

Community Services Department  
Planning and Building  
**ADMINISTRATIVE PERMIT APPLICATION**  
**(Care for the Infirm see page 9)**



Community Services Department  
Planning and Building  
1001 E. Ninth St., Bldg. A  
Reno, NV 89520

Telephone: 775.328.6100

## 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.

<b>Project Information</b>		Staff Assigned Case No.: _____	
Project Name: <b>Sun Valley Center</b>			
Project Description: Manufacture and install (1) 30' double faced illuminated pylon sign. Remove existing double faced pylon sign.			
Project Address: 5055 Sun Valley Blvd.			
Project Area (acres or square feet): 184 sq. ft.			
Project Location (with point of reference to major cross streets <b>AND</b> area locator): <b>Sun Valley Blvd.</b>			
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s):	Parcel Acreage:
035-120-26	4.45		
Section(s)/Township/Range:			
Indicate any previous Washoe County approvals associated with this application: Case No.(s).			
<b>Applicant Information (attach additional sheets if necessary)</b>			
<b>Property Owner:</b> Sun Valley Center LLC		<b>Professional Consultant:</b>	
Name: John Desiderio		Name:	
Address: 1181 W. Island Dr.		Address:	
Chandler, AZ	Zip: 85248		Zip:
Phone:	Fax:	Phone:	Fax:
Email:		Email:	
Cell:	Other:	Cell:	Other:
Contact Person:		Contact Person:	
<b>Applicant/Developer:</b>		<b>Other Persons to be Contacted:</b>	
Name: YESCO, LLC		Name:	
Address: 800 B Bennie Ln.		Address:	
Reno, NV	Zip: 89512		Zip:
Phone: 775-284-8109	Fax: 359-8738	Phone:	Fax:
Email: tballingham@yesco.com / mstevens@yesco.com		Email:	
Cell: 775-722-5101	Other:	Cell:	Other:
Contact Person: Trevor Ballingham / Mark Stevens		Contact Person:	
<b>For Office Use Only</b>			
Date Received:	Initial:	Planning Area:	
County Commission District:		Master Plan Designation(s):	
CAB(s):		Regulatory Zoning(s):	

Property Owner Affidavit

Applicant Name: Sun Valley Center LLC

The receipt of this application at the time of submittal does not guarantee the application complies with all requirements of the Washoe County Development Code, the Washoe County Master Plan or the applicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will be processed.

STATE OF Arizona )  
~~NEVADA~~ )  
COUNTY OF Maricopa )  
~~WASHOE~~ )

John Desiderio  
(please print name)

being duly sworn, depose and say that I am the owner\* of the property or properties involved in this application as listed below and that the foregoing statements and answers herein contained and the information herewith submitted are in all respects complete, true, and correct to the best of my knowledge and belief. I understand that no assurance or guarantee can be given by members of Planning and Building.

(A separate Affidavit must be provided by each property owner named in the title report.)

Assessor Parcel Number(s): 35-120-26

Printed Name John Desiderio

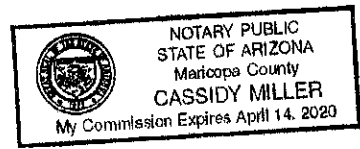
Signed [Signature]

Address 1181 W Island Dr  
Chandler AZ 85248

Subscribed and sworn to before me this 9<sup>th</sup> day of November, 2017.

(Notary Stamp)

Cg  
Notary Public in and for said county and state  
My commission expires: 4/14/20



\*Owner refers to the following: (Please mark appropriate box.)

- Owner
- Corporate Officer/Partner (Provide copy of record document indicating authority to sign.)
- Power of Attorney (Provide copy of Power of Attorney.)
- Owner Agent (Provide notarized letter from property owner giving legal authority to agent.)
- Property Agent (Provide copy of record document indicating authority to sign.)
- Letter from Government Agency with Stewardship

July 1, 2017

# Property Owner Affidavit

**Applicant Name:** Denise Desiderio Schula

The receipt of this application at the time of submittal does not guarantee the application complies with all requirements of the Washoe County Development Code, the Washoe County Master Plan or the applicable area plan, the applicable regulatory zoning, or that the application is deemed complete and will be processed.

STATE OF NEVADA     )  
                                  )  
COUNTY OF WASHOE    )

Denise Desiderio Schula  
(please print name)

being duly sworn, depose and say that I am the owner\* of the property or properties involved in this application as listed below and that the foregoing statements and answers herein contained and the information herewith submitted are in all respects complete, true, and correct to the best of my knowledge and belief. I understand that no assurance or guarantee can be given by members of Planning and Building.

