approval related to this Special Use Permit should it be determined that a subsequent license or permit issued by Washoe County violates the intent of this approval.

For the purpose of conditions imposed by Washoe County, "may" is permissive and "shall" or "must" is mandatory.

Conditions of approval are usually complied with at different stages of the proposed project. Those stages are typically:

- Prior to permit issuance (i.e., grading permits, building permits, etc.).
- Prior to obtaining a final inspection and/or a certificate of occupancy.
- Prior to the issuance of a business license or other permits/licenses.
- Some "conditions of approval" are referred to as "operational conditions." These conditions must be continually complied with for the life of the project or business.

The Washoe County Commission oversees many of the reviewing agencies/departments with the exception of the following agencies.

• The DISTRICT BOARD OF HEALTH, through the Washoe County Health District, has jurisdiction over all public health matters in the Health District. Any conditions set by the Health District must be appealed to the District Board of Health. FOLLOWING ARE CONDITIONS OF APPROVAL REQUIRED BY THE REVIEWING AGENCIES. EACH CONDITION MUST BE MET TO THE SATISFACTION OF THE ISSUING AGENCY.

Washoe County Planning and Building Division

1. The following conditions are requirements of Planning and Building, which shall be responsible for determining compliance with these conditions.

Contact Name: Chris Bronczyk; 775.328.3612; <u>cbronczyk@washoecounty.us;</u> Dan Cahalane; 775.328.3628; <u>Dcahalane@washoecounty.us</u>

- a. The applicant shall attach a copy of the action order approving this project to all permits and applications (including building permits) applied for as part of this special use permit.
- b. The applicant shall demonstrate substantial conformance to the plans approved as part of this special use permit. The Planning and Building Division shall determine compliance with this condition.
- c. The applicant shall submit construction plans, with all information necessary for comprehensive review by Washoe County, and initial building permits shall be issued within two (2) years from the date of approval by Washoe County. The applicant shall complete construction within the time specified by the building permits. Compliance with this condition shall be determined by the Planning and Building Division.
- d. The operations of concrete-mixer truck deliveries and dirt/debris removal during construction shall not occur during peak school drop-off or pick-up hours. There shall be no queing of construction trucks/concrete-mixer trucks (i.e. more than one (1) truck at a time) along Crossbow Court or Arrowcreek Parkway during construction.
- e. "No Truck Idling" shall be posted within the loading areas of the site.
- f. Prior to the issuance of any grading or building permits, the applicant must complete a Reversion to Acreage.
- g. All lighting must be down shielded, and light poles are limited to a maximum of 12'-0" in height.
- h. The following Landscaping and Design conditions shall be fulfilled:
 - i. Prior to any ground disturbing activity, the applicant shall submit a landscaping/architectural design plan to the Planning and Development Division for review and approval. Said plan(s) shall address, but not be limited to: type and color of building materials, general architectural design, parking, parking lot circulation and striping, signage, exterior lighting, fencing, trash enclosures, landscaping (if plant material: type, size at time of planning, maturation size at full growth, period of time between planting and full growth), landscaping location, landscaping irrigation system, and financial assurances that landscaping will be planted and maintained accordingly.
 - ii. All required yards which adjoin a public street shall be landscaped and shall include at least one (1) tree for every fifty (50) linear feet of street frontage, or fraction thereof.
- i. A note shall be placed on all construction drawings and grading plans stating:

NOTE

Should any cairn or grave of a Native American be discovered during site development, work shall temporarily be halted at the specific site and the Sheriff's Office as well as the State Historic Preservation Office of the Department of Conservation and Natural Resources shall be immediately notified per NRS 383.170.

- j. The following **Operational Conditions** shall be required for the life of the project:
 - i. Failure to comply with the conditions of approval shall render this approval null and void. Compliance with this condition shall be determined by Planning and Building.
 - ii. This special use permit shall remain in effect until or unless it is revoked or is inactive for one year.
 - iii. Personal Services use types shall not exceed 50% of the total square footage of the building; which is limited to a maximum of 8,007.5 sf currently as proposed.
 - iv. The kitchen shall only be used for demonstration purposes. Demonstrations shall be limited to four demonstration events per month. The kitchen shall not be used to establish any eating or drinking establishment as defined in WCC 110.304.
 - v. Required loading spaces shall be reduced to one (1) 15ft x 25ft loading space.
 - vi. Required parking spaces shall be reduced from 4 spaces per 1000sf to 1.95 spaces per 1000sf based on the parking study for a Shopping Center use, 820, included in the application.
 - vii. All tenants and/or property owner(s) of the neighborhood center shall obtain all required licensure from Washoe County Business License prior to opening for any and all business operations.
 - viii. All tenants and/or property owner(s) of the neighborhood center shall obtain all required permits from the Washoe County Building Program prior to completing any and all structural/tenant building improvements.
 - ix. Hours of operation for this facility shall be as follows:
 - a. Weekdays 7:00 a.m. to 9:00 p.m.
 - b. Weekends 7:00 a.m. to 5:00 p.m.

Washoe County Engineering and Capital Projects

2. The following conditions are requirements of the Engineering Division, which shall be responsible for determining compliance with these conditions.

Contact Name: Leo Vesely, P.E., (775) 328-2313

GENERAL CONDITIONS

a. A complete set of construction improvement drawings, including an on-site grading plan, shall be submitted when applying for a building/grading permit. Grading shall comply with best management practices (BMPs) and shall include detailed plans for grading, site drainage, erosion control (including BMP locations and installation details), slope stabilization, and mosquito abatement. Placement or removal of any excavated materials shall be indicated on the grading plan. Silts shall be controlled on-site and not allowed onto adjacent property.

- b. The developer shall obtain from the Nevada Division of Environmental Protection a Stormwater Discharge Permit and submit a copy to the Engineering Division prior to issuance of a grading permit.
- c. The Truckee Meadows Regional Stormwater Quality Management Program Construction Permit Submittal Checklists and Inspection Fee shall be submitted with the grading permit.
- d. A grading bond of \$2,000/acre of disturbed area shall be provided to the Engineering Division prior to any grading.
- e. All grading shall be in accordance with Article 110.438 Grading Standards.
- f. All disturbed areas left undeveloped for more than 30 days shall be treated with a dust palliative. Disturbed areas left undeveloped for more than 45 days shall be revegetated. Specifications for revegetation procedure and seed mix shall be prepared by a licensed landscape architect.

DRAINAGE (COUNTY CODE 110.416, 110.420, and 110.421)

- g. The A hydrology/hydraulic report prepared by a registered engineer shall be submitted to the Engineering Division for review and approval. The report shall include the locations, points of entry and discharge, flow rates and flood limits of all 5- and 100-year storm flows impacting both the site and offsite areas and the methods for handling those flows. The report shall include all storm drain pipe and ditch sizing calculations and a discussion of and mitigation measures for any impacts on existing offsite drainage facilities and properties.
- h. Any increase in storm water runoff resulting from the development shall be detained on site to the satisfaction of the County Engineer.
- i. Standard reinforced concrete headwalls or other approved alternatives shall be placed on the inlet and outlet of all drainage structures and rip rap shall be used to prevent erosion at the inlets and outlets of all pipe culverts to the satisfaction of the County Engineer.
- j. The applicant shall provide pretreatment for petrochemicals and silt for all storm drainage from the site to the satisfaction of the County Engineer.

TRAFFIC AND ROADWAY (COUNTY CODE 110.436)

Contact Name: Mitchell Fink, (775) 328-2050

- k. The minimum pavement requirements for on-site paving shall be three inches (3") of asphalt over six inches (6") of granular base to the satisfaction of the County Engineer
- I. The applicant shall obtain a street excavation permit for the driveway approaches.
- m. Install "No Parking" signs on Crossbow Court from Arrowcreek Parkway to the southern entrance to Sage Ridge School.
- n. All improvements in the County right of way shall be constructed in accordance with County standards.
- o. Existing sidewalk shall be perpetuated along the entire property frontage.
- p. A pedestrian circulation plan that clearly shows the walking routes between the proposed Connect Neighborhood Center and Hunsberger Elementary and Sage Ridge schools shall be developed and implemented.

q. The applicant is requesting to vary parking standards from County Code to ITE standards. For a community center, County Code requires 64 parking spaces while ITE standards require only 33 parking spaces. The proposed design includes 45 spaces. Engineering previously requested the applicant obtain a reciprocal parking agreement from the school district, which was denied. This information is provided to Planning to evaluate the request to vary the parking standards.

Truckee Meadows Fire Protection District (TMFPD)

3. The following conditions are requirements of the Truckee Meadows Fire Protection District, which shall be responsible for determining compliance with these conditions. Unless otherwise stated, these conditions shall be met prior to the issuance of any building or grading permit or on an ongoing basis (phased development) as determined by TMFPD.

Any future development of a single, multiple, or all parcels will be subject to currently adopted Fire and Wildland-Urban Interface Codes at the time of development on the specific parcel.

Contact Name: Dale Way, 775.326.6000, Dway@tmfpd.us

FIRE APPARATUS ACCESS ROADS

- a. Fire apparatus access roads shall be in accordance with *International Fire Code* Appendix D and all other applicable requirements of the IFC. (IFC 503.1 / D101.1)
- b. Approved fire apparatus access roads shall be required for every facility, building, or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access roads shall comply with the requirements of IFC Section 503 and Appendix D and shall extend to within 150 feet of all portions of the facility and all portions of the *exterior walls* of the first story of the building as measured by an *approved* route (as the hose lays around obstructions) around the exterior of the building or facility. (IFC 503.1.1)
- c. Fire apparatus access roads shall have an all-weather surface and be capable of supporting the weight of Fire District apparatus (80,000 pounds). (IFC 503.2.3 / D102.1)
- d. Fire apparatus access roads shall have a minimum width of 20 feet (with no parking), 26 feet (one side parking), and 32 feet (parking on both sides), exclusive of shoulders, and an unobstructed vertical clearance of not less than 13 feet 6 inches. (IFC 503.2.1 / D103.6.1 / D103.6.2)
- e. Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet (7925 mm), exclusive of shoulders (see Figure D103.1). (IFC D103.1)
- f. Fire apparatus access roads less than the width required for parking on both sides shall be marked and/or signed in accordance with Section 503.3 and Appendix D103.6 to identify such roads or prohibit the obstruction thereof. The means by which fire lanes are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility. (IFC 503.3 / D103.6)
- g. Fire apparatus access roads shall not exceed 10 percent in grade. Angles of approach and angles of departure must not exceed 6 percent for 25 feet before or after the grade change. (IFC D103.2 / 503.2.8)
- h. Fire apparatus access roads shall have a minimum inside turning radius of 28 feet, and a minimum outside turning radius of 52 feet. (IFC D103.3)
- i. Dead-end fire apparatus access roads in excess of 150 feet shall be provided with width and turnaround provisions in accordance with Table D103.4. (IFC D103.4)

- j. Gates across fire apparatus access roads shall comply with Appendix D103.5 and Sections 503.4 and 503.5.
- k. Buildings four or more stories or 30 feet in height shall have at least two (2) means of fire apparatus access for each structure. (IFC D104.1).
- I. Buildings exceeding 62,000 square feet in area shall have at least two (2) means of fire apparatus access for each structure. (IFC D104.2).
- m. Where two (2) fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one half the length of the maximum overall diagonal dimension of the lot or area to be served, measured in a straight line between accesses. (IFC D104.3)
- n. Where the vertical distance between the grade plane and the highest roof surface exceeds 30 feet *approved* <u>aerial</u> fire apparatus access roads shall be provided. (IFC D105.1)
- When aerial fire apparatus access roads are required, aerial fire apparatus access roads shall have a minimum unobstructed width of 26 feet, exclusive of shoulders, in the immediate vicinity of the building or portion thereof. (IFC D105.2)
- p. When aerial fire apparatus access roads are required, one or more of the required access routes meeting this condition shall be located not less than 15 feet and not greater than 30 feet from the building, and shall be positioned parallel to one entire side of the building. The side of the building on which the aerial fire apparatus access road is positioned shall be approved by the *fire code official*. (IFC D105.3)
- q. When aerial fire apparatus access roads are required, overhead utility and power lines shall not be located over the aerial fire apparatus access road or between the aerial fire apparatus road and the building. Other obstructions shall be permitted to be placed with the approval of the *fire code official*. (IFC D105.4)

FIRE PROTECTION WATER SUPPLIES

- r. An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises on which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction. (IFC 507.1)
- s. The number of fire hydrants available to a building shall be not less than the minimum specified in Table C102.1. (IFC C102.1)
- t. Fire hydrant systems shall comply with Washoe County Standard Detail W-23 and IFC Sections 507.5.1 through 507.5.6. (IFC 507.5 / Washoe County Code)
- u. Fire hydrants must be spaced at a maximum separation of 500 feet along the required apparatus access lane in residential areas and 1,000 feet where not required for structures to provide for transportation hazards. Hydrant spacing may be increased by 125 feet if all structures within the development are provided with fire sprinkler protection. There is no allowable increase for hydrants installed for transportation hazards. (IFC Table C102.1)
- v. In developments with R-3 occupancies, where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 600 feet (122 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official. (IFC 507.5.1)

- w. Unobstructed access to fire hydrants shall be maintained at all times. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants. (IFC 507.5.4)
- x. A 3-foot minimum clear space shall be maintained around the circumference of fire hydrants, as measured from the furthest edge of a fire hydrant in any direction. (IFC 507.5.5)
- y. Fire hydrants shall not be located within six feet of a driveway, power pole, or light standard. (IFC 507.5.6)
- z. Fire hydrants shall be located adjacent to apparatus access lanes and a minimum of four feet and a maximum of seven feet from back of curb. Provide a detail on the plans. (IFC 507.5.6)
- aa. Fire hydrants shall have a concrete pad around the base in accordance with Washoe County Standard Detail W-23.

INTERNATIONAL WILDLAND-URBAN INTERFACE CODE

- bb. All parcels located in other than a Low Hazard WUI Rating shall comply with all provisions of the IWUI as adopted and amended by TMFPD and Washoe County Building.
- cc. The IWUI Fire Hazard designation for your project is available on the provided Washoe Regional Mapping System link. (<u>https://gis.washoecounty.us/wrms/firehazard</u>). After you have found your property using the address search feature, the color of the background area will indicate your wildland fire risk.
- dd. When you have determined your Fire Risk Rating use the link provided, to determine the *IWUIC* construction and defensible space requirements. (<u>https://www.washoecounty.us/building/Files/Files/2012%20WUI%20CODE%20GUIDE</u>rev%2011-25-13.pdf).

*** End of Conditions ***



WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT Engineering and Capital Projects 1001 EAST 9TH STREET RENO, NEVADA 89512 PHONE (775) 328-3600 FAX (775) 328.3699

- Date: June 15, 2020
- To: Chris Bronczyk, Planner
- From: Leo Vesely, P.E., Licensed Engineer
- Re: Special Use Permit Case **WSUP20-0009 Connect Neighborhood Center** APNs 152-921-01 and 02

GENERAL PROJECT DISCUSSION

Washoe County Engineering staff has reviewed the above referenced application. The Special Use Permit is to allow the establishment of a 16,015 sf neighborhood center use type within the Low Density Suburban regulatory zone. The Engineering and Capital Projects Division recommends approval with the following comments and conditions of approval which supplement applicable County Code and are based upon our review of the site and the application prepared by Tectonics Design Group. The County Engineer shall determine compliance with the following conditions of approval.

For questions related to sections below, please see the contact name provided.

GENERAL CONDITIONS

Contact Information: Leo Vesely, P.E. (775) 328-2313

- A complete set of construction improvement drawings, including an on-site grading plan, shall be submitted when applying for a building/grading permit. Grading shall comply with best management practices (BMPs) and shall include detailed plans for grading, site drainage, erosion control (including BMP locations and installation details), slope stabilization, and mosquito abatement. Placement or removal of any excavated materials shall be indicated on the grading plan. Silts shall be controlled on-site and not allowed onto adjacent property.
- 2. The developer shall obtain from the Nevada Division of Environmental Protection a Stormwater Discharge Permit and submit a copy to the Engineering Division prior to issuance of a grading permit.
- 3. The Truckee Meadows Regional Stormwater Quality Management Program Construction Permit Submittal Checklists and Inspection Fee shall be submitted with the grading permit.
- 4. A grading bond of \$2,000/acre of disturbed area shall be provided to the Engineering Division prior to any grading.
- 5. All grading shall be in accordance with Article 110.438 Grading Standards.
- 6. All disturbed areas left undeveloped for more than 30 days shall be treated with a dust palliative. Disturbed areas left undeveloped for more than 45 days shall be revegetated. Specifications for revegetation procedure and seed mix shall be prepared by a licensed landscape architect.





WWW WASHOFCOUNTY US





Subject: WSUP20-0009 – Connect Neighborhood Center

Date: June 15, 2020 Page: 2

DRAINAGE (COUNTY CODE 110.416, 110.420, and 110.421)

Contact Information: Leo Vesely, P.E. (775) 328-2313

- 1. A hydrology/hydraulic report prepared by a registered engineer shall be submitted to the Engineering Division for review and approval. The report shall include the locations, points of entry and discharge, flow rates and flood limits of all 5- and 100-year storm flows impacting both the site and offsite areas and the methods for handling those flows. The report shall include all storm drain pipe and ditch sizing calculations and a discussion of and mitigation measures for any impacts on existing offsite drainage facilities and properties.
- 2. Any increase in storm water runoff resulting from the development shall be detained on site to the satisfaction of the County Engineer.
- 3. Standard reinforced concrete headwalls or other approved alternatives shall be placed on the inlet and outlet of all drainage structures and rip rap shall be used to prevent erosion at the inlets and outlets of all pipe culverts to the satisfaction of the County Engineer.
- 4. The applicant shall provide pretreatment for petrochemicals and silt for all storm drainage from the site to the satisfaction of the County Engineer.

