

Community Services Department

Planning and Building

SPECIAL USE PERMIT

(see page 7)

SPECIAL USE PERMIT FOR GRADING

(see page 9)

APPLICATION



Community Services Department
Planning and Building
1001 E. Ninth St., Bldg. A
Reno, NV 89512-2845

Telephone: 775.328.6100

Special Use Permit Application Supplemental Information

(All required information may be separately attached)

1. What is the project being requested?

Grading and placement of loose fill material on a parcel intended for crop production of specimin trees for landscape business.

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.)

Civil improvement sheet C1.0 is attached with grading and drainage

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

Install temporary BMP's, clearing, landscape fill placement, restore temporary BMP's to post construction condition.

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?

Ease of access to the site from the highway, natural drainage paths, site shape and orientation, benefit to neighboring properties.

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

The planted trees and graded parcel will provide the Old Washoe Estates community with improved privacy, noise reduction, and aesthetic value. The project will also provide the community with trees for landscaping purposes.

6. What are the anticipated negative impacts or affect your project will have on adjacent properties? How will you mitigate these impacts?

None. On-site drainage will be changed from sheet flow across the site to low point where it ponds until it reaches the overflow in the natural drainage to directed flow in drainage swales intermittent with detention basins along edges of the property to mimic the natural detention time.

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.

Landscaping to be added throughout the project and continued into post project timelines.

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.)

<input type="checkbox"/> Yes	<input type="checkbox"/> No
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9. Utilities:

a. Sewer Service	Provided by engineered on-site disposal system
b. Electrical Service	NV energy
c. Telephone Service	
d. LPG or Natural Gas Service	
e. Solid Waste Disposal Service	none
f. Cable Television Service	
g. Water Service	proposed well

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 #	N/A	acre-feet per year	
i. Certificate #	N/A	acre-feet per year	
j. Surface Claim #	N/A	acre-feet per year	
k. Other #	N/A	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).

N/A

10. Community Services (provided and nearest facility):

a. Fire Station	Truckee Meadows Fire Station 32
b. Health Care Facility	Renown Health (North), Carson Tahoe Regional Medical Center (South)
c. Elementary School	Pleasant Valley Elementary School
d. Middle School	Marce Herz Middle School
e. High School	Damonte Ranch High School
f. Parks	Pleasant Valley Park
g. Library	South Valleys Library
h. Citifare Bus Stop	Herze Boulevard and Mt. Rose Highway

**Special Use Permit Application
for Grading
Supplemental Information**
(All required information may be separately attached)

1. What is the purpose of the grading?

Provide drainage for the site and proper tree planting.

2. How many cubic yards of material are you proposing to excavate on site?

Landscaping to be added throughout the project and continued into post project timelines.

3. How many square feet of surface of the property are you disturbing?

163,785 sq. ft.

4. How many cubic yards of material are you exporting or importing? If none, how are you managing to balance the work on-site?

Approximately 13,000 cubic yards of loose landscape fill will be imported.

5. Is it possible to develop your property without surpassing the grading thresholds requiring a Special Use Permit? (Explain fully your answer.)

It is not possible as the middle portion of the site needs to be raised so water can drain to the existing natural drainage path without causing damage to the proposed access road and parking lot.

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.)

No, the grading work has not been started.

7. Have you shown all areas on your site plan that are proposed to be disturbed by grading? (If no, explain your answer.)

Yes, all areas of disturbance by grading have been shown on Plan Sheet C1.0.

8. Can the disturbed area be seen from off-site? If yes, from which directions and which properties or roadways?

Yes, the disturbed area can be seen from US Hwy 395 South and Old Washoe Drive however, the property is proposed to be screened from view by large trees. The disturbed areas can be seen from properties 144 Old Washoe Drive, 150 Old Washoe Drive and 220 US Hwy 395 South. Some areas are currently planted with trees and screen the property from the neighboring parcels.

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)?

No access needed for neighboring properties as they currently have existing access roads.

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?

The maximum slope of any cut and fill area is 6:1. The methods to prevent erosion are provided by the silt fence

11. Are you planning any berms?

Yes	No	X	If yes, how tall is the berm at its highest?
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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)?

A proposed rockery wall located at the southern boundary is a maximum of 6 ft tall.

13. What are you proposing for visual mitigation of the work?

N/A

14. Will the grading proposed require removal of any trees? If so, what species, how many and of what size?

No, the grading is intended to increase the survivability of trees planted on the property.

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?

The seed mix is call dryland wildflower mix by Comstock Feed. The recommended density is 1 lb per 3,000 sq foot.

16. How are you providing temporary irrigation to the disturbed area?

Water truck and hose line.

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 X	If yes, please attach a copy.
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Special Use Permit Application for Stables Supplemental Information

(All required information may be separately attached)

1. What is the maximum number of horses to be boarded, both within stables and pastured?

Landscaping to be added throughout the project and continued into post project timelines.

2. What is the maximum number of horses owned/maintained by the owner/operator of the project, both within stables and pastured?

N/A

3. List any ancillary or additional uses proposed (e.g., tack and saddle sales, feed sales, veterinary services, etc.). Only those items that are requested may be permitted.

N/A

4. If additional activities are proposed, including training, events, competition, trail rides, fox hunts, breaking, roping, etc., only those items that are requested may be permitted. Clearly describe the number of each of the above activities which may occur, how many times per year and the number of expected participants for each activity.

N/A

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

N/A

6. To what uses (e.g., restrooms, offices, managers living quarters, stable area, feed storage, etc.) will the barn be put and will the entire structure be allocated to those uses? (Provide floor plans with dimensions).

N/A

7. Where are the living quarters for the operators of the stables and where will employees reside?

N/A

8. How many improved parking spaces, both on-site and off-site, are available or will be provided? (Please indicate on site plan.) Have you provided for horse trailer turnarounds?

N/A

9. What are the planned hours of operation?

N/A

10. What improvements (e.g. new structures including the square footage, roadway/driveway 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?

N/A

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

N/A

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

Ease of access to the site from the highway, natural drainage paths, site shape and orientation, benefit to neighboring properties.

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

N/A

14. What are the adverse impacts upon the surrounding community (including traffic, noise, odors, dust, groundwater contamination, flies, rats, mice, etc.) and what will you do to minimize the anticipated negative impacts or effects your project will have on adjacent properties?

No, the grading is intended to increase the survivability of trees planted on the property.

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

The seed mix is call dryland wildflower mix by Comstock Feed. The recommended density is 1 lb per 3,000 sq foot.

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

N/A

17. 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.)

N/A

18. 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
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19. Community Sewer

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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20. Community Water

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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PROJECT	190 US HIGHWAY 395 S	PROJECT NO.	21100.002
SUBJECT	ROCKERY WALL DESIGN	BY	J. ARCHULETA
		DATE	12/6/2021
CALCULATION PACKAGE		REVIEWED BY	J. PEASE
		DATE	12/6/2021

PURPOSE

This package includes local and stability calculations and supporting data (strength data, loading types and data, etc).

SOIL PROPERTIES AND LOADS

Native soils are assumed to be silty gravelly sand to sandy gravel with shallow bedrock. Assumed and calculated properties include:

Soil Unit Weight (γ)	=	128 pcf
Friction Angle (ϕ)	=	35 degrees
Active Earth Coefficient (K_a)	=	0.29
Pseudo-static Active Earth Coefficient (K_{ae})	=	0.93
Cohesion (c)	=	0 pcf

LOADS

Peak Ground Acceleration (use 50% for calculations) = 0.946 g

RESULTS

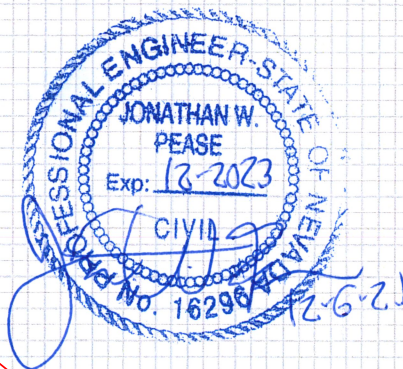
Local stability calculations show that the walls are stable with regard to sliding, overturning, and bearing capacity for static and seismic conditions per FHWA-CFL/TD-06-006, November 2006, *Rockery Design and Construction Guidelines*.

Wedge analysis was used to determine active earth coefficients K_a and K_{ae} for all soils.

Global stability shows that the walls have the minimum factor of safety of at least 2.15 against static stability and the minimum factor of safety of at least 1.04 against seismic stability.

ATTACHMENTS:

Pages	Items
1	Summary
2 - 3	Local Wall Stability
4 - 5	Global Wall Stability
6 - 7	Active Pressure Coefficients
8 - 10	Seismic Parameters (ASCE 7 Hazards Report)
11	W.I.O Rockery Wall Details



ROCKERY WALL CALCULATIONS

PROJECT : 190 US 395 **BY:** JGA **DATE:** 11/23/21
PROJECT NO: 21100.002 **CHECKED BY:** JWP **DATE:** 11/24/2021
LOCATION: Washoe Valley Spreadsheet reviewed JWP 4/1/2015

Notes:

INPUT **MAXIMUM EXPOSED WALL HEIGHT 4 ft**

Exposed Wall Height, h (ft)	4	FHWA Design Comments Method assumes back of wall/backfill is vertical. Method does not presently account for angle of backfill behind wall (conservative) 1.5 ft minimum on flat, FLH recommends on slopes, soil cover extends downhill at least 6 feet from bottom of wall Native soil. May use higher phi for sliding along base if base soils better Based on half of the site PGA For seismic sliding and OT, Kh is taken to be about one-third of the site PGA
Wall Crest Width, Cw (ft)	3.75	
Wall Base Width, Bw (ft)	4.75	
Wall Embedment Depth, De (ft)	2	
Angle of Backfill Behind Wall, βr (deg)	18	
Soil Unit Weight, Gamasoil (pcf)	128	
Back of Wall Soil Friction Angle, φr (deg)	35	
Base Wall Soil Friction Angle φb (deg)	35	
Wall Rock Unit Weight, Gamma rock ψrb (pcf)	140	
Soil to Wall Contact Friction Angle, ξr (deg)	23	
Surcharge, q (lb/ft)	0	
Static Active Earth Coefficient, Ka	0.29	
Pseudo-static Active Earth Coefficient, Kae	0.93	
Horizontal Seismic Coefficient, Kh	0.32	

Method generally but does not strictly follow Rockery Design and Construction Guidelines, 2006, Federal Lands Highway Division FHWA-CFL-TD-06-006

CALCULATIONS

$L1 = 2/3 \times (Bw - Cw), \text{ ft}$ $F1 = 0.5 \times Ka(\text{or } Kae) \times \text{Gamasoil} \times (h+de)^2$
 $L2 = Bw - 0.5 \times Cw, \text{ ft}$ $F2 = q \times (h+de) \times Ka(\text{or } Kae)$
 $W1 = 0.5 \times (Bw - Cw) \times (h + De) \times \text{Gamarock}, \text{ lbs}$ $Ea = F1 + F2$
 $W2 = Cw \times (h + De) \times \text{Gamarock}, \text{ lbs}$

OVERTURNING FACTOR OF SAFETY

$FSo = MR/MD = ((W1 \times L1) + (W2 \times L2) + (Ea \times \sin(\xi_r) \times Bw)) / (F1 \times \cos(\xi_r) \times (h/3 + De) + F2 \times \cos(\xi_r) \times (h/2 + De))$
 plus for seismic MD includes $+Kh \times (W1 \times h/3 + W2 \times h/3)$

SLIDING FACTOR OF SAFETY

$FSs = ((\tan(\phi_r) \times [W1 + W2 + (Ea \times \sin(\xi_r))]) / (Ea \times \cos(\xi_r)))$
 plus for seismic, FD includes $+Kh \times (F1 + F2)$

W1L1	W2L2	Ea x Sin(ξr) x Bw	F1 x Cos(ξr)	h/3 + De	F2 x Cos(ξr)	(h/2 + De)	Batter
281	9056	1240	615	3.3	0	4.0	4/1
		3977	1972		0		
L1	L2	F1 (Static)	F2 (Static)	Frs	MR (Static)	MR (Seismic)	Ea (Static)
0.67	2.875	668	0	3087	10578	13314	668
W1	W2	F1 (Seismic)	F2 (Seismic)	Fds	MD (Static)	MD (Seismic)	Ea (Seismic)
420	3150	2143	0	615	2050	10985	2143

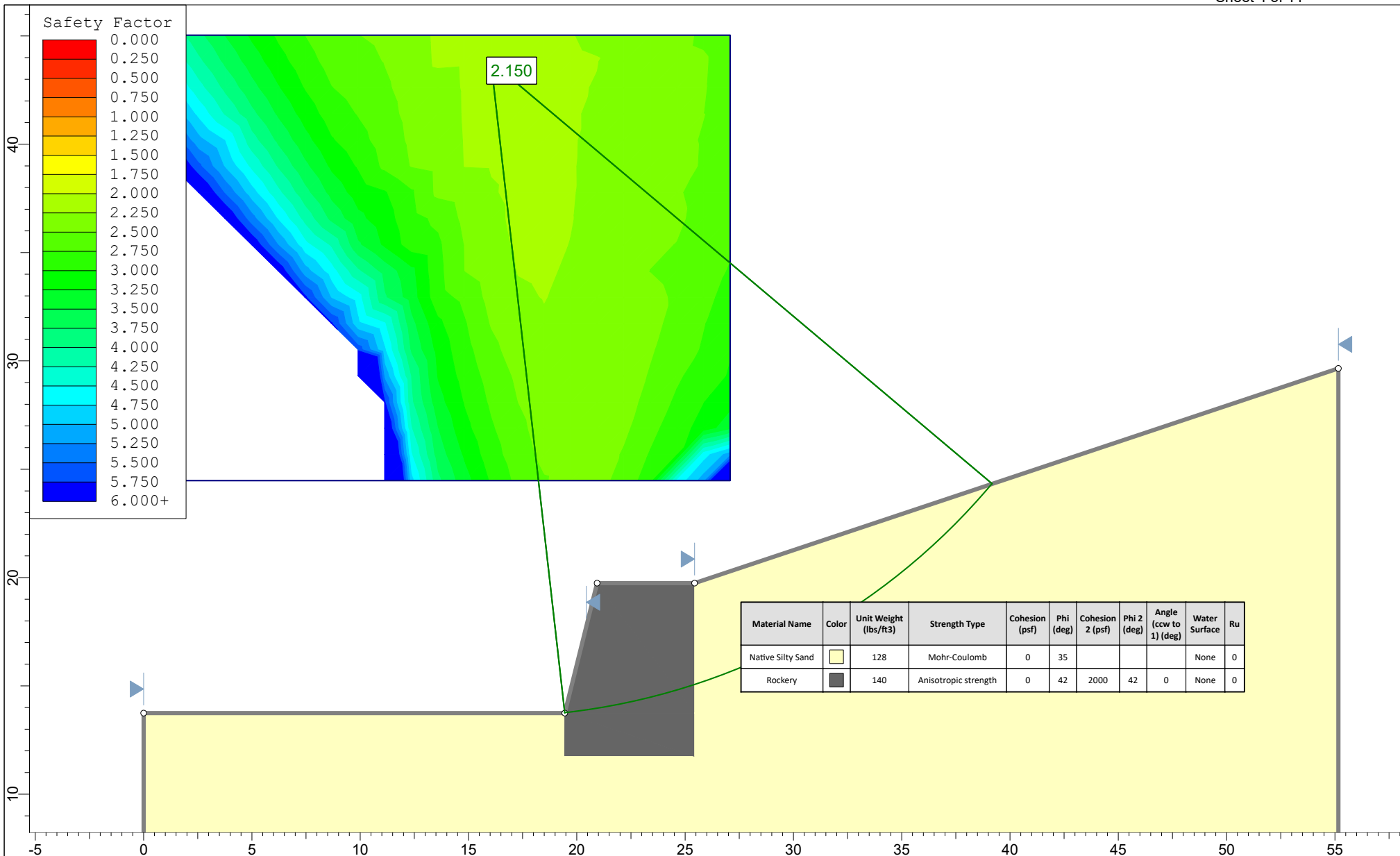
*Seismic sliding and overturning assume no F2 surcharge

