12270 La Barr Meadows Carbonizer and Outdoor Storage Use Permit

Attachment List

- 1. Vicinity/Aerial Map
- 2. Universal/Use Permit Application
- 3. Applicant's Project Description
- 4. Aquatic Resource Delineation Exhibit
- 5. Tigercat Carbonizer Brochure
- 6. Site Plan
- 7. Cargo Container Elevations

Technical Reports and Special Studies

The technical reports and special studies listed below related to this project can be found at the following link, and may be updated during the course of project processing: https://www.cityofgrassvalley.com/pod/active-projects

- a. Biological Resource Inventory
- b. Environmental Noise Assessment

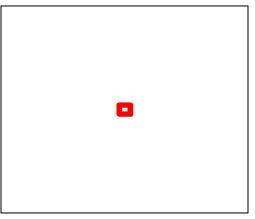
12270 LaBarr Meadows, Aerial



Land Value: Improvement Value: Acreage: Unknown Zoning: M-2 GVCity,M-1 GVCity General Plan: M-I GVCity Fire District: Grass Valley Elementary Sch. Dist: Grass Valley Water District: Nevada Irrigation Dist: NID Water - Zone 5.0 Public Utility: Park District: Service Area: Solid Waste Grass Valley - Csa 32 Snow Load: 43 lbs/sqft Wind Exposure: C Climate Zone: 11 Elevation: 2,375 feet

Parcel APN: 022-160-038 12270 LA BARR MEADOWS ROAD

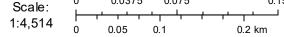
Overview



Scale:	0	0.0375	0.075		0.	15 mi
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1:4,514	0	0.05	0.1		0.2 km	

12270 LaBarr Meadows, Vicinity





CITY OF GRASS VALLEY Community Development Department 125 E. Main Street Grass Valley, California 95945 (530) 274-4330 (530) 274-4399 fax

UNIVERSAL PLANNING APPLICATION

* DUE WITH EVERY PLANNING APPLICATION *



Application Types		
Application Types Administrative Limited Term Permit \$698.00 Zoning Interpretation \$224.00 Development Review Minor Development Review – 10,000 or less sq. ft. \$1,813.00 Major Development Review – over 10,000 sq. ft. \$3,293.00 Conceptual Review - Minor \$459.00 Conceptual Review - Major \$782.00 Plan Revisions – Staff Review \$316.00 Plan Revisions – DRC / PC Review \$831.00 Extensions of Time – Staff Review \$607.00 Entitlements Annexation \$7,843.00 (deposit) Condominium Conversion \$4,923.00 (deposit) Development Agreement – New \$18,463.00 (deposit)	Sign Reviews Minor – DRC, Historic Distrior or other districts having spessard \$313.00 Major – Master Sign Prograssing \$1,279.00 Exception to Sign Ordinance \$964.00 Subdivisions Tentative Map (4 or fewer logs) \$3,493.00 Tentative Map (5 to 10 lots) \$4,857.00 Tentative Map (11 to 25 lots) \$4,857.00 Tentative Map (26 to 50 lots) \$8,915.00 Tentative Map (51 lots or most) \$13,049.00 Minor Amendment to Approcience (staff) \$1,114.00 Major Amendment to Approcience \$765.00 Tentative Map Extensions \$1,047.00 Tentative Map - Lot Line Action \$1,200.00	cific design criteria ms e ots) s) ore) oved Map oved Map
	\$1,200.00 Use Permits Minor Use Permit - Staff Re \$480.00 Major Use Permit - Plannin \$3,035.00 Variances Minor Variance - Staff Revi \$518.00	eview g Commission Review ew
Actual costs - \$16,966.00 (deposit) Specific Plan Review - Amendments / Revisions Actual costs - \$6,986.00 (deposit) Zoning Text Amendment \$3,102.00 Zoning Map Amendment \$5,073.00	Major Variance - Planning (\$2,029.00 <u>Application</u> Major Use Permit	<u>Fee</u> 3,035.00
Environmental Environmental Review – Initial Study \$1,713.00 Environmental Review – EIR Preparation \$31,604.00 (deposit) Environmental Review - Notice of Determination \$149.00 (+ Dept. of Fish and Game Fees) Environmental Review - Notice of Exemption \$149.00(+ County Filing Fee)	Total:	\$3,035.00

Below is the Universal Planning Application form and instructions for submitting a complete planning application. In addition to the Universal Planning Application form, a project specific checklist shall be submitted. All forms and submittal requirements must be completely filled out and submitted with any necessary supporting information.