TRAFFIC AND ROADWAY (COUNTY CODE 110.436)

Contact Information: Mitchell Fink (775) 328-2050

- 1. The minimum pavement requirements for on-site paving shall be three inches (3") of asphalt over six inches (6") of granular base to the satisfaction of the County Engineer.
- 2. The applicant shall obtain a street excavation permit for the driveway approaches.
- 3. Install "No Parking" signs on Crossbow Court from Arrowcreek Parkway to the southern entrance to Sage Ridge School.
- 4. All improvements in the County right of way shall be constructed in accordance with County standards.
- 5. Existing sidewalk shall be perpetuated along the entire property frontage.
- 6. A pedestrian circulation plan that clearly shows the walking routes between the proposed Connect Neighborhood Center and Hunsberger Elementary and Sage Ridge schools shall be developed and implemented.
- 7. The applicant is requesting to vary parking standards from County Code to ITE standards. For a community center, County Code requires 64 parking spaces while ITE standards require only 33 parking spaces. The proposed design includes 45 spaces. Engineering previously requested the

WSUP20-0009 – Connect Neighborhood Center Subject:

Date: June 15, 2020 3 Page:

applicant obtain a reciprocal parking agreement from the school district, which was denied. This information is provided to Planning to evaluate the request to vary the parking standards.

UTILITIES (County Code 422 & Sewer Ordinance) Contact Information: Tim Simpson, P.E. (775) 954-4648

1. There are no utility related conditions of approval.



Chris Bronczyk, Planner Washoe County – Community Services Department 1001 E. Ninth St Reno, NV 89512 775.328.3612

June 1, 2020

Re: WSUP20-0009 (Connect Neighborhood Center) – Conditions of Approval

Truckee Meadows Fire Protection District (TMFPD)

The following conditions are requirements of the Truckee Meadows Fire Protection District, which shall be responsible for determining compliance with these conditions. Unless otherwise stated, these conditions shall be met prior to the issuance of any building or grading permit or on an ongoing basis (phased development) as determined by TMFPD.

Any future development of a single, multiple, or all parcels will be subject to currently adopted Fire and Wildland-Urban Interface Codes at the time of development on the specific parcel.

Contact Name - Don Coon, 775.326.6077, Dcoon@tmfpd.us

Fire Apparatus Access Roads

- 1. Fire apparatus access roads shall be in accordance with *International Fire Code* Appendix D and all other applicable requirements of the IFC. (IFC 503.1 / D101.1)
- 2. Approved fire apparatus access roads shall be required for every facility, building, or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access roads shall comply with the requirements of IFC Section 503 and Appendix D and shall extend to within 150 feet of all portions of the facility and all portions of the *exterior walls* of the first story of the building as measured by an *approved* route (as the hose lays around obstructions) around the exterior of the building or facility. (IFC 503.1.1)
- 3. Fire apparatus access roads shall have an all-weather surface and be capable of supporting the weight of Fire District apparatus (80,000 pounds). (IFC 503.2.3 / D102.1)
- 4. Fire apparatus access roads shall have a minimum width of 20 feet (with no parking), 26 feet (one side parking), and 32 feet (parking on both sides), exclusive of shoulders, and an unobstructed vertical clearance of not less than 13 feet 6 inches. (IFC 503.2.1 / D103.6.1 / D103.6.2)

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- 5. Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet (7925 mm), exclusive of shoulders (see Figure D103.1). (IFC D103.1)
- 6. Fire apparatus access roads less than the width required for parking on both sides shall be marked and/or signed in accordance with Section 503.3 and Appendix D103.6 to identify such roads or prohibit the obstruction thereof. The means by which fire lanes are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility. (IFC 503.3 / D103.6)
- Fire apparatus access roads shall not exceed 10 percent in grade. Angles of approach and angles of departure must not exceed 6 percent for 25 feet before or after the grade change. (IFC D103.2 / 503.2.8)
- 8. Fire apparatus access roads shall have a minimum inside turning radius of 28 feet, and a minimum outside turning radius of 52 feet. (IFC D103.3)
- 9. Dead-end fire apparatus access roads in excess of 150 feet shall be provided with width and turnaround provisions inn accordance with Table D103.4. (IFC D103.4)
- 10. Gates across fire apparatus access roads shall comply with Appendix D103.5 and Sections 503.4 and 503.5.
- 11. Buildings four or more stories or 30 feet in height shall have at least two (2) means of fire apparatus access for each structure. (IFC D104.1).
- 12. Buildings exceeding 62,000 square feet in area shall have at least two (2) means of fire apparatus access for each structure. (IFC D104.2).
- 13. Where two (2) fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one half the length of the maximum overall diagonal dimension of the lot or area to be served, measured in a straight line between accesses. (IFC D104.3)
- 14. Where the vertical distance between the grade plane and the highest roof surface exceeds 30 feet *approved* <u>aerial</u> fire apparatus access roads shall be provided. (IFC D105.1)
- 15. When aerial fire apparatus access roads are required, aerial fire apparatus access roads shall have a minimum unobstructed width of 26 feet, exclusive of shoulders, in the immediate vicinity of the building or portion thereof. (IFC D105.2)
- 16. When aerial fire apparatus access roads are required, one or more of the required access routes meeting this condition shall be located not less than 15 feet and not greater than 30 feet from the building, and shall be positioned parallel to one entire side of the building. The side of the building on which the aerial fire apparatus access road is positioned shall be approved by the *fire code official*. (IFC D105.3)
- 17. When aerial fire apparatus access roads are required, overhead utility and power lines shall not be located over the aerial fire apparatus access road or between the aerial fire apparatus road and the building. Other obstructions shall be permitted to be placed with the approval of the *fire code official*. (IFC D105.4)

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Fire Protection Water Supplies

- 1. An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises on which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction. (IFC 507.1)
- 2. The number of fire hydrants available to a building shall be not less than the minimum specified in Table C102.1. (IFC C102.1)
- 3. Fire hydrant systems shall comply with Washoe County Standard Detail W-23 and IFC Sections 507.5.1 through 507.5.6. (IFC 507.5 / Washoe County Code)
- 4. Fire hydrants must be spaced at a maximum separation of 500 feet along the required apparatus access lane in residential areas and 1,000 feet where not required for structures to provide for transportation hazards. Hydrant spacing may be increased by 125 feet if all structures within the development are provided with fire sprinkler protection. There is no allowable increase for hydrants installed for transportation hazards. (IFC Table C102.1)
- 5. In developments with R-3 occupancies, where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 600 feet (122 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official. (IFC 507.5.1)
- 6. Unobstructed access to fire hydrants shall be maintained at all times. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants. (IFC 507.5.4)
- 7. A 3-foot minimum clear space shall be maintained around the circumference of fire hydrants, as measured from the furthest edge of a fire hydrant in any direction. (IFC 507.5.5)
- 8. Fire hydrants shall not be located within six feet of a driveway, power pole, or light standard. (IFC 507.5.6)
- 9. Fire hydrants shall be located adjacent to apparatus access lanes and a minimum of four feet and a maximum of seven feet from back of curb. Provide a detail on the plans. (IFC 507.5.6)
- 10. Fire hydrants shall have a concrete pad around the base in accordance with Washoe County Standard Detail W-23.

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International Wildland-Urban Interface Code

- 1. All parcels located in other than a Low Hazard WUI Rating shall comply with all provisions of the IWUI as adopted and amended by TMFPD and Washoe County Building.
- The IWUI Fire Hazard designation for your project is available on the provided Washoe Regional Mapping System link. (<u>https://gis.washoecounty.us/wrms/firehazard</u>). After you have found your property using the address search feature, the color of the background area will indicate your wildland fire risk.
- When you have determined your Fire Risk Rating use the link provided, to determine the IWUIC construction and defensible space requirements. (<u>https://www.washoecounty.us/building/Files/Files/2012%20WUI%20CODE%20GUIDE_rev%2</u> 011-25-13.pdf).



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WASHOE COUNTY COMMUNITY SERVICES

INTEGRITY COMMUNICATION SERVICE

P.O. Box 11130 Reno, Nevada 89520-0027 Phone: (775) 328-3600 Fax: (775) 328-3699

May 28, 2020

TO:	Chris Broncsyk, Planner, CSD, Planning & Development Division Dan Cahalane, Planner, CSD, Planning & Development Division
FROM:	Vahid Behmaram, Water Management Planner Coordinator, CSD
SUBJECT:	Special Use Permit Case Number WSUP20-0009 (Connect Neighborhood Center)

Project description:

The applicant is proposing to approve the establishment of a 16,015 sf neighborhood center use type within the Low Density Suburban regulatory zone. The application also includes a request for a major grading permit, which staff has determined is not applicable for this development.

Project location: 2500, 2540 Crossbow Ct, located immediately northeast of the junction of Crossbow Ct and Arrowcreek Pkwy. Assessor's Parcel Numbers: 152-921-01, 152-921-02.

The Community Services Department (CSD) recommends approval of this project with the following Water Rights comments and conditions:

There are no conditions of approval for the WSUP 19-0030.

Comments: this application is incomplete as to the necessary information regarding the provision of water to this project, however, based on location it is understood that water service will be provided by TMWA.

Formal annexation into TMWA water service area, if not annexed, and a will serve letter from TMWA for provision of water service will be required. This projects shall present a water will serve from TMWA, the water purveyor, prior to occupancy, permit final inspection, or certificate of occupancy. It is recommended that the applicant begin water will serve acquisition process prior to approval of any building permits on this site.

1001 E. 9TH Street, Reno, Nevada 89512 WWW.WASHOECOUNTY.US



Washoe-Storey Conservation District Bret Tyler Chairmen Jim Shaffer Treasure

Bret Tyler Chairmen Jim Shaffer Treasurer Cathy Canfield Storey app Jean Herman Washce app

1365 Corpotate Blvd. RenoNV 89502 775 857-8500 ext. 131 nevadaconservation.com

June 1, 2020

Washoe County Community Services Department

C/O Chris Bronczyk, Planner

1001 E Ninth Street, Bldg A

Reno, NV 89512

R: WSUP20-0009 Connect Neighborhood Center

Dear Chris,

In reviewing the proposed neighborhood center, the Conservation District has the following comments.

To prevent the spread of noxious weeds concerning grading and importation of material, the applicant shall collaborate with the District to develop an onsite noxious weeds management plan to ensure weed seeds do not impact other areas, utilizing certified weed free material.

With the proposed vegetation plan established with plants we require, a review of the plants, contingency water plan, fertilizer plan, erosion control structures and a monitoring plan with updates provided to the Conservation District after the growing season (October 31) every year for a three year period.

The construction of the detention basin shall have 2 feet wide 3-foot-deep low flow channel between the inlet(s) and outlet pipe to convey nuisance water runoff. In addition, a two foot by 3-foot-wide infiltration trench constructed below the low flow channel promotes ground water recharge and will help meter the flow from the control outlet structure.

In reviewing the color selection for the building and monument sign we recommend a softer brown color palette to reflect the mountain views.

The District supports the use of lighting to meet dark sky requirements.

Thank you for providing us to review the project that may have impacts on our natural resources.

Sincerely,

Tyler-Shaffer

WSUP20-0009 EXHIBIT E



June 3, 2020

Washoe County Community Services Department 1001 East Ninth Street Reno, Nevada 89512

RE: WSUP20-0009 - Connect Neighborhood Center Response to Comments

Dear Chris and Dan,

Here are the requested items that address comments received on the Connect Neighborhood Center SUP and Director's Modification applications (WSUP20-0009).

- Enclosed is the Solaegui Transportation Engineers updated Traffic Impact Report based on the 16,015 square foot building location.
- Enclosed is the Solaegui Transportation Engineers updated Parking Study based on the 16,015 square foot building location. The ITE Community Center land use, based on the ITE description of recreation, was selected as the category most fitting with the Connect project primary uses in the neighborhood center.
- I am requesting the Director's Modification application include use of the maneuvering lane as a single off-street loading space. In speaking with the business owners, they anticipate no more than one truck delivery or pick up per day (typically weekday mornings).
- The enclosed elevations reveal a maximum building height of 33 feet.
- The project will complete a Reversion to Acreage process prior to building permit approval.
- The updated site plan now includes the solid waste dumpster location.

I appreciate your time and consideration. Should you have any questions or be in need of additional information, please feel free to contact me at (510) 993-4034 or via email at kerry@kdrohrmeier.com.

Sincerely,

Keny D. Rohrung

Kerry Rohrmeier, PhD AICP

cc: Tectonics Design Group

Enclosure Updated Site Plan Updated Elevations Updated Solaegui Engineers Traffic Impact Report Updated Solaegui Parking Study



Washoe County Citizen Advisory Boards CAB Member Worksheet

Citizen Advisory Board: South Truckee Meadows/Washoe Valley CAB______ Meeting Date (if applicable): July 2, 2020______ Topic or Project Name (include Case No. if applicable): Connect Neighborhood Center

Washoe County Planner Julee Olander

Please check the appropriate box:

My comments were (or) X were not discussed during the meeting.

Identified issues and concerns:

I have reviewed the application, engineer and traffic reports. My concerns evolve around traffic impacts to surrounding neighborhood and visual impacts to closest neighbors. Although traffic engineer indicates only traffic impacts would be in the early morning and late afternoon, it would appear those impacts might be exacerbated when current residents are also leaving for and returning from their work day. As to visual impacts, I am a proponent of those who understand that your view ends at your fence line, it appears that the center will consist of a two story building which may cause some angst for the closest homes. I would feel more comfortable evaluating this project if I could hear the concerns of other CAB members and those who live close but circumstances make that impossible.

Suggested alternatives and/or recommendations:

This worksheet may be used as a tool to help you take notes during the public testimony and discussion on this topic/project. Your comments during the meeting will become part of the public record through the minutes and the CAB action memorandum. Your comments, and comments from other CAB members, will and shall not collectively constitute a position of the CAB as a whole. ****Due to Nevada Open Meeting Law considerations, please do not communicate with your**
fellow CAB members on items outside of the agendized discussions held at your regular CAB meetings.**

If you would like this worksheet forwarded to your Commissioner, please include his/her name.

Commissioner's Name: ____

Use additional pages, if necessary.

Please mail, fax or email completed worksheets to:

Washoe County CSD - Planning Agency Review Response 1001 East 9th Street, Reno, NV 89512 Email:

June 12, 2020

Washoe County Planning Department 1001 East Ninth Street Reno, Nevada 89512

RE: WSUP20-0009 Connect CAB Comments

Dear Dan and Chris,

This letter provides follow-up information regarding comments received during the South Truckee Meadows Citizens Advisory Board meeting held last night on Zoom. There were no public comments, and the CAB unanimously recommended approval of the Connect SUP (WSUP20-0009), but the following questions were discussed:

• What traffic will be generated by this project?

Paul Solaegui of Solaegui Transportation Engineers represented his analysis. He has also worked with Washoe County School District on the surrounding parcels. He anticipates through Connect programming before and after school that this project can improve existing conditions. He also made clear that vehicle, pedestrian, and parking generated for this project fall well below County thresholds.

• Will there be one-way signage?

Yes, signage and arrows will be placed on site to inform drivers of one-way movement.

• Why is a SUP for grading not needed?

During construction the surface area disturbed would trigger SUP thresholds for grading only if left exposed long-term, but because all grading on site will be paved, landscaped, or under the building a grading SUP is not applicable in this case.

I appreciate your time and consideration. Please feel free to contact me at (510) 993-4034 or via email at <u>kerry@kdrohrmeier.com</u>.

Sincerely,

Keny D. Rohmun

Kerry Rohrmeier, PhD AICP



CONNECT NEIGHBORHOOD CENTER & GARDEN SPECIAL USE PERMIT

APPLICATION TO WASHOE COUNTY

SUBMITTED ON BEHALF OF

SAGE PROPERTY VENTURES, LLC 5100 WEST 4TH STREET CARSON CITY, NEVADA 89703

MAY 15, 2020





May 15, 2020

Planning Department Washoe County Community Services Department 1001 East Ninth Street Reno, Nevada 89512

RE: Connect Neighborhood Center & Garden

To Whom It May Concern:

Tectonics Design Group is pleased to submit a Special Use Permit (SUP) request on behalf of the Connect Neighborhood Center and Garden project. The enclosed Washoe County applications and supporting materials are meant to provide Community Services staff and the Board of Adjustment ample detail to approve a SUP for: 1) site grading and 2) development of a 16,015 square foot neighborhood center (including personal services) in a Low Density Suburban zone to be located at 2500 and 2540 Crossbow Court in Reno, Washoe County, Nevada (APNs 152-921-01 and 152-921-02).

SUP approval may be justified on the following findings:

a) Consistency. The proposed use is consistent with the action programs, policies, standards and maps of the Master Plan and the applicable area plan;

Connect is a unique holistic wellness concept new to the Truckee Meadows. For this reason, the developer had multiple pre-application meetings and conversations with Washoe County planning staff (who were in consultation with County legal staff) to better define the intended uses associated with this project prior to submitting a SUP application.