MIN FS	FS Overturning (Static)	FS Overturning (Seismic)	MIN FS	FS Sliding (Static)	FS Sliding (Seismic)
	5.2	1.21		4.4	1.0
	1.5	1.1		1.5	1

BEARING CAPACITY

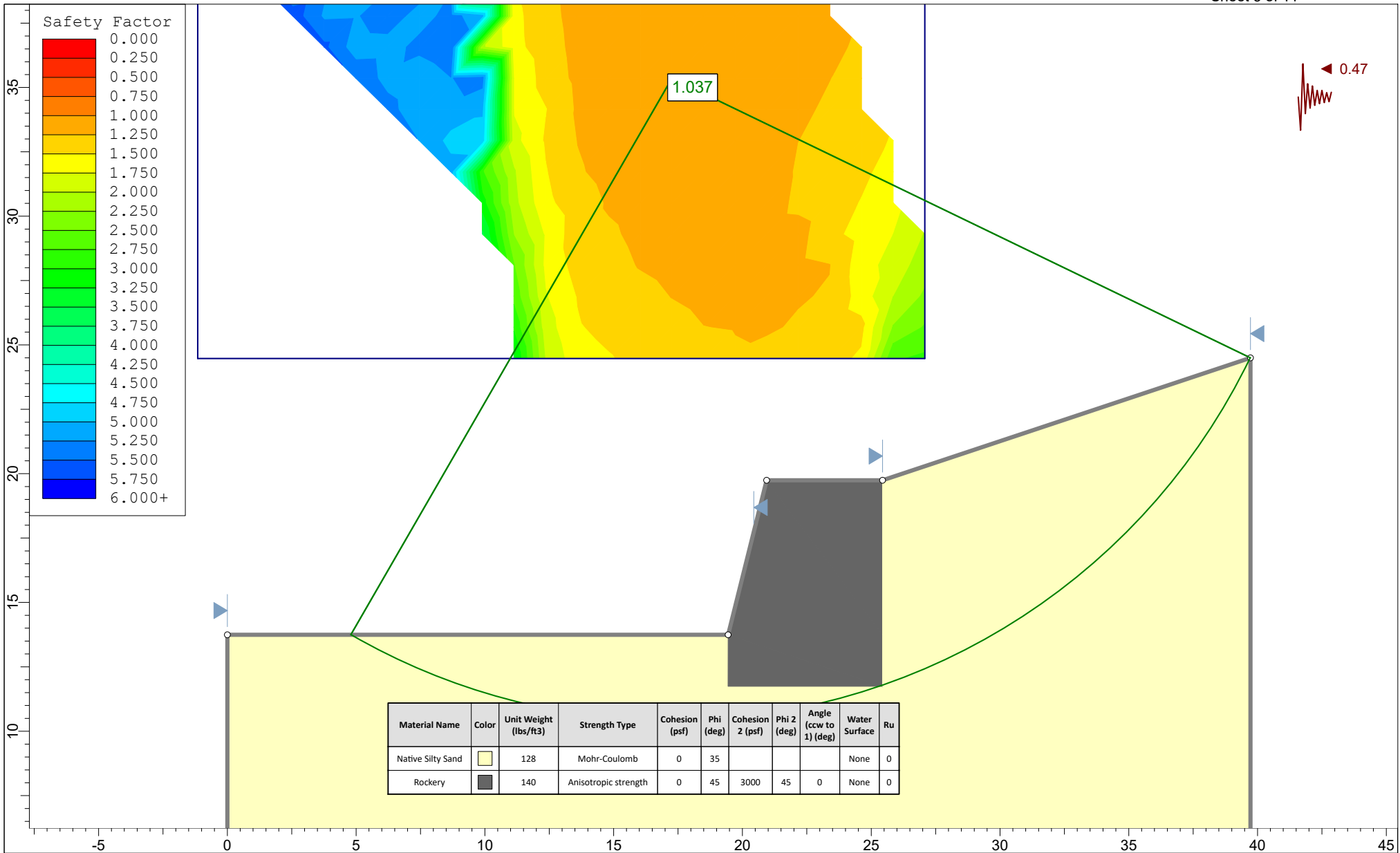
WEIGHT OF WALL	BOTTOM WIDTH	BEARING PRESSURE (PSF)	ALLOWABLE BEARING (PSF)	BEARING RATIO >1
3570	4.75	752	4000	5

PASSWORD = ROCKERY



SLIDEINTERPRET 6.039

Project		190 US Highway 395 S	
Analysis Description		Static	
Drawn By	JGA	Scale	1:74
Date		11/30/2021, 2:46:18 PM	
Company		Reno Tahoe Geo Associates	
File Name		Static.slim	



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Cohesion 2 (psf)	Phi 2 (deg)	Angle (ccw to 1) (deg)	Water Surface	Ru
Native Silty Sand		128	Mohr-Coulomb	0	35				None	0
Rockery		140	Anisotropic strength	0	45	3000	45	0	None	0



SLIDEINTERPRET 6.039

Project		190 US Highway 395 S	
Analysis Description		Seismic	
Drawn By	JGA	Scale	1:62
		Company	Reno Tahoe Geo Associates
Date	11/30/2021, 2:46:18 PM	File Name	Seismic.slim

Wedge Analysis of Seismic Pressure

Version: 1.1.0.005 (Built Aug 18 2014 17:29:14)
 Force-equilibrium analysis of seismic active pressure
 Copyright 2009 Geo Struct Sparks LLC (GeoStructSparks.com)
 Licensed to Reno Tahoe Geo Associates, Reno NV

Description

Project: 190 US Highway 395
 Project Number: 21100.002
 Calculated by: JGA
 Date Calculated: 11/23/2021
 Case: Static

Geometry

Vertical Wall Height H_w : 6.00 ft
 Slope Angle β : 18.00 °
 Maximum Slope Height H_{smax} : 7.00 ft
 Slope Length L_{smax} : 3.18 ft
 Wall Angle ω : 1.00 °
 Wall Height above Heel H : 5.97 ft
 Wedge Limit Length L_{wlimit} : 0.00 ft

Soil

Unit Weight γ : 128.00 lb/ft³
 Cohesion C : 0.00 lb/ft²
 Friction Angle ϕ : 35.00 °
 Earth Pressure Rotation δ : 17.00 °
 Crack Present: true
 Tension Crack Height H_{tcr} : 0 ft

Earthquake

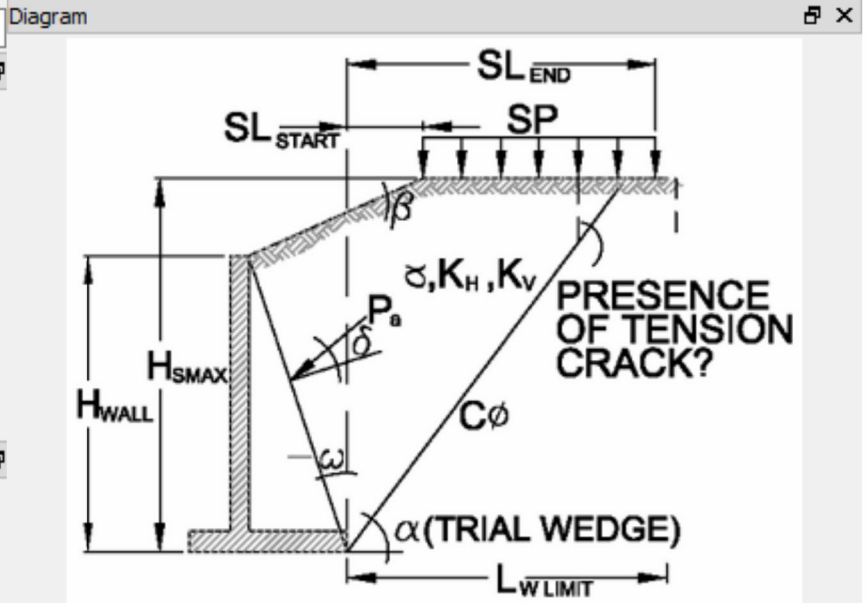
Horizontal Acceleration K_h : 0.000 g
 Vertical Acceleration K_v : 0.000 g

Surcharge Loads

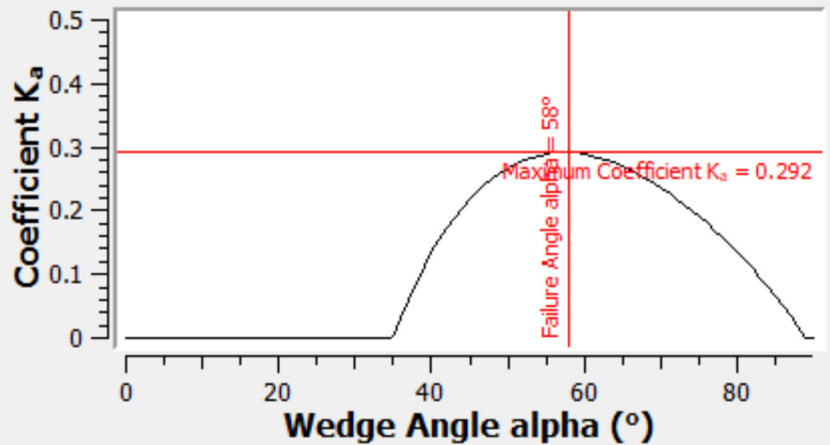
Vertical Surcharge SP : 0.00 lb/ft²
 SP Start Position SL_{start} : 0.00 ft
 SP End Position SL_{end} : 0.00 ft
 Horizontal Surcharge P_H : 0.00 lb/ft
 P_H Horizontal Position X_H : 0.00 ft
 P_H Vertical Position Y_H : 0.00 ft

Displacement (Franklin & Chang, 1977)

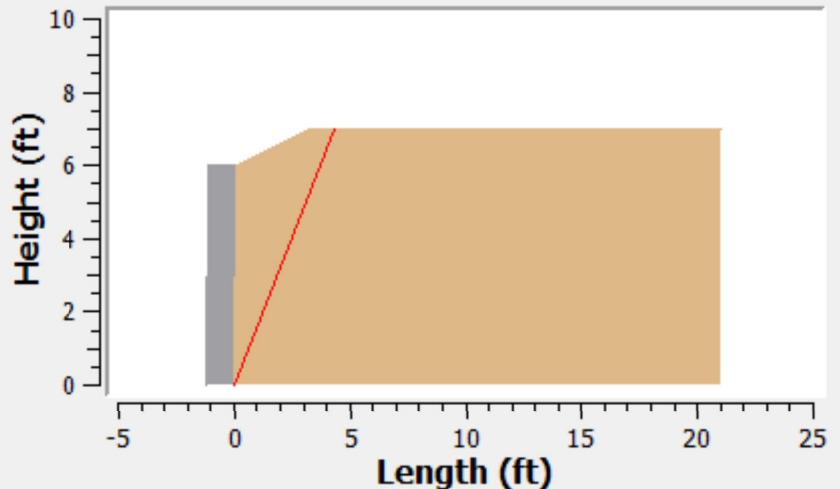
Wall Seismic Resistance Coefficient N : 0 g
 Peak Acceleration A : 0.100 g
 Peak Velocity Normalized by A V_{overA} : 760.00 mm/s
 Peak Velocity V : 2.99 in/s
Upper Bound Displacement D_{ub} : inf in
50% Displacement Estimate D_{50} : 8.6 in



ACTIVE EARTH PRESSURE COEFFICIENT



RETAINING WALL PROFILE



$\alpha = 58^\circ$, $P_a = 673$ lb/ft, $K_a = 0.29$ at 16.0° (+ ccw), $(K_a)_h = 0.28$, $EFP_h = 36$ lb/ft³

Wedge Analysis of Seismic Pressure

Version: 1.1.0.005 (Built Aug 18 2014 17:29:14)
 Force-equilibrium analysis of seismic active pressure
 Copyright 2009 Geo Struct Sparks LLC (GeoStructSparks.com)
 Licensed to Reno Tahoe Geo Associates, Reno NV

Description

Project: 190 US Highway 395
 Project Number: 21100.002
 Calculated by: JGA
 Date Calculated: 11/23/2021
 Case: Seismic

Geometry

Vertical Wall Height H_w : 6.00 ft
 Slope Angle β : 18.00 °
 Maximum Slope Height H_{smax} : 7.00 ft
 Slope Length L_{smax} : 3.18 ft
 Wall Angle ω : 1.00 °
 Wall Height above Heel H : 5.97 ft
 Wedge Limit Length L_{wlimit} : 0.00 ft

Soil

Unit Weight γ : 128.00 lb/ft³
 Cohesion C : 0.00 lb/ft²
 Friction Angle ϕ : 35.00 °
 Earth Pressure Rotation δ : 17.00 °
 Crack Present: true
 Tension Crack Height H_{tcr} : 0 ft

Earthquake

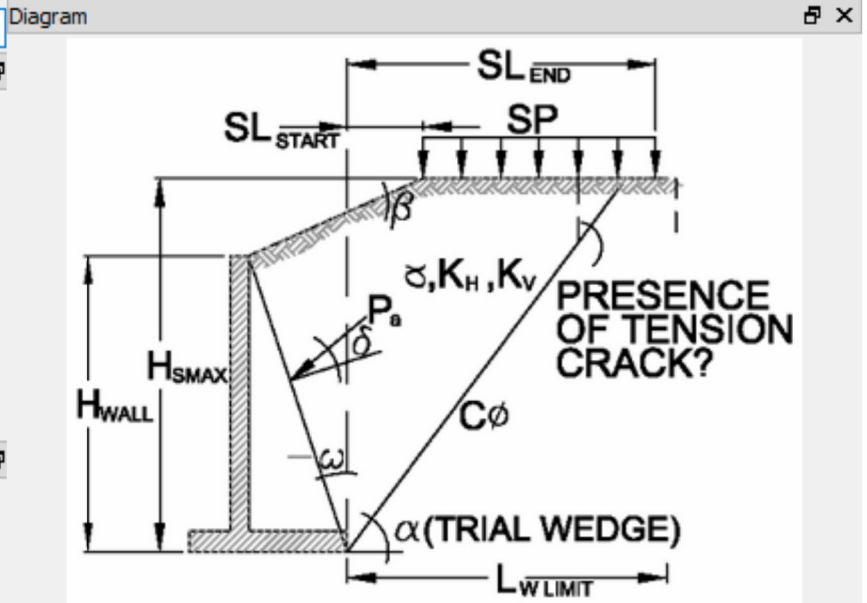
Horizontal Acceleration K_h : 0.473 g
 Vertical Acceleration K_v : 0.000 g

Surcharge Loads

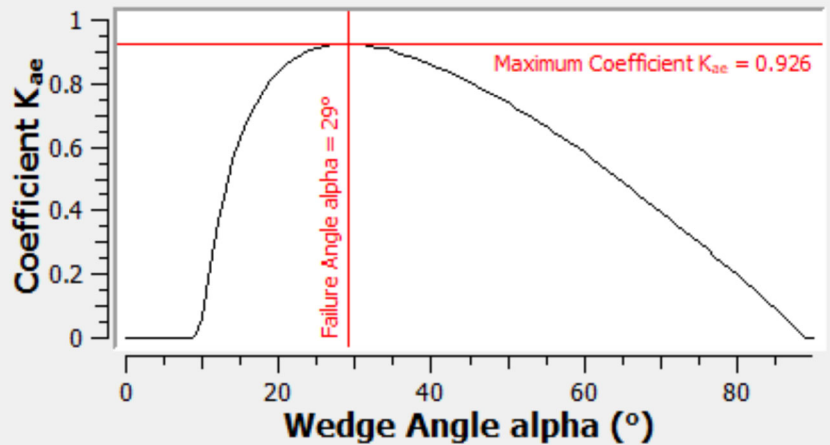
Vertical Surcharge SP : 0.00 lb/ft²
 SP Start Position SL_{start} : 0.00 ft
 SP End Position SL_{end} : 0.00 ft
 Horizontal Surcharge P_h : 0.00 lb/ft
 P_h Horizontal Position X_h : 0.00 ft
 P_h Vertical Position Y_h : 0.00 ft

Displacement (Franklin & Chang, 1977)