Upon receipt of the <u>completed forms, site plan/maps, and filing fees</u>, the Community Development Department will determine the completeness of the application. This review will be completed as soon as possible, but within thirty (30) days of the submittal of the application. If the application is determined to be complete, the City will begin environmental review, circulate the project for review by agencies and staff, and then schedule the application for a hearing before the Planning Commission.

If sufficient information <u>has not</u> been submitted to adequately process your application, you will receive a notice that your application is incomplete along with instructions on how to complete the application. Once the City receives the additional information or revised application, the thirty (30) day review period will begin again.

Since the information contained in your application is used to evaluate the project and in the preparation of the staff report, it is important that you provide complete and accurate information. Please review and respond to each question. If a response is not applicable, N/A should be used in the space provided. Failure to provide adequate information could delay the processing of your application.

Additional information may be obtained at <u>www.cityofgrassvalley.com</u> regarding the 2020 General Plan and Zoning. You may also contact the Community Development Department for assistance.

ADVISORY RE: FISH AND GAME FEE REQUIREMENT

Permit applicants are advised that pursuant to Section 711.4 of the Fish and Game Code a fee of **\$3,539.25** for an Environmental Impact Report and **\$2,548.00** for a Negative Declaration* shall be paid to the County Recorder at the time of recording the Notice of Determination for this project. This fee is required for Notices of Determination recorded after January 1, 1991. A Notice of Determination cannot be filed and any approval of the project shall not be operative, vested, or final until the required fee is paid. This shall mean that building, public works and other development permits cannot be approved until this fee is paid. These fees are accurate at the time of printing, but **increase the subsequent January 1**st of each year.

This fee is <u>not</u> a Grass Valley fee; it is required to be collected by the County pursuant to State law for transmission to the Department of Fish and Game. This fee was enacted by the State Legislature in September 1990, to be effective January 1, 1991.

*If the City finds that the project will not have an impact on wildlife resources, through a De Minimus Impact Finding, the City will issue certificate of fee exemption. Therefore, this fee will not be required to be paid at the time an applicant files the Notice of Determination with the County Recorder. The County's posting and filing fees will still be required.

Applicant/Representative Name: County of Nevada	Property Owner Name: County of Nevada
Address: 10014 North Bloomfield Rd.	Address: 10014 North Bloomfield Rd.
Nevada City CA 95959	Nevada City CA 95959
Phone: 530-470-2563	Phone: 530-470-2637
E-mail: Ronald.Nunnink@nevadacountyca.gov	E-mail: Justin.Drinkwater@nevadacountyca.gov

Architect	Engineer	
Name:	Name: SCO Planning & Engineering	
Address:	Address: 140 Litton Dr	
	Grass Valley CA 95945	
Phone: ()	Phone: (530) 272-5841	
E-mail:	E-mail: martinwood@scopeinc.net	

- 14

1. Project Information a. Project Name Green Waste Management Site

- b. Project Address 12270 La Barr Meadows Rd #1 Grass Valley CA 95949
- c. Assessor's Parcel No(s) 022-160-038 (include APN page(s))
- d. Lot Size 21,48acres

3.

2. Project Description See attached

General Plan Land Use: IND	4. Zoning District: M-1 & M-2 GVCity

4. Cortese List: Is the proposed property located on a site which is included on the Hazardous Waste and Substances List (Cortese List)? Y ____ N ×___

The Cortese List is available for review at the Community Development Department counter. If the property is on the List, please contact the Planning Division to determine appropriate notification procedures prior to submitting your application for processing (Government Code Section 65962.5).