The 1.847-acre site is located in the Southwest Truckee Meadows Plann Area of Washoe County and has a Master Plan Suburban Residential (SR) designation with accompanying Low Density Suburban (LDS) zoning. Community gardens and neighborhood centers providing personal services such as mindful movement and functional fitness studios, indoor and outdoor meditation spaces for adults and children, retail, and coffee/tea and nutritious takeaway meals are all permitted as primary uses in LDS zones. A demonstration kitchen, co-working pods, and training/meeting spaces are also permissible ancillary uses in this zone (refer to the land use maps provided). Applicable master plan policies supporting new development are identified below:

- LUT.4.1 Maintain a balanced distribution of land use patterns to:
 - Provide opportunities for a variety of land uses, facilities and services that serve present and future population;
 - Promote integrated communities with opportunities for employment, housing, schools, park civic facilities, and services essential to the daily life of residents
- LUT.21.2 Nonresidential development shall be compatible with the nearby neighborhoods, service and facility capacities, and the surrounding environment
- *b)* Improvements. There are or will be adequate services and infrastructure to support the proposed development;

The project is planned for two vacant parcels surrounded by existing or planned civic uses such as schools and a park. It will tie into existing utilities and infrastructure present in the streets fronting the site and already sized for buildout. Waste Management, NV Energy, Truckee Meadows Water Authority, and the Truckee Meadows Water Reclamation Facility will serve the generated demand from Connect Neighborhood Center and Garden.

c) Site Suitability. The site is physically suitable for the type of development and for the intensity of development;

From an architectural and site planning perspective the parcel has a panhandle shape which clusters development to the south. This placement and the general elevation offer inspiring mountain and city views inviting deeper reflection and contemplation in one's meditative practice.

Site hydrology, geology, or soils pose no hazards or constraints on the project as designed. This is confirmed in the Tectonics Design Group Drainage Report and the Nova geotechnical study included with this application. Considerable attention has been paid to transportation, access and parking in this case. The site has been designed for single direction ingress/egress, stop control, and driveway alignment to mitigate vehicular traffic associated with school peak hour pick-up and drop off in the site vicinity. A director's modification has been submitted for use of the Institute of Transportation Engineers 'recreation community center' parking rate, although the design mitigates this by offering 18 additional spaces above the ITE calculation. Transportation Impact Analysis and Parking Justification reports conducted by Solaegui Engineers (are included as appendices following this application). Parking, as shown on the attached Preliminary Site Plan, is accommodated entirely on site and screened from street views by either building or new landscaping.

Connect currently provides kids meditation classes at Hunsberger Elementary School but has plans to expand school services once a new permanent facility is constructed. This site has an unmatched location for the success of after school wellness programs because it encourages healthy community habits and serves as a pedestrian connection link (refer to Site Photographs). The following is an overview of Connect business operations which is truly a shared use facility – not all activities will take place at the same time and once operations commence then scheduling and programming will be paramount.

Operations Overview

- General Hours: weekdays 7:00 am to 9:00 pm and 7:00 am to 5:00 pm on weekends
- Peak Hours: mornings 8:00-10:00 am and weekday afternoons 3:00-6:00 pm

Building Occupancy

It is estimated that the building may have 100 people present during its peak hours, examples of various activities that could occur on site may include: 12-15 employees during peak hours 20 attendees in adult studio classes and trainings 15-20 children in the under age 16 meditation class 50-70 attendees in the occasional community lectures or demonstrations

d) Issuance Not Detrimental: The issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area; and

Connect is an impact investment benefitting community health with a mission to promote wellness for all ages. Issuance of a building permit will be neither detrimental nor injurious to adjacent properties and/or the public. With the exception of a community garden, most operations will occur indoors. As shown on the building elevations the design blends contemporary architecture with colors and materials that complement the setting, and that elevate the architectural quality and aesthetic conditions currently present in the site vicinity. Exterior lighting has also been designed for Washoe County residential adjacency standards and all parking lot and all exterior wall mount fixtures meet dark sky requirements (refer to the Photometric Plan included with this application). The proposed monument signage meets Washoe County Land Development Code standards.

e) Effect on a Military Installation: Issuance of the permit will not have a detrimental effect on the location, purpose or mission of the military installation.

This finding is not applicable since there are currently no military installations in the site vicinity.

Thank you for taking time to review the Connect Neighborhood Center and Garden Special Use Permit application. I appreciate your time and consideration. Should you have any questions or be in need of additional information, please feel free to contact me at (510) 993-4034 or via email at kerry@kdrohrmeier.com.

Sincerely,

Kenny D. Rohrung

Kerry Rohrmeier, PhD AICP Enclosure Fees **Owner Affidavit General Development Application** Special Use Permit Applications Property Tax Proof **Preliminary Site Plan** Preliminary Grading Plan Photometric Plan Landscape & Irrigation Plan **Cross Sections** Signage Details Preliminary Landscape Plan **Preliminary Irrigation Plan Conceptual Building Elevations Conceptual Building Floorplan** Preliminary Photometric Plan Preliminary Hydrology Report Preliminary Geotechnical Report Solaegui Engineers Traffic Impact Report Solaegui Parking Study



Master Plan – Suburban Residential in the Southwest Truckee Meadows Plan Area

Zoning – Low Density Suburban





Site Photographs. Image 1 (top) is an aerial image of the two parcels and vicinity including Hunsberger Elementary School (west), future site of Marce Middle School (east), and Arrowcreek Parkway (south). Images 2 and 3 (below) are views of the site as seen from Arrowcreek Parkway and Crossbow Court.





north elevation (below) demonstrates a contemporary mountain architecture built into the contours and comprised of natural materials and earth tones. Key design features. The Site Plan (above) shows a 16,015 square foot building with 48 parking stalls, and 40,831 square feet of new landscaping. The The monument sign shown (top right) meets code while complementing the building.



Washoe County Development Application

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

Project Information	S	Staff Assigned Case No.:					
Project Name: Connect Neighborhood Cen	ter and Garden						
,		nent for a new wellness oriented o vacant parcels zoned Low Den	•				
Project Address: 2500 and	2540 Crossbow Court,	Reno, Nevada 89511					
Project Area (acres or square feet):							
Project Location (with point of re Vacant land at the northeast co							
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s):	Parcel Acreage:				
152-921-01	0.774 acres						
152-921-02	1.073 acres						
Indicate any previous Washoe County approvals associated with this application: Case No.(s). NA							
Applicant Information (attach additional sheets if necessary)							
Property Owner:		Professional Consultant:					
Name: Sage Property Ventur	res, LLC	Name: Tectonics Design Grou	цр				
Address: 510 West 4th Street		Address: 730 Sandhill Road,	Suite 250				
Carson City, Nevada	Zip: 89703	Reno, Nevada	Zip: 89521				
Phone: (917) 532-2396	Fax:	Phone: (775) 824-9988 x 11 Fax:					
Email: jenhutter@icloud.cor	n	Email: matt@tdg-inc.com					
Cell: (917) 532-2396	Other:	Cell: (775) 824-9988 x 11	Other:				
Contact Person: Jennifer Hutt	er	Contact Person: Matthew Ra	ismussen, PE				
Applicant/Developer:		Other Persons to be Contact	ed:				
Name: Sage Property Ventu		Name: Kerry Rohrmeier					
Address: 510 West 4th Street		Address: 838 Santa Barbara Road					
Carson City, Nevada	Zip: 89703	Berkeley, California	Zip: 94707				
Phone: (917) 532-2396	Fax:	Phone: (510) 933-4034	Fax:				
Email: jenhutter@icloud.com, heath	nerhaslem@gmail.com	Email: kerry@kdrohrmeier.com					
Cell: (917) 532-2396	Other:	Cell: (510) 993-4034 Other:					
Contact Person: Jenn Hutter	& Heather Haslem	Contact Person: Kerry Rohrmeier					
	For Office	Use Only					
Date Received:	Initial:	Planning Area:					
County Commission District:		Master Plan Designation(s):					
CAB(s):		Regulatory Zoning(s):					

Special Use Permit Application Supplemental Information

(All required information may be separately attached)

- 1. What is the project being requested?
- 2. Provide a site plan with all existing and proposed structures (e.g. new structures, roadway improvements, utilities, sanitation, water supply, drainage, parking, signs, etc.)
- 3. What is the intended phasing schedule for the construction and completion of the project?
- 4. What physical characteristics of your location and/or premises are especially suited to deal with the impacts and the intensity of your proposed use?
- 5. What are the anticipated beneficial aspects or affects your project will have on adjacent properties and the community?
- 6. What are the anticipated negative impacts or affect your project will have on adjacent properties? How will you mitigate these impacts?
- 7. Provide specific information on landscaping, parking, type of signs and lighting, and all other code requirements pertinent to the type of use being purposed. Show and indicate these requirements on submitted drawings with the application.

8. 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
-------	------

9. Utilities:

a. Sewer Service	
b. Electrical Service	
c. Telephone Service	
d. LPG or Natural Gas Service	
e. Solid Waste Disposal Service	
f. Cable Television Service	
g. Water Service	

For most uses, Washoe County Code, Chapter 110, Article 422, Water and Sewer Resource Requirements, requires the dedication of water rights to Washoe County. Please indicate the type and quantity of water rights you have available should dedication be required.

h. Permit #	acre-feet per year
i. Certificate #	acre-feet per year
j. Surface Claim #	acre-feet per year
k. Other #	acre-feet per year

Title of those rights (as filed with the State Engineer in the Division of Water Resources of the Department of Conservation and Natural Resources).

10. Community Services (provided and nearest facility):

- Fire Otetien	
a. Fire Station	
b. Health Care Facility	
c. Elementary School	
d. Middle School	
e. High School	
f. Parks	
g. Library	
h. Citifare Bus Stop	

Special Use Permit Application for Grading Supplemental Information

(All required information may be separately attached)

- 1. What is the purpose of the grading?
- 2. How many cubic yards of material are you proposing to excavate on site?
- 3. How many square feet of surface of the property are you disturbing?
- 4. How many cubic yards of material are you exporting or importing? If none, how are you managing to balance the work on-site?
- 5. Is it possible to develop your property without surpassing the grading thresholds requiring a Special Use Permit? (Explain fully your answer.)
- 6. Has any portion of the grading shown on the plan been done previously? (If yes, explain the circumstances, the year the work was done, and who completed the work.)
- 7. Have you shown all areas on your site plan that are proposed to be disturbed by grading? (If no, explain your answer.)

- 8. Can the disturbed area be seen from off-site? If yes, from which directions and which properties or roadways?
- 9. Could neighboring properties also be served by the proposed access/grading requested (i.e. if you are creating a driveway, would it be used for access to additional neighboring properties)?
- 10. What is the slope (horizontal/vertical) of the cut and fill areas proposed to be? What methods will be used to prevent erosion until the revegetation is established?
- 11. Are you planning any berms?

Yes No	Х	If yes, how tall is the berm at its highest?
--------	---	--

- 12. If your property slopes and you are leveling a pad for a building, are retaining walls going to be required? If so, how high will the walls be and what is their construction (i.e. rockery, concrete, timber, manufactured block)?
- 13. What are you proposing for visual mitigation of the work?
- 14. Will the grading proposed require removal of any trees? If so, what species, how many and of what size?
- 15. What type of revegetation seed mix are you planning to use and how many pounds per acre do you intend to broadcast? Will you use mulch and, if so, what type?

- 16. How are you providing temporary irrigation to the disturbed area?
- 17. Have you reviewed the revegetation plan with the Washoe Storey Conservation District? If yes, have you incorporated their suggestions?
- 18. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that may prohibit the requested grading?

	Yes	No	If yes, please attach a copy.
--	-----	----	-------------------------------

SOUTHWEST POINTE	SOUTHWEST POINTE ASSOC LLC	3631884	PM	03-20-2008	140	0	3NTT	
ASSOC LLC,								

Valuation Information	A	The 2020/2021 values are preliminary values and subject to change.
-----------------------	---	--

	Taxable Land	New Value	Taxable Imps	OBSO	Tax Cap Value	Taxable Total	Land Assessed	Imps Assessed	Total Assessed	Exemption Value
2020/21 NR	283,939	0	0	0		283,939	99,378	0	99,379	0
2020/21 VN	283,939	0	0	0		283,939	99,378	0	99,379	0
2019/20 FV	273,423	0	0	0	81,666	273,423	95,698	0	95,698	0

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. The summary data on this page may not be a complete representation of the parcel or of the improvements thereon. Building information, including unit counts and number of permitted units, should be verified with the appropriate building and planning agencies. Zoning information should be verified with the appropriate planning agency. 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 05-11-2020

If you have questions or corrections about our property data you can call us at 775-328-2277 or email us at exemptions@washoecounty.us

https://www.washoecounty.us/assessor/cama/index.php

Page 2 of 2

DRAINAGE REPORT

FOR

Connect Meditation Center

APN: 152-921-01 & 152-921-02

Prepared for:

Sage Property Ventures LCC. 175 Kingsrow Ct. Reno, NV

Prepared by:



730 Sandhill Road, Suite 250 Reno, Nevada 89521

> May 12th, 2020 Job Number: 20002

> > <u>WSUP20-0009</u> EXHIBIT J

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APPENDIX

А	REGIONAL DRAINAGE CRITERIA
В	DRAINAGE BASIN CALCULATIONS

GENERAL LOCATION AND DEVELOPMENT DESCRIPTION

INTRODUCTION

The following report represents the hydrologic and hydraulic analysis for the Connect Meditation Center which will be located on 1.82 acres of vacant land. The site is located at 2500 Crossbow Court and will be composed of two sites to be combined with APNs 152-921-01 & 152-921-02. This report will address the Truckee Meadows Regional Design Manual (TMRDM) & Washoe County Stormwater requirements including calculations and results to show how the project meets these requirements.

SITE LOCATION

The proposed project is located on two vacant parcels totaling 1.82 acres, with APNs 152-921-01 & 152-921-02. The parcel is bordered to the west by Crossbow Court, to the south by Arrowcreek Parkway, it is currently undeveloped to the east. The site is situated in the SE ¹/₄ of the SW ¹/₄ of Section 30, Township 18N, Range 20E, Mount Diablo Meridian. See Exhibit 1 for a general Vicinity Map.

PROJECT DESCRIPTION`

The projects scope includes the construction of a 13,215 SF community center building with a parking area and dive aisles connection to Crossbow court in two locations.

HYDROLOGIC ANALYSIS

In the existing condition the site consists of a single drainage basin as shown on Exhibit 2. The site currently slopes from south to north starting at an elevation of 5205' and having an elevation in the north of 5160'. The hydrologic analysis provided in this report includes calculations for the proposed development's 10-year and 100-year peak discharges. All calculations were performed in accordance with Washoe County Development Code and the Truckee Meadows Regional Design Manual (TMRDM).

According to Flood Insurance Rate Map panel 23031C3245G, dated March 16, 2009, the entire site is located within Unshaded Flood Zone X. Unshaded Flood Zone X is defined as an area of minimal flood hazard, determined to be outside the 500-year flood. A copy of the FEMA map is enclosed as Exhibit 3.

GENERAL DESCRIPTION OF ON-SITE FACILITIES

The proposed site will drain into detention basins with flow-controlled outlet structures. An existing channel located to the north of the site will serve as the detention basin outlet. The flow-controlled outlet structures are designed to limit post development flows to existing peak flows.

COMPLIANCE WITH REGULATIONS AND ADOPTED PLANS

The design criteria which has been used for this drainage analysis is in compliance with the Washoe County Storm Drainage Standards, Truckee Meadows Regional Drainage Manual & The Washoe County Boneyard Flat Closed Basin Interim Drainage Policy.

<u>METHODOLOGY</u>

RATIONAL METHOD

The rational method was used to determine the peak flows. The parameters for this method are:

- 1. The drainage area (A, acres)
- 2. Time of Concentration (T_c, minutes)
- 3. Runoff Coefficient (C)
- 4. Rainfall Intensity (i, inches per hour)

The time of concentration is calculated based on the Truckee Meadows Regional Drainage Manual equation:

tc =	= ti +	- tt

In which

tc = time of concentration (minutes)

ti = initial, inlet, or overland flow time (minutes)

tt = travel time in the ditch, channel, gutter, storm sewer, etc. (minutes)

Due to the relatively small size of the site and sub areas and the high runoff potential within commercial developments, the minimum T_c of 10 minutes was used in this proposed subbasin analysis.

Rainfall intensities were obtained from the rainfall intensity-duration-frequency curves for the project location as determined by NOAA. (See Appendix A)

From the Truckee Meadows Regional Drainage Manual., the following runoff coefficients were used (See Appendix A):

	5-yr	100-yr
Impervious	C=0.88	C=0.93
Building	C=0.85	C=0.87
Undeveloped/Landscaping	C=0.20	C=0.50

The peak runoff is calculated using the following equation: Q=CiA

PROPOSED DRAINAGE FACILITIES

FACILIITY DESIGN CALCULATIONS

The proposed site is composed of two drainage basins. Much of the site excluding the northern most section paving for the drive aisle is routed to detention basin with a flow-controlled outlet structure located along the eastern property line. The outlet from this basin and the remaining water from the drive aisle is routed to a basin located in the northern portion of the site. The roof drains for the buildings will all drain via downspout and sheet flow into this system. The site will finally drain into the existing channel located to the north of the site.

All Calculations have been provided in appendix B. A summary of these results is below in the provided tables.

BASIN SIZING

In order to account for the increased volume of runoff generated, as well as the flood plain storage volumes within the 100-year flood plain, a volumetric analysis was performed based on the 100-year, 10-day storm event. Basin sizing calculations are referenced in Appendix B.

	100 YR Required Volume (c.f.)	100 YR Provided Volume (c.f.)
Basin 1	1,018	1,200

Table 3 – Basin Sizing

CONCLUSION

All designed storm drain facilities are effective in controlling storm runoff. In addition, the storm drain facilities are in compliance with the following:

- FEMA requirements No buildings are proposed within the existing or proposed 100-year flood plain boundaries.
- Drainage Laws As designed, the drainage system shall promote and preserve the general health, welfare, and economic being of the region.
- Washoe County Development Code All items of concern such as reasonable use of and diversion of drainage have been addressed.
- All storm drain and flood control improvements have been designed to meet or exceed the design standards as set forth in the Washoe County Storm Drainage Standards & the Truckee Meadows Regional Drainage Manual
- Drainage facilities have been designed in order to ensure that post development flows do not exceed existing flows.