**(A separate Affidavit must be provided by each property owner named in the title report.)**

Assessor Parcel Number(s): 35-120-26

Printed Name Denise Desiderio-Schula

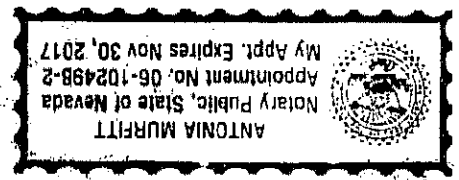
Signed [Signature]

Address 9101 Timothy Dr  
Reno, NV 89511

Subscribed and sworn to before me this 21st day of November, 2017

Antonia Murriff  
Notary Public in and for said county and state

My commission expires: 11/30/2017



\*Owner refers to the following: (Please mark appropriate box.)

- Owner
- Corporate Officer/Partner (Provide copy of record document indicating authority to sign.)
- Power of Attorney (Provide copy of Power of Attorney.)
- Owner Agent (Provide notarized letter from property owner giving legal authority to agent.)
- Property Agent (Provide copy of record document indicating authority to sign.)
- Letter from Government Agency with Stewardship

New Pylon Sign - Sun Valley - Special Use Permit July 1, 2017



## Administrative Permit Application Supplemental Information

(All required information may be separately attached)

Chapter 110 of the Washoe County Code is commonly known as the Development Code. Specific references to administrative permits may be found in Article 808, Administrative Permits.

1. What is the type of project or use being requested?

New pylon sign for Sun Valley Center.

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

Unimproved dirt planter.

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

Concrete sign footing. Time frame 60 days from permit issuance.

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

Anticipated start date will be February 15, 2018 and completion March 1, 2018.

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

N/A

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

1. To increase individual business identity/ location in the shopping center.
2. Upgrade shopping center image with newer more modern site identification.
3. Removing existing high voltage neon sign at entrance of property.
4. New sign is set-back between each entrance to the property.
5. Give each individual business within shopping center access to signage on Sun Valley Blvd.

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

1. Proper lighting controls installed.
2. Minimal effect on adjacent properties the proposed sign does not have animation or flashing capabilities. Lighting to be contained on property.

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

Lighting controls to be placed per Washoe County Sign Code.

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

N/A current parking will not be impacted.

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

N/A current vegetation will not be impacted.

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

See Attached Prints.



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

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
------------------------------	--

13. Utilities:

a. Sewer Service	N/A
b. Water Service	N/A

For most uses, the 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:

c. Permit #	N/A	acre-feet per year	N/A
d. Certificate #	N/A	acre-feet per year	N/A
e. Surface Claim #	N/A	acre-feet per year	N/A
f. Other, #	N/A	acre-feet per year	N/A

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

N/A
-----

Account Detail

[Back to Account Detail](#)
[Change of Address](#)
[Print this Page](#)

Washoe County Parcel Information		
Parcel ID	Status	Last Update
03512026	Active	12/8/2017 2:10:31 AM
<b>Current Owner:</b> SUN VALLEY CENTER LLC C/O LORRAINE A DESIDERIO 2170 SKYLINE BLVD RENO, NV 89509		<b>SITUS:</b> 5055 SUN VALLEY BLVD BLDG A WASHOE COUNTY NV
<b>Taxing District</b>	<b>Geo CD:</b>	
Legal Description		
Township 20 Lot A Block Section SubdivisionName _UNSPECIFIED Range 20		

Tax Bill (Click on desired tax year for due dates and further details)					
Tax Year	Net Tax	Total Paid	Penalty/Fees	Interest	Balance Due
2017	\$16,220.35	\$8,144.59	\$0.00	\$0.00	\$8,075.76
2016	\$15,795.68	\$15,795.68	\$0.00	\$0.00	\$0.00
2015	\$15,927.48	\$15,927.48	\$0.00	\$0.00	\$0.00
2014	\$15,442.46	\$15,442.46	\$0.00	\$0.00	\$0.00
2013	\$14,991.68	\$14,991.68	\$0.00	\$0.00	\$0.00
Total					\$8,075.76

**Important Payment Information**

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

**Pay Online**

Payments will be applied to the oldest charge first.

Select a payment option:

Total Due \$8,075.76  
 Oldest Due \$4,037.88  
 Partial

[ADD TO CART](#)

**\$0.00**

**Pay By Check**

Please make checks payable to:  
WASHOE COUNTY TREASURER

Mailing Address:  
P.O. Box 30039  
Reno, NV 89520-3039

Overnight Address:  
1001 E. Ninth St., Ste D140  
Reno, NV 89512-2845



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

Bill Detail

[Back to Account Detail](#)

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**Pay By Check**

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**WASHOE COUNTY TREASURER**

**Mailing Address:**  
P.O. Box 30039  
Reno, NV 89520-3039

**Overnight Address:**  
1001 E. Ninth St., Ste D140  
Reno, NV 89512-2845

**Change of Address**

All requests for a mailing address change must be submitted in writing, including a signature (unless using the online form).