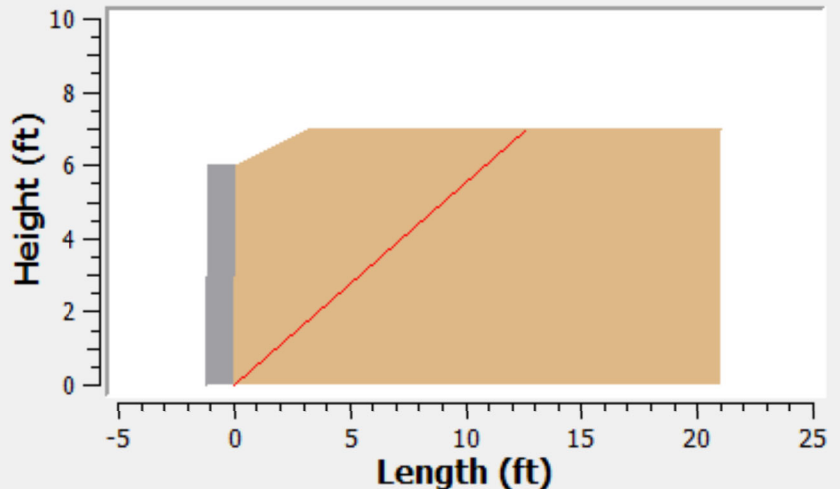
Wall Seismic Resistance Coefficient N : 0.473 g
 Peak Acceleration A : 0.100 g
 Peak Velocity Normalized by A V_{overA} : 760.00 mm/s
 Peak Velocity V : 2.99 in/s
Upper Bound Displacement D_{ub} : 0.0 in
50% Displacement Estimate D_{50} : 0.0 in



ACTIVE EARTH PRESSURE COEFFICIENT



RETAINING WALL PROFILE



$\alpha = 29^\circ$, $P_{ae} = 2.13e+03$ lb/ft, $K_{ae} = 0.93$ at 16.0° (+ ccw), $(K_{ae})_h = 0.89$, $EFP_h = 1.1e+02$ lb/ft³

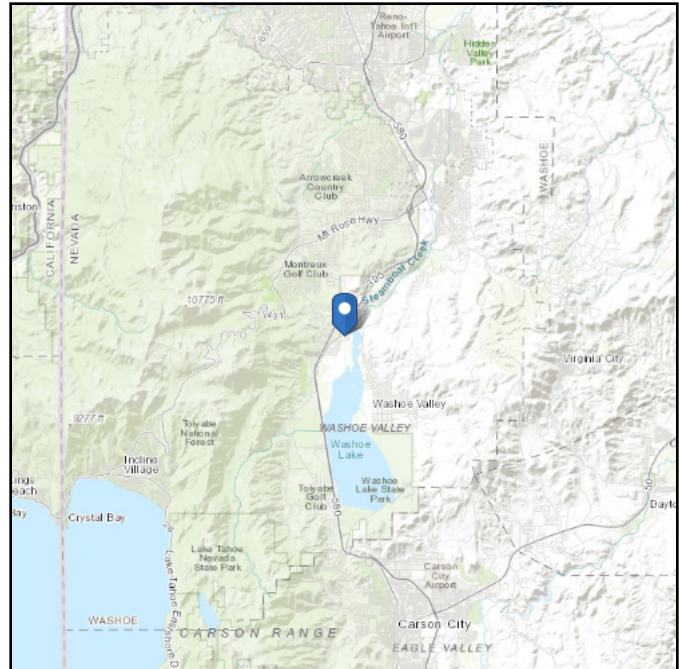
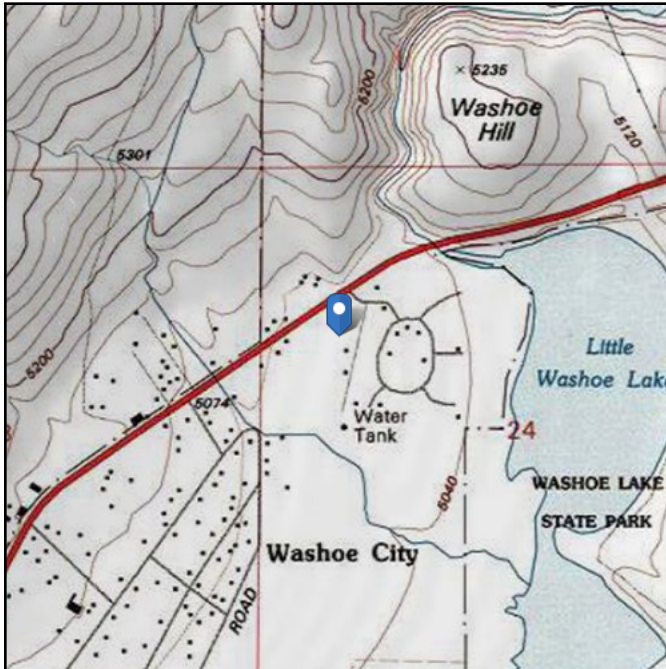


ASCE 7 Hazards Report

Address:
No Address at This
Location

Standard: ASCE/SEI 7-16
Risk Category: III
Soil Class: D - Default (see
Section 11.4.3)

Elevation: 5060.75 ft (NAVD 88)
Latitude: 39.327005
Longitude: -119.805208



Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_s :	2.19	S_{D1} :	N/A
S_1 :	0.77	T_L :	6
F_a :	1.2	PGA :	0.946
F_v :	N/A	PGA _M :	1.135
S_{MS} :	2.628	F_{PGA} :	1.2
S_{M1} :	N/A	I_e :	1.25
S_{DS} :	1.752	C_v :	1.5

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Tue Nov 23 2021

Date Source: [USGS Seismic Design Maps](#)

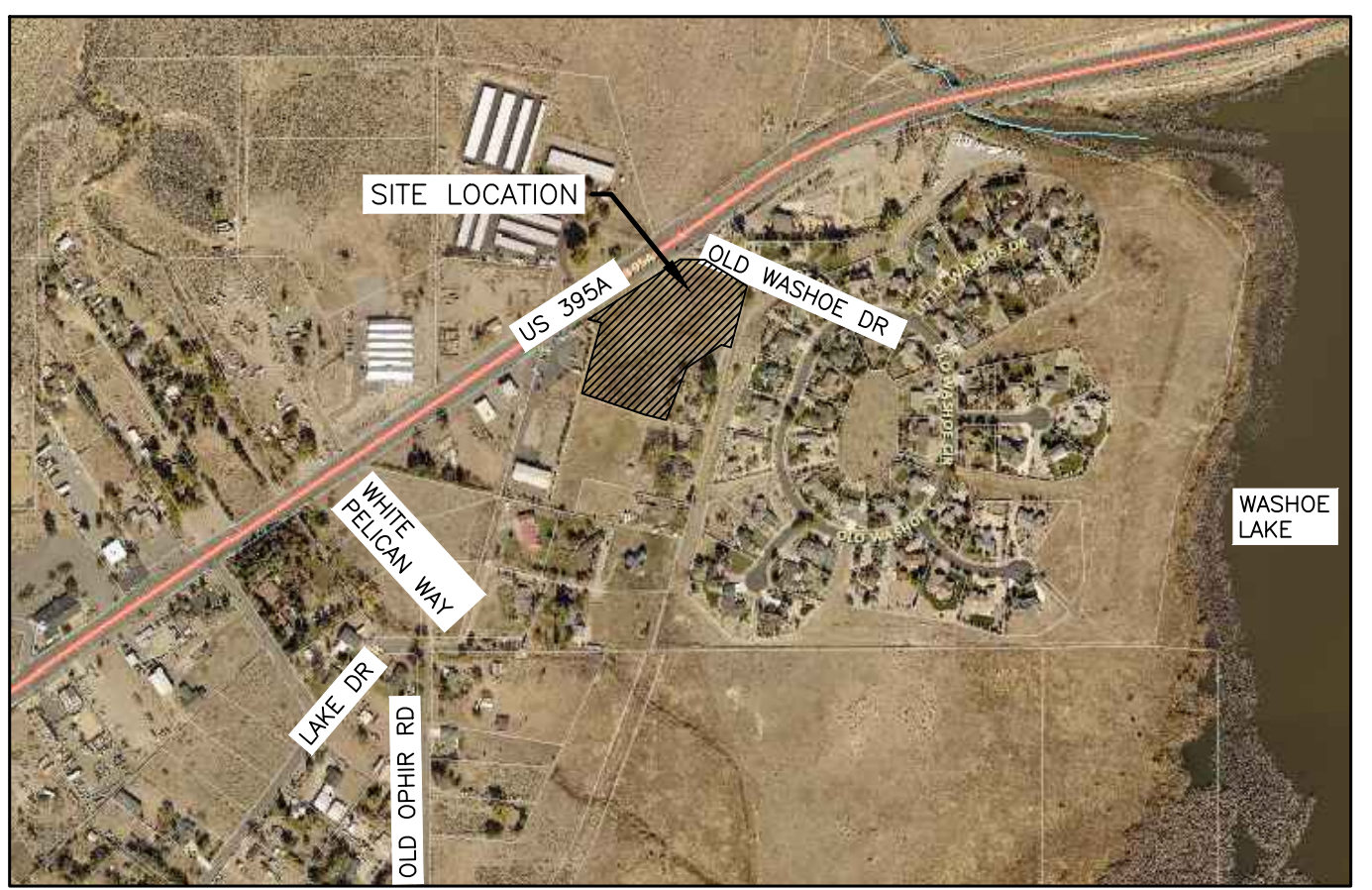
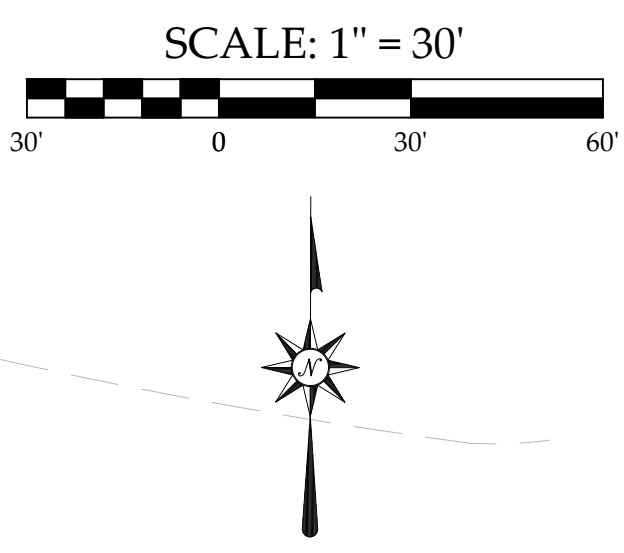
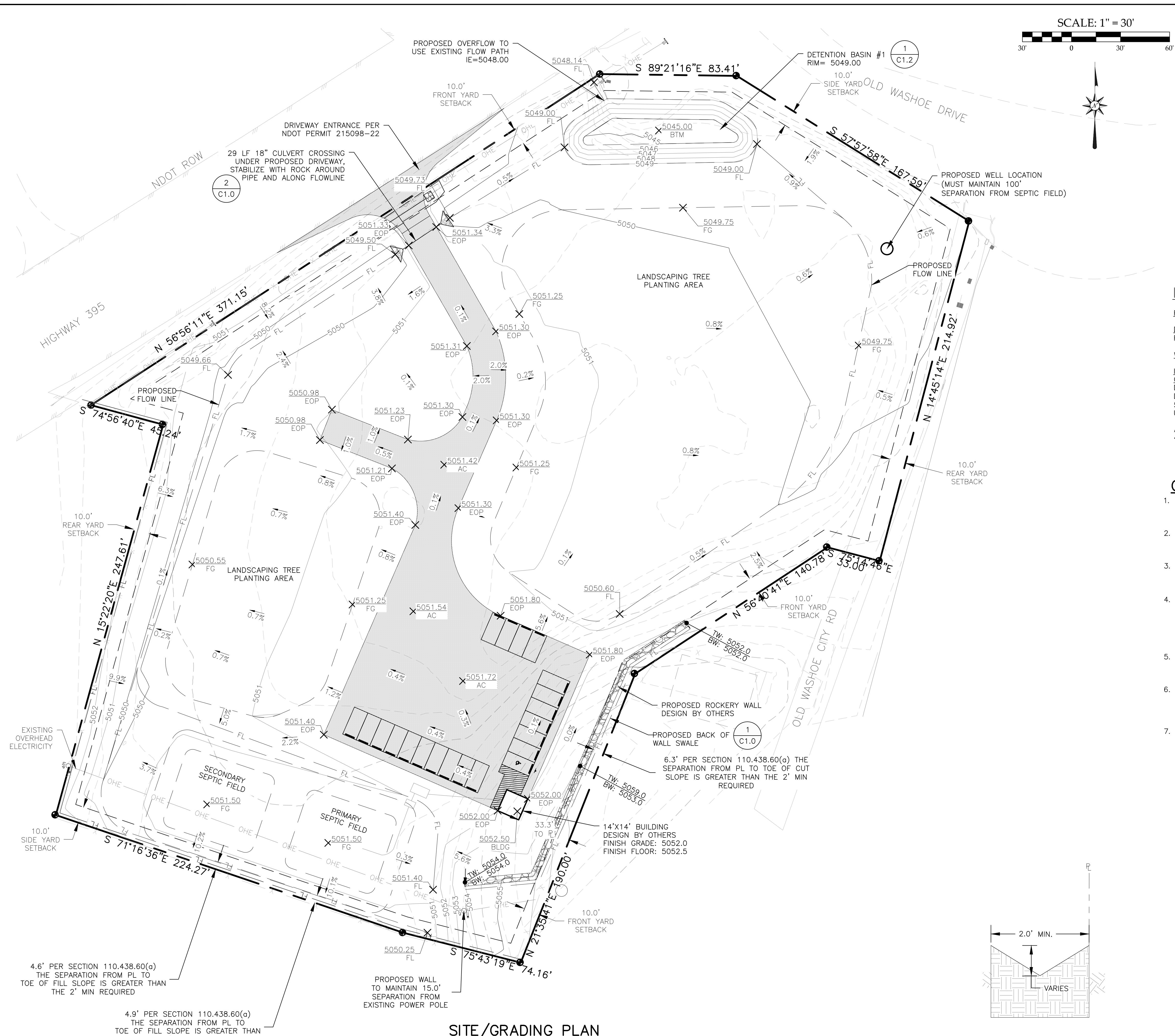


The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

J:\2021\21100.004 - 190 US 395 Site Grading\Drawings and Plans\C1.0_SITE_21100.004.dwg 6/21/23 8:12 am



IWUIC NOTES

FIRE HAZARD CLASSIFICATION: HIGH

DEFENSIBLE SPACE: CONFORMING TO 50 FEET, MUST MAINTAIN 50' FIRE BREAK

WATER SUPPLY: NON-CONFORMING

IGNITION RESISTANT CONSTRUCTION CLASSIFICATION: IR1 WITH CONFORMING DEFENSIBLE SPACE, IR2 WITH 105x DEFENSIBLE SPACE (75 FEET) PER TABLE 503.1 OF THE 2018 WILDLAND URBAN INTERFACE CODE

ACCESS SHALL BE PROVIDED PER SECTION 403 OF THE WUI CODE.

PROPERTY INFORMATION:
 PROPERTY INFORMATION:
 190 US HIGHWAY 395 S
 WASHOE COUNTY, NEVADA 89704
 APN: 050-220-37
 ZONING: GC (GENERAL COMMERCIAL)
 USE TYPE: COMMERCIAL PARKING
 LOT SIZE: 3.76 ACRES OR 163,785.6 sq.ft.