EXHIBITS







National Flood Hazard Layer FIRMette



Legend



WASH OE COUNTY UNINCORPORATED AREAS

AREA OF MINIMAL FLOOD HAZARD

T18N R19E S24

S9~24.5.6 1:6,000 Feet 32031C3245G eff.3/16/2009 2,000 T18N R19E S2 1,500 20019 1,000 500 250 WSUP20-000

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels,

legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for

unmapped and unmodernized areas

regulatory purposes.

be used for 4

X

W"77.41'84°81

APPENDIX A

REGIONAL DRAINAGE CRITERIA

Precipitation Frequency Data Server



NOAA Atlas 14, Volume 1, Version 5 Location name: Reno, Nevada, USA* Latitude: 39.4052°, Longitude: -119.7983° Elevation: 5184.89 ft** * source: ESRI Maps ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

1.50	PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour) ¹									
Duration		Average recurrence interval (years)								
Burution	1	2	5	10	25	50	100	200	500	1000
5-min	1.21	1.52	2.03	2.52	3.31	4.04	4.92	5.98	7.68	9.24
	(1.04-1.43)	(1.30-1.79)	(1.73-2.40)	(2.12-2.98)	(2.72-3.96)	(3.22-4.90)	(3.78-6.04)	(4.40-7.50)	(5.30-9.92)	(6.08-12.2)
10-min	0.924	1.16	1.55	1.91	2.53	3.08	3.74	4.55	5.84	7.03
	(0.792-1.09)	(0.990-1.36)	(1.31-1.83)	(1.62-2.27)	(2.08-3.01)	(2.45-3.73)	(2.87-4.59)	(3.35-5.70)	(4.04-7.56)	(4.63-9.31)
15-min	0.764	0.956	1.28	1.58	2.09	2.55	3.10	3.76	4.83	5.81
	(0.656-0.900)	(0.820-1.13)	(1.09-1.51)	(1.34-1.87)	(1.72-2.49)	(2.03-3.08)	(2.38-3.79)	(2.77-4.71)	(3.34-6.24)	(3.82-7.69)
30-min	0.516	0.644	0.860	1.07	1.40	1.72	2.08	2.53	3.25	3.91
	(0.442-0.606)	(0.552-0.760)	(0.732-1.02)	(0.900-1.26)	(1.15-1.68)	(1.37-2.07)	(1.60-2.55)	(1.86-3.17)	(2.25-4.21)	(2.58-5.18)
60-min	0.319	0.398	0.533	0.659	0.869	1.06	1.29	1.57	2.01	2.42
	(0.274-0.375)	(0.341-0.470)	(0.453-0.630)	(0.557-0.781)	(0.715-1.04)	(0.845-1.28)	(0.991-1.58)	(1.15-1.96)	(1.39-2.60)	(1.59-3.20)
2-hr	0.212	0.264	0.336	0.400	0.496	0.581	0.679	0.804	1.03	1.23
	(0.187-0.243)	(0.233-0.302)	(0.294-0.386)	(0.345-0.459)	(0.416-0.572)	(0.476-0.681)	(0.542-0.809)	(0.620-0.992)	(0.756-1.31)	(0.874-1.62)
3-hr	0.170	0.212	0.265	0.308	0.367	0.419	0.478	0.560	0.703	0.835
	(0.152-0.192)	(0.191-0.241)	(0.236-0.300)	(0.272-0.349)	(0.319-0.419)	(0.357-0.483)	(0.400-0.559)	(0.458-0.667)	(0.558-0.884)	(0.645-1.09)
6-hr	0.121	0.152	0.187	0.215	0.251	0.278	0.305	0.338	0.389	0.442
	(0.108-0.136)	(0.135-0.171)	(0.166-0.211)	(0.190-0.243)	(0.218-0.285)	(0.239-0.318)	(0.258-0.353)	(0.280-0.396)	(0.315-0.465)	(0.351-0.551
12-hr	0.080	0.101	0.126	0.146	0.173	0.193	0.214	0.235	0.262	0.284
	(0.071-0.090)	(0.090-0.113)	(0.112-0.142)	(0.129-0.165)	(0.151-0.197)	(0.166-0.221)	(0.181-0.248)	(0.194-0.276)	(0.211-0.314)	(0.224-0.347
24-hr	0.052	0.066	0.083	0.097	0.117	0.133	0.149	0.166	0.190	0.209
	(0.047-0.059)	(0.059-0.074)	(0.075-0.094)	(0.087-0.110)	(0.104-0.132)	(0.117-0.150)	(0.130-0.170)	(0.143-0.191)	(0.161-0.220)	(0.174-0.245
2-day	0.031	0.039	0.050	0.059	0.072	0.082	0.092	0.103	0.119	0.131
	(0.028-0.036)	(0.035-0.045)	(0.045-0.058)	(0.052-0.068)	(0.062-0.082)	(0.071-0.094)	(0.079-0.107)	(0.087-0.122)	(0.098-0.142)	(0.106-0.159
3-day	0.023	0.029	0.038	0.045	0.055	0.063	0.072	0.081	0.095	0.105
	(0.021-0.026)	(0.026-0.033)	(0.034-0.043)	(0.040-0.051)	(0.048-0.063)	(0.055-0.072)	(0.062-0.083)	(0.069-0.095)	(0.078-0.111)	(0.085-0.126
4-day	0.019	0.024	0.032	0.038	0.047	0.054	0.062	0.070	0.082	0.092
	(0.017-0.022)	(0.022-0.028)	(0.028-0.036)	(0.034-0.043)	(0.041-0.053)	(0.047-0.062)	(0.053-0.071)	(0.059-0.081)	(0.068-0.096)	(0.075-0.109
7-day	0.013	0.017	0.022	0.026	0.032	0.037	0.042	0.048	0.056	0.062
	(0.011-0.015)	(0.015-0.019)	(0.019-0.025)	(0.023-0.030)	(0.028-0.037)	(0.032-0.043)	(0.036-0.049)	(0.040-0.056)	(0.046-0.066)	(0.051-0.074
10-day	0.010	0.013	0.017	0.021	0.025	0.029	0.033	0.037	0.043	0.048
	(0.009-0.012)	(0.012-0.015)	(0.015-0.020)	(0.018-0.024)	(0.022-0.029)	(0.025-0.033)	(0.028-0.038)	(0.031-0.043)	(0.036-0.051)	(0.039-0.057
20-day	0.006	0.008	0.011	0.013	0.016	0.018	0.020	0.022	0.026	0.028
	(0.006-0.007)	(0.007-0.009)	(0.010-0.012)	(0.011-0.015)	(0.014-0.018)	(0.016-0.020)	(0.017-0.023)	(0.019-0.026)	(0.022-0.030)	(0.023-0.033
30-day	0.005	0.007	0.009	0.010	0.012	0.014	0.016	0.018	0.020	0.022
	(0.005-0.006)	(0.006-0.007)	(0.008-0.010)	(0.009-0.012)	(0.011-0.014)	(0.012-0.016)	(0.014-0.018)	(0.015-0.020)	(0.017-0.023)	(0.018-0.026
45-day	0.004	0.005	0.007	0.008	0.010	0.011	0.012	0.013	0.015	0.016
	(0.004-0.005)	(0.005-0.006)	(0.006-0.008)	(0.007-0.009)	(0.009-0.011)	(0.010-0.012)	(0.011-0.014)	(0.012-0.015)	(0.013-0.017)	(0.014-0.019
60-day	0.003	0.005	0.006 (0.005-0.007)	0.007	0.008	0.009	0.010	0.011	0.012	0.013

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical

WSUP20-0009

EXHIBIT^{1/4}J





Dura	ation
— 5-min	— 2-day
- 10-min	— 3-day
- 15-min	— 4-day
— 30-min	— 7-day
- 60-min	- 10-day
- 2-hr	- 20-day
— 3-hr	— 30-day
— 6-hr	— 45-day
- 12-hr	- 60-day
- 24-hr	

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Maps & aerials

Small scale terrain





Large scale terrain



Chico Chico

Large scale aerial

Precipitation Frequency Data Server



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US Department of Commerce National Oceanic and Atmospheric Administration National Weather Service National Water Center 1325 East West Highway Silver Spring, MD 20910 Questions?: <u>HDSC.Questions@noaa.gov</u>

Disclaimer

APPENDIX B

DRAINAGE BASIN CALCULATIONS

Rainfall Intensity



By: CSO Date: 5/12/2020

Project:	Connect Meditation Center
Project #:	20002

Тс	I 5-YR	I 10-YR	I 25-YR	I 50-YR	I 100-YR
5	2.03	2.52	3.31	4.04	4.92
10	1.55	1.91	2.53	3.08	3.74
11	1.50	1.84	2.44	2.97	3.61
12	1.44	1.78	2.35	2.87	3.48
13	1.39	1.71	2.27	2.76	3.36
14	1.33	1.65	2.18	2.66	3.23
15	1.28	1.58	2.09	2.55	3.1
16	1.77	1.55	2.04	2.49	3.03
17	2.26	1.51	2.00	2.44	2.96
18	2.74	1.48	1.95	2.38	2.90
19	3.23	1.44	1.91	2.33	2.83
20	3.72	1.41	1.86	2.27	2.76
21	4.21	1.38	1.81	2.22	2.69
22	4.70	1.34	1.77	2.16	2.62
23	5.18	1.31	1.72	2.11	2.56
24	5.67	1.27	1.68	2.05	2.49
25	6.16	1.24	1.63	2.00	2.42
26	6.65	1.21	1.58	1.94	2.35
27	7.14	1.17	1.54	1.89	2.28
28	7.62	1.14	1.49	1.83	2.22
29	8.11	1.10	1.45	1.78	2.15
30	8.6	1.07	1.4	1.72	2.08
60	0.533	0.659	0.869	1.06	1.29
120	0.336	0.4	0.496	0.581	0.679

Existing Condition Runoff

TECTONICS DESIGN GROUP

Project:	Connect Meditation Center
Project #:	20002

Тс	
10	

ſ	Acre
	1.82

	C (comp)	Adj	C (adj)
100-yr	0.45	1	0.45
50-yr	0.45	1	0.45
25-yr	0.45	1	0.45
10-yr	0.45	1	0.45
5-yr	0.45	1	0.45

Date: 5/12/2020

	Area (sf)	С
Building	0	0.9
Impervious	0	0.9
Pervious	79162	0.45

	Pre Development Peak Flows (cfs)							
 Тс	5yr	10yr	25yr	50yr	100yr			
10	1.27	1.56	2.07	2.52	3.06			

	100-Yr		50-Yr 2!		5-Yr	10	10-Yr	5-Yr		
Т	Peak (cfs)	Volume (cf)								
5	4.02	1611	3.30	1323	2.71	1084	2.06	825	1.66	665
10	3.06	2450	2.52	2018	2.07	1657	1.56	1251	1.27	1015
11	2.95	2543	2.43	2094	2.00	1719	1.51	1298	1.22	1053
12	2.85	2624	2.35	2160	1.93	1773	1.45	1339	1.18	1086
13	2.74	2692	2.26	2216	1.85	1818	1.40	1373	1.14	1114
14	2.64	2748	2.17	2261	1.78	1854	1.35	1401	1.09	1136
15	2.54	2791	2.09	2296	1.71	1882	1.29	1423	1.05	1152
16	2.48	2879	2.04	2369	1.67	1941	1.26	1468	1.45	1679
17	2.42	2960	1.99	2436	1.63	1995	1.24	1510	1.84	2253
18	2.37	3034	1.95	2497	1.60	2045	1.21	1548	2.24	2875
19	2.31	3101	1.90	2554	1.56	2090	1.18	1584	2.64	3544
20	2.26	3162	1.86	2605	1.52	2131	1.15	1615	3.04	4262
21	2.20	3216	1.81	2650	1.48	2167	1.13	1644	3.44	5028
22	2.15	3264	1.77	2690	1.45	2199	1.10	1669	3.84	5841
23	2.09	3305	1.72	2725	1.41	2226	1.07	1691	4.24	6703
24	2.03	3339	1.68	2754	1.37	2249	1.04	1710	4.64	7612
25	1.98	3366	1.63	2777	1.33	2267	1.01	1725	5.04	8569
26	1.92	3387	1.59	2796	1.30	2281	0.99	1737	5.44	9574
27	1.87	3401	1.54	2809	1.26	2290	0.96	1745	5.84	10627
28	1.81	3409	1.50	2816	1.22	2295	0.93	1751	6.23	11728
29	1.76	3410	1.45	2818	1.18	2295	0.90	1752	6.63	12876
30	1.70	3404	1.41	2815	1.14	2291	0.88	1751	7.03	14073
60	1.05	4010	0.87	3295	0.71	2701	0.54	2048	0.44	1657
120	0.56	4110	0.48	3516	0.41	3002	0.33	2421	0.27	2034
Proposed Condition Runoff

TECTONICS DESIGN GROUP

Project:	Connect Meditation Center
Project #:	20002

	Тс
5	5

ſ	Acre
	1.82

	C (comp)	Adj	C (adj)
100-yr	0.6817	1	0.68
50-yr	0.6817	1	0.68
25-yr	0.6817	1	0.68
10-yr	0.6817	1	0.68
5-yr	0.6817	1	0.68

By: C:	SO	
Date:	5/12/2020	

	Area (sf)	С
Building	13215	0.9
Impervious	27544	0.9
Pervious	38403	0.45

	Post Development Peak Flows (cfs)				cfs)
Тс	5yr	10yr	25yr	50yr	100yr
5	2.51	3.12	4.10	5.00	6.10

	10	0-Yr	50)-Yr	25	5-Yr	10)-Yr	5-Yr	
Т	Peak (cfs)	Volume (cf)								
5	6.10	2441	5.00	2004	4.10	1642	3.12	1250	2.51	1007
10	4.63	3246	3.82	2673	3.13	2196	2.37	1658	1.92	1345
11	4.47	3403	3.68	2802	3.03	2301	2.28	1737	1.85	1409
12	4.32	3541	3.55	2915	2.92	2393	2.20	1807	1.79	1466
13	4.16	3661	3.42	3013	2.81	2472	2.12	1867	1.72	1514
14	4.00	3761	3.29	3095	2.70	2538	2.04	1918	1.65	1554
15	3.84	3842	3.16	3161	2.59	2590	1.96	1958	1.59	1587
16	3.76	3983	3.09	3278	2.53	2685	1.92	2031	2.19	2323
17	3.67	4114	3.02	3386	2.48	2773	1.87	2099	2.79	3132
18	3.59	4235	2.95	3487	2.42	2855	1.83	2162	3.40	4013
19	3.50	4346	2.88	3579	2.36	2929	1.79	2219	4.00	4967
20	3.42	4447	2.82	3663	2.30	2997	1.75	2272	4.61	5993
21	3.33	4537	2.75	3738	2.25	3057	1.70	2319	5.21	7092
22	3.25	4618	2.68	3806	2.19	3111	1.66	2362	5.82	8264
23	3.17	4688	2.61	3865	2.13	3158	1.62	2399	6.42	9508
24	3.08	4748	2.54	3916	2.08	3199	1.58	2431	7.03	10825
25	3.00	4798	2.47	3959	2.02	3232	1.54	2459	7.63	12214
26	2.91	4838	2.41	3994	1.96	3258	1.49	2481	8.24	13676
27	2.83	4868	2.34	4020	1.91	3278	1.45	2498	8.84	15210
28	2.75	4888	2.27	4038	1.85	3291	1.41	2510	9.45	16817
29	2.66	4898	2.20	4048	1.79	3297	1.37	2517	10.05	18496
30	2.58	4897	2.13	4050	1.73	3296	1.33	2519	10.65	20248
60	1.60	5914	1.31	4859	1.08	3984	0.82	3021	0.66	2443
120	0.84	6141	0.72	5255	0.61	4486	0.50	3618	0.42	3039

Basin Size Estimate

TECTONICS DESIGN GROUP

3.06

By: CSO **Project: Connect Meditation Center** Project #: 20002 5/12/2020 Date:



		100-Yr	
	Peak	Inflow	Storage
Td	(cfs)	(cf)	(cf)
5	6.10	2441	911
10	4.63	3246	1018
11	4.47	3403	1018
12	4.32	3541	1000
13	4.16	3661	965
14	4.00	3761	911
15	3.84	3842	839
16	3.76	3983	813
17	3.67	4114	778
18	3.59	4235	732
19	3.50	4346	678
20	3.42	4447	613
21	3.33	4537	539
22	3.25	4618	455
23	3.17	4688	362
24	3.08	4748	259
25	3.00	4798	Qp <qa< th=""></qa<>
26	2.91	4838	Qp <qa< th=""></qa<>
27	2.83	4868	Qp <qa< th=""></qa<>
28	2.75	4888	Qp <qa< th=""></qa<>
29	2.66	4898	Qp <qa< th=""></qa<>
30	2.58	4897	Qp <qa< th=""></qa<>
60	1.60	5914	Qp <qa< th=""></qa<>
120	0.84	6141	Qp <qa< th=""></qa<>

GEOTECHNICAL & inspection services

April 21, 2020

Project No. RG-20-032

Mr. Matthew Rasmussen Tectonics Design Group 10451 Double R Blvd. Reno, Nevada 89521

Re: Geotechnical Investigation Report Update Proposed Commercial Development 2500 Crossbow court Reno, Washoe County, Nevada

Ref: Pezonella Associates, Inc., 2015, *Preliminary Geotechnical Investigation, Proposed Commercial Development, Arrowcreek Parkway and Crossbow Court, Reno, Nevada,* 28 pages, Job No. 6098.14-A.