- 5. Indemnification: The City has determined that City, its employees, agents and officials should, to the fullest extent permitted by law, be fully protected from any loss, injury, damage, claim, lawsuit, expense, attorney's fees, litigation expenses, court costs or any other costs arising out of or in any way related to the issuance of this permit, or the activities conducted pursuant to this permit. Accordingly, to the fullest extent permitted by law, the applicant shall defend, indemnify and hold harmless City, its employees, agents and officials, from and against any liability, claims, suits, actions, arbitration proceedings, regulatory proceedings, losses, expenses or costs of any kind, whether actual, alleged or threatened, including, but not limited to, actual attorney's fees, litigation expenses and court costs of any kind without restriction or limitation, incurred in relation to, as a consequence of, arising out of or in any way attributable to, actually, allegedly or impliedly, in whole or in part, the issuance of this permit, or the activities conducted pursuant to this permit. Applicant shall pay such obligations as they are incurred by City, its employees, agents and officials, and in the event of any claim or lawsuit, shall submit a deposit in such amount as the City reasonably determines necessary to protect the City from exposure to fees, costs or liability with respect to such claim or lawsuit.
- **6. Appeal:** Permits shall not be issued until such time as the appeal period has lapsed. A determination or final action shall become effective on the 16th day following the date by the appropriate review authority, where no appeal of the review authority's action has been filed in compliance with Chapter 17.91 of the City's Development Code.

The 15-day period (also known as the "appeal" period in compliance with Chapter 17.91) begins the first full day after the date of decision that the City Hall is open for business, and extends to the close of business (5:00 p.m.) on the 15th day, or the very next day that the City Hall is open for business.

I hereby certify, to the best of my knowledge, that the above statements are correct.

Property Owner/*Representative Signature:

*Property owner must previde a consent letter allowing representative to sign on their behalf.

Applicant Signature:

--OFFICE USE ONLY--

Application No.:	Date Filed:	
Fees Paid by:	Amount Paid:	
Other Related Application(s):	-	

CITY OF GRASS VALLEY Community Development Department 125 E. Main Street Grass Valley, California 95945 (530) 274-4330 (530) 274-4399 fax

USE PERMIT



SUPPLEMENTAL APPLICATION INFORMATION

This document will provide necessary information about the proposed project. It will also be used to evaluate potential environmental impacts created by the project. Please be as accurate and complete as possible in answering the questions. Further environmental information could be required from the applicant to evaluate the project.

PLEASE PRINT CLEARLY OR TYPE USE A SEPARATE SHEET, IF NECESSARY, TO EXPLAIN THE FOLLOWING:

- I. Project Characteristics:
 - A. Describe all existing buildings and uses of the property: Primarily cleared, but vacant; DTSC clean up site-capped with asphalt cap; remnant foundation from previous mill.

B. Describe surrounding land uses:

North:	Vacant
South:	County Corp Yard
East:	Industrial Building
West:	Hwy 49 State Rd

- C. Describe existing public or private utilities on the property: NID waterline along northerly boundary. Gas, electric, telephonr, communication located to East at La Barr Meadows Rd.
- D. Proposed building size (list by square feet, if multiple stories, list square feet for each floor): n/a No proposed buildings, temporary facilities for green waste processing.
- E. Proposed building height (measured from average finished grade to highest point): n/a

F. Proposed building site plan:				
Green waste site(1) -	building coverage	153,085	Sq. Ft.	<u>16.35</u> % of site
ac/gravel(2)	surfaced area	90,274	Sq. Ft.	9.65 % of site
(3)	landscaped area	0	Sq. Ft.	0% of site
(4)	left in open space	692,141	Sq. Ft.	74 % of site
	Total	935,500	Sq. Ft.	100 %

G. Construction phasing: If the project is a portion of an overall larger project, describe future phases or extension. Show all phases on site plan. One phase is anticipated.

- H. Exterior Lighting:
 - 1. Identify the type and location of exterior lighting that is proposed for the project.______ Lighting on temp trailers will be wall pack LED, shielded downlight in conformance with Grass Valley standards. One temp light will be shielded downlight at carbonizor 12' max height.
 - Describe how new light sources will be prevented from spilling on adjacent properties or roadways. <u>n/a</u>
- I. Total number of parking spaces required (per Zoning Code): n/a
- J. Total number of parking spaces provided: 15 +- Area lends itself to allow for additional parking.