To submit your address change online [click here](#)

Address change requests may also be faxed to: (775) 328-2500

Address change requests may also be mailed to:  
Washoe County Treasurer  
P O Box 30039  
Reno, NV 89520-3039

**Washoe County Parcel Information**

Parcel ID	Status	Last Update
03512026	Active	12/8/2017 2:10:31 AM
<b>Current Owner:</b> SUN VALLEY CENTER LLC 2170 SKYLINE BLVD RENO, NV 89509		<b>SITUS:</b> 5055 SUN VALLEY BLVD BLDG A WASHOE COUNTY NV
<b>Taxing District</b>	<b>Geo CD:</b>	<b>Legal Description</b>
Township 20 Lot A Block Section SubdivisionName _UNSPECIFIED Range 20		

**Installments**

Period	Due Date	Tax Year	Tax	Penalty/Fee	Interest	Total Due
INST 1	8/21/2017	2017	\$0.00	\$0.00	\$0.00	\$0.00
INST 2	10/2/2017	2017	\$0.00	\$0.00	\$0.00	\$0.00
INST 3	1/1/2018	2017	\$4,037.88	\$0.00	\$0.00	\$4,037.88
INST 4	3/5/2018	2017	\$4,037.88	\$0.00	\$0.00	\$4,037.88
<b>Total Due:</b>			<b>\$8,075.76</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$8,075.76</b>

**Tax Detail**

	Gross Tax	Credit	Net Tax
Remediation	\$68.79	\$0.00	\$68.79
State of Nevada	\$833.00	(\$31.04)	\$801.96
Sun Valley GID	\$944.72	(\$78.60)	\$866.12
Truckee Meadows Fire Dist	\$2,646.00	(\$98.59)	\$2,547.41
Washoe County	\$6,819.33	(\$254.09)	\$6,565.24
Washoe County Sc	\$5,578.65	(\$207.85)	\$5,370.80
TRUCKEE MDWS/SUN VALLEY WATER BASIN	\$0.03	\$0.00	\$0.03
<b>Total Tax</b>	<b>\$16,890.52</b>	<b>(\$670.17)</b>	<b>\$16,220.35</b>

**Payment History**

Tax Year	Bill Number	Receipt Number	Amount Paid	Last Paid
2017	2017141074	B17.121618	\$4,037.88	10/4/2017
2017	2017141074	B17.68876	\$4,106.71	8/23/2017

# SUN VALLEY CENTER

D/F ILLUMINATED PYLON SIGN

## CONTRACTOR

These Plans Are Prepared And Submitted By Contractor As An Exemption To NRS 623.330  
For Work Under The Contractor's Licence Category Authorized NRS 624

**YESCO LLC**

Company Name

0074289 / 0074290

Contractor Licence Number

**JIM GRANDE**

Plans Prepared By

**TREVOR BALLINGHAM**

(Please Print) Contractor Representative OR  
Master or Q.I. Plumbing or Electrical and Number

  
Signature



YESCO LLC

5350 Capital Ct. Suite 104  
Reno, NV 89502

Office: 775.359.3131

NV. CONTRACTOR LICENSE NO.  
0074289 / 0074290

### Notice to the Customer

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**Note:** The colors depicted on this rendering may not match actual colors used on the finished display. please refer to the detail drawing for the approved color specifications.

**Note:** The cost of providing electrical wiring to the sign area, all required permits and all special inspections are no included in this sign proposal.

**Note:** The proportion of signs shown on building and landscape area photos is an approximate representation.

### CLIENT:

**Desiderio Properties**

5055 SUN VALLEY BLVD

ADDRESS:

SUN VALLEY, NV

CITY:

MARK STEVENS

ACCOUNT EXECUTIVE:

DESIGNER	DATE
JIM GRANDE	3/20/17
 JIM GRANDE	4/5/17





AERIAL PHOTO

SEE ENGINEERING

METHOD OF ATTACHMENT NTS



VICINITY MAP

SIGN	PROJECT	ELECT. LOAD	SQ FT.
<b>PY-1</b>	D/F ILLUMINATED PYLON SIGN	6.9 AMP. @ 120V.	184
<b>PY-2</b>	REMOVE EXISTING D/F PYLON SIGN	—	—
<b>TOTAL</b>			184

GENERAL NOTES

SPECIAL INSTRUCTIONS

FIELD SURVEY REQUIRED  
PRIOR TO PRODUCTION  
SALESMAN TO VERIFY VOLTAGE



YESCO LLC

5350 Capital Ct. Suite 104  
Reno, NV 89502  
Office: 775.359.3131  
NV CONTRACTOR LICENSE NO.  
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MARK STEVENS  
ACCOUNT EXECUTIVE:

DESIGNER	DATE
JIM GRANDE	3/20/17
JIM GRANDE	4/5/17

APPROVAL

CUSTOMER DATE

LANDLORD DATE

*Jc* 9/20/17  
DESIGN DATE

SALES DATE

ESTIMATING DATE

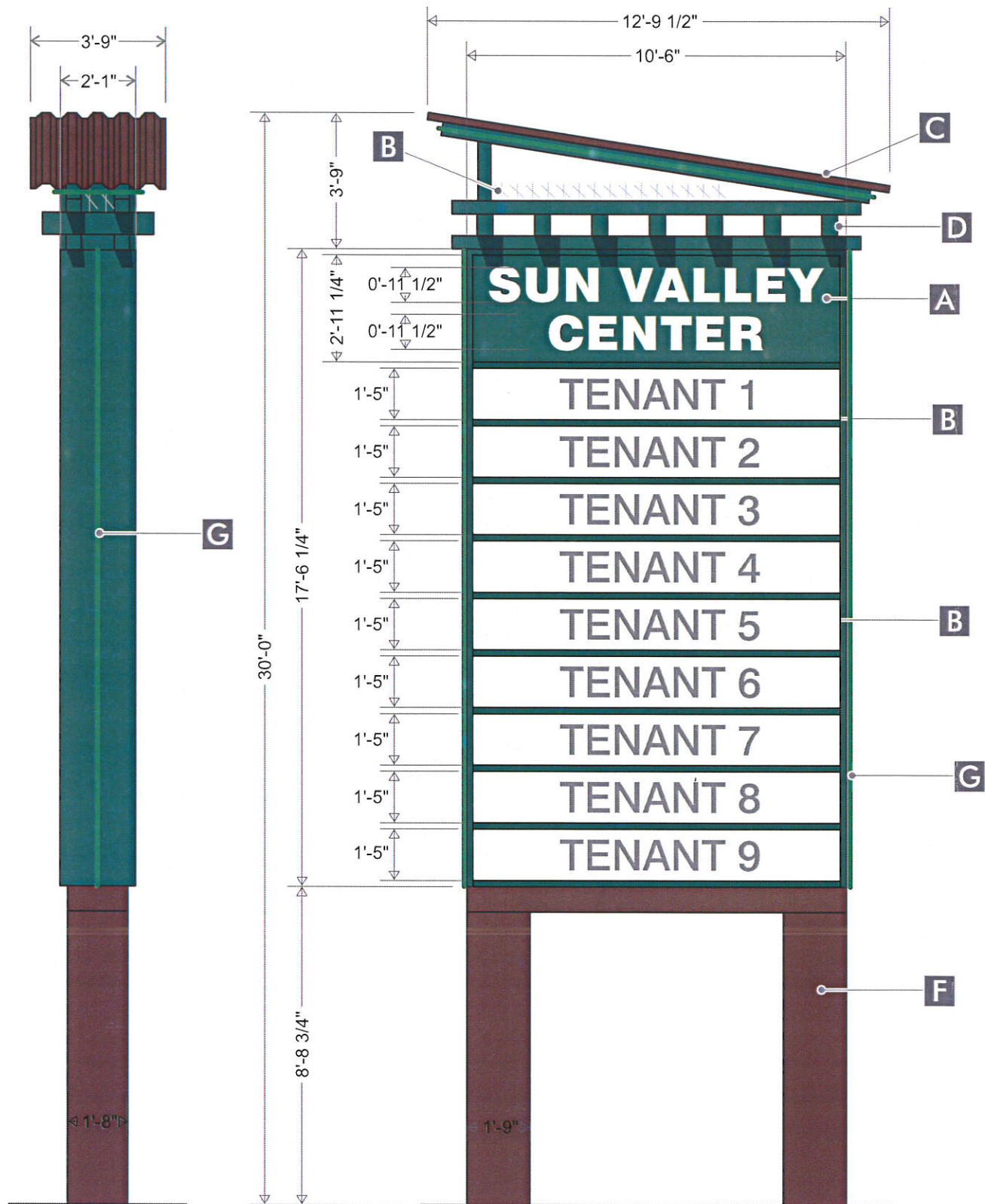
SURVEY DATE

DESIGN NUMBER  
**571488**

Job / Project  
119326

SHEET  
1.0





SIDE VIEW

**PY-1** DOUBLE FACE ILLUMINATED  
Scale: 1/4"=1'-0"

**SCOPE OF WORK**

MANUFACTURE AND INSTALL ONE (1) D/F ILLUMINATED PYLON SIGN

**SIGN SPECS**

<b>A</b>	TOP CABINET	LIGHTING	WHITE LED
		FACE	ALUMINUM ROUTED OUT
		COPY	WHITE PLEX BACK-UP
		RETURN	25" DEEP, PAINTED GREEN
		FINISH	SATIN
<b>B</b>	CABINET	LIGHTING	WHITE LED
		FACE	WHITE PLEX
		VINYL COLOR	3M TRANSLUCENT - SEE COLOR KEY
		RETAINER	2" FLAT, PAINTED GREEN
		RETURN	25" DEEP, PAINTED GREEN
	FINISH	SATIN	
<b>C</b>	ROOF	TYPE	CORRUGATED ALUMINUM ROOF
		COLOR	TO MATCH POLE COVER
<b>D</b>	ROOF STRUCTURE	TYPE	METAL TUBES
		PAINT COLOR	GREEN TO MATCH CABINET
		FINISH	SEMI GLOSS
<b>E</b>	BIRD SPIKES	BIRD SPIKES ON TOP OF TUBING	
<b>F</b>	POLE COVER	TYPE	ALUMINUM CONSTRUCTION
		COLOR	BROWN
		FINISH	LIGHT TEXTURE - SATIN
<b>G</b>	LED	GREEN SLOAN 64 FEET APPROX.	