Dear Mr. Rasmussen:

Nova Geotechnical and Inspection Services (NOVA) is pleased to present the results of our update to the referenced geotechnical investigation report by Pezonella Associates, Inc. (PEZ, the Report). The project is located at 2500 Crossbow Court in the City of Reno, Washoe County, Nevada. According to the Public Land Survey System (PLSS), the site is situated in the SE ¼ of the SW ¼ of Section 30, Township 18N, Range 20E, Mount Diablo Meridian, and is identified as Assessor's Parcel Numbers (APN's) 152-921-01 and -02. The site comprises approximately 1.817 acres. The purpose of our services is to provide updated and/or revised geotechnical engineering recommendations, following the 2018 International Building Code (IBC), to aid in the design and development of the project.

Our current scope of services for this report update consists of the following:

- A site reconnaissance
- A review of the Report
- A review of the new conceptual site plan
- Provide any updated recommendations in this report

This report is geotechnical in nature and not intended to identify other site constraints such as environmental hazards, wetlands determinations or the potential presence of buried utilities. Recommendations included in this report are specific to development at the site and are not intended for any off-site development.



It is our opinion that, except as noted below, the conclusions and recommendations contained in the referenced report remains valid.

Project Information

Our project information is based on conversations with you, an undated conceptual site plan provided by you, and the Report. The project site consists of two parcels located at 2500 and 2450 Crossbow Court, in the City of Reno, Washoe County, Nevada. The Washoe County Assessor's parcel numbers (APN's) are 152-921-01 and 152-921-02, and the site comprises a total of approximately 1.82 acres. According to the Public Land Survey System (PLSS), the site is situated in the SE ¼ of the SW ¼ of Section 30, Township 18N, Range 20E, Mount Diablo Meridian.

Based on the referenced conceptual site plan, proposed improvements to the site consist of a twostory commercial building with a 10,500-sf footprint, with associated asphalt-paved parking and drives, exterior flatwork, landscaping, and underground utilities.

Site Reconnaissance

We performed a site reconnaissance on April 8, 2020. We observed the following:

- Stockpiles of soil, cobbles, boulders, and construction debris located north of the proposed structure footprint, and beneath a proposed entry drive
- Older fill located in the proposed parking area north of the structure
- Newer gravel fill placed over most of the south parcel
- An undocumented fill slope located along the east site boundary composed of debris and non-standard fill.

Since the date of the Report, 2015, there have been few changes to the project site. Our site reconnaissance did not reveal any new geotechnical issues.

Report Review

The Report includes the following conclusions and recommendations:

- Previously placed fill was encountered in the test borings to depths of 1 to 2 feet below existing grade (BEG).
- Native soils consist primarily of dense to very dense, moist silty sand and silty sand with gravel (SM).

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- Groundwater was not encountered to the maximum explored depth of 15 feet BEG. Based on State of Nevada Division of Water resources drilling logs from nearby water wells, groundwater is anticipated to be approximately 300 feet beneath the surface.
- The potential for liquefaction is considered low.
- Recommended extending footings below existing fill to native soil below (1 to 3 feet BEG), scarifying the exposed native subgrade soil to a depth of six inches, and compacted to at least 90 percent relative compaction, based on ASTM D1557.
- Gives an allowable bearing capacity of 3,000 pounds per square foot (psf), with a one-third increase for total design loads.

The Report also states, "The recommendations presented in this report are based on the assumption that sufficient field inspection and construction review will be provided during all phases of construction. A pre-job conference should be scheduled to include, but not be limited to, the Owner, Architect, Civil Engineer, General Contractor, Earthwork and Materials Sub-Contractors, Building Official, and Geotechnical Engineer."

Discussion and Recommendations

A copy of the Report is attached to this update. The following updated recommendations replace those in the Report and should be incorporated during design and construction:

Site Preparation

The fill slope located along the east site boundary should be evaluated. Please contact this office for more information.

Site Class

The 2018 International Building Code (IBC) requires assuming a default Site Class of D for seismic design when soil conditions for the top 100 feet are not known in enough detail for determination in accordance with Table 20.3-1 of ASCE Standard 7-16.

Seismic Design Parameters

We obtained the site seismic design parameters using the ATC Hazards by Location website. This application is a third-party graphical user interface (GUI) utilizing the USGS seismic design maps and is used for determining seismic design values according to ASCE 7-16 and the 2018 International Building Code. Design parameters are presented in the following Table 1:

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TABLE 1 2018 IBC SEISMIC DESIGN PARAN	IETERS
Description	Value
Latitude	39.405266 deg
Longitude	-119.799025 deg
Site Class	D – Stiff Soil
Risk Category	I
Short-Period (0.2 sec) Spectral Response, S_S	2.039 g
Long-Period (1.0 sec) Spectral Response, S ₁	0.722 g
Short-Period (0.2 sec) Site Coefficient, F_A	1.000
Long-Period (1.0 sec) Site Coefficient, F_V	* null
Short (0.2 sec) MCE Spectral Response, S_{MS}	2.039 g
Long (1.0 sec) MCE Spectral Response, S_{M1}	* null
Short (0.2 sec) Design Spectral Response, S _{DS}	1.359 g
Long (1.0 sec) Design Spectral Response, S _{D1}	* null
MCE _G Peak Ground Acceleration, PGA	0.890 g
Seismic Design Category, SDC	* null

NOTE *null: The Structural Engineer shall determine these values in accordance with ASCE 7-16, Section 11.4.8, Exception 2.

<u>Closing</u>

Our professional services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable geotechnical engineers practicing in this or similar localities. No warranties, either express or implied, are intended or made. We prepared this report as an aid in design of the proposed project. This report is not a bidding document. Any contractor reviewing this report must draw their own conclusions regarding site conditions and specific construction techniques to be used on this project.

NOVA GEOTECHNICAL & INSPECTION SERVICES

Prepared by:

Joseph E. McKinney, PGp, PG Senior Project Manager

Reviewed by:

ð Blake D. Carter, P. DOUGLAS Geotechnical Department Man RE Number ____ Expires 12/31/2020 RE Number 22331

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Tectonics Design Group Project No.: RG-20-032

APPENDIX

Previous reports by Pezonella and Associates (2015)



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PRELIMINARY GEOTECHNICAL INVESTIGATION PROPOSED COMMERCIAL DEVELOPMENT ARROWCREEK PARKWAY AND CROSSBOW COURT RENO, NEVADA

Prepared For

Mr. Matthew Rasmussen Tectonics Design Group 10451 Double R Blvd Reno, Nevada 89521

Job No. 6098.14-A



December 18, 2015

Pezonella Associates . Inc. Consulting Engineers and Geologists

520 EDISON WAY • RENO, NEVADA 89502 • (775) 856-5566



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December 18, 2015 Job No: 6098.14-A

FAX • (775) 856-6042 www.pezonella.com

Mr. Matthew Rasmussen Tectonics Design Group 10451 Double R Blvd Reno, Nevada 89521

Re: **Preliminary Geotechnical Investigation Commercial Development** Arrowcreek Parkway and Crossbow Court, Reno, Nevada

Dear Mr. Rasmussen.

This report presents the results of our preliminary geotechnical investigation and provides recommendations for the design and construction of the referenced project.

As presented in the attached report, based on the results of our investigation, knowledge of the area; and understanding of project, we conclude that, the site is suitable from a geotechnical standpoint for the intended use provided the recommendations provided in this report are followed during all aspects of project planning and development.

No grading plans detailed develop plans have been provided at the time of this report. Once plans are completed, this report should be updated as necessary. Additional field and laboratory work may be required.

We appreciate having been selected to perform this investigation and trust that the results will fulfill project design requirements. If you, or any of your design consultants, have any questions, please contact us.



PRELIMINARY GEOTECHNICAL INVESTIGATION

PROPOSED COMMERCIAL DEVELOPMENT

ARROWCREEK PARKWAY AND CROSSBOW COURT

RENO, NEVADA

Prepared For

Mr. Matthew Rasmussen Tectonics Design Group 10451 Double R Blvd Reno, Nevada 89521

By

Dean R. Stanphill, P.E.

Raymond M. Pezonella, President

Pezonella Associates, Inc. 520 Edison Way Reno, Nevada 89502 (775) 856-5566

December 18, 2015

Job No. 6098.14-A

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INTRODUCTION

This report presents the results of our geotechnical investigation performed on the property located in Reno, Nevada. The location of the site is indicated on the Site Plan, Plate 1.

At the present time, we have not been provided with site grading or detailed development plans. It is important that as building and grading plans are finalized that they be reviewed by this office to verify that the recommendations contained herein remain applicable to the final project design. Although earthwork at the site is expected to be minimal, a comprehensive grading plan review and update of the geotechnical report is still recommended.

Site Description

Our site description is based on our observations and property boundaries provided by you.

The property consists of APN 152-921-01 and APN 152-921-02. Both properties are vacant and undeveloped.

The lots are bounded by vacant undeveloped property to the east, Crossbow Court to the west and north, and Arrowcreek Parkway to the south. An electrical transformer is located at the southeastern edge of the property. The property has been graded in the past. The lots contain approximately 1 to 2 feet fill material. This material is silty sand with gravel, and is aggregate base or rejected base in appearance. A stockpile of fill material is located on APN 152-921-01. An overhead utility line exists along the eastern edge of the lots, while a chain link fence continuously runs from the southeastern edge of the property to the northern edge of the property.

There was zero vegetation on the lots.

On the western side of Crossbow Court exists Hunsberger Elementary School. This school is opposite the entire western edge of the site.

Proposed Development

The preliminary plan provided by you indicates that the commercial development will consist of a two new buildings and parking lots. These structures will be comprised of two 6,000 square foot buildings, parking lots, and landscaping.

As mentioned, detailed development plans have not been provided to us at this time. Accordingly, we assume that construction will be concrete/masonry with shallow spread concrete footings, reinforced concrete slab-on-grade for the buildings, and asphalt concrete for the parking lots. Earthwork is expected to minimal. Structural loads are anticipated to be light to moderate.

It is anticipated that exterior concrete flatwork will complete the site work.

Scope of Services

The purpose of our investigation is to determine the subsurface soil and ground water conditions at the proposed building site and to provide opinions and recommendations concerning:

- 1. Estimated Soil Profile Type;
- 2. Groundwater;
- 3. Potential Geological Hazards;
- 4. Site Preparation;
- 5. Fill Placement and Compaction;
- 6. Site Surface Drainage and Landscape;
- 7. Trench Excavation, Pipe Bedding, and Trench Backfilling;
- 8. Foundation Support;
- 9. Lateral Resistance and Loads;
- 10. Exterior Concrete Flatwork;
- 11. Corrosion;
- 12. Pavement Sections;
- 13. Additional Geotechnical Engineering Services.

This report is geotechnical in nature and not intended to identify other site constraints such as environmental hazards, wetlands determinations and/or the potential presence of buried utilities. Recommendations included in this report are specific to development within the limits of the property and not intended for off-site development. Proposed development outside the limits of our investigation or any conceptual changes to site development, such as the use of alternative foundations or grade changes, could require additional subsurface exploration, laboratory tests and engineering analysis.

It must also be understood that because detailed development and grading plans have not been prepared, the recommendations presented herein are subject to change based on new conditions that may result of specific project design.

II FIELD EXPLORATION AND LABORATORY TESTING

Field Exploration

Soil Borings

Subsurface soil conditions were explored on November 24, 2015 by drilling four test borings with a truck mounted Central Mine Equipment (CME 55) drill rig using hollow-stem and solid flight augers to depths of 5.5, 5, 13.5, and 15 feet below the existing ground surface. All test borings were terminated in dense granular materials.

The test boring locations were positioned in the field using pacing and are depicted on Plate 2. Our field geologist recorded the location of each boring using the Global Positioning System (GPS). All locations are approximate. No greater accuracy is inferred.

Within the test borings, bulk and relatively undisturbed drive samples were obtained in the soil borings. Relatively undisturbed samples were obtained using a Modified California Sampler. Standard Penetration Tests (SPT's) were also performed a selected locations. The samples

were obtained utilizing a 140 pound hammer with a 30 inch drop. The blows for each 6 inch increment was recorded and converted to blows per foot and area as shown on the Logs of Test Borings. The blow counts presented on the aforementioned logs have not been corrected for sampler type, overburden, hammer type, or rod length. Materials encountered were visually classified and logged by our geologist and staff engineer.

Logs of the test pits and test borings are presented on Plates 3 through 6. The materials are classified in accordance with the Unified Soil Classification System which is explained on Plate 7.

Laboratory Testing

The samples were returned to our laboratory and reviewed by our staff engineer to confirm their field classifications and to select representative samples for laboratory testing. Index tests were performed which were in turn correlated with typical engineering design parameters for similar soils. The following tests were performed:

- Particle size analysis and Atterberg Limits (Plates 8 through 10),
- Corrosion test results (Plate 11).

III SUBSURFACE SOILS and GROUNDWATER CONDITIONS

Soils

Previously placed fill was encountered in our test boring. The existing fill material was encountered between depths of 1 to 2 feet beneath the existing elevations.

Native soils consist primarily of silty sand, and silty sand with gravel. It is anticipated that at the depths of the expected cuts, that silty sand with gravel will be encountered.

The soils encountered were generally in a moist condition.

Based on our field observations and laboratory evaluations, the on-site soils should be able to be excavated with conventional grading equipment.

Groundwater

At the time of our exploration in November, 2015, ground water was not encountered to the maximum depth explored of 15 feet.

A review of State of Nevada Division of Water Resources was conducted to locate the depth of groundwater near the site. The registered wells near the proposed development range in depths of 100 to 500 feet, with the closest well to the site as a depth of 300 feet beneath existing ground level.

Depths to groundwater may vary significantly over time due to seasonal precipitation and snow fall/melt that may significantly affect surface and near water seepage. Provisions should be made during construction to manage surface and subsurface water flows. Moreover, subsurface wall and concrete slab drainage systems should be incorporated into project design.

IV GEOLOGIC AND SEISMIC CONSIDERATIONS

To delineate possible faulting and to evaluate any other geological hazards on the site, our investigation included a review of available geological literature.

A. Geology

Based on geologic mapping completed by H.F. Bonham Jr. and David K. Rogers (Nevada Bureau of Mines and Geology, *Mt. Rose NE Quadrangle Geologic Map*, 1983), the materials in the general site vicinity are composed of the following:

<u>Quaternary age Donner Lake Outwash-Mount Rose Fan Complex (Qdm)</u>. Pediment and thin fan deposits from major streams draining alpine glaciers on Mount Rose; brown to brownish-gray, sandy, muddy, poorly sorted large pebble gravel; cobbles and small boulders common. Clasts dominantly volcanic (porphyritic andesite and latite); surface granitic clasts rare. Deeply weathered, strongly developed soil profile similar to Donner Lake Outwas (Qdo), locally overlain by undifferentiated veneer of Tahoe Outwash-Mount Rose Fan Complex (Qtm); well cemented and/or hydrothermally altered in Steamboat Hills area.

B. Faulting and Seismicity

Faulting

Based on a review of the Nevada Bureau of Mines and Geology, *Mt. Rose NE Quadrangle Earthquake Hazards Map*, by Gail Cordy Szecsody in 1983, an Early to mid-Pleistocene (approximately 100,000 to 1,800,000 years) fault exists on the site, and a Mid-to late Pleistocene (approximately 35,000 to 100,000 years) exists approximately 0.5 miles southwest of the planned development. The reference map also describes the site as follows:

Potential for Ground Shaking during Earthquakes (III): Moderate severity of shaking. Includes units from (II) where depth to ground water is >10m (33ft); also includes unconsolidated to moderately indurated deposits with moderately high rigidity where depth to ground water is less than 3m (10ft).

Because of the age of the fault and thickness of alluvium overlying the fault, no other mitigation measures are considered necessary.

The site is subject to pronounced slumping and ground disturbance and may manifest amplified ground motion during a seismic event. The project site is in an area of anticipated strong ground shaking, as is most of California and Nevada.

<u>Seismicity</u>

Based on our site investigation and information provided by the United States Geologic Service, the seismic coefficients for the site applicable to the 2012 International Building Code are as follows:

$$S_S = 2.297 \text{ g}$$
 $S_1 = 0.799 \text{ g}$

Site Classification

Based on our test borings and seismic lines, a Site Classification of D can be used for design.

C. Seismically-induced Liquefaction

Liquefaction, a loss of soil shear strength, is a phenomenon associated with loose, saturated granular deposits subjected to earthquake shaking which can result in unacceptable settlements of foundations and other structural elements supported by these soils. Due to the previously mentioned groundwater depths and the dense nature of the soils, the potential for seismically-induced liquefaction is considered low.

D. Tsunami or Seiche

A tsunami, or a seiche, is a great wave produced by an earthquake or volcanic activity. The difference between a tsunami and a seiche is that a seiche happens in enclosed bodies of water. Based on no body of water near the site, the potential for seiches is considered nil.

E. Radon

Radon, a colorless, odorless, radioactive gas derived from the natural decay of uranium, is found in nearly all rocks and soils. The Environmental Protection Agency (EPA) suggests that remedial action be taken to reduce radon in any structure with average indoor radon of 4.0 pCi/L or more. Based on studies completed by the Nevada Bureau of Mines and Geology in cooperation with the Nevada Division of Health and the U.S. Environmental Protection Agency (*Radon In Nevada*, Nevada Bureau of Mines and Geology, Bulletin 108, 1994), most areas of Northern Nevada have the potential for exceeding this active level. Our office can be of assistance if radon testing is requested.

F. Flooding

The site exists in the Federal Emergency Management Agency (FEMA), Community - Panel Number 32031C3245G, effective March 16, 2009. The site is classified as Flood Hazard Zone X (unshaded) which are areas determined to be outside the 0.2% annual chance floodplain.