- K. Will the project generate new sources of noise or expose the project to adjacent noise sources? Noise generated from the site will include front end loader, carbonizer.
- L. Will the project use or dispose of any potentially hazardous materials, such as toxic substances, flammables, or explosives? If yes, please explain: <u>Generally no, diesel will be</u> stored on site in conformance with Nevada County Environmental Health for onsite fron loader and carbonizer.
- M. Will the project generate new sources of dust, smoke, odors, or fumes? If so, please explain: Dust will be mitigated by use of water applied as necessary.

II. Project Characteristics:

- A. Days of operation (e.g., Monday Friday):
- B. Total hours of operation per day: Times of operation (e.g., 8 - 5, M - F):
- C. If fixed seats involved, how many: <u>n/a</u> If pews or benches, please describe how many and the total length: <u>n/a</u>
- D. Total number of employees:

- E. Anticipated number of employees on largest shift: _
- III. If an outdoor use is proposed as part of this project, please complete this section.

A. Type of use:

	Processing <u>×</u> Other	Storage ×
B. Area devoted to outdoor use (show	n on site plan).	
Square feet/acres 214,491 sf	Percentage of site	22.9%
C. Describe the proposed outdoor use	See attached project description	n

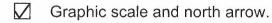
USE PERMITS SITE PLAN REQUIREMENTS

A site plan is a scale drawing that depicts a property's size and shape, existing improvements on the property, and improvements or additions which are intended to be added. The site plan should be as complete and accurate as possible since it will be used by several City departments to check various requirements of the development application. Please place a check or N/A on the line provided in the below checklist. Submit this page along with the map and application packet.

A. Submittal Checklist:

- One completed copy of Universal Application form.
- One completed copy of the Environmental Review Checklist (if applicable).
- One electronic copy of the site plan and all other applicable plans/information.
- Preliminary Title Report dated no later than 6 months prior to the application filing date.
- The appropriate non-refundable filing fee.

B. Site Plan:



- Show location and dimensions of existing and proposed structures and walls (identify existing as a solid line and proposed as a dashed line).
- \square Label the use of all existing and proposed structures or area.



Project Description Green Waste Management Site

The County of Nevada is submitting a Use Permit application for Green Waste Management and for a Senior Firewood Program for a site (APN 035-160-038-000) located west of La Barr Meadows Road immediately north of the County Corporation yard. This site was previously approved with a similar Use Permit in 2017 for green waste processing prior to the property being annexed into the City of Grass Valley and being purchased by the County of Nevada. This operation is a vital public need as a receiver site for Countywide green waste collection and the processing of those materials.

The site is generally vacant with the exception of some gravel and earthen access driveways, some fencing, remnants of the "old mill site" foundation and an asphalt encapsulation pad previously constructed with approvals from DTSC. Additionally, there is a 12" NID waterline and easement running through the northerly portion of the property. The site is generally covered with native grasses and predominantly ponderosa pine trees in certain areas of the site.

The site is proposed to be accessed from the County's recently improved primary access to the Corporation yard with paved access to the southerly property line of the subject parcel. Access to Labarr Meadows Road includes a center left turn lane and acceleration lane and right in-right out tapers for safe ingress/egress into the site.

The southwesterly corner is proposed to be used for green waste management and the existing asphalt encapsulation pad is proposed for the Gold Country Senior Services, Senior Fire Wood Program. Preparation of the site is minimal as the asphalt pad currently exists and the green waste southwesterly portion of the site was previously operating similarly to the proposed project. Preparation of the site will require construction of a 20' wide aggregate base driveway access up to 200' long connecting the existing southwesterly access to the existing asphalt pad. Additionally, trenching of a 2" domestic waterline from the existing corporation yard to the two (2) primary use areas for field water spigots is proposed. Lastly, mobilization and setup of the various mobile and temporary equipment as shown on the proposed site plan would be necessary for the site to be fully operational for the described uses.