OWNER:
 WILLEY LAND, LLC.
 490 US 395 SOUTH
 WASHOE VALLEY, NEVADA 89704
 (775) 691-5297
 E-MAIL: JOHN@GAILWILLEY.COM

DESIGN ENGINEER:
 CHRISTINA BRENNAN P.E.
 RENO TAHOE GEO ASSOCIATES, INC.
 P.O. BOX 18449
 RENO, NEVADA 89511
 (775) 853-9100
 E-MAIL: CBRENNAN@RTGEO.COM

GRADING NOTES:

- CONTRACTOR SHALL MAINTAIN AN ADEQUATE DUST CONTROL PROGRAM TO INCLUDE WATERING OF OPEN AREAS. THE CONTRACTOR SHALL MAINTAIN CONFORMITY WITH ALL APPLICABLE HEALTH AND AIR POLLUTION REGULATIONS.
- ALL GRADING WORK SHALL CONFORM TO CURRENT PROVISIONS OF THE WASHOE COUNTY GRADING ORDINANCE AND MAINTAIN CONFORMITY WITH ALL OTHER APPLICABLE AGENCIES.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINTS OF CONNECTION WITH ADJOINING PROPERTIES (PUBLIC OR PRIVATE).
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION, WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THE PLANS. THIS RESPONSIBILITY INCLUDES CONTRACTING UTILITY COMPANIES FOR LOCATIONS OR POT HOLLING PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- NATURAL GROUND SLOPE AWAY FROM STRUCTURE IS REQUIRED TO BE 5% FOR 10 FEET MIN. IMPERVIOUS SURFACE SLOPE AWAY FROM STRUCTURE SHALL BE 2% FOR 10 FEET, UNLESS APART OF AN EGRESS PATH.
- SITE EARTHWORK: CUT=1,670 CUBIC YARDS; FILL=15,103 CUBIC YARDS; NET FILL=13,433 CY. STRUCTURAL FILL TO BE APPROVED BY THIS ENGINEER PRIOR TO USE. EXCESS TO BE USED FOR LANDSCAPE FEATURES. MAXIMUM HEIGHT OF CUT = 4.8', MAXIMUM HEIGHT OF FILL = 4.5'.
- ALL DISTURBED AREAS WILL BE OCCUPIED BY PERMANENT STRUCTURES OR FLATWORK IMPROVEMENTS (DRIVEWAYS, ETC.) OR RECEIVE LOCALIZED LANDSCAPING. AREAS WHICH ARE NOT LANDSCAPED MAY BE REVEGETATED THE APPLICATION OF SEED MIXTURES OF SODAR WHEATGRASS, SAGEBRUSH, RYEGRASS AND/OR PLANT MIX IN ACCORDANCE WITH THE TRUCKEE MEADOWS STRUCTURAL CONTROLS DESIGN AND LOW IMPACT DEVELOPMENT MANUAL PREPARED BY NCE, DATED APRIL 2015.



APPD	BY	DATE	REV.

Reno Tahoe Geo Associates, Inc.
 CONSULTING CIVIL ENGINEERS

P.O. Box 18449
 Reno, Nevada 89511
 TEL (775) 853-9100
 FAX (775) 853-9199

SITE IMPROVEMENT PLAN

GAIL WILLEY LANDSCAPING, INC
 190 US HWY 395 SOUTH
 APN: 050-220-37

NEVADA
 WASHOE COUNTY

ENGINEER - CIVIL
 CHRISTINA A. BRENNAN
 Exp. 12/31/24
 CIVIL
 No. 24133

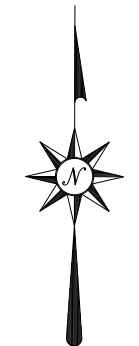
DATE: JUNE 13, 2023
JOB NUMBER: 21100.004
DESIGNED BY: CEC
DRAWN BY: CAB
CHECKED BY: CEC

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C1.0

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PARKING LOT PLAN
SCALE: 1" = 30'



R7-107 12"x18"	R7-107 12"x18"	R7-107 12"x18"
R7-8 12"x18"	R7-9a 12"x18"	R7-108 12"x18"

NOTES:

- SIGN LETTERS, COLORS AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- TIME RESTRICTED PARKING SIGNS ARE AVAILABLE IN 30 MINUTE, 1 HOUR, 2 HOUR, AND 5 HOUR INCREMENTS.
- REFER TO STANDARD DETAIL DRAWING NO. R-415 FOR MOUNTING AND POLE REQUIREMENTS, UNLESS OTHERWISE SPECIFIED.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
TRAFFIC PARKING SIGNS	R-414
APPROVED BY: JF DATE: 1/2013	

1 HANDICAP PARKING SIGN
C1.1 NOT TO SCALE

STANDARD PARKING CURBS
WHEEL STOP OR PARKING BUMPERS
MODELS S-48 AND S-72

"OUR MOST POPULAR MODEL PARKING CURBS"

MODEL	LENGTH	WEIGHT	WT. PER PALLET	No. PER PALLET
S-48	4'-0"	124 LBS.	3870 LBS.	31*
S-72	6'-0"	186 LBS.	3900 LBS.	24*

*SAVE ON PALLET QUANTITIES

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

Jensen Precast reserves the right to make changes to product design and/or dimensions without notice. Please contact Jensen Precast whenever necessary for confirmation or update on product design.

JENSEN PRECAST

1/2/2009
STANDARD PARKING CURB_BLDG
6/2009

2 STANDARD PARKING CURB
C1.1 NOT TO SCALE

APP'D	
BY	
DATE	
REV.	

Reno Tahoe Geo Associates, Inc.
CONSULTING CIVIL ENGINEERS

P.O. Box 18449
Reno, Nevada 89511

TEL (775)853-9100
FAX (775)853-9199

PARKING STALL PLAN

GAIL WILLEY LANDSCAPING, INC
190 US HWY 395 SOUTH
APN: 050-220-37

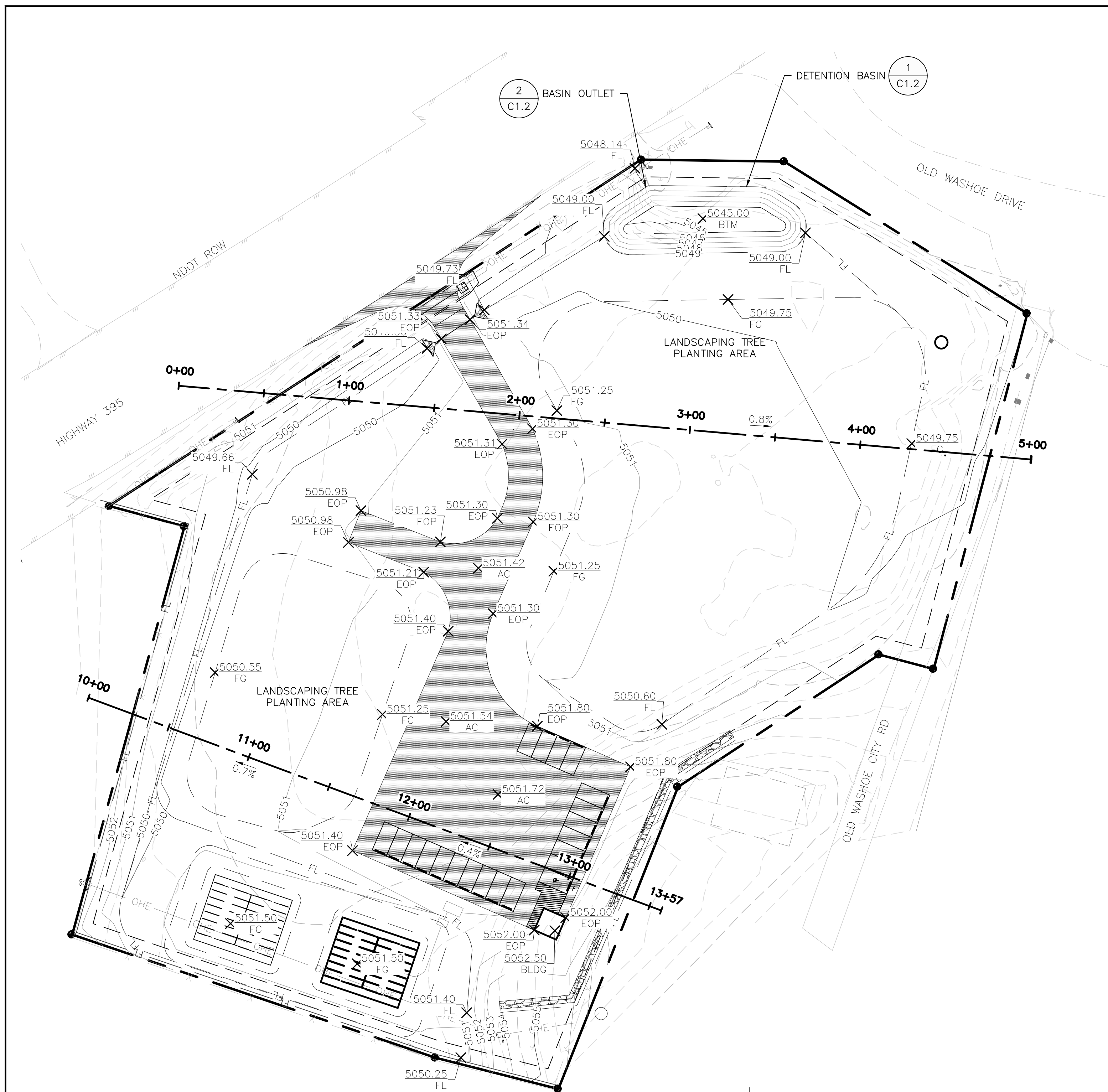
WASHOE COUNTY NEVADA

PROFESSIONAL ENGINEER
CHRISTINA A. BRENNAN
Exp. 12/31/24
No. 24135

SIGNED: 6/13/23

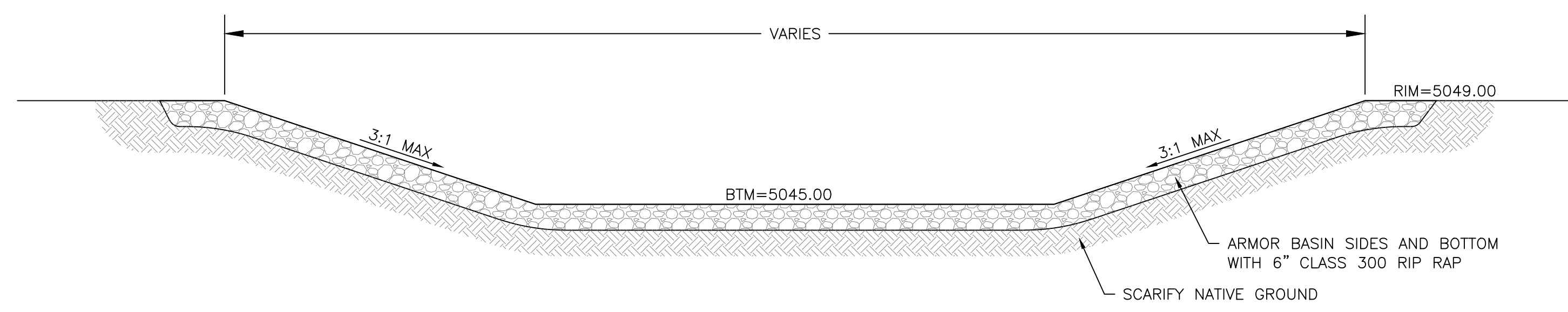
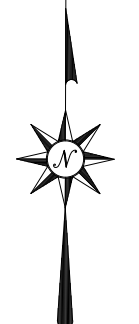
DATE: JUNE 13, 2023
JOB NUMBER: 21100.004
DESIGNED BY: CEC
DRAWN BY: CAB
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SHEET
C1.1



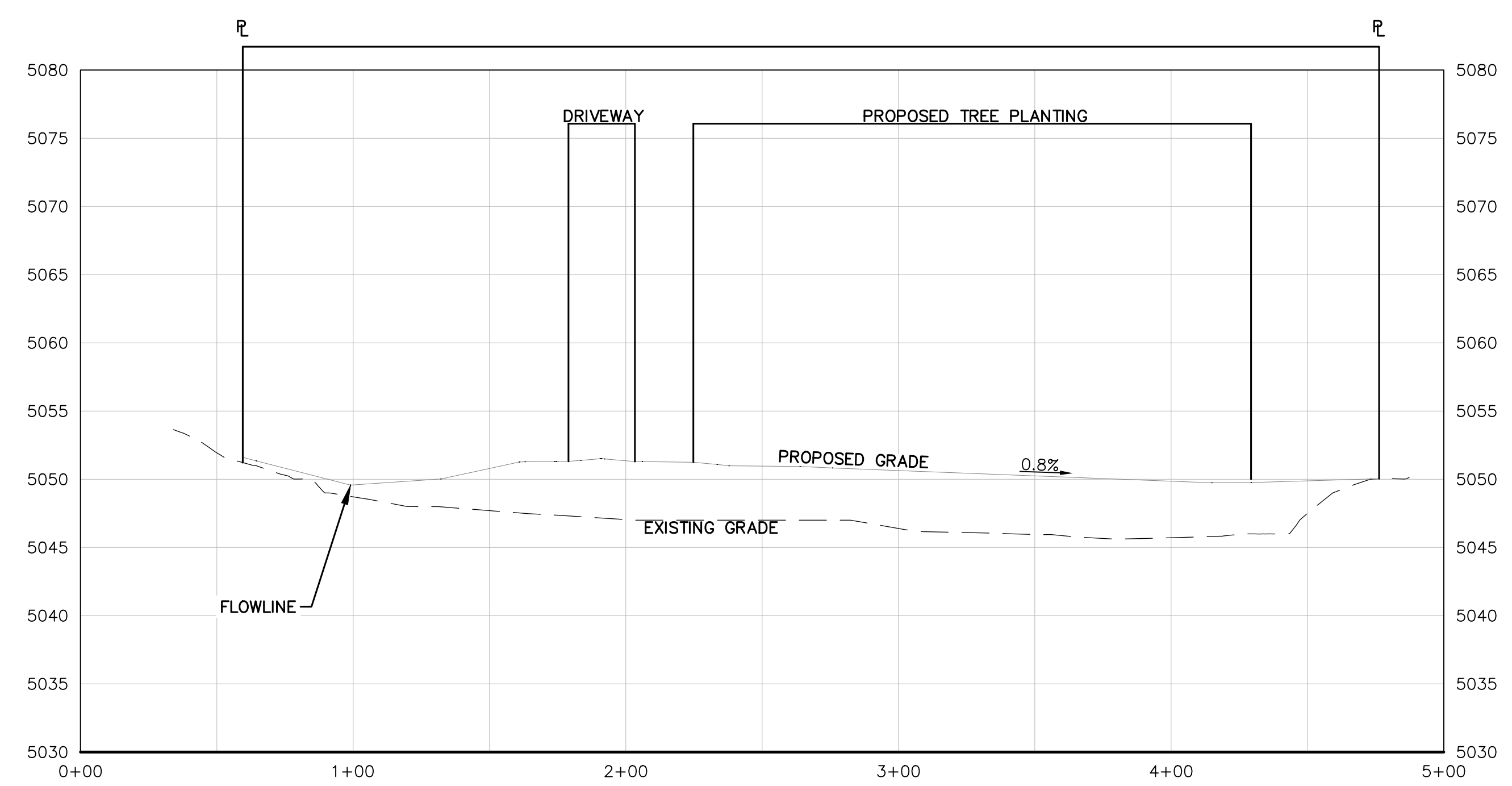
CROSS SECTION LAYOUT

SCALE: 1" = 40'