V CONCLUSIONS

Based on the results of our test borings, laboratory testing, and engineering evaluations, it is our opinion that the subject site is suitable for development, provided the recommendations presented in this report and subsequent reports are adhered to during the design and construction phases of the project. The primary geotechnical constraint identified is the presence of undocumented fill materials.

VI RECOMMENDATIONS

A. Site Preparation

A portion of the on-site materials consist of undocumented fill material. It is our opinion, however, that due to the granular nature of the fill materials, removal is not necessary and the soils can be adequately compacted by large vibratory equipment.

It is anticipated that the native soils will consist of silty sand with gravel at finished subgrade elevations which will be between 1 and 3 feet below the existing ground surface. Accordingly, we recommend that overexcavation be extended to provide the following zone of non-expansive properly compacted fill beneath structural elements:

- Footings and Interior Concrete Pavements/Slabs: underlain by properly compacted native subgrade;
- Exterior Concrete Flatwork: underlain by at least 6 inches of properly compacted native subgrade.

After overexcavation, subgrade soils should be scarified to a depth of 6 inches, moisture conditioned to optimum moisture content and then compacted to at least 90 percent relative compaction, based on the maximum dry density determined by ASTM D1557.

Scarification and moisture conditioning may be waived by the Geotechnical Engineer (or his representative) if it is determined that the exposed materials exist at a suitable moisture content for attaining compaction or contain oversize material which will inhibit compaction procedures and result in a lesser density state. Surfaces which contain oversize material should be "proof-rolled" under the observation of the Geotechnical Engineer (or his representative) to ensure that adequate compaction has been attained. The Earthwork Contractor is responsible for obtaining approval for each prepared surface prior to proceeding with placement of structural components or fills.

B. Fill Placement and Compaction

Suitability of On-site Soils

The on-site soils are considered suitable for use as properly compacted fill, provided the soils meet the criteria in this report. Soils excavated during construction that do not meet the criteria should be removed off-site.

Fill Material Specifications

Import soils used as properly compacted fill should be free of organic matter and conform to the following requirements:

TABLE 1 IMPORT FILL SOIL REQUIREMENTS		
Sieve Size	% Passing (by dry weight)	
6-inch	100	
3/4-inch	70 – 100	
No. 4	50 - 100	
No. 200	15-40	

Liquid Limit = 40 maximum Plasticity Index = 15 maximum R-Value = 30 minimum Non-deleterious to concrete (low sulfate) If the earthwork contractor chooses to use the on-site material as structural backfill, the Geotechnical Engineer, or his representative, must be on-site to approve the material.

The Earthwork Contractor shall ensure that all proposed fill materials are approved by the Geotechnical Engineer prior to use. Representative samples shall be made available for testing 10 working days prior to hauling to allow for material quality tests.

Fill Placement

All properly compacted fill should be uniformly moisture conditioned to near optimum and compacted to at least 90 relative compaction, based on the maximum dry density determined by ASTM D1557. Lift thickness will be restricted to 8 inches (maximum loose lift) and individually tested unless the Earthwork Contractor can demonstrate his ability to uniformly achieve the required compaction for the entire layer placed.

The recommendations for structural fill are intended as a guideline and define a readily attainable, acceptable material. Adjustments to the specified limits to address the use of other potentially acceptable materials, such as those containing oversize rock or which deviate from the classification requirements, can be made provided: 1) the Earthwork Contractor can demonstrate his ability to place and compact the material in substantial conformance with industry standards to achieve an equivalent finished product as that specified; 2) the Geotechnical Engineer gives his written approval (requires a minimum of 5 working days from request); 3) the Geotechnical Engineer (or his representative) directly observes and approves the placement method; and 4) all parties understand that the Standard ASTM Compaction Test procedures may be invalid for certain material containing oversize aggregate. Compaction approval could only be achieved based on other criteria, such as a performance specification with full-time on-site observation. This will result in substantial increase of Technician time and the subsequent the cost of inspection services.

C. Site Surface Drainage and Landscape

Adequate drainage (at least 2 percent for soil) should be provided to restrict infiltration from entering the supporting soils. The ground surface should be permanently sloped to drain away from the structure so that the water is not allowed to pond against perimeter stem walls. Runoff from roof downspouts should be contained and directed away from the structure. Landscape adjacent to structural areas should be limited and consist of native vegetation utilizing drip-type irrigation.

Backfill around foundation stem walls should consist of native soils, moisture conditioned to near optimum, and compacted to 90 percent relative compaction. To control water migration, an impermeable membrane such as Mirafi coated fabric (MCF-1212 or equal) or 10 mil plastic layer should be considered between stem walls and material used as backfill and extend a sufficient distance to effectively cover all placed backfill.

D. Trench Excavation, Pipe Bedding and Trench Backfilling

The Earthwork Contractor must comply with the "Safety and Health Regulations for Construction" as directed by the Occupational Safety and Health Act (OSHA Standards, Volume III, Part 1926, Subpart P) while excavating and backfilling. The Earthwork Contractor is also responsible for providing a competent person, as defined by OSHA standards, to ensure excavation safety. Pipe bedding and trench backfill materials should be moisture conditioned to slightly over optimum and compacted to 90 percent relative compaction, or local requirements, based on the maximum dry density determined by ASTM D1557. The thickness of all lifts will be restricted to a maximum of 8 inches (loose) and individually tested unless the Earthwork Contractor can demonstrate his ability to uniformly achieve the required compaction for the entire layer of material placed.

For corrosion protection, where steel and/or metal pipes are proposed, we recommend that the Contractor follow the pipe manufacturer's recommendation regarding corrosion protection.

E. Foundation Support

Conventional spread foundations should be supported on properly compacted fill meeting the requirements of "Table 1, Import Fill Soil Requirements".

All exposed subgrade soils in the footing excavations should be compacted to a minimum of 90 percent relative compaction based on the maximum dry density determined by ASTM D1557.

In preparation for foundation construction, the Earthwork Contractor shall ensure that the structural fills have been prepared as recommended and that field density tests have been performed to document the relative compaction of all fill.

It is anticipated that footings will be founded 24 inches beneath the finished grade. These footings can be design for a net allowable soil pressure of 3000 pounds per square foot (psf). This pressure can be increased by one-third when considering total design loads, including wind or seismic forces. Estimated total and differential settlement for footings designed for this soil bearing capacity should be less than one inch and three-quarters inch, respectively.

F. Lateral Resistance and Loads

Soil Strength Parameters Used in Design

For the purpose of our evaluation, we have assumed the following strength parameters:

	SOIL SI	TABLE 2 TRENGTH PARAMETERS	
Condition	Angle of Internal Friction	Cohesion (pounds per square foot)	Wet Unit Weight (pounds per cubic foot)
On-site Materials	32	300	130
Import Fill	32	100	120

Lateral Resistance

Resistance to lateral loads can be obtained from passive earth pressures and soil friction. For design, we recommend the use of a coefficient of friction of 0.42 with a passive pressure of 400 pounds per cubic foot (equivalent fluid pressure).

Lateral Loads

The on-site soils are not considered suitable for use a retaining wall backfill. All backfill materials should be the requirements of Table 1, "Import Fill Requirements". Accordingly for

level backfill using select granular materials, the recommended active pressure can be taken as 40 pounds per cubic foot (equivalent fluid pressure). For restrained retaining walls, the design at-rest pressure can be taken as 60 pounds per cubic foot (equivalent fluid pressure).

Retaining Wall Drainage

Subsurface drainage of any retaining structures is required to prevent the build-up of hydrostatic pressures behind the retaining wall. Drainage structures should at a minimum consist of perforated 4-inch in diameter drain pipe within drain rock enveloped by drainage fabric. The drain pipe should outlet to proper drainage devices. Actual drainage design should also incorporated project water proofing requirements. The design of the system should be performed by the Project Civil Engineer. Moreover, the retaining wall should be designed either with a drainage swale or other mechanism to divert water away from the top of the wall. Water should never be allowed to pond adjacent to any retaining wall.

G. Exterior Concrete Flatwork

Exterior concrete flatwork (i.e. walkways, stoops and patios) should be supported on properly prepared compacted select materials as described in previous portions of this report.

In preparation for slab or flatwork construction, the Earthwork Contractor shall ensure that soils have been prepared as recommended and that field density tests have been performed to document that the relative compaction of the slab subgrade is at least 90 percent relative compacted, based on the maximum dry density determined by ASTM D1557. Preparation of the native soils shall be documented prior to placement of select fill, aggregate base or structural components.

All dedicated exterior flatwork should conform to standards provided by the governing agency including section composition, supporting material thicknesses and any requirements for reinforcing steel.

Private exterior flatwork, such as walkways, should consist of 4 inches of Portland Cement Concrete underlain by at least 6 inches of compacted (95 percent relative compaction) aggregate base material and should consist of Portland Cement Concrete with a minimum 28 day compressive strength of 4000 pounds per square inch (psi) with entrained air.

Public exterior flatwork should conform to the requirements of the local jurisdiction.

Concrete mix proportions and construction techniques, including the addition of water and improper curing, can adversely affect the finished quality of the concrete and result in cracking and spalling of the slabs. We recommend that all placement and curing be performed in accordance with procedures outlined by the American Concrete Institute and Portland Cement Association. Special considerations should be given to concrete placed and cured during hot or cold weather conditions. Proper control joints and reinforcing mesh should be provided to minimize any damage resulting from shrinkage.

Due to the potential for seasonal surface water and lateral vapor migration to occur, associated with seasonal moisture change and differences between the building interior and exterior ambient conditions, a vapor inhibitor should be considered if moisture sensitive floor coverings

are proposed. Vapor barriers should be designed in accordance with current American Concrete Institute (ACI) guidelines.

H. Corrosion

Corrosive tests performed on the on-site soils indicate that the material is considered severely corrosive to buried metal conduit. Appropriately, protection of buried metal conduit, per manufacturer's guidelines, is recommended. The soils are not considered detrimental to normally formulated concrete.

I. Pavement Sections

Flexible pavement sections (driveway) can be supported on properly prepared subgrade. Based on an R-Value of 30 and minimum requirements of local agencies, the recommend pavement sections are presented in the following tables:

RECOMMENDED AS	SPHALT CONCRETE P	AVEMENT SECTIONS
Pavement Designation	Asphalt Concrete (inches)	Aggregate Base (inches)
Access Roads	4	6
Parking Area	4	6

RECOMMENDED PORTLAND CEMENT CONCRETE PAVEMENT SECTIONS					
Pavement Designation Concrete (inches) Aggregate Base (inches)					
Dumpster Approaches	6	6			

The Earthwork Contractor shall ensure that field density tests have been performed to document the relative compaction of at least the upper 6 inches of select fill. Preparation of the native soils shall be documented prior to placement of select fill or aggregate base.

Because of the close proximity of the slab subgrade elevation to groundwater elevations, a slab drainage system should be incorporated into the overall building subsurface drainage design. This design will be performed by your Civil Engineer.

J. Additional Geotechnical Engineering Services

This report is geotechnical in nature and not intended to identify other site constraints such as environmental hazards, wetlands determinations and/or the potential presence of buried utilities. We can assist in evaluating these considerations should further information be requested. Moreover, this office should be retained to provide grading observation and testing as well as associated special inspection during all phases of construction.

All plans and specifications for projects should be reviewed for conformance with this geotechnical report and approved by the Geotechnical Engineer prior to submission to the building department for review.

The recommendations presented in this report are based on the assumption that sufficient field inspection and construction review will be provided during all phases of construction. A pre-job conference should be scheduled to include, but not be limited to, the Owner, Architect, Civil

Engineer, General Contractor, Earthwork and Materials Sub-Contractors, Building Official and Geotechnical Engineer. The recommendations presented in this report should be reviewed by all parties to discuss applicable specifications and testing requirements. At this time, any applicable material quality and mix design reports should be submitted for approval by the Geotechnical Engineer.

Pezonella Associates, Inc. has prepared this report based on certain assumptions concerning subsurface conditions at the Property. Pezonella Associates, Inc. should also provide on-site observations and testing during site preparations and grading, excavation, fill placement, foundation installation and paving. These observations will allow us to document that the soil conditions are as anticipated, and that the Contractor's work is in conformance with the intent of our recommendations and the approved plans and specifications. Our conclusions and recommendations may be invalidated, partially or in whole, by changes outside our control and by subsequent acts occurring on the site after field reconnaissance. This report may be subject to review and revision at any time. Opinions about the condition of the Property do not constitute a warranty of any kind.

VII DISTRIBUTION

Two wet stamped copies and one electronic copy to Addressee:

Mr. Matthew Rasmussen Tectonics Design Group 10451 Double R Blvd Reno, Nevada 89521 <u>matt@tdg-inc.com</u>

LIST OF ILLUSTRATIONS

- PLATE 1 SITE LOCATION PLAN
- PLATE 2 BORING LOCATION PLAN
- PLATE 3 LOG OF TEST BORING 1
- PLATE 4 LOG OF TEST BORING 2
- PLATE 5-LOG OF TEST BORING 3
- PLATE 6 LOG OF TEST BORING 4
- PLATE 7 SOIL CLASSIFICATION CHART AND KEY TO TEST DATA
- PLATE 8 PARTICLE SIZE DISTRIBUTION REPORTS WITH ATTERBERG LIMITS
- PLATE 9 PARTICLE SIZE DISTRIBUTION REPORTS WITH ATTERBERG LIMITS
- PLATE 10 PARTICLE SIZE DISTRIBUTION REPORTS WITH ATTERBERG LIMITS
- PLATE 11 CORROSION TEST RESULTS









• = Oversized Sampler • Particle Size Distribution Report with Atterberg Limits (See Plate 9) Corrosion Test Results (See Plate 11) • 60/		Dry Density (pcf)	(it) 10 10 15 20 25	LOG OF Equipment And S Elevation 5209 GRAY SILTY SAND (SM) WIT BROWN SILTY SAND (SM) WIT Very dense, moist BROWN SILTY SAND (SM) WIT Switched to Solid-Flight Au BROWN SILTY SAND (SM) WIT Sampler Refusal, Bouncing Total Depth= 13.5 feet No Free Water Encounts	55 Hollow Solid-Flig GRAVEL H GRAVEL H GRAVEL gers at 4.5 H GRAVEL	-Stem Auger ht Auger 11-24-15 FILL
Job No. 6098.14-A			BORING	LOG	Date:	12-17-15
Pezonella Associates, Inc Consulting Engineers 520 Edison Way Reno, Nevada 89502 PHONE (775) 856-5666 FAX (775) 856-8042	CROSS			BORHOOD COMMERCIAL & 152-921-02 EVADA	Pl	ate No. 5

Laboratory Tests and (Other Information)	Driving Resistance Blows/Ft.	Moisture Content (%)	Dry Density (pcf)	Depth (ft) Sample	LOG OF Equipment <u>CME</u> Elevation <u>5209</u> GRAY SILTY SAND (SM) WITH BROWN SILTY SAND (SM) WIT	55 Solid- Date GRAVEL	Flight Auger
	20/3" 36/12"			5 	BROWN SILTY SAND (SM) WIT very dense, moist BROWN SILTY SAND (SM) WIT dense, moist		
	55/11"			10	BROWN SILTY SAND (SM) WIT very dense, moist	H GRAVEL	
				20	Total Depth= 15 feet No Free Water Encount	ered	
				25			
Job No. 6098.14 Pezonella Associates, In Consulting Engineers 520 Edison Way Reno, Nevada 89 PHONE (776) 856-5565 FAX (776) 856	1C 502	CROSS			BORHOOD COMMERCIAL & 152-921-02	Date: Pl	12-17-15 ate No. 6

	MAJOR DIVISIONS				TYPICAL NAMES
		CLEAN GRAVELS	GW		WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES
0 ILS 0 SIEVE	GRAVELS	WITH LITTLE OR NO FINES	GP		PODRLY GRADED GRAVELS, GRAVEL-SAND MIXTURES
ED SC THAN #200	IS LARGER THAN No. 4 SIEVE SIZE	GRAVELS WITH	GM		SILTY GRAVELS, POORLY GRADED GRAVEL-SAND SILT MIXTURES
AINED		OVER 12% FINES	GC		CLAYEY GRAVELS, POORLY GRADED GRAVEL- SAND-CLAY MIXTURES
GR		CLEAN SANDS	SW		WELL GRADED SANDS, GRAVELLY SANDS
RSE THAN HALI	SANDS	WITH LITTLE OR NO FINES	SP		PODRLY GRADED SANDS, GRAVELLY SANDS
OA]	IS SMALLER THAN No. 4 SIEVE SIZE	SANDS WITH OVER 12% FINES	SM	· · · ·	SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
C	Ŭ		SC		CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
) ILS Disieve	·		ML		INDRGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
INED SOILS	SILTS AND CLAY		CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS SILTY CLAYS, LEAN CLAYS
NEI			OL		INDRGANIC CLAYS AND DRGANIC SILTY CLAYS DF LOW PLASTICITY
GRAINED Half is shaller T					INDRGANIC SILTS, MICACEDUS DR DIATOMACEDUS FINE SANDY DR SILTY SDILS, ELASTIC SILTS
Z SILIS AN		ID CLAYS	СН		INDRGANIC CLAYS DF HIGH PLASTICITY, FAT CLAYS
FIN]	FIN HORE TH		ОН		DRGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, DRGANIC SILTS

UNIFIED SOIL CLASSIFICATION SYSTEM







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EXHIBIT J



855 Mill Street, Suite 2B, Reno, NV 89502 | Phone: 775.284.3970 | Fax: 866.755.7619 NV Laboratory ID: NV00923 | EPA Laboratory ID: NV00923

Nevada Analytical Services

Contact: Company/Client:	Dean Stanphill Pezonella Associates, Inc.	Laboratory Report Id	lentification: 1115038
Address:	,	Submission Date:	11/25/2015
Address:	520 Edison Way	Submission Date:	
City:	Reno	Sampling Site:	Crossbow Court
State:	NV	Project:	6098.14A
Zip:	89502	Reference Number:	N/A
Phone:	(775) 856-5566	PO Number:	1682
Fax:	(775) 856-6042	Sampled By:	Client

Client Identification: Bulk 15-378 Boring 3, 1.5-3.5' Sampling Date: 11/24/2015 Laboratory Sample Control Number: 1115038-1 Matrix: Solid Date Reporting Limit Analyzed DL DF Analyses Description Result Units Method 12/10/2015 Sulfate ND 10 mg/Kg EPA 300.0 100 0.1 Reporting Date Limit Units Method Analyzed DF DL Analyses Description Result SM 2510 B 12/10/2015 Conductivity 1:10 Extraction 440 N/A µmhos/cm none Reporting Date Limit Analyzed Units Method DF DL Analyses Description Result 5.I.U. SM 4500-H+ B 12/10/2015 pH at 1:10 Extraction N/A pН 5.31

Remarks: None

1.1 Hucht

Michael R. Genova, Technical Director

References: mg/L: Milligrams/Liter (ppm) mg/kg: Milligrams/Kilogram (ppm) ppm: Parts per million * Analyzed by Contract Laboratory

12/10/2015

Reported analytical results relate only to the item(s) tested or to the sample(s) as received by the laboratory.