SHOP DRAWING REQ'D. NO    ENG. DRAWING REQ'D. NO    ELEC. HOOKUP INCLUDED NO

**GENERAL NOTES:**

NOTE: CUSTOMER TO PROVIDE VECTOR ART LOGOS FOR TENANTS

**COLOR KEY**

PAINT	SHERWIN WILLIAMS
	COLOR SW6446 ARUGULA
VINYL	3M - TRANSLUCENT
	COLOR SW6062 RUGGED BROWN

NOTE: UNLESS OTHERWISE NOTED, THE COLORS DEPICTED ON THIS RENDERING MAY NOT MATCH ACTUAL COLORS ON FINISHED DISPLAY. PLEASE REFER TO COLOR-CALLOUTS AND THEIR APPROPRIATE VENDOR SPECIFIED SAMPLES FOR APPROVED COLOR SPECIFICATIONS



YESCO TO REMOVE EXISTING PYLON SIGN



YESCO LLC  
5350 Capital Ct. Suite 104  
Reno, NV 89502  
Office: 775.359.3131  
NV CONTRACTOR LICENSE NO. 0074289 / 0074290

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MARK STEVENS  
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JIM GRANDE 3/20/17

JIM GRANDE 4/5/17

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ESTIMATING DATE

SURVEY DATE

DESIGN NUMBER

571488

Job / Project

119326

SHEET

2.0





PROPOSED SIGN



PROPOSED SIGN



YESCO LLC

5350 Capital Ct. Suite 104  
 Reno, NV 89502  
 Office: 775.359.3131  
 NV CONTRACTOR LICENSE NO.  
 0074289 / 0074290

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SURVEY DATE

DESIGN NUMBER  
**571488**

Job / Project  
**119326**

SHEET  
**3.0**



JOB/PROJECT # 119326

Structural Engineering Calculations for:

**Desiderio Properties**

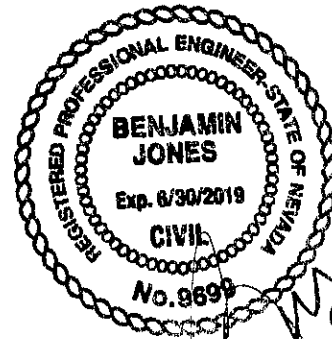
5055 Sun Valley Blvd  
Sun Valley (Washoe County), NV

Two pole pylon sign, 30'-0" OAH

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Drawing .....	S1

Prepared by: Carl Meyers, PE  
Reviewed by: Benjamin Jones, PE



9/28/17



# BASIS FOR DESIGN

---

Project: Desiderio Properties

Descript: *Two pole pylon sign, 30'-0" OAH*

---

## BUILDING CODE:

2012 EDITION OF THE INTERNATIONAL BUILDING CODE.

LIVE / SNOW LOADS: NA

## GRAVITY / DEAD LOADS:

STEEL FRAME SIGN CABINETS = 15 PSF

## LATERAL LOAD PARAMETERS:

RISK CATEGORY = II

AND WIND SPEED MAP 2012 IBC FIGURE 1609A APPLIES

### WIND:

WIND SPEED,  $V_{ult}$  = 130 MPH, 3-SECOND GUST

WIND EXPOSURE = C

SEISMIC: < WIND, WIND GOVERNS

DESIGN SPECTRAL RESPONSE ACCELERATION =  $S_5 = 1.50$   $S_{DS} = 1.00$

$S_1 = 0.50$   $S_{D1} = 0.50$

SEISMIC DESIGN CATEGORY = D

RESPONSE MODIFICATION, R = 3.000

## STEEL:

PIPE STEEL: ASTM A500-GRADE B or API 5L-GRADE X42,  $F_y = 42$  KSI

FABRICATION AND ERECTION TO COMPLY WITH LATEST *AISC SPECIFICATIONS*.

## FOUNDATIONS:

### SOIL PARAMETERS:

ALLOWABLE PASSIVE LATERAL PRESSURE = 100 PSF/FT

FOUNDATION POURED AGAINST NATURAL GRADE OR COMPACTED ENGINEERED FILL.