The specifics of each use is described in more detail as follows:

Green Waste Management:

Green Wate Management Site ~ Project Description

Date: July 15, 2024 To: City of Grass Valley Re: SCO Job No. 202358

Overview:

This site is proposed to manage the acceptance of general tree logs and tree debris. Tree logs and tree debris will be delivered to the site and will placed in the raw wood debris storage areas in log deck piles up to 20 feet in height. During predominantly Spring and Summer months (April – October) debris will be accepted and Stored and during November to May a wood processing machine (Tigercat 6040" Carbonizer") will convert/process the existing unmerchantable wood from waste to a useable biochar product. This useable product is then loaded in trailers/bins and delivered to a receiver location. Wood debris will be accepted from both County operations along with P.G.&E.

Scope of Operations / Traffic:

Peak Hours of Operation (April to October (7 months)):

 7 AM – 3:30 PM, Monday through Thurs. and Friday operation 7 AM – Noon.

Delivery Trips: We anticipate approximately 6 trucks conducting 4 trips per day carrying 10 ton loads an equivalent of 18 days per month.

6 trucks X 4 trips per Day x 18 days per Month

= 24 Trips per Day / 432 Trips per Month (7 Months Peak)

Winter Operation (Use of Carbonizer) (November to March (5 months)

• Carbonizer Runs 24 hours per Day Monday – Friday

• Generally (2) 2-person crew shifts per day = up to 4 trips per day

Export Delivery Trips: 10% of incoming weight; therefore anticipated as follows:

1 Truck x Up to 4+- trips per Day x 18 days per Month

= 4 Trips per Day / 72 Trips per Month (5 Months)

Reduced Green Waste Collection Trips (25% of Peak)

= 2 Trucks x 3 Trips per Day x 18 days per Month

= 6 Trips per Day / 108 Trips per Month (5 Months)

Total trips per Day Peak = **24 Trips per Day** Total Trips per Day Off-Peak (Winter) = **14 Trips per Day**

As indicated above for approximately 7 months per year, the site is proposed to operate as a delivery / receiver site for the wood logs/green waste debris. During the winter months, operationally the site shifts to processing of the material and off-haul of the biochar following processing with Debris Collection trips reducing to approximately 25% of Peak.

Green Wate Management Site ~ Project Description

Date: July 15, 2024 To: City of Grass Valley Re: SCO Job No. 202358

Equipment:

Primary Equipment

- Tigercat 6040 (wood processing carbonizer) 1 min. / possibly 2
- Excavator with grapple (for loading wood into Tigercat Carbonizer
- Type 6 Fire truck with water trailer

Support Equipment

- Forklift/bucket/Supersacker for loading/filling/moving biochar supersacks (if necessary)
- Wood Splitter (Occasionally needed depending on wood characteristics, i.e. size/diameters)
- Trailer, or bin for colleting biochar from Tigercat Carbonizer
- Chipper (secondarily used, if necessary, not primary method for processing)
- Office Trailer
- Water Tank
- Porta-Potty
- Storage Container
- Fuel Container
- RV's (optional) to be used for crew operating carbonizer in Winter operational months

Gold Country Senior Services – Senior Fire Wood Program

Overview:

Established in 1979, the Senior Firewood Program assists low-income senior households in Western Nevada County to stay warm in the wintertime. The program provides firewood that is seasoned, split, 16" length, and is a mix of pine, fir, & cedar. Each household may receive up to $1\frac{1}{2}$ cords each year as a supplement to other heating sources. For many of our seniors, it is the only source of heat during the winter.

Approximately 250 cords of wood are provided each year to seniors and another 125-150 cords of oak are sold to the community to partially support the program. The program depends on 100% volunteer work with some administrative support. Community members donate their wood to the program.

Eligibility: Nevada Country resident, 60 years or older, lives alone or with 1 other eligible senior, enrolling priority is determined by using an internal scale based on the federal poverty level, up to 150% of the FPL immediately qualifies, maximum income is around 185% of the FPL.

Green Wate Management Site ~ Project Description

Date: July 15, 2024 To: City of Grass Valley Re: SCO Job No. 202358

> We ask for income level but the intent of the program is to assist seniors who would otherwise struggle to afford to heat their homes in winter. Clients are eligible to re-enroll in the program each year.