Date

ND: Not Detected at RL RL: Reporting Limit (calculation, RL = DF * DL) DF: Dilution Factor **DL: Detection Limit**

UL: Under Laboratory Established Limits

OL: Over Laboratory Established Limits

Laboratory Report Identification:

CORROSION REPORT Job No. 6098.14-A

Date: 12 - 17 - 15

Page 2 of 2 1115038

Pezonella Associates, Inc Consulting Engineers 520 Edison Way Reno, Nevada 89502 PHONE (775) 856-5566 FAX (775) 856-5042

CROSSBOW COURT NEIGHBORHOOD COMMERCIAL APN 152-921-01 & 152-921-02 **RENO, NEVADA**

Plate No. 11

SOLAEGUI ENGINEERS

March 19, 2020

Chris Bronczyk Washoe County Community Development P.O. Box 11130 Reno, Nevada 89520

Re: Connect Community Center Parking Review Letter

Dear Chris:

This letter contains the findings of our parking review of the proposed community center located on the northeast quadrant of the Arrowcreek Parkway / Crossbow Court intersection in Washoe County Nevada. The developer plans to construct a 15,300 square feet community center. The site plan and floor plan are attached. It contains 48 on-site parking spaces.

Parking calculations are based on Washoe County Parking Code. The land uses is community center. Table 1 shows the calculated parking demand based on county code. We do not know the number of employees at this time so the calculation is based on the building size only.

EXIS	TING PARKIN	TABLE 1 G DEMAND BASED ON COUN	TY CODE
LAND USE	SIZE	RATE	PARKING DEMAND
Community Center	15,300 Square Feet	5 spaces per 1,000 SF plus 1 per employee	77

As indicated in Table 1, the parking demand is 77 spaces. This is 29 spaces more than the number of parking spaces shown on the site plan.

Table 2 shows the modified calculated parking demand based on rates taken from the Fifth Edition of ITE Parking Generation. The use is categorized as Recreational Community Center ITE land use #495. The ITE calculation sheet is attached.

MOI	TABLE 2 MODIFIED PARKING DEMAND BASED ON ITE					
LAND USE	SIZE	RATE	PARKING DEMAND			
Community Center	15,500	2.07 Spaces Per 1000 Square Feet	32			

Solaegui Engineers Ltd. • 715 H Street • Sparks, Nevada 89431 • 775/358-1004 • FAX 775/358-1098

Civil & Traffic Engineers e-mail: psolaegui@aol.com
As indicated in Table 2, the total modified parking demand based on ITE rates is 32 spaces. This is 16 spaces less than the number of spaces provided on the site. The site plan shows adequate parking based on these modified parking demand calculations.

We trust that this information will be sufficient for your requirements. Please contact us if you have questions or comments.

Very truly yours, SOLAEGUI ENGINEERS LTD Paul W. Solaegui

Enclosures Letters/Connect Parking Letter



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Recreational Community Center (495)

Setting/Location:	Weekday (Monday - Friday) General Urban/Suburban 9:00 a.m 12:00 p.m.; 5:00 - 8:00 p.m. 10
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Peak Period Parking Demand per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
2.07	1.40 - 4.77	1.69 / 3.78	***	0.88 (43%)



Parking Generation Manual, 5th Edition • Institute of Transportation Engineers

Table 110.410.10.2

OFF-STREET PARKING SPACE REQUIREMENTS (Civic Use Types) (See Section 110.410.10 for explanation)

Civic Use Types (Section 110.304.20)		Spaces	Required
	Per 1,000 Square Feet Building Space	Per Employee During Peak Employment Shift	Other
Administrative Services	4		
Child Care			1 p
Child Daycare	1 if assembly hall included	1	1 off-street loading space for every 8 students
Family Daycare			1 in addition to any other required spaces
Large-Family Daycare		1	1 off-street loading space for every 8 students
Community Center	5	1	
Convalescent Services		1	.25 per bed
Cultural and Library Services	3	1	
Education			
College/University		1	.5 per student of driving age
Elementary/Secondary		1	.25 per student of driving age
Group Care		1	.25 per bed
Hospital Services		1	.5 per bed
Major Services and Utilities			
Major Public Facilities		As specified by use permit	
Utility Services		As specified by use permit	
Nature Center		As specified by use permit	
Parks and Recreation			
Active Recreation		1	
Passive Recreation		1	
Postal Services	2	1	
Public Parking Services		1	
Religious Assembly			1 per 3 seats or 72 lineal inches of pew space plus 1 per 300 square feet of additional public space
Safety Services		1	•

Washoe County Development Code PARKING AND LOADING

September 20, 2019 Page 410-3

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SOLAEGUI ENGINEERS, LTD

CONNECT NEIGHBORHOOD CENTER & GARDEN

TRAFFIC STUDY

MARCH 2020



Prepared by: Solaegui Engineers, Ltd. 715 H Street Sparks, Nevada 89431 (775) 358-1004

> WSUP20-0009 EXHIBIT J

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CONNECT NEIGHBORHOOD CENTER & GARDEN

TRAFFIC STUDY

EXECUTIVE SUMMARY

The proposed Connect Neighborhood Center & Garden development will be located in Washoe County, Nevada. The project site is located in the northeast corner of the Arrowcreek Parkway/ Crossbow Court intersection. The project site is currently undeveloped land. The purpose of this study is to address the project's impact upon the adjacent street network. The Arrowcreek Parkway/ Crossbow Court intersection and the existing Hunsburger Elementary School driveways and proposed project driveways on Crossbow Court have been identified for intersection capacity analysis for the existing, existing plus middle school, and existing plus middle school plus project scenarios. The AM peak hours from 7:00 to 8:00, 7:30 to 8:30, and 8:30 to 9:30 and the PM peak hours from 2:00 to 3:00, 3:00 to 4:00, and 4:30 to 5:30 PM were identified for analysis based on the standard AM and PM peak hours of the adjacent streets and the bell times for Hunsburger Elementary School, Sage Ridge School, and the proposed middle school.

The proposed Connect Neighborhood Center & Garden development will consist of the construction of a 12,900 square foot building with outdoor community garden and meditation grounds. Project access will be provided from two proposed driveways on Crossbow Court. The project is anticipated to generate 375 average daily trips with 61 trips occurring during the 7:00 to 8:00 AM and 7:30 to 8:30 AM study hours, 22 trips occurring during the 8:30 to 9:30 AM and 3:00 to 4:00 PM study hours, 12 trips occurring during the 2:00 to 3:00 PM study hour, and 52 trips occurring during the 4:30 to 5:30 PM study hour.

Traffic generated by the proposed Connect Neighborhood Center & Garden development will have some impact on the adjacent street network. The following recommendations are made to mitigate project traffic impacts.

It is recommended that any required signing, striping or traffic control improvements comply with Washoe County requirements.

It is recommended that the north project driveway on Crossbow Court be designed to operate with stop sign control at the driveway approach and include single ingress and egress lanes.

It is recommended that the south project driveway on Crossbow Court be designed to serve ingress-only movements and include a single one-way ingress lane.

It is recommended that project driveways, on-site roadways, and parking lot be designed to conform to Washoe County standards.

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It is recommended that adequate on-site signing and striping improvements be installed at the project driveways and internal roadways in order to inform motorists of their intended operation.

It is recommended that the project developers implement a pedestrian circulation plan that clearly shows the walking routes between the proposed Connect Neighborhood Center and Hunsburger Elementary and Sage Ridge schools.

INTRODUCTION

STUDY AREA

The proposed Connect Neighborhood Center & Garden development will be located in Washoe County, Nevada. The project site is located in the northeast corner of the Arrowcreck Parkway/ Crossbow Court intersection. Figure 1 shows the approximate location of the project site. The purpose of this study is to address the project's impact upon the adjacent street network. The Arrowcreek Parkway/Crossbow Court intersection and the existing Hunsburger Elementary School driveways and proposed project driveways on Crossbow Court have been identified for intersection capacity analysis for the existing, existing plus middle school, and existing plus middle school plus project scenarios. The AM peak hours from 7:00 to 8:00, 7:30 to 8:30, and 8:30 to 9:30 and the PM peak hours from 2:00 to 3:00, 3:00 to 4:00, and 4:30 to 5:30 PM were identified for analysis based on the standard AM and PM peak hours of the adjacent streets and the bell times for Hunsburger Elementary School, Sage Ridge School, and the proposed middle school.

EXISTING AND PROPOSED LAND USES

The project site is currently undeveloped land. Adjacent properties generally consist of Hunsburger Elementary School to the west, Sage Ridge School to the north, a middle school that is currently under construction to the east, and single family homes to the south. The proposed Connect Neighborhood Center & Garden development will consist of the construction of a 12,900 square foot building with outdoor community garden and meditation grounds. Project access will be provided from two proposed driveways on Crossbow Court.

EXISTING AND PROPOSED ROADWAYS AND INTERSECTIONS

Arrowcreek Parkway is a four-lane roadway with two through lanes in each direction in the vicinity of the site. The speed limit is posted for 35 miles per hour with a 15 mile per hour school speed limit zone near the intersection with Crossbow Court. Roadway improvements include curb, gutter, sidewalk, and a bike lane on both sides of the street with a wide, raised center median.

Crossbow Court is a two-lane roadway with one through lane in each direction north of Arrowcreek Parkway. The regulatory speed limit is not posted but 15 mile per hour school speed limit zones exist near Hunsburger Elementary School and Sage Ridge School. Roadway improvements generally include curb, gutter, and sidewalk on both sides of the street with a short striped centerline near Arrowcreek Parkway.

The Arrowcreek Parkway/Crossbow Court intersection is an unsignalized three-leg intersection with stop sign control at all approaches. The north approach contains one left turn lane and one right turn lane. The east approach contains two through lanes and one exclusive right turn lane. The west approach contains one exclusive left turn lane and two through lanes. Striped crosswalks exist at the north and west approaches.





CONNECT NEIGHBORHOOD CENTER & GARDEN VICINITY MAP FIGURE 1

WSUP20-0009 EXHIBIT J

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The Crossbow Court/North Hunsburger Elementary School Driveway intersection is an unsignalized three-leg intersection with stop sign control at the west approach. The intersection contains one shared through-right turn lane at the north approach, one shared left turn-through lane at the south approach, and one shared left turn-right turn lane at the west approach. A striped crosswalk exists at the west approach.

The Crossbow Court/South Hunsburger Elementary School Driveway intersection is currently an unsignalized three-leg intersection with stop sign control at the west approach. The intersection contains one shared through-right turn lane at the north approach, one shared left turn-through lane at the south approach, and two striped right turn lanes at the west approach. A striped crosswalk exists at the west approach. With development of the project this intersection will be improved as a four-leg intersection with the addition of the south project driveway at the east approach. The south project driveway will serve ingress-only movements.

The Crossbow Court/North Project Driveway intersection does not currently exist but will be constructed as an unsignalized three-leg intersection with stop sign control at the east approach with development of the project. The intersection is anticipated to contain one shared left turn-through lane at the north approach, one shared through-right turn lane at the south approach, and one shared left turn-right turn lane at the east approach.

TRIP GENERATION

In order to assess the magnitude of traffic impacts of the proposed project on the key intersections, study hours and trip generation rates had to be determined. The AM peak hours from 7:00 to 8:00, 7:30 to 8:30, and 8:30 to 9:30 and the PM peak hours from 2:00 to 3:00, 3:00 to 4:00, and 4:30 to 5:30 PM were identified for analysis based on the standard AM and PM peak hours of the adjacent streets and the bell times for Hunsburger Elementary School, Sage Ridge School, and the proposed middle school.

The 7:00 to 8:00 AM study period is within the standard morning peak hour period and is the morning peak hour for the proposed middle school. The 7:30 to 8:30 AM study period is also within the standard morning peak hour period and is the morning peak hour for Sage Ridge School. The 8:30 to 9:30 AM period is the morning peak hour for Hunsburger Elementary School. The 2:00 to 3:00 PM study period is the afternoon peak hour for the proposed middle school. The 3:00 to 4:00 PM study period is the afternoon peak hour for both Hunsburger Elementary School and Sage Ridge School. The 4:30 to 5:30 PM study period is the standard afternoon peak hour of the adjacent streets.

Trip generation for the project was calculated based on information obtained from the Tenth Edition of *ITE Trip Generation* (2018) for Land Use 495: Recreational Community Center. Trip generation for an average weekday and the standard peak hours were calculated based on the trip generation equations obtained from *ITE Trip Generation*. Trip generation for the 8:30 to 9:30 AM, 2:00 to 3:00 PM, and 3:00 to 4:00 PM study periods were calculated based on hourly percentages of daily traffic for the Recreational Community Center land use. The daily traffic percentages were obtained from *ITE Trip Generation*.

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Table 1 shows a summary of the average daily traffic (ADT) volume and AM and PM peak hour volumes generated by the project. The trip generation summary sheets are included in the Appendix.

				TRI	TABL P GENE	Contract Contractor	ON						
			AM	STUE	ру нос	IRS			PM	STUE	Y HOU	RS	
		7:00	-8:00	7:30	-8:30	8:30	-9:30	2:00)-3:00	3:00	-4:00	4:30)-5:30
LAND USE	ADT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
Community Center 12,900 S.F.	375	40	21	40	21	14	8	6	6	10	12	24	28

The project is anticipated to generate 375 average daily trips with 61 trips occurring during the 7:00 to 8:00 AM and 7:30 to 8:30 AM study hours, 22 trips occurring during the 8:30 to 9:30 AM and 3:00 to 4:00 PM study hours, 12 trips occurring during the 2:00 to 3:00 PM study hour, and 52 trips occurring during the 4:30 to 5:30 PM study hour.

TRIP DISTRIBUTION AND ASSIGNMENT

The distribution of the project trips to the key intersections was based on existing peak hour traffic patterns and the locations of attractions and productions in the area. Figure 2 shows the estimated trip distribution for the project trips. The peak hour trips shown in Table 1 were subsequently assigned to the key intersections based on the trip distribution percentages. Figures 3 shows the trip assignment at the key intersections for the AM and PM study hours.

EXISTING AND PROJECTED TRAFFIC VOLUMES

Figure 4 shows the existing traffic volumes at the key intersections during the AM and PM study hours. The existing traffic volumes were obtained from manual counts conducted on a typical school day in March of 2020. Figure 5 shows the existing plus middle school traffic volumes at the key intersections during the AM and PM study periods. The existing plus middle school traffic volumes were obtained by adding trips generated by the proposed middle school to the existing traffic volumes. The trips generated by the middle school for the 7:00 to 8:00 AM, 2:00 to 3:00 PM, and 4:30 to 5:30 PM peak hour periods were obtained from the Arrowcreek Middle School Updated Traffic Study dated March of 2018. The middle school traffic volumes for the 7:30 to 8:30 AM, 8:30 to 9:30 AM, and 3:00 to 4:00 PM study hours were calculated based on hourly percentages of daily traffic for the Middle School land use as obtained from *ITE Trip Generation*. Figure 6 shows the existing plus middle school plus project traffic volumes at the key intersections during the AM and PM study hours were obtained from *ITE Trip Generation*. Figure 6 shows the existing plus middle school plus project traffic volumes at the key intersections during the AM and PM study periods. The existing plus middle school plus project traffic volumes at the key intersections during the AM and PM study periods. The existing plus middle school plus project traffic volumes at the key intersections during the AM and PM study periods. The existing plus middle school plus project traffic volumes were obtained by adding the trip assignment volumes shown on Figure 3 to the existing plus middle school traffic volumes shown on Figure 5.

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TRIP DISTRIBUTION FIGURE 2

CONNECT NEIGHBORHOOD CENTER & GARDEN



LEGEND

KEY INTERSECTIONS





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INTERSECTION CAPACITY ANALYSIS

The key intersections were analyzed for capacity based on procedures presented in the *Highway Capacity Manual (6th Edition)*, prepared by the Transportation Research Board, for unsignalized intersections using the latest version of the Highway Capacity software. The result of capacity analysis is a level of service (LOS) rating for all-way stop controlled intersections and minor movements at partial stop controlled intersections. Level of service is a qualitative measure of traffic operating conditions where a letter grade "A" through "F", corresponding to progressively worsening traffic operation, is assigned to the intersection or minor movement.

The *Highway Capacity Manual* defines level of service for partial stop controlled intersections in terms of computed or measured control delay for each minor movement. Level of service is not defined for the partial stop controlled intersection as a whole. Level of service is defined for an all-way stop controlled intersection as a whole. The level of service criteria for unsignalized intersections is shown in Table 2.