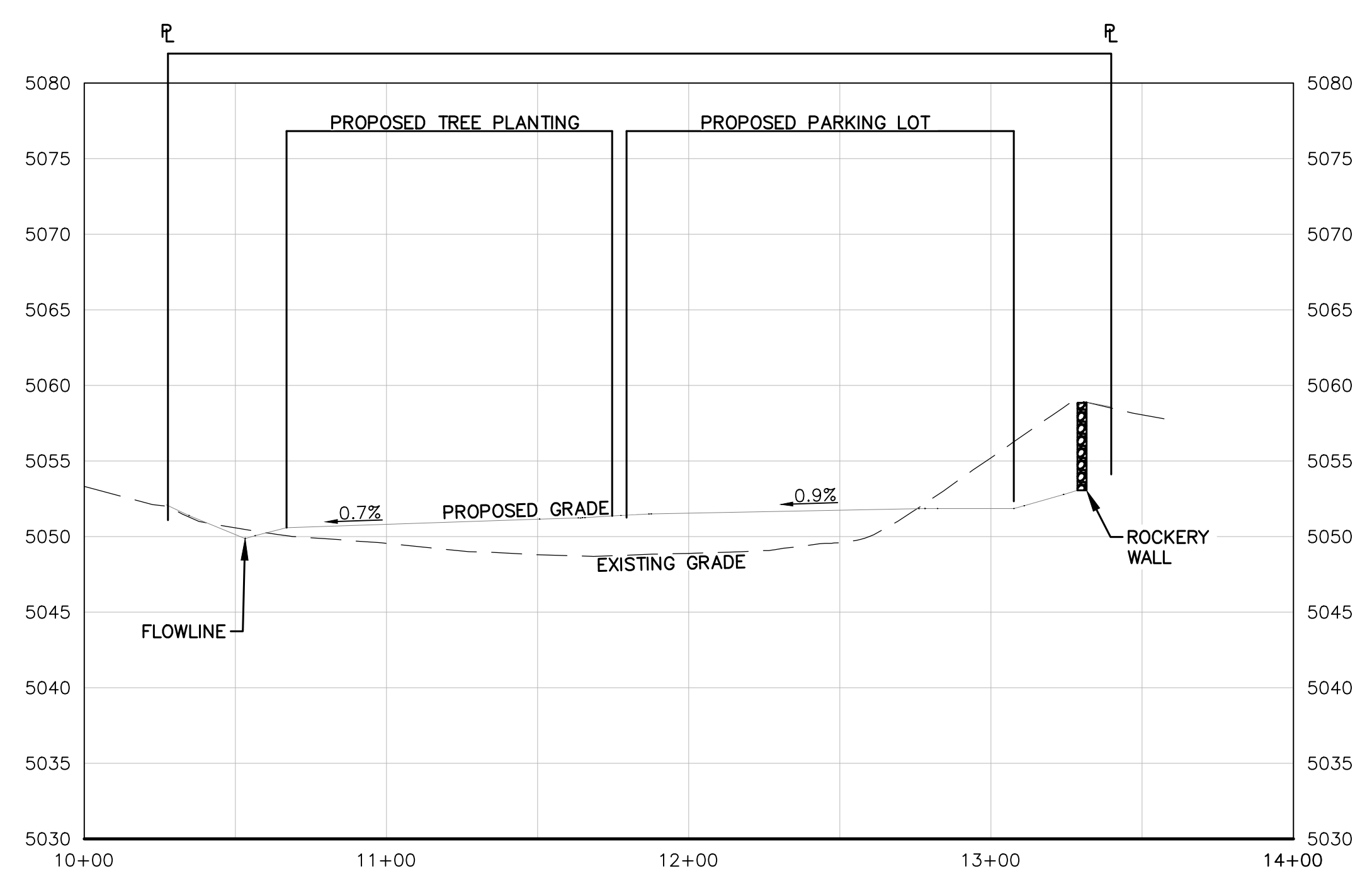
1 DETENTION BASIN

NOT TO SCALE



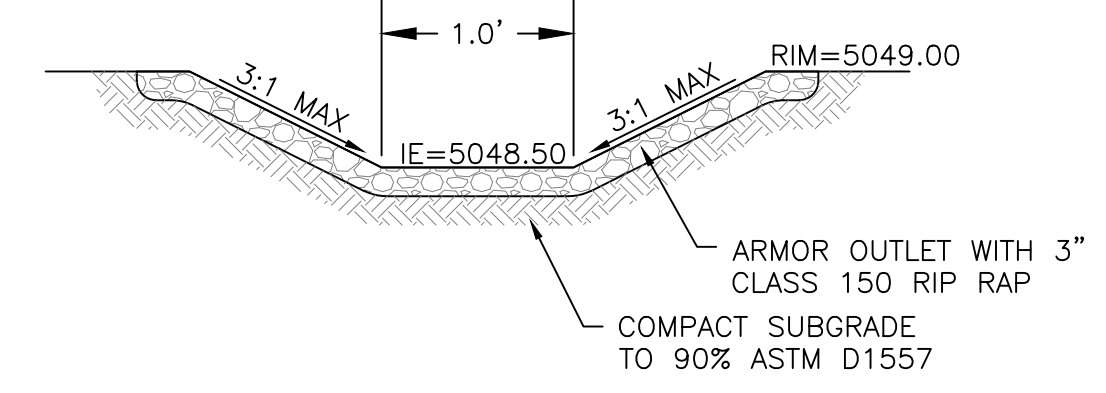
"NORTH" CROSS SECTION

HORZ SCALE: 1"=40"
VERT SCALE: 1"=10"



"SOUTH" CROSS SECTION

HORZ SCALE: 1"=40"
VERT SCALE: 1"=10"



2 BASIN OUTLET

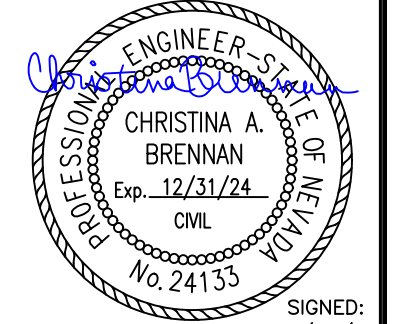
NOT TO SCALE

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REV.	DATE	BY	APPD

Reno Tahoe Geo-Associates, Inc.
CONSULTING CIVIL ENGINEERS
P.O. Box 18449
Reno, Nevada 89511
TEL (775)853-9100
FAX (775)853-9199

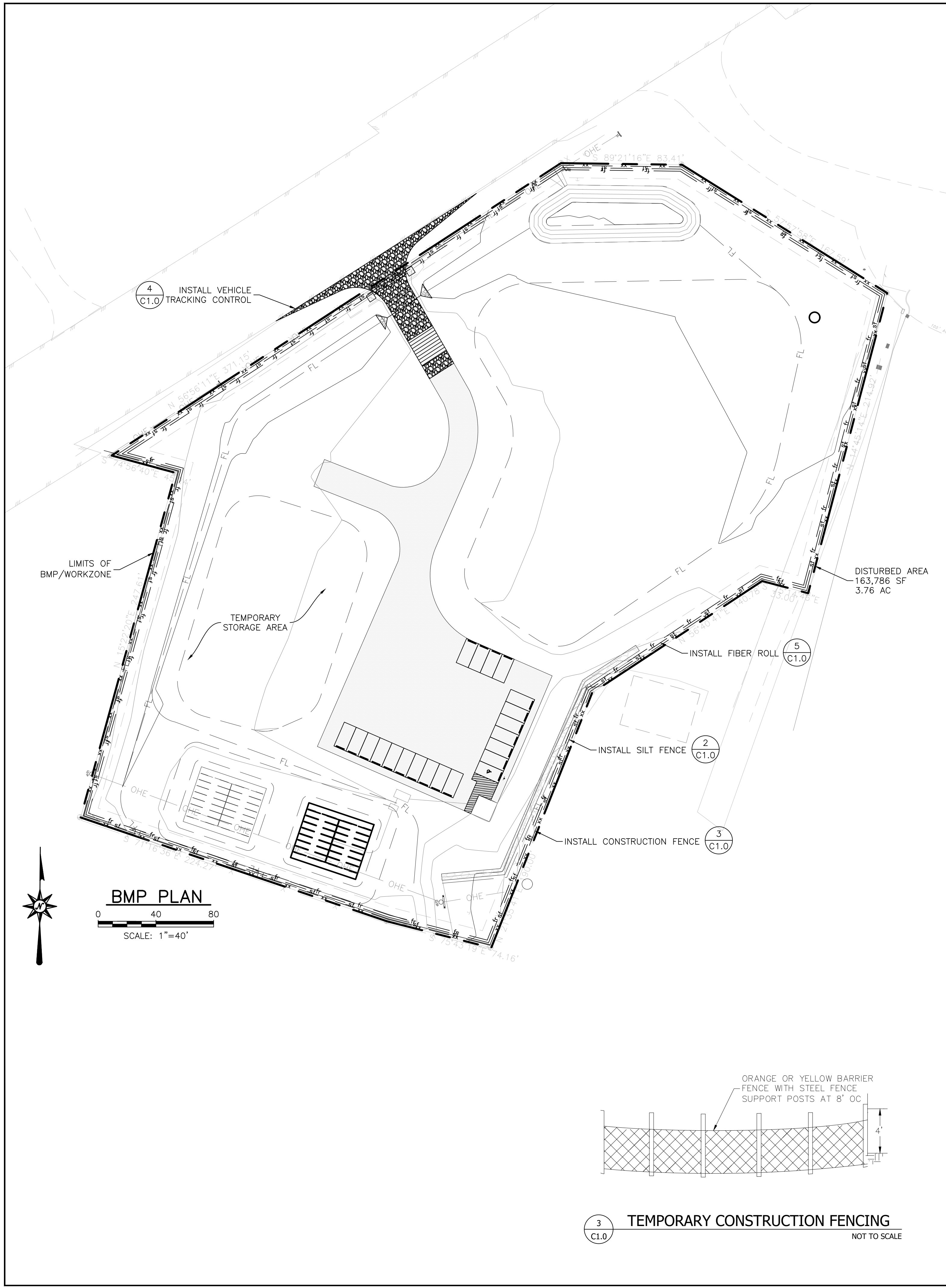
CROSS SECTIONS
GAIL WILLEY LANDSCAPING, INC
190 US HWY 395 SOUTH
APN: 050-220-37
WASHOE COUNTY NEVADA



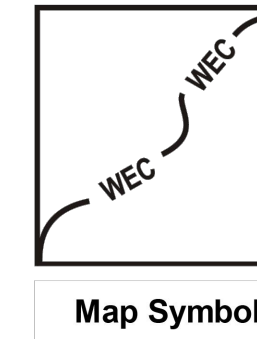
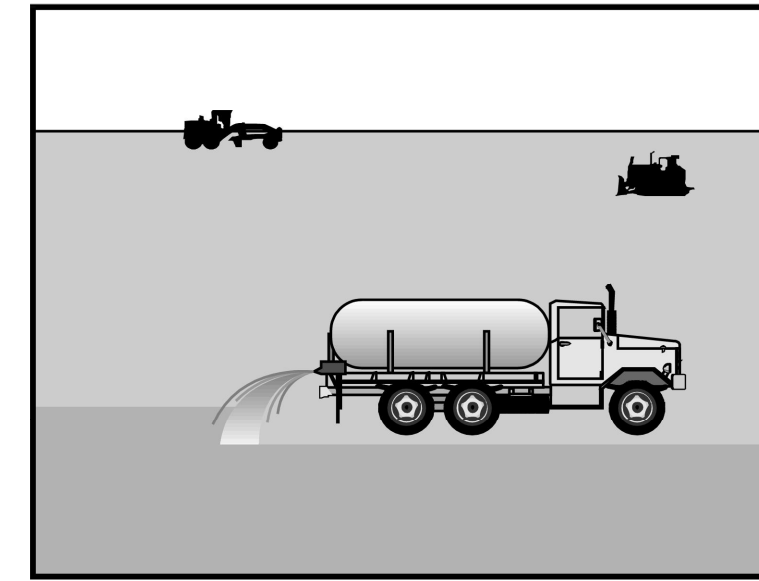
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JOB NUMBER: 21100.004
DESIGNED BY: CEC
DRAWN BY: CAB
CHECKED BY: CEC

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C1.2

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Wind Erosion and Dust Control EC-5



Graphics used with permission of Caltrans

Purpose: Storm water runoff, wind, erosion, and vehicle trackout from construction sites can re-disperse sediments to the air by high winds and traffic. Therefore, the purpose of dust control is to minimize these effects.

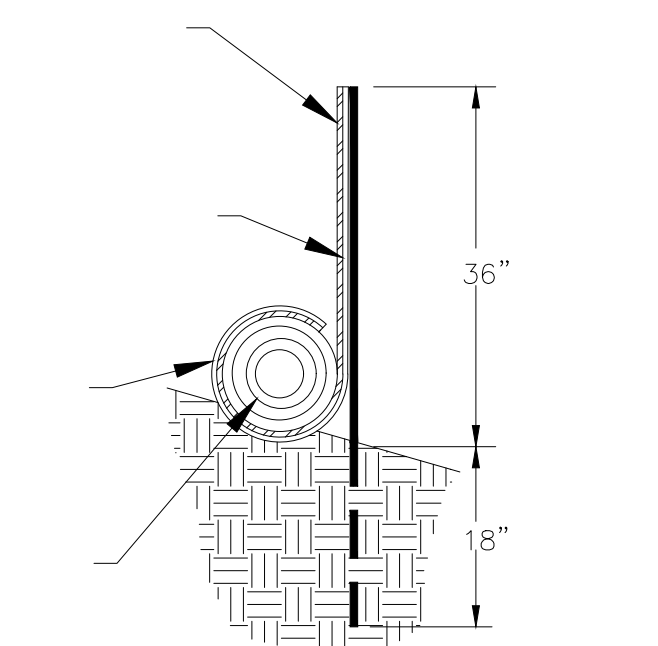
Applications:

- All construction sites having exposed soils must perform dust control measures.
- Wind erosion and dust control is important in arid and windy regions.
- Areas with soils with fine particles (silts and clay) are more prone to dust if the surface is disturbed.
- Dust control is a permanent or treatment between but must be adequate upon project completion.
- Dust control methods can help to minimize pollutants in the storm drain system, are generally inexpensive.
- Wind fence (snow fence) are applicable in arid regions where large areas of cleared land are susceptible to blowing sand and dust.

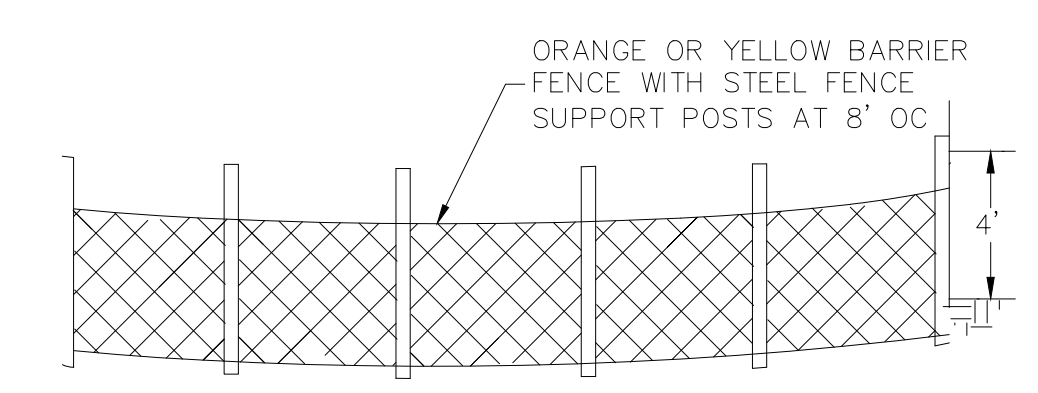
Limitations:

- During construction dust control measures are only temporary and may require reapplication.
- Incorrect usage of chemical stabilizers can have adverse effects on water quality.