## CONCRETE:

MINIMUM 28 DAY STRENGTH,  $f'_c = 2500$  PSI

# SEISMIC LOADS ON FREESTANDING SIGNS *(Equivalent Lateral Force Procedure)*

Project: Desiderio Properties

Descript: Two pole pylon sign, 30'-0" OAH

Ref: ASCE 7-10, section 12.8 & 15.1.3, table 15.4-2

## Site Classification Characteristics

<http://earthquake.usgs.gov/designmaps/us/application.php>

$S_s = 1.500$  *g*, max earthquake acceleration,  $T=0.2s$  (fig 22)  
 $S_1 = 0.503$  *g*, max earthquake acceleration,  $T=1s$  (fig 22)

Site Classification: D *stiff soil (tbl 20.3-1)*

$F_a = 1.000$  *acceleration based amplification (tbl 11.4-1)*  
 $F_v = 1.500$  *velocity based amplification (tbl 11.4-2)*

## Seismic Design Category

$S_{MS} = (F_a)(S_s) = 1.500$  *g (eq 11.4-1)*  
 $S_{M1} = (F_v)(S_1) = 0.755$  *g (eq 11.4-2)*

$S_{DS} = (2 S_{MS})/3 = 1.000$  *g (eq 11.4-3)*  
 $S_{D1} = (2 S_{M1})/3 = 0.503$  *g (eq 11.4-4)*

Seismic Use Group = I *(tbl 1.5-1)*  
 Seismic Importance Factor = 1.00 *(tbl 1.5-2)*

Worst Case Design Category = D *(tbl 11.6-1 and 11.6-2)*

## Seismic Base Shear

Response Modification Factor,  $R = 3.000$  *(tbl 15.4-2)*  
 Deflection Amplification Factor,  $C_d = 3.000$  *(tbl 15.4-2)*  
 Overstrength Factor,  $\Omega = 1.750$  *(tbl 15.4-2)*  
**Seismic Dead Load,  $W = 6.543$  kips (12.7.2)**  
**Height of Sign,  $h_n = 30.000$  ft**  
 $C_t = 0.02$  *(tbl 12.8-2)*  
 $\alpha = 0.75$  *(tbl 12.8-2)*  
 Fundamental Period of Vibration,  $T = 0.256$  *(eq 12.8-7)*

## Seismic Response Coefficient:

$C_s = S_{DS}/(R/I) = 0.333$  *g (eq 12.8-2)*  
 Maximum  $C_s (T \leq T_L) = S_{D1}/(T (R/I)) = 0.654$  *g (eq 12.8-3)*  
 Maximum  $C_s (T > T_L) = S_{D1} T_L / (T^2 (R/I)) = NA$  *g (eq 12.8-4)*  
 Minimum  $C_s = 0.030$  *g (eq 15.4-1)*  
 Where  $S_1 > 0.6g$ , Min  $C_s = 0.8 S_1 / (R/I) = 0.134$  *g (eq 15.4-2)*  
 $T_L = 12$  *(fig 22-12)*  
 Applicable  $C_s = 0.333$  *g*

Vertical Force Distribution							
Distribution Exponent, $k = 1.000$ <i>interpolated</i>							
	$w_x$	$h_x$	$w_x h_x^k$	$C_{vx}$	$F_x$	Tributary Area	Eq. Area Load
Area	kips	ft	ft-kips		kips	sf	psf
1	0.272	28.13	7.7	0.1	<b>0.180</b>	18.15	<b>9.921</b>
2	4.498	17.49	78.7	0.8	<b>1.850</b>	183.97	<b>10.055</b>
3	0.187	8.36	1.6	0.0	<b>0.037</b>	7.66	<b>4.809</b>
4	1.214	4.00	4.9	0.1	<b>0.114</b>	28.00	<b>4.077</b>
5							
6							
7							
8							
9							
10							
$\Sigma$	6.171		92.738		<b>2.181</b>		

Seismic Base Shear,  $V = C_s W = 2.181$  kips (eq 12.8-1) << WIND GOVERS

# WIND LOAD CALCULATIONS USED FOR SIGN COLUMN DESIGN

Project: Desiderio Properties

Descript: Two pole pylon sign, 30'-0" OAH

Ref: ASCE 7-10, Chapter 29; AISC Steel Construction Manual, 14th Edition

Wind Speed,  $V_{ult}$ : 130 MPH

Exposure: C

Velocity Pressure Calculation Table: $q_h = 0.00256K_hK_{zt}K_dV^2$ (psf)..... ASCE 7-10 (Eq 29.3-1)						
Area #	$q_h =$	0.00256	$K_h$	$K_{zt}$	$K_d$	$V^2$
1)	36.12	0.00256	0.982	1.0	0.85	16900
2)	35.12	0.00256	0.955	1.0	0.85	16900
3)	31.22	0.00256	0.849	1.0	0.85	16900
4)	31.22	0.00256	0.849	1.0	0.85	16900