Scope of Operations:

Hours of Operation: 8 AM-12 Noon, 3 days a week. Monday and Tuesdays involves delivering cords and bringing in wood to the yard for processing and some splitting. Wednesday is reserved for splitting and stacking and, on occasion, the team adds another day to accommodate other organizations that will split for the program. Occasionally the Washington ridge Crew might split for the program between 9 AM and 3:30 PM.

Traffic:

On a normal workday, 10-15 vehicles, cars and pickups, some trailers access the yard. Additionally, there are three distribution events in the fall. From 8:30 AM to 12:30 PM on those days there are 40-50 pickups, some having trailers that access the yard.

Noise:

Noise is from the splitter machines and sometimes chainsaws. The decibel range for the splitter machines @ 40 feet =80-82 decibels. For the chainsaws, the decibel range @50 feet =83-87 decibels.

Equipment:

Four chainsaws, five splitter machines, 2 leaf blowers are stored in the containers at the yard.

Fire and general safety at the site:

The site is paved and is surrounded by fill slopes. The work teams will ensure that weeds are cut down on the slope about 10 feet and around any storage containers.

The team also maintains 10# fire extinguishers inside each structure (4) and have chainsaw extinguishers available for each operating chainsaw.

Additionally, a 2" water supply line is proposed to be routed to both primary use areas including the Senior Fire Wood area to allow for installation of a yard spigot and hose.

The County of Nevada's Green Waste Management site located off LaBarr Meadows Road is a critical pilot program for the County and its partner P.G.&E. for the storage and disposal of Green Waste in the greater Nevada County area. The operation is a public necessity and is conceived to be as efficient and environmentally beneficial as possible.

Thousands of tons of native timber is actively being removed throughout the County for wildland fire prevention, overall fuel reduction and fire breaks which is critical in our foothill region due to our overall severe fire dangers. This is coupled with P.G.&E.'s need to remove green waste in a continual maintenance of their electrical grid infrastructure. The LaBarr Meadows Road site is ideal location that is central, near the convergence of Hwy. 20 and Hwy.49 and connected by arterial and collector roads. This location has the benefit of being central to the County needs reduces overall haul trip lengths and is below the predominant snow elevation making it available year round for use. The reduction in vehicle trip lengths will result in a reduction of greenhouse gas emissions which is one of the goals initiated by the County.

Although the proposed Use Permit does allow for use of chipping if necessary, the primary means of green waste disposal is use of the Carbonizer which has the following benefits:

- Lower Noise emittance compared to a tub grinder
- Compared to pile burning material, the Carbonizer reduces PM2.5 emissions by up to 96%. <u>https://bof.fire.ca.gov/media/cbfggsgi/biomass-specialized-processing-technologies-technical-paper_ada.pdf</u>
- Biochar from the project will be available for use in local projects. Biochar Benefits Include:
 - Provides Carbon sequestration: Biochar is one of seven methods approved by the International Panel on Climate Change to sequester carbon. Carbon sequestration mitigates GHG emissions.
 - Reduction in Greenhouse Gas Emissions: By avoiding traditional disposal methods (e.g., burning or decomposition), biochar production minimizes emissions of CO₂, methane, and nitrous oxide. This contributes to a net reduction in greenhouse gases, especially compared to typical biomass disposal practices.
 - Improves Soil Fertility and Water Retention: When applied to soil, biochar improves soil structure, nutrient retention, and water-holding capacity, enhancing the resilience of soils and supporting plant growth.
 - Improves Microbial Habitat: Biochar provides a habitat for beneficial soil microorganisms, which support nutrient cycling and promote healthy soil ecosystems.
 - Water Quality Improvement
 - Reduction in Runoff and Erosion: Biochar-amended soils retain moisture better and are less prone to erosion, reducing sediment and nutrient runoff into waterways. This helps maintain water quality in adjacent streams and rivers.
 - Filtration of Contaminants: Biochar can adsorb certain pollutants, such as heavy metals or organic compounds, reducing their mobility in soil and preventing them from reaching groundwater or surface water.

 Restoration of Degraded Land: Biochar can be applied to soils impacted by erosion, poor management, or contamination. By enhancing soil structure and fertility, biochar helps restore degraded land to a more natural, productive state, supporting reforestation or habitat recovery efforts.