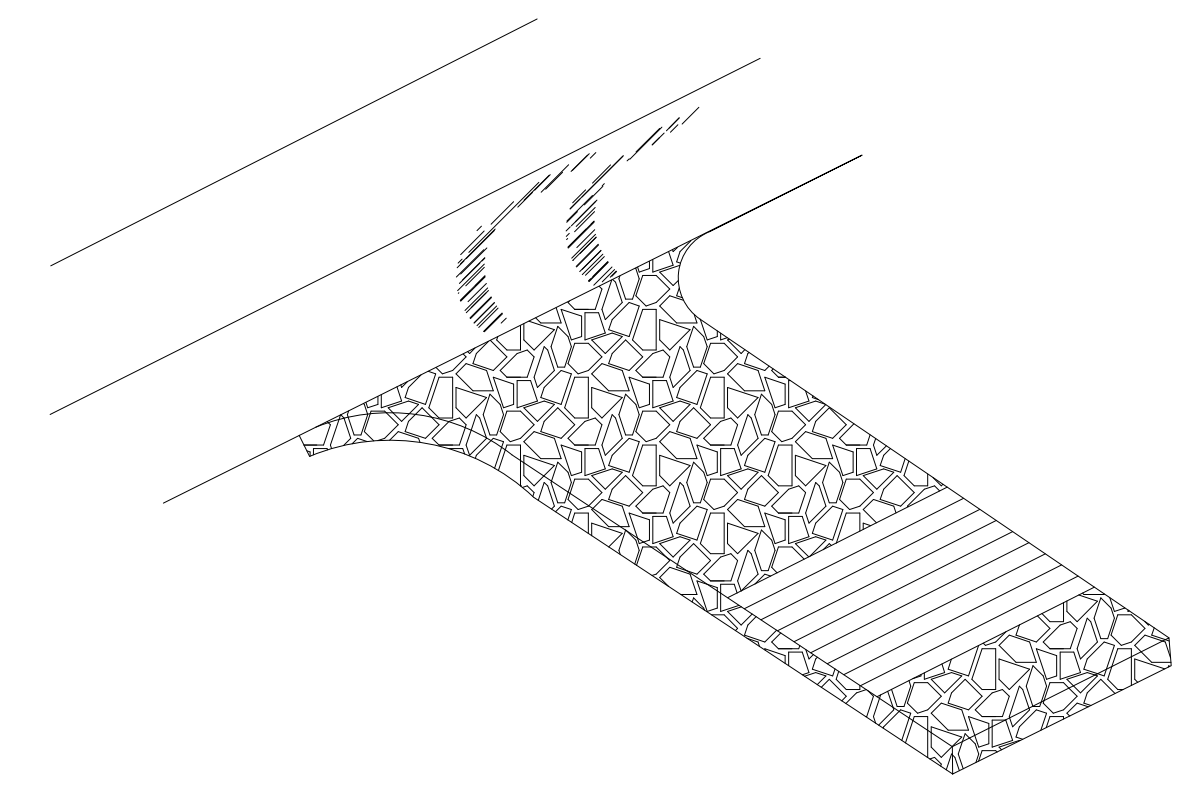
1 WIND EROSION AND DUST CONTROL
C1.0 NOT TO SCALE



2 SILT FENCE DETAIL
C1.0 NOT TO SCALE



3 TEMPORARY CONSTRUCTION FENCING
C1.0 NOT TO SCALE



4 TYPICAL VEHICLE TRACKING CONTROL
C1.0 NOT TO SCALE

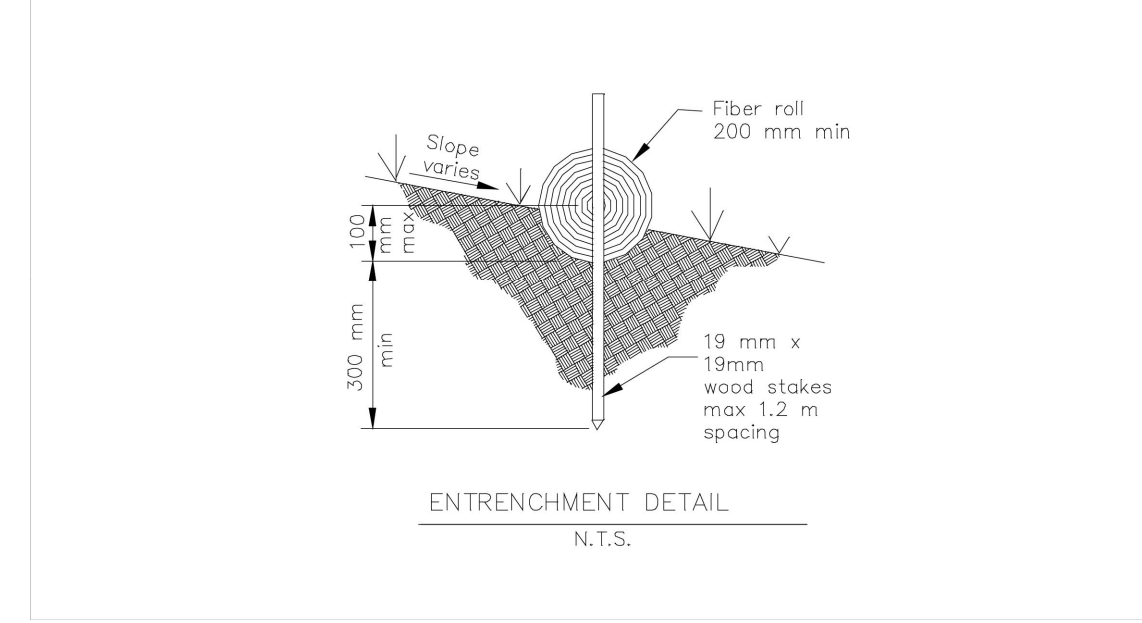
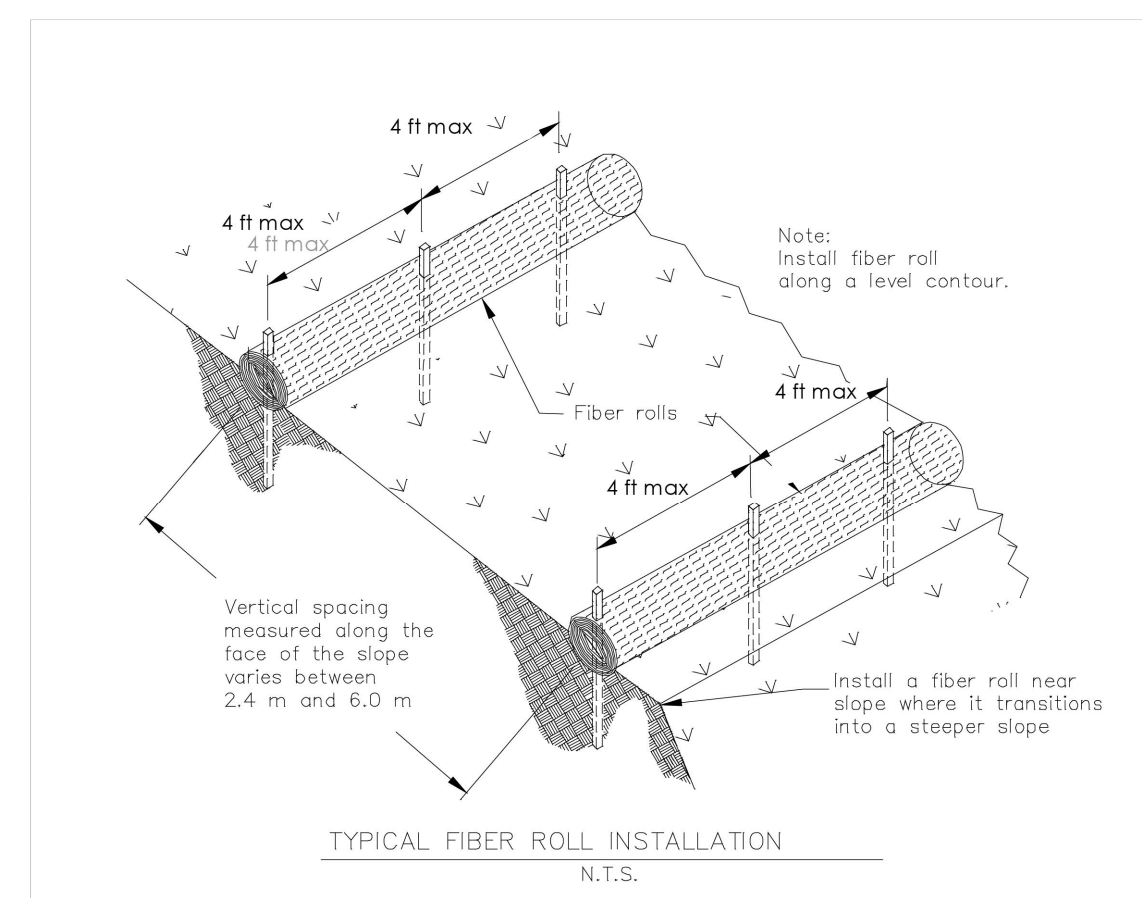
Wind Erosion and Dust Control EC-5

- Discharges from the site can occur if excessive water is applied resulting in runoff.
- Factors such as soil type, temperature, humidity, and wind velocity will impact the effectiveness of the dust control measures.
- Wind fences do not control sediment carried in storm water runoff. Install additional sediment and erosion control measures to capture sediment in runoff (see Section 9).

Standards and Specifications:

- Follow District Health Department standards and specifications when applying dust control measures at construction sites.
 - Wind fences are barriers made of small, evenly spaced wooden slats or fabric. They are erected to reduce wind velocity and to trap blowing sand.
 - Erect wind fences perpendicular to the prevailing wind source. Multiple fences may be erected to help prevent wind erosion. Software packages are available to assist with proper design.
 - Reduce disturbance of soil crust.
 - Other techniques used to control and minimize dust include the application of coarse gravel.
 - Magnesium chloride, resins, and lignin sulfonate may be used on roads where revegetation will not occur as these products inhibit plant establishment.
- Application**
- Moistening road surfaces is an effective dust control method for traffic routes.
 - This technique is short term and requires constant reapplication especially in windy areas.
 - Apply 0.03 - 0.3 gal/yd² uniformly to pre-wet the soil surface.
 - Apply 0.125 gal/yd² every 20-30 minutes.
 - Reactivate chemicals in dry climates by rewetting with 0.1 - 0.2 gal/yd².
 - Avoid ponding.
 - Use a pressure-type distributor or a pipeline equipped with a spray system to evenly distribute water for dust control.
 - Provide a positive means to shutoff distribution equipment.
 - Provide at least one water truck or hydroseeder to apply water or dust palliative to the construction site.
 - If non-potable water is used for dust control, all tanks, pipes, and other conveyances shall be clearly marked with "NON-POTABLE WATER - DO NOT DRINK".

Fiber Rolls SC-1



Graphic adapted and used with permission of Caltrans.

5 FIBER ROLL DETAIL
C1.0 NOT TO SCALE

REV.	DATE	BY	APPD

Reno Tahoe Geo Associates, Inc.
CONSULTING CIVIL ENGINEERS
P.O. Box 18449 Reno, Nevada 89511
TEL (775)853-9100 FAX (775)853-9199

TEMPORARY BMP PLAN
GAIL WILLEY LANDSCAPING, INC
190 US HWY 395 SOUTH
APN: 050-220-37

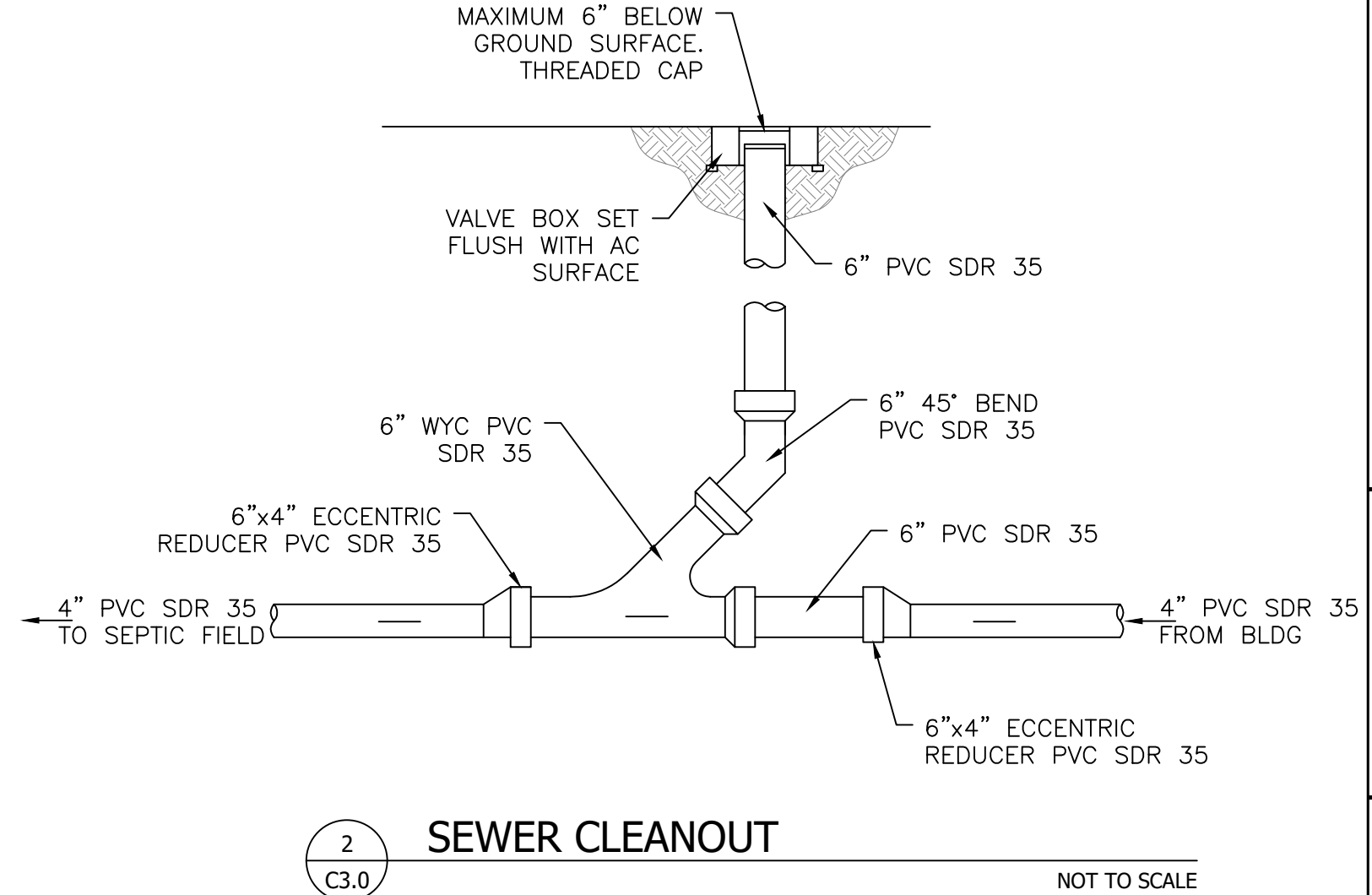
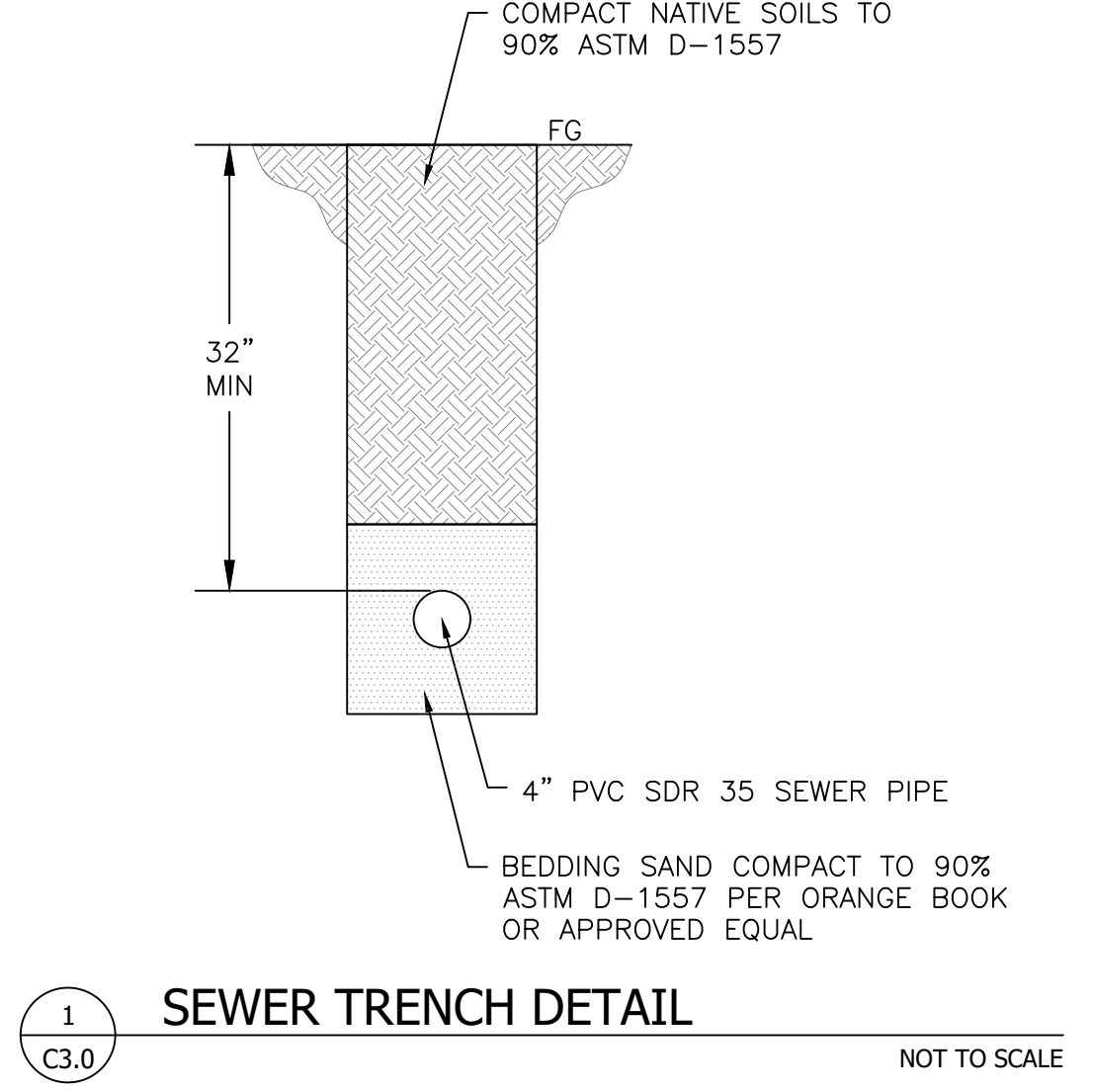
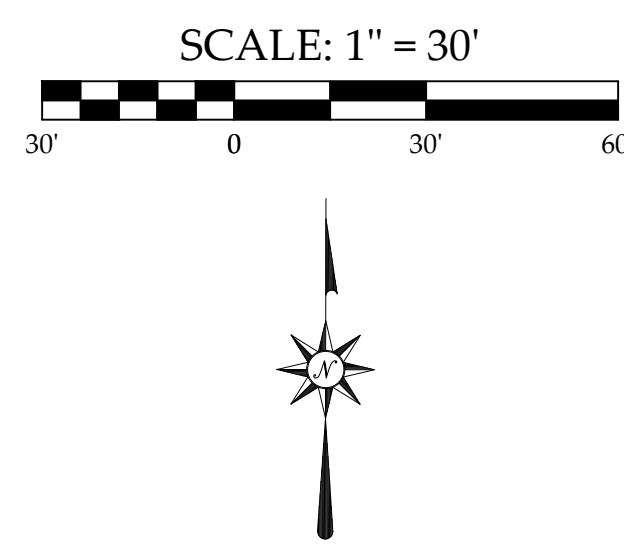
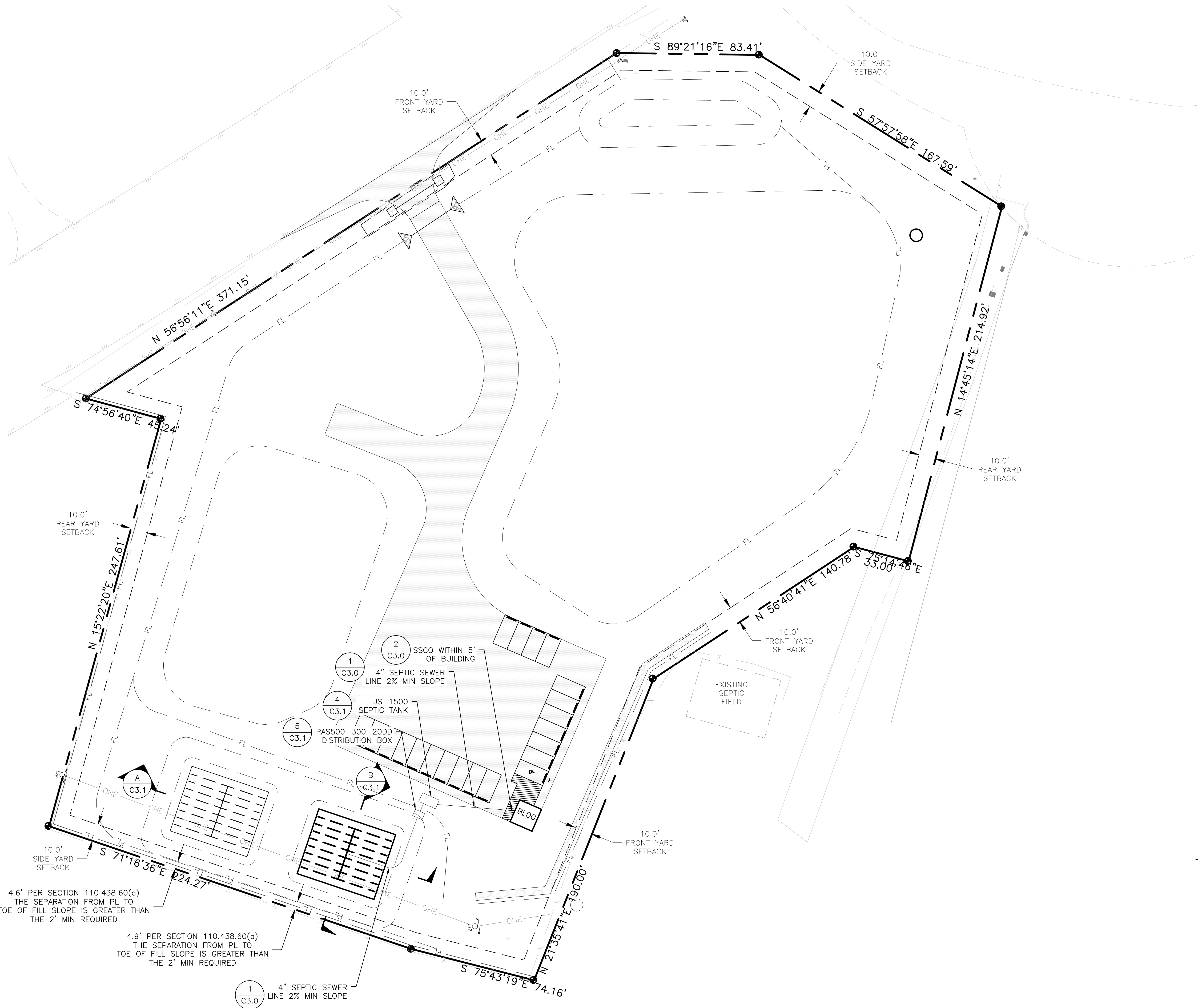
WASHOE COUNTY NEVADA