Design Wind Load Calculation Table (Case A & B): $Q_{ult} = W = q_hG C_f$ (psf) >16 psf..... ASCE 7-10 (Eq 29.5-2) & Sec 29.8, C29.3.2						
Area #	W (psf)	$q_h$	G	$C_f$	s/h	B/s
1)	<b>56.5</b>	36.12	0.85	1.84	0.125	3.411
2)	<b>50.5</b>	35.12	0.85	1.69	0.667	0.599
3)	<b>50.7</b>	31.22	0.85	1.91	0.084	14.400
4)	<b>40.9</b>	31.22	0.85	1.54	1.000	0.438

# SIGN COLUMN DESIGN

Project: Desiderio Properties

Descript: Two pole pylon sign, 30'-0" OAH

Ref: ASCE 7-10, Chapter 29; AISC Steel Construction Manual, 14th Edition, ASD Design

Wind Speed, $V_{ult}$ :	130 MPH	Exposure:	C	Consider Case B: Yes	Case C: No		
<b>Areas Subject to Wind Forces</b>		Case B Ecc. Factor: 0.20					
Description	Height (s) (ft)	Width (B) (ft)	Area (sqft)	Centroid (ft)	Top (h) (ft)	0.6 W(Wind) (psf)	Sign Cabinet Weight (psf)
1) Roof	3.75	12.79	18.15	28.13	30.00	33.90	15
2) Tenant Sign	17.52	10.50	183.97	17.49	26.25	30.27	15
3) Cover Top	0.73	10.50	7.66	8.36	8.73	30.41	15
4) (2) Pylon Covers	8.00	3.50	28.00	4.00	8.00	24.52	15

Calculation of Design Forces at Critical Heights			
Governing Load Combination (ASD): D + 0.6W			
y (ft)	$M_{sw}+M_D$ (k-ft)	$M_{sw}+M_D$ (k-in)	$V_{sw}$ (kips)
@ grade 30.00	119.39	1432.7	7.103

Calc. of Eccentric Dead & Wind Load Moments /Torsion				
Sign Area	$P_D$ (kips)	$e'$ (ft)	$M_D$ (kip ft)	$T_w$ (kip ft)
1)	0.272			
2)	2.760			
3)	0.115			
4)	0.420			

\* Worst case of the two columns

Sign Column Design Table										
Pipes (P), $F_y=42$ ksi		Square (HSS), $F_y=46$ ksi								
Column Stage	# of Columns	Column Type (P, HSS)	Column Size	Length (ft)	Spacing C to C (ft)	Start Elev (ft)	End Elev (ft)	Sleeve Depth (in)	Capacity Check	
1st	2	P	12.8x.375	40.00	10.75	-10.00	30.000	N/A	OK	
1st		$M_r$ with P- $\Delta$ (kip ft)	$M_n/\Omega$ (kip ft)	$V_r$ (kips)	$V_n/\Omega$ (kips)	$T_r$ (kip ft)	$T_n/\Omega$ (kip ft)	$P_r$ (kips)	$P_n/\Omega$ (kips)	Combined Forces AISC 360, H1-1or H3-6
		83.399 *	112.438 *	4.876 *	102.51 *		105.94 *	3.271 *	75.8 *	0.76 *

## LATERAL BEARING PIER AND CAISSON FOOTING

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Project: Desiderio Properties

Descript: Two pole pylon sign, 30'-0" OAH

Ref: 2012 IBC, Section 1807.3.2.1, 1806.3.4 & 1806.2

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# Footings =	2	*	Moment/Footing, M=	83,399	* lb-ft
Pass lat soil res, q =	100	psf	Shear/Footing, P=V=	4,876	* lb
			Composite Centroid, h=	17.10	* ft

\* Design based on worst case loaded footing, (worst case load to single footing)

### Unconstrained Round Caisson

Diameter, b=	3.0	ft, round augured hole
Depth, first iteration, D =	12.09	ft
Depth, $D=0.5A\{1+[1+(4.36h/A)]^{1/2}\}$ =	12.09	ft, (Equation 18-1)

Actual Depth,  $D_{actual}$  = 12.00 ft

$S_1=(2)(q)(D/3)=$  800 psf, (Section 1806.3.4)

$A=2.34P/(S_1b)=$  4.75

# GENERAL STRUCTURAL NOTES

## DESIGN CRITERIA

- BUILDING CODE: IBC 2012
- DEAD LOAD: SIGN CABINETS  $\leq$  15 PSF FRONT ELEVATION AREA
- WIND LOAD:  $V = 130$  MPH (3 SECOND GUST), RISK CATEGORY II, EXPOSURE C