To Summarize, the project site along with the state of the art carbonizer technology has better greenhouse gas emission characteristics as compared to other processes and produces a valuable biochar biproduct that has many usable benefits to the environment.

6040 CARBONIZER

The 6040 carbonizer is an advanced, cost-effective and environmentally appealing wood debris conversion system. The carbonizer sequesters carbon for carbon credits and beneficial reuse while reducing total fibre volume onsite.



Sequesters carbon for carbon storage, carbon credits and carbon-based product reuse

Eco-friendly method to reduce wood debris

- Self contained mobile off road process
- Reduces wood debris volume onsite
- Accepts logs, limbs, brush, stumps, yard waste, pallets clean lumber and other clean wood-based material

High processing capacity

- High infeed rates
- No material pre-processing required
- Manufactures a high quality organic carbon

Cost-effective solution

- Reduces debris transportation
- Low operating cost with single person operation

Easy mobility within site and from site-to-site

- Simple remote control two-speed drive system
- Track mounted to effortlessly manoeuvre for travel
- Easily transported from site-to-site

Operator friendly with excellent service access

- Live stream video provides tull visibility for teeding
- Clear access to engine and daily service points
- Product discharge conveyer for final product handling



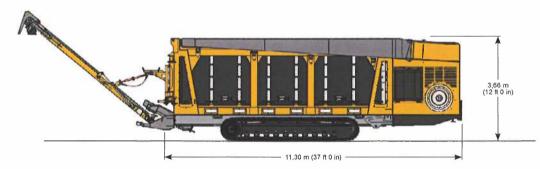
Figercat

6040

DIMENSIONS	
LENGTH	11 300 mm (444 in)
WIDTH	3 450 mm (136 in)
HEIGHT	3 660 mm (144 in)
GROUND CLEARANCE	330 mm (13 in)
WEIGHT	36 300 kg (80,000 lb)
POWER	
ENGINE Tier 4f	Tigercat FPT N67 Tier 4f 151 kW (202 hp) @ 2,200 RPM
COOLING	Side-by-side aluminum radiator, oil cooler
FAN	Hydraulic driven, fixed pitch blower, reversible
FUEL CAPACITY	455 L (120 US gal)
DEF capacity	45 L (12 US gal)
HYDRAULIC SYS	TEM
PUMP, MAIN	Piston for all machine functions
RESERVOIR	200 L (52.8 US gal)
FILTRATION	(4) Spin-on, 7 micron full flow
UNDERCARRIAGE	
TRACK FRAMES	5 Series, heavy-duty
FINAL DRIVE	(2) Axial piston motors with brake valves Infinitely variable speed
FRONT IDLER	Hydraulic track adjuster; Spring shock absorber
SLIDES, UPPER	Replaceable
ROLLERS, LOWER	(10) D5 single/double flange tractor type
TRACK SHOE	700 mm (28 in) triple grouser
CARBONIZING C	HAMBER
ENCLOSURE	(20) Individually hung, replaceable thermo-ceramic panels
GRATES	(7) Primary chamber grates Rotatable for extended use life
WEAR PLATES	Replaceable, upper perimeter of primary chamber
AIRFLOW SYSTEM	Single over-air fan, hydraulically driven Dual under-air fans, hydraulically driven

QUENCHING SYSTEM		
pump, quenching	Hydraulically driven Onboard quenching water supply Circulation and flow verification System drain for cold weather	
CONNECTION	Camlock, 25 mm (1 in)	
FLOW RATE	11-19 L/min (3-5 US gal/min)	
AUGER SYSTEM		
AUGER TROUGH	Bolt-in assembly	
AUGERS	(2) 3-Section, horizontal(1) Centre incline	
WEAR STRIPS	Bolt-in, replaceable auger wear strips	
ELECTRICAL		
BATTERY	(2) 12 v	
ALTERNATOR	100 amp, 12 v	
SYSTEM VOLTAGE	24 v	
OPERATOR CON	TROLS	
CONTROL SYSTEM	Electronic control system with LCD colour touchscreen for machine monitoring and function adjustment	
CAMERA SYSTEM	Video coverage of entire feeding area	
DISCHARGE SYS	TEM	
CONVEYOR	3,65 m (12 ft) clearance, 105° rotation Foldable for transport	
BELT	Neoprene rubber with molded cleats	
OTHER EQUIPMI	EN T	
STANDARD	LogOn™ local wifi machine monitoring system	
OPTIONAL	RemoteLog® telematics system Over band magnet with discharge chute Quenching water pre-pump filter Weather station records temperature, wind direction, wind speed, humidity	