ENGINEER-SCALE
CHRISTINA A. BRENNAN
Exp. 12/31/24
No. 24133

DATE: JUNE 13, 2023
JOB NUMBER: 21100.004
DESIGNED BY: CEC
DRAWN BY: MEM
CHECKED BY: CEC

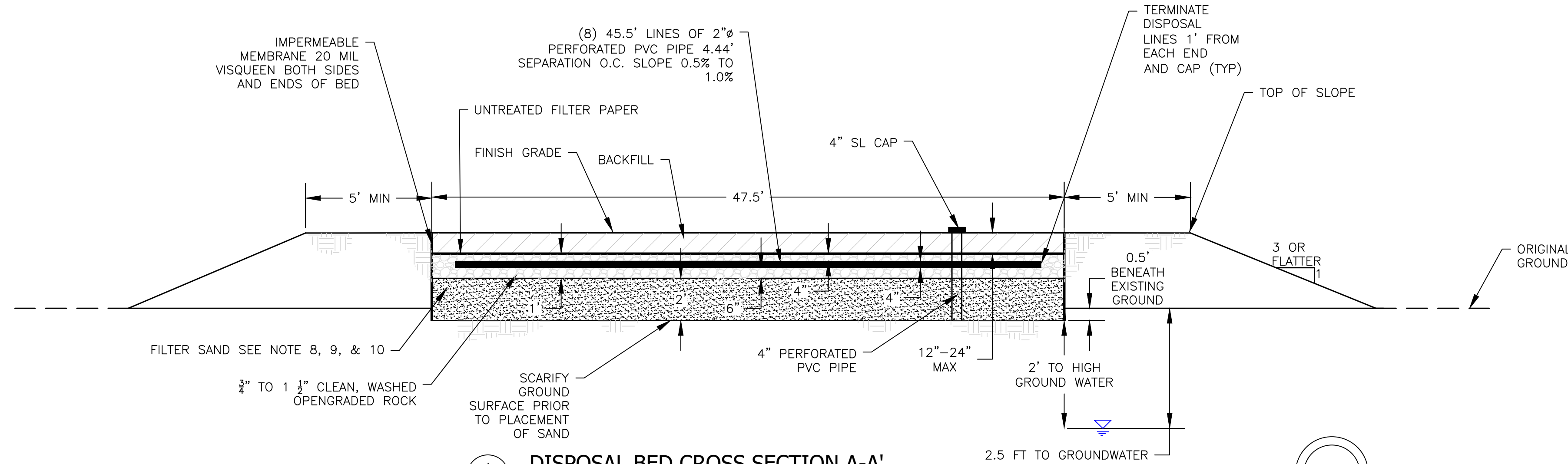
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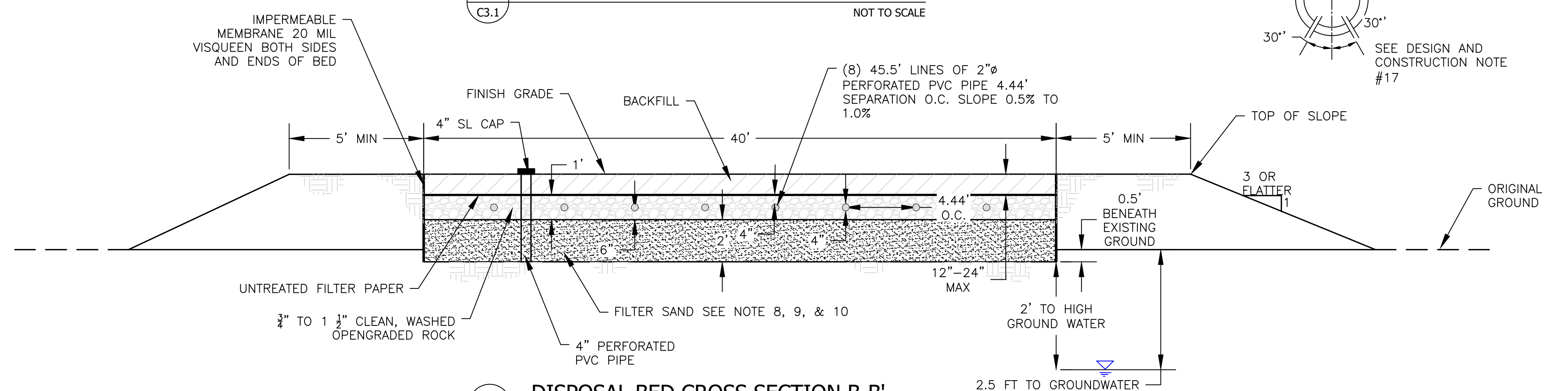


ON-SITE DISPOSAL PLAN

APPD	
BY	
DATE	
REV.	
CONSULTING CIVIL ENGINEERS	
P.O. Box 18449 Reno, Nevada 89511	
TEL (775)853-9100 FAX (775)853-9199	
ON-SITE DISPOSAL PLAN	
GAIL WILLEY LANDSCAPING, INC 190 US HWY 395 SOUTH APN: 050-220-37	
DATE: JUNE 13, 2023 JOB NUMBER: 21100.004 DESIGNED BY: CEC DRAWN BY: CAB CHECKED BY: CEC	
SHEET C3.0	



1 DISPOSAL BED CROSS SECTION A-A' NOT TO SCALE



2 DISPOSAL BED CROSS SECTION B-B' NOT TO SCALE

DESIGN AND CONSTRUCTION NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENTLY ADOPTED WASHOE COUNTY DISTRICT HEALTH DEPARTMENT SEWAGE, WASTEWATER, AND SANITATION REGULATIONS (S.W.S.), AMENDED JULY 3, 2013, AS WELL AS NEVADA STATE HEALTH DEPARTMENT AT TIME OF THIS DESIGN.
- NO PUBLIC SEWER IS AVAILABLE WITHIN 400 FEET OF THE SUBJECT PARCEL.
- NO WELLS AND/OR ON-SITE SEWAGE DISPOSAL SYSTEMS ARE LOCATED WITH 200' OF THE SUBJECT PROPERTY OR AS SHOWN.
- NO DOMESTIC WELLS ARE LOCATED WITHIN 100 FEET OF THE PROPOSED SYSTEM.
- ALL HORIZONTAL SEPARATIONS SHALL BE IN ACCORDANCE WITH NAC: CHAPTER 444 - SANITATION SECTION 444.8361, NUMBER 6.
- NAC: DISPOSAL BED DIMENSIONING SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 444 - SANITATION SECTION 444.8361, NUMBER 1.
- DESIGN PERCOLATION RATE IS 40 minutes/inch.
- FILTER SAND SHALL HAVE AN EFFECTIVE SIZE (D10) BETWEEN 0.3mm (No. 50 SIEVE APPROXIMATELY) AND 0.6mm (No. 30 SIEVE APPROXIMATELY) WITH 95% PASSING (D95), THE No. 4 SIEVE. UNIFORMITY COEFFICIENT (D60/D10) SHALL BE IN ACCORDANCE WITH CHAPTER 444 - SANITATION SECTION 444.8361, NUMBER 7.
- A REPRESENTATIVE SAMPLE OF THE FILTER SAND SHALL BE TESTED BY A RECOGNIZED TESTING FACILITY AND CERTIFIED AS MEETING THE ABOVE REQUIREMENTS. THE SUPPLIER SHALL PROVIDE CERTIFICATION AS TO THE QUALITY OF THE SAND. IT IS RECOMMENDED THAT THE SAND BE TESTED PRIOR TO DELIVERY TO SITE.
- SETTLE SAND BY FLOODING TRENCH BEFORE PLACEMENT OF GRAVEL AND DRAIN PIPE IN DISPOSAL FIELD.
- ALL PIPE BENDS TO BE 45° OR LESS.
- PLACE 1 FOOT OF SOLID PIPE FROM DISTRIBUTION BOX FEED LINES THRU EDGE OF DISPOSAL FIELD PRIOR TO USE OF PERFORATED PIPE. TERMINATE PERFORATED PIPES 1 FOOT FROM END OF FIELD AND CAP ALL ENDS.
- MINIMUM BURY OVER SEWER SERVICE LINES (GRAVITY OR PRESSURE) IS 30 INCHES.
- PROPOSED SEWAGE DISPOSAL SYSTEM AS SHOWN IS ORIENTED TO PROVIDE SUITABLE HORIZONTAL DISTANCE TO DAYLIGHT OF SLOPES. ANY MODIFICATIONS/CHANGES TO THE LOCATION OF SYSTEM COMPONENTS AS SHOWN WILL REQUIRE RE-EVALUATION OF SLOPE REQUIREMENTS AND POTENTIAL RE-DESIGN OF THE DISPOSAL SYSTEM.
- DISTRIBUTION MANIFOLD SHALL BE CEMENTED TOGETHER AND BE PLACED IN SUCH A MANNER AS TO PROVIDE UNIFORM DISTRIBUTION TO EACH PERFORATED DISPOSAL LINE. PERFORATED DISPOSAL LINES SHALL BE LAID AT SLOPES WHICH PROVIDE FOR UNIFORM DISTRIBUTION OF EFFLUENT ACROSS THE DISPOSAL BED.
- DISPOSAL SYSTEM DESIGN UTILIZES A SAND FILTER BED SYSTEM BASED ON A SEASONAL HIGH GROUNDWATER DEPTH OF 2.5 FEET BELOW GROUND SURFACE. BED EXCAVATION SHALL BE INSPECTED PRIOR TO PLACEMENT OF VISQUEEN OR SAND (SEE INSPECTION NOTES THIS SHEET).
- DISTRIBUTION PIPING SHALL BE 2" SCHEDULE 40 PVC, AND SHALL BE STRAIGHT. 2 ROWS OF 3" DIAMETER HOLES SHALL BE DRILLED AT 6" O.C. ALONG THE BOTTOM OF THE PIPING AT 30' ON EITHER SIDE OF THE VERTICAL. PIPES SHALL BE LAID WITH HOLES DOWN AT A UNIFORM GRADIENT THAT WILL PROVIDE UNIFORM FLOW THRU HOLES.