LEVEL OF SERVICE CRITI	TABLE 2 ERIA FOR UNSIGNALIZED INTERSECTIONS
LEVEL OF SERVICE	DELAY RANGE (SEC/VEH)
A	≤10
В	>10 and ≤15
C	>15 and ≤25
D	>25 and ≤35
E	>35 and ≤50
F	>50

Table 3A shows a summary of the level of service and delay results at the key intersections for the existing conditions. The capacity analysis worksheets are included in the Appendix.

INTERSI	ECTION LEVE EXI:	TABLE 3 L OF SERVI STING CONI	CE AND DE	LAY RESUL	JLTS			
	AM	STUDY HO	URS	PM	STUDY HO	URS		
INTERSECTION	7:00-8:00	7:30-8:30	8:30-9:30	2:00-3:00	3:00-4:00	4:30-5:30		
Arrowcreek/Crossbow	B12.0	B14.9	B14.0	A8.6	C15.9	A9.4		
Crossbow/South School Dwy EB Left-Right NB Left	A9.6 A7.8	B10.4 A8.0	B10.7 A8.0	A8.4 A7.3	B12.9 A8.4	A9.4 A7.6		
Crossbow/North School Dwy EB Left-Right NB Left	A0.0 A7.7	A9.6 A7.9	A9.2 A7.8	A0.0 A7.2	B10.5 A8.1	A8.9 A7.4		

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Table 3B shows a summary of the level of service and delay results at the key intersections for the existing plus middle school scenario. The capacity analysis worksheets are included in the Appendix.

INTERS	TABLE 3B ERSECTION LEVEL OF SERVICE AND DELAY RESULTS EXISTING PLUS MIDDLE SCHOOL					
	AM	STUDY HO	URS	PM	STUDY HO	URS
INTERSECTION	7:00-8:00	7:30-8:30	8:30-9:30	2:00-3:00	3:00-4;00	4:30-5:30
Arrowcreek/Crossbow	C15.3	C16.4	B14.2	A9.4	C18.1	Λ9.7
Crossbow/South School Dwy EB Left-Right NB Left	B11.1 A8.3	B11.0 A8.2	B10.9 A8.0	A8.7 A7.4	B14.1 A8.7	A9.8 A7.8
Crossbow/North School Dwy EB Left-Right NB Left	A0.0 A8.1	B10.0 A8.1	A9.2 A7.9	Λ0.0 Λ7.4	B11.1 A8.3	A9.1 A7.5

Table 3C shows a summary of the level of service and delay results at the key intersections for the existing plus middle school plus project scenario. The capacity analysis worksheets are included in the Appendix.

	LAY RESUL PROJECT	LTS				
	AM	STUDY HO	URS	PM	STUDY HO	URS
INTERSECTION	7:00-8:00	7:30-8:30	8:30-9:30	2:00-3:00	3:00-4:00	4:30-5:30
Arrowcreek/Crossbow	C17.6	C19.5	B14.8	A9.5	C19.3	B10,1
Crossbow/South School Dwy/ South Project Driveway EB Left-Right NB Left	B11.4 A8.4	B11.4 A8.3	B11.0 A8.0	A8.8 A7.4	B14.5 A8.8	B10.2 A7.9
Crossbow/North School Dwy EB Left-Right NB Left	A0.0 A8.3	B10.3 A8.2	А9.3 А7.9	A0.0 A7.4	B11.4 A8.3	A9.3 A7.5
Crossbow/North Project Dwy WB Left-Right SB Left	B13.5 A0.0	B12.0 A0.0	A8.9 A0.0	A9.5 A0.0	B10.9 A0.0	B10.0 A0.0

Arrowcreek Parkway/Crossbow Court Intersection

The Arrowcreek Parkway/Crossbow Court intersection was analyzed as an unsignalized three-leg intersection with all-way stop control for all scenarios. The intersection currently operates at LOS C or better during each of the AM and PM peak hour study periods. For the existing plus middle school traffic volumes the intersection is anticipated to operate at LOS C or better during each of the AM and PM peak hour study periods. For the existing plus middle school plus project traffic volumes the intersection is anticipated to operate at LOS C or better during each of the AM and PM peak hour study periods. For the existing plus middle school plus project traffic volumes the intersection is anticipated to operate at LOS C or better during each of the AM and PM peak hour study periods. The intersection was analyzed with the existing approach lanes for all scenarios. In summary, the intersection capacity results indicate acceptable operation, LOS C or better, during each of the AM and PM peak hour study periods for all scenarios. It should be noted that there were periods of congestion and additional delay at the intersection due to Hunsburger Elementary School. However, these periods were of short duration and are typical of elementary schools in the area. The peak hour factor used in the intersection capacity analysis accounted for the peak 15-minute traffic flows attributed to the school.

Crossbow Court/South Hunsburger Elementary School Driveway Intersection

The Crossbow Court/South Hunsburger Elementary School Driveway intersection was analyzed as an unsignalized three-leg intersection with stop control at the west approach for the existing and existing plus middle school scenarios. The intersection minor movements currently operate at LOS B or better during each AM and PM peak hour study period. For the existing plus middle school traffic volumes the intersection minor movements continue to operate at LOS B or better during each AM and PM peak hour study period. The three-leg intersection was analyzed with the existing approach lanes. The Crossbow Court/South Hunsburger Elementary School Driveway/ South Project Driveway intersection was subsequently analyzed as an unsignalized four-leg intersection for the existing plus middle school plus project scenario and is anticipated to operate at LOS B or better during each AM and PM peak hour study period. The four-leg intersection was analyzed with single lanes at the north, south and west approaches. In summary, the intersection capacity results indicate acceptable operation, LOS C or better, during each of the AM and PM peak hour study periods for all scenarios. Again, it should be noted that there were periods of congestion and additional delay at the driveway directly before the starting bell and directly after the dismissal bell. However, these periods were of short duration and are typical of elementary schools in the area. The peak hour factor used in the intersection capacity analysis accounted for the peak 15minute traffic flows attributed to the school.

Crossbow Court/North Hunsburger Elementary School Driveway Intersection

The Crossbow Court/North Hunsburger Elementary School Driveway intersection was analyzed as an unsignalized three-leg intersection with stop control at the west approach for all scenarios. The intersection minor movements currently operate at LOS B or better during each AM and PM peak hour study period. For the existing plus middle school traffic volumes the intersection minor movements are anticipated to operate at LOS B or better during each AM and PM peak hour study period. For the existing plus middle school plus project traffic volumes the intersection minor movements are anticipated to continue to operate at LOS B or better during each AM and PM peak hour study period. The intersection was analyzed with the existing approach lanes for all scenarios.

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In summary, the intersection capacity results indicate acceptable operation, LOS C or better, during each of the AM and PM peak hour study periods for all scenarios. Again, it should be noted that there were periods of congestion and additional delay at the driveway directly before the starting bell and directly after the dismissal bell. However, these periods were of short duration and are typical of elementary schools in the area. The peak hour factor used in the intersection capacity analysis accounted for the peak 15-minute traffic flows attributed to the school.

Crossbow Court/North Project Driveway Intersection

The Crossbow Court/North Project Driveway intersection was analyzed as an unsignalized threeleg intersection with stop control at the east approach for the existing plus middle school plus project scenario. The intersection minor movements are anticipated to operate at LOS B or better during each of the AM and PM peak hour study periods. The three-leg intersection was analyzed with single lanes at all approaches.

SCHOOL PEDESTRIAN REVIEW

Existing school pedestrians were reviewed during each of the AM and PM study periods. Site observations indicated very little pedestrian activity during the various study periods except for the 8:30 to 9:30 AM and 3:00 to 4:00 PM study periods which correspond to the morning and afternoon peak hours of Hunsburger Elementary School. Existing counts showed 23 pedestrians crossing the west leg and 2 pedestrians crossing the north leg of the Arrowcreek Parkway/Crossbow Court intersection before school and 26 pedestrians crossing the west leg and 5 pedestrians crossing the north leg after school. Hunsburger Elementary School staff performed crossing guard duties at the intersection with the majority of students required to wait so that the crossing was completed in a large group. The school staff provided a managed crossing of Arrowcreek Parkway with little disruption in traffic operation. It should be noted that all elementary school pedestrians were observed using the dirt pedestrian path that runs from the school's interior sidewalk system to the northwest corner of the Arrowcreek Parkway/Crossbow Court intersection. No school pedestrians were observed crossing the existing school driveways on the west side of Crossbow Court.

The proposed Connect Neighborhood Center development is also anticipated to generate school pedestrians. It is our understanding that approximately 25 students that attend either Hunsburger Elementary School or Sage Ridge School will utilize the Connect Neighborhood Center's before and after school programs. The students that are enrolled in the before school program will arrive with a parent who will attend a concurrent adult program. Upon completion of the program the parent will walk their child to either Hunsburger Elementary School or Sage Ridge School, walk back to the center, and then depart the site in their vehicle. The students who are enrolled in the after school program will be picked up at either Hunsburger Elementary School or Sage Ridge School by their parent who has previously parked the vehicle in the Connect Neighborhood Center's parking lot. The child and parent will walk together back to the center and depart in their vehicle. It is anticipated that parents will not be permitted to drive back and forth between the center and the adjacent schools. All children walking between the project and the adjacent schools will be accompanied by an adult.

A pedestrian crosswalk currently exists at the north leg of the Arrowcreek Parkway/Crossbow Court intersection which should be utilized to access Hunsburger Elementary School. A pedestrian crosswalk also exists at the south leg of the Crossbow Court/South Sage Ridge School driveway intersection which could be utilized to access Sage Ridge School. However, the middle school's proposed driveway is anticipated to intersect Crossbow Court at this location which may result in the relocation or elimination of the pedestrian crosswalk. It is therefore suggested that all pedestrian activity between Connect Neighborhood Center and Hunsburger Elementary School and Sage Ridge School utilize the existing pedestrian crosswalk at the north leg of the Arrowcreek Parkway/Crossbow Court intersection. It is recommended that the project developers implement a pedestrian circulation plan that clearly shows the walking routes between the proposed Connect Neighborhood Center and Sage Ridge School.

SITE PLAN REVIEW

A copy of the conceptual site plan for the proposed Connect Neighborhood Center & Garden development is included in this submittal. The site plan indicates that project access will be provided from two proposed driveways on Crossbow Court. The project driveways were subsequently reviewed for spacing based on Washoe County development standards. Crossbow Court appears to have a 52 feet right-of way width which signifies a collector designation per Washoe County street design standards. Washoe County Street Design Standards indicate that the center to center spacing for driveways on commercial collectors shall be a minimum of 50 feet. The site plan indicates that the south project driveway will generally align with the southerly Hunsburger Elementary School driveway and be located ± 225 feet north of Arrowcreek Parkway and ± 150 south of the northerly Hunsburger Elementary School driveway. The north project driveway will be located ± 240 feet north of the northerly Hunsburger Elementary School driveway and more than 350 feet south of the adjacent Sage Ridge School driveway. The proposed project driveways will meet Washoe County's 50 foot spacing requirement.

The site plan indicates that the south project driveway will serve ingress-only movements and the north project driveway will serve full turning movements. An on-site roadway will provide a connection between the two driveways and will also provide direct access to the project's parking lot. The on-site roadway will be a one-way ingress only street between the south project driveway on Crossbow Court and the north parking lot access and then transition to a two-way street between the north parking lot access and the north project driveway on Crossbow Court. The parking lot will also serve two-way traffic. The project driveways, on-site roadways, and parking lot are anticipated to provide good access and internal circulation. It is recommended that project driveways, on-site roadways, and parking lot be designed to conform to Washoe County standards. It is recommended that adequate signing and striping improvements be installed at the project driveways and on-site roadways in order to inform motorists of their intended operation.

RECOMMENDATIONS

Traffic generated by the proposed Connect Neighborhood Center & Garden development will have some impact on the adjacent street network. The following recommendations are made to mitigate project traffic impacts.

It is recommended that any required signing, striping or traffic control improvements comply with Washoe County requirements.

It is recommended that the north project driveway on Crossbow Court be designed to operate with stop sign control at the driveway approach and include single ingress and egress lanes.

It is recommended that the south project driveway on Crossbow Court be designed to serve ingress-only movements and include a single one-way ingress lane.

It is recommended that project driveways, on-site roadways, and parking lot be designed to conform to Washoe County standards.

It is recommended that adequate on-site signing and striping improvements be installed at the project driveways and internal roadways in order to inform motorists of their intended operation.

It is recommended that the project developers implement a pedestrian circulation plan that clearly shows the walking routes between the proposed Connect Neighborhood Center and Hunsburger Elementary and Sage Ridge schools.

APPENDIX

SOLAEGUI ENGINEERS, LTD.

WSUP20-0009 EXHIBIT J

Recreational Community Center (495)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA On a: Weekday

1.	Setting/Location:	General Urban/Suburban	12
	Number of Studies:	4	
	Avg. 1000 Sq. Ft. GFA:	78	
		50% entering, 50% exiting	

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
28.82	21.49 - 36.71	8.56

Caution - Small Sample Size



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	ommunity Center 95)
Vehicle Trip Ends vs:	
On a:	
	Peak Hour of Adjacent Street Traffic,
	One Hour Between 7 and 9 a.m.
Setting/Location:	General Urban/Suburban
Number of Studies:	10
Avg. 1000 Sq. Ft. GFA:	113
	66% entering, 34% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA



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	ommunity Center 95)
Vehicle Trip Ends vs:	1000 Sq. Ft. GFA
On a:	Weekday,
	Peak Hour of Adjacent Street Traffic,
	One Hour Between 4 and 6 p.m.
Setting/Location:	General Urban/Suburban
Number of Studies:	13
Avg. 1000 Sq. Ft. GFA:	132
Directional Distribution:	47% entering, 53% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
2.31	1.05 - 5.37	1.14



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DESIGN GROUP





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Washoe County

West Elevations

CONNECT NEIGHBORHOOD CENTER 8





Conceptual North &



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Washoe County

CONNECT NEIGHBORHOOD CENTER







Conceptual Section



BUILDING SECTION







Washoe County

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LANDSCAPE REQUIREMENTS

Total Gross SF Of Entire Project Site	3 Acres = 79,160-SF
Total Net SF Of Landscape Area	40,831-SF
Total Min. Required Landscape	15,832-SF
Total Trees Provided In Landscape Areas	65
1 Tree Per 300-Sf of Required Landscape Area	53
 1 Tree Per 10 Parking Spaces Required (46) 	S
 1 Tree Per 50'-LF Street Trees (1,030-lf) 	21

 Total Shrubs/Perennials Provided In Landscape
 338

 Total Shrubs Required - 50% Coverage after 1 year, 100% coverage after 5

All Plant Material To Be Watered With Drip Irrigation On An Automatic Irrigation System

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SYMBOL		의	<u>QTY</u>	MANUFACTURER	MODEL #	LAMP TYPE	VOLTAGE	WATTAGE	MOUNTING HEIGHT	DESCRIPTION	
		P1	10	EIKO	VRT2-380-C5-740-U-D-T3-BZ	LED	120/277	300W	28 FT	PARKING LOT SITE POLE HEAD, LED 300W, 38000LM, 4000K, BRONZE, TYPE III DISTRIBUTION, WITH A 25FT BRONZE POLE, VERIFY PER LOCAL REQUIREMENTS PRIOR TO ORDERING - WATTS/LUENS, KELVIN LIGHT TEMPERATURE, TYPE DIST. MOUNTING CONFIG. FOR SINGLE HEAD, COLOR AND HEIGHT. VEIFY COLOR/HEIGHT BEFORE ORDERING.	
	0	A. INS B. VEF C. LIG	TALLATION RIFY THE EX HT FIXTURE	OF LIGHT FIXTUR ACT MOUNTING H S SHALL BE PRO	KES SHALL BE ACCORDING HEIGHT AND FINISH OF ALL VIDED BY THE ELECTRICAL	TO MANUF/ LIGHTING F	ACTURER FIXTURES TOR.	S RECOM	MENDATI CHITECT	 A. INSTALLATION OF LIGHT FIXTURES SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND RENO MUNICIPAL CODE REQUIREMENTS. B. VERIFY THE EXACT MOUNTING HEIGHT AND FINISH OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO PLACING ORDER OR COMMENCING ROUGH-IN. C. LIGHT FIXTURES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. 	

DRAWN: SCOTT GARRISON DESIGNED: SCOTT GARRISON CHECKED/STAMPED: SCOTT GARRISON	GERGINEGERING, CONSULTING B05-540-0621 805-540-0621 www.gecengineering.com	Reno, Nevada		DAIE: SUBMITTAL 5/13/20 INITTAL RELEASE	OUTDOOR LIGHTING PLAN EP-1.0
:9MAT2	DESIGNEK:		РRОЈЕСТ/СЦЕИТ:	SUBMITTAL RECORD:	SHEET: SHEET TITLE:



PRELIMINARY JOT FOR CONSTRUCTION

LIGHTING SCHEDL

PRELIMINARY	OT FOR CONSTRUCTION
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DRAWN: SCOTT GARRISON DESIGNED: SCOTT GARRISON CHECKED/STAMPED: SCOTT GARRISON	GERRISON ENGINEERING & CONSULTING 8250 WILLOW RANCH TRAIL REND, NV 89523 805-540-0621 www.gecengineering.com	Reno, Nevada Reno, Nevada	DATE:	5/13/20 INITIAL RELEASE	PHOTOMETRIC PLAN	EP-2.0
:9MAT2	DESIGNER:		РRОЈЕСТ/СLIENT:	SUBMITTAL RECORD:	SHEET TITLE:	:T33HS





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