6040 CARBONIZER

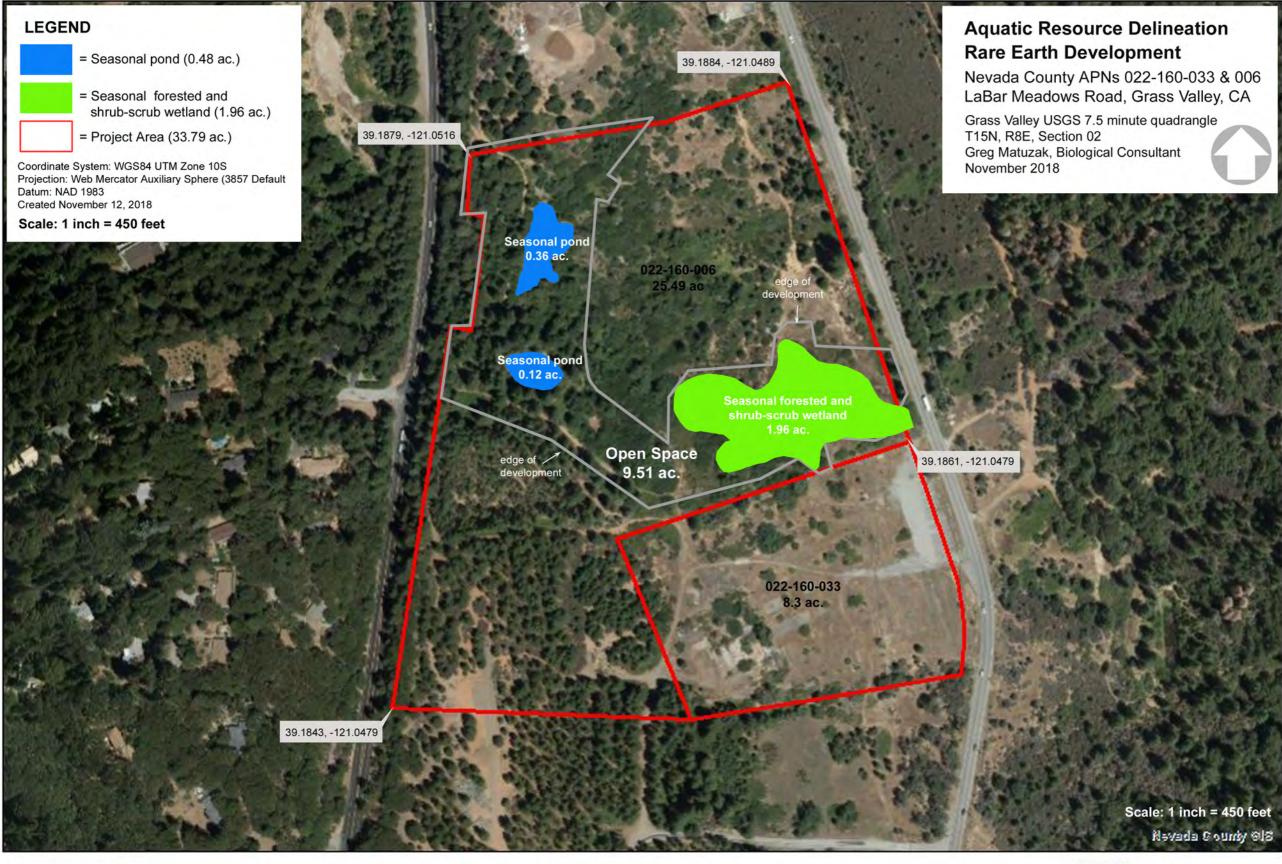


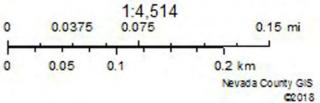
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