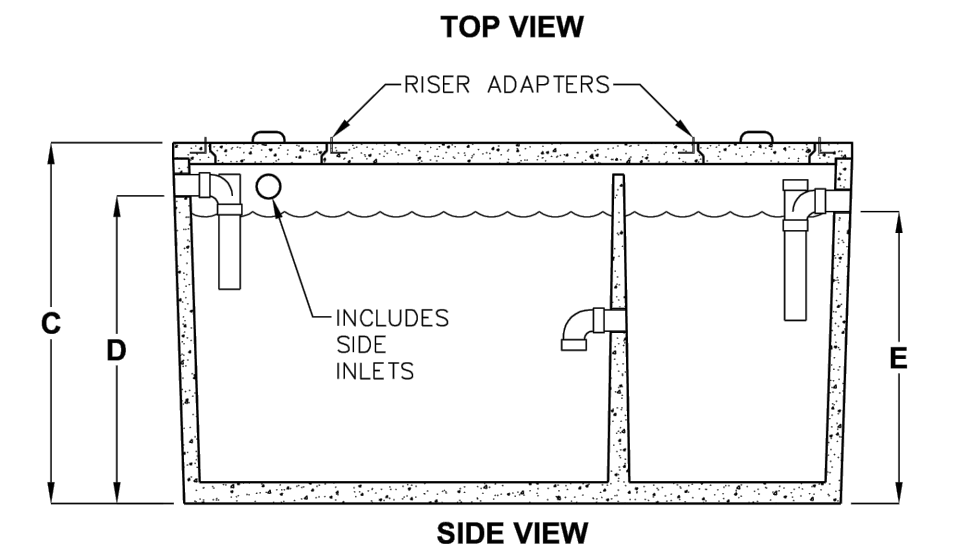
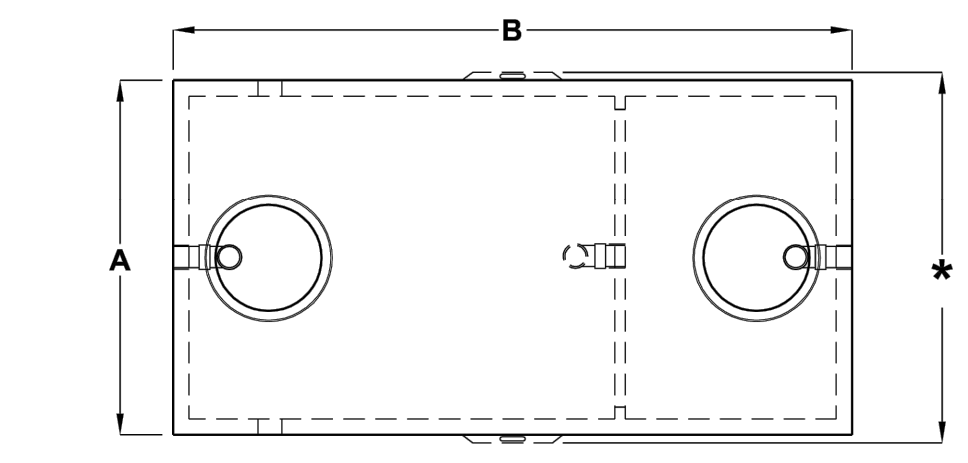
INSPECTION NOTES:

- THIS IS AN ENGINEERED SEPTIC DISPOSAL SYSTEM AND INSPECTION IS REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY RENO TAHOE GEO & ASSOCIATES, INC. 48 HOURS (minimum) SUCH THAT THE FOLLOWING INSPECTIONS CAN BE COORDINATED:
 - EXCAVATION OF DISPOSAL BED AND SCARIFICATION OF SOIL BOTTOM.
 - PLACEMENT OF FILTER SAND AND INSPECTION OF MEMBRANE ON SIDEWALLS OF BED.
 - PLACEMENT OF DRAINROCK AND PIPING ABOVE SAND.
 - WET TEST OF PIPING PRIOR TO COVERING WITH DRAINROCK.
 - WET TEST OF PUMP ACTIVATION SWITCHING AND ALARM.

4 SEPTIC TANK DETAIL NOT TO SCALE

NOT TO SCALE

RESIDENTIAL SEPTIC TANKS LISTED BY UPC®



MODEL NUMBER	LIQUID CAPACITY (GALLONS)	DIM A	DIM B	DIM C	DIM D	DIM E	MINIMUM EXCAVATION WIDTH*	MINIMUM EXCAVATION LENGTH
JS-1000	1000	5'-1"	8'-2"	5'-8"	4'-10"	4'-7"	6'-10"	9'-2"
JS-1200	1200	5'-9"	8'-6"	5'-8"	4'-10"	4'-7"	7'-6"	9'-6"
JS-1500	1500	5'-7"	10'-8"	5'-8"	4'-10"	4'-7"	7'-4"	11'-8"
JS-2000	2000	4'-11"	13'-11"	5'-8"	4'-10"	4'-7"	6'-8"	16'-11"
JS-2500	2500	5'-9"	16'-10"	5'-8"	4'-10"	4'-7"	7'-6"	17'-10"
JS-3000	3000	5'-9"	16'-10"	6'-5"	5'-7"	5'-4"	7'-6"	17'-10"

*OVERALL WIDTH CAN VARY WITH TANK MODEL. USE EXCAVATION WIDTH FOR SITE PLANNING.

DESIGN LOAD: NON-TRAFFIC WITH 3' EARTH COVER MAXIMUM AT 500 PSF.

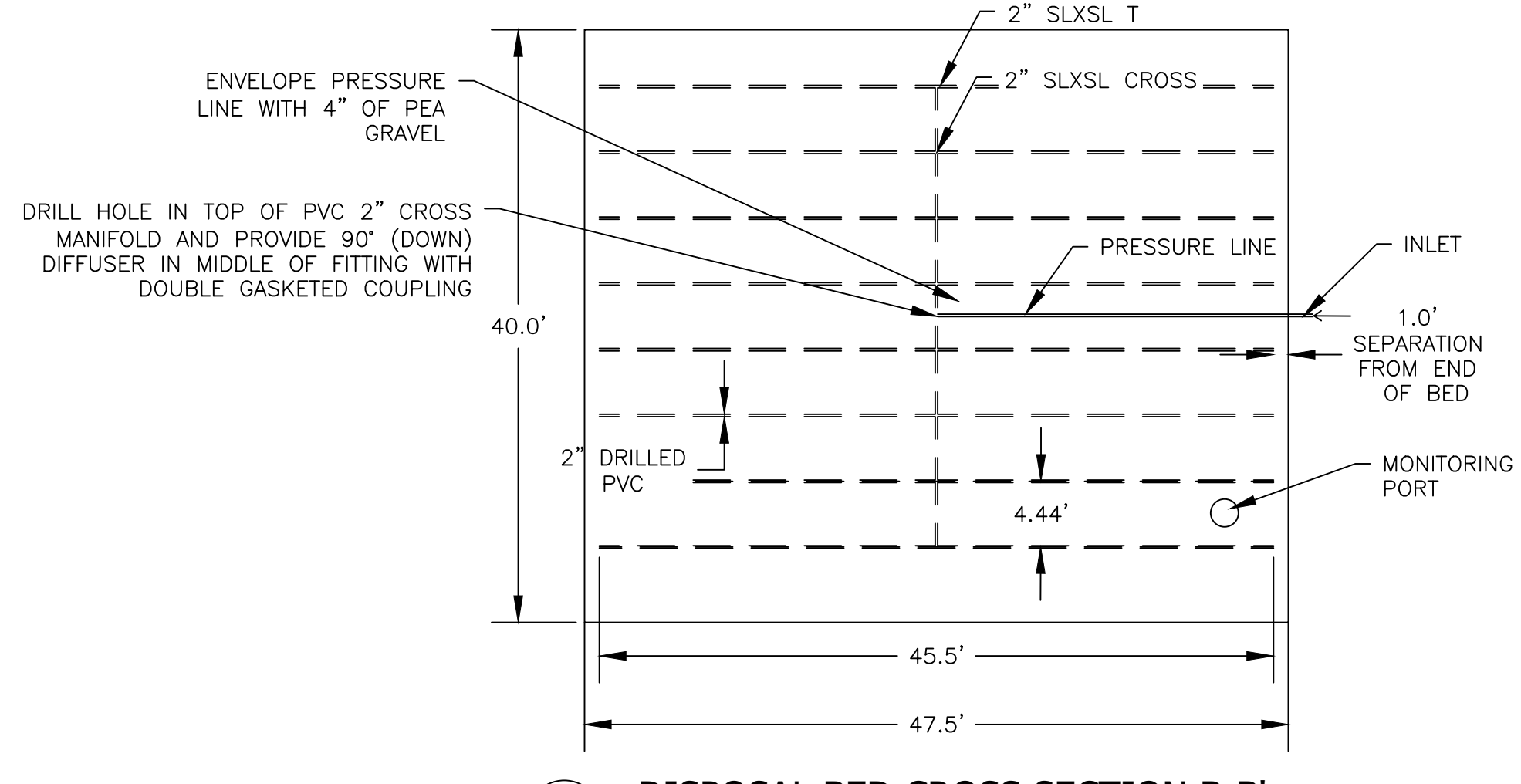
FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

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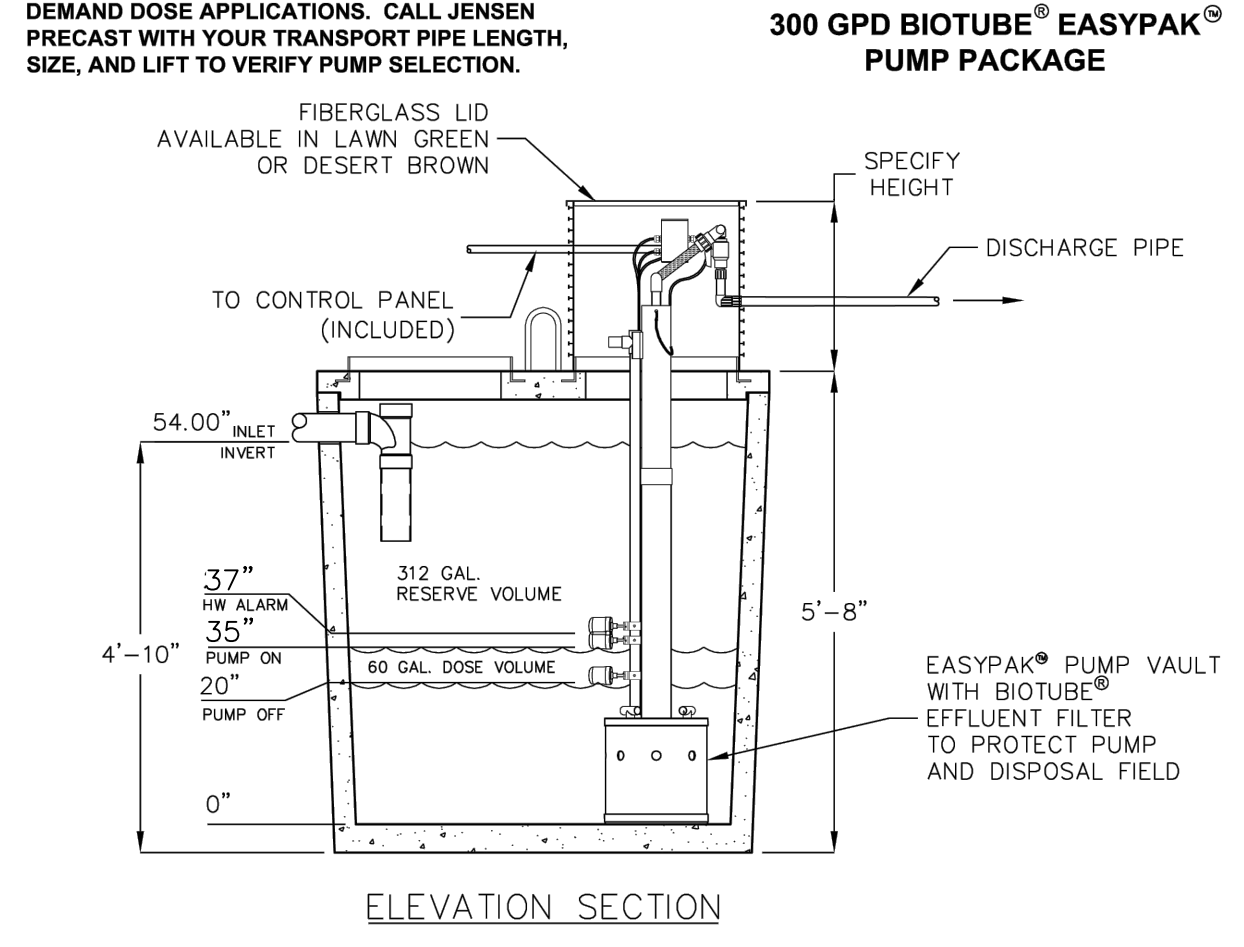
DESIGN AND CONSTRUCTION NOTES:

BUILDING TYPE: SMALL COMMERCIAL OFFICE BUILDING WITH FOLLOWING FIXTURES:
 (2) TOILETS = 6 FU
 (2) SINK = 2 FU
 (1) COMMERCIAL SINK = 4 FU
 (1) WASHING MACHINE = 8 FU
 TOTAL FU = 20 X 2.5 GAL (EA X 3) = 1500 GALLONS
 BASED ON FIXTURE UNITS A 1500 GALLON SEPTIC TANK IS REQUIRED
 SOIL TYPE: SILTY SAND (SM)
 GROUND WATER SEASONAL MAX.: 2.5 FEET
 DEPTH TO IMPERVIOUS SOIL: NOT APPLICABLE
 DESIGN PERCOLATION RATE: 40 minutes per inch
 LEACH FIELD TYPE: MOUNDED SAND FILTER BED SYSTEM
 DESIGN: $Q = \frac{5}{t}$ WHERE Q=APPLICATION RATE (gpd/sq.ft.)
 t =DESIGN PERCOLATION RATE (minutes/inch)
 (BED SIZING WILL BE CONTROLLED BY PERCOLATION RATE)
 $Q = \frac{5}{40} = 0.791 \text{ gpd/sq.ft.}$
 FOR MAIN RESIDENCE
 $\frac{1500 \text{ gpd}}{0.791 \text{ gpd/sq.ft.}} = 1897 \text{ sq.ft. REQUIRED}$
 BED SIZE: 40'X47.5' = 1900sq.ft. > 1897 sq.ft. "ok"



3 DISPOSAL BED CROSS SECTION B-B' NOT TO SCALE

PUMP AND LIFT STATION DEMAND DOSE-RESIDENTIAL



MODEL	DISCHARGE	MAX FLOW RATE
PAS500-300-100D	STANDARD	10
PAS500-300-100D-DB	DRAIN BACK*	10
PAS500-300-100D-CW	COLD WEATHER	10
PAS500-300-150D	STANDARD	15
PAS500-300-150D-DB	DRAIN BACK*	15
PAS500-300-150D-CW	COLD WEATHER	15
PAS500-300-200D	STANDARD	20
PAS500-300-200D-CW	COLD WEATHER	20

*ADJUST DOSE VOLUME TO INCLUDE TRANSPORT PIPE VOLUME

BIOTUBE® AND EASYPAK® ARE TRADEMARKS OF ORENCO SYSTEMS, INC. Jensen Precast reserves the right to make changes to product design and/or dimensions without notice. Please contact Jensen Precast whenever necessary for confirmation or advice on product design.



5 PUMP STATION DETAIL NOT TO SCALE

NOT TO SCALE

APPD
BY
DATE
REV.

Reno Tahoe Geo Associates, Inc.
CONSULTING CIVIL ENGINEERS
P.O. Box 18449
Reno, Nevada 89511
TEL (775)853-9100
FAX (775)853-9199

SEPTIC DETAILS AND NOTES

GAIL WILLEY LANDSCAPING, INC
190 US HWY 395 SOUTH
APN: 050-220-37

NEVADA
WASHOE COUNTY

PROFESSIONAL ENGINEER - CIVIL
CHRISTINA A. BRENNAN
Exp. 12/31/24
No. 24135
DESIGNED: 6/13/23

DATE: JUNE 13, 2023
JOB NUMBER: 21100.004
DESIGNED BY: CEC
DRAWN BY: CAB
CHECKED BY: CEC

SHEET
C3.1