## STRUCTURAL STEEL

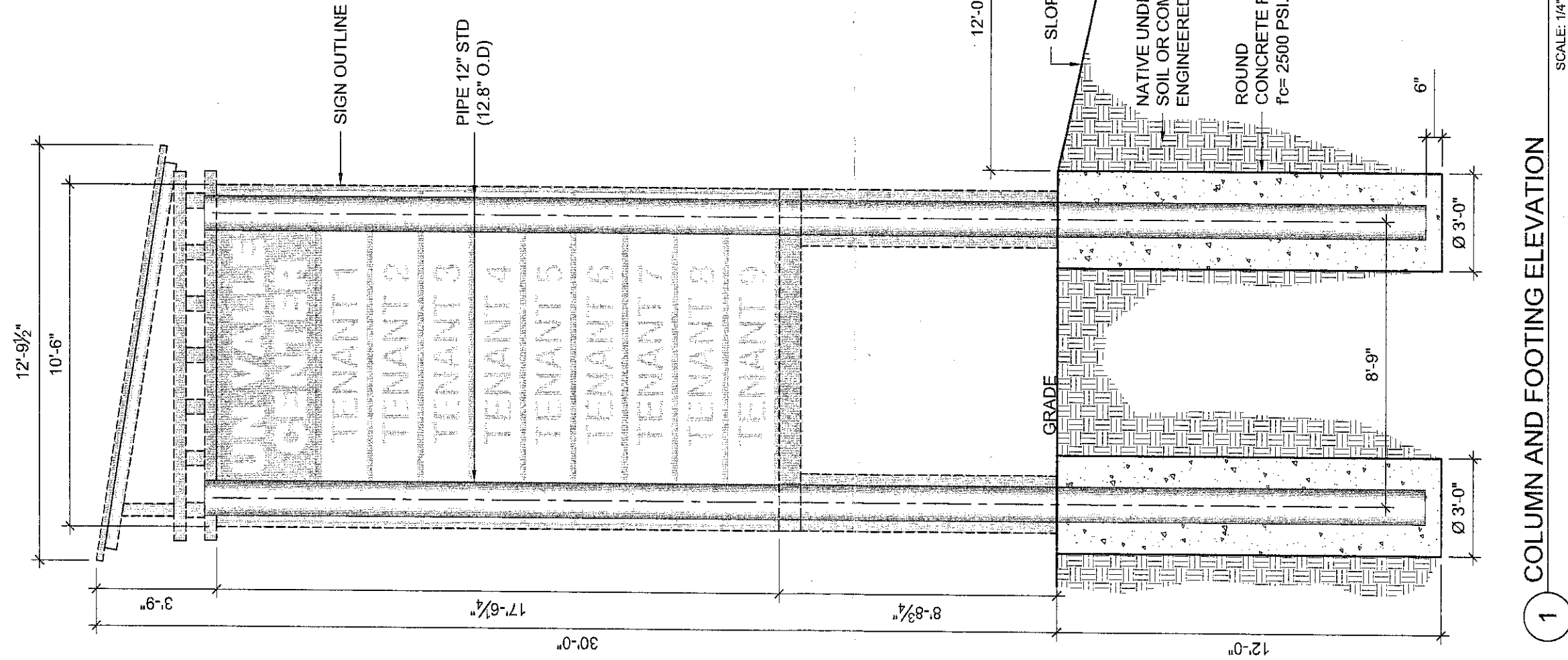
- DESIGN AND FABRICATION ACCORDING TO AISC-ASD, 13TH EDITION
- PIPE: ASTM A500 GRADE B,  $F_y = 42$  KSI

## FOOTING NOTES

- CONCRETE COMPRESSIVE STRENGTH,  $f'_c = 2500$  PSI AT 28 DAYS MIN. NO SPECIAL INSPECTION REQUIRED.
- CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.
- CONCRETE POURED AGAINST UNDISTURBED NATIVE SOILS
- SOIL ALLOWABLE LATERAL BEARING CAPACITY = 100 PSF/FT

## OTHER NOTES

- REFER TO ART DRAWINGS FOR SIGN FINISHES, COLORS AND LIGHTING SPECIFICATIONS.



1 COLUMN AND FOOTING ELEVATION

SCALE: 1/4" = 1'-0"



ENGINEERING

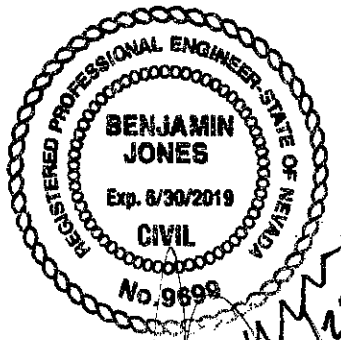
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## Revisions

No.	Date
1	9/28/2017
2	
3	
4	
5	
6	
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11	
12	
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Drawn by: CARL MEYERS

Checked by: BJ

## Desiderio Properties

5055 SUN VALLEY BLVD  
SUN VALLEY (WASHOE COUNTY), NV

Engineer: CARL MEYERS

Account Exec: MARK STEVENS

Designer:

Date: 9/28/2017

Project No.

119326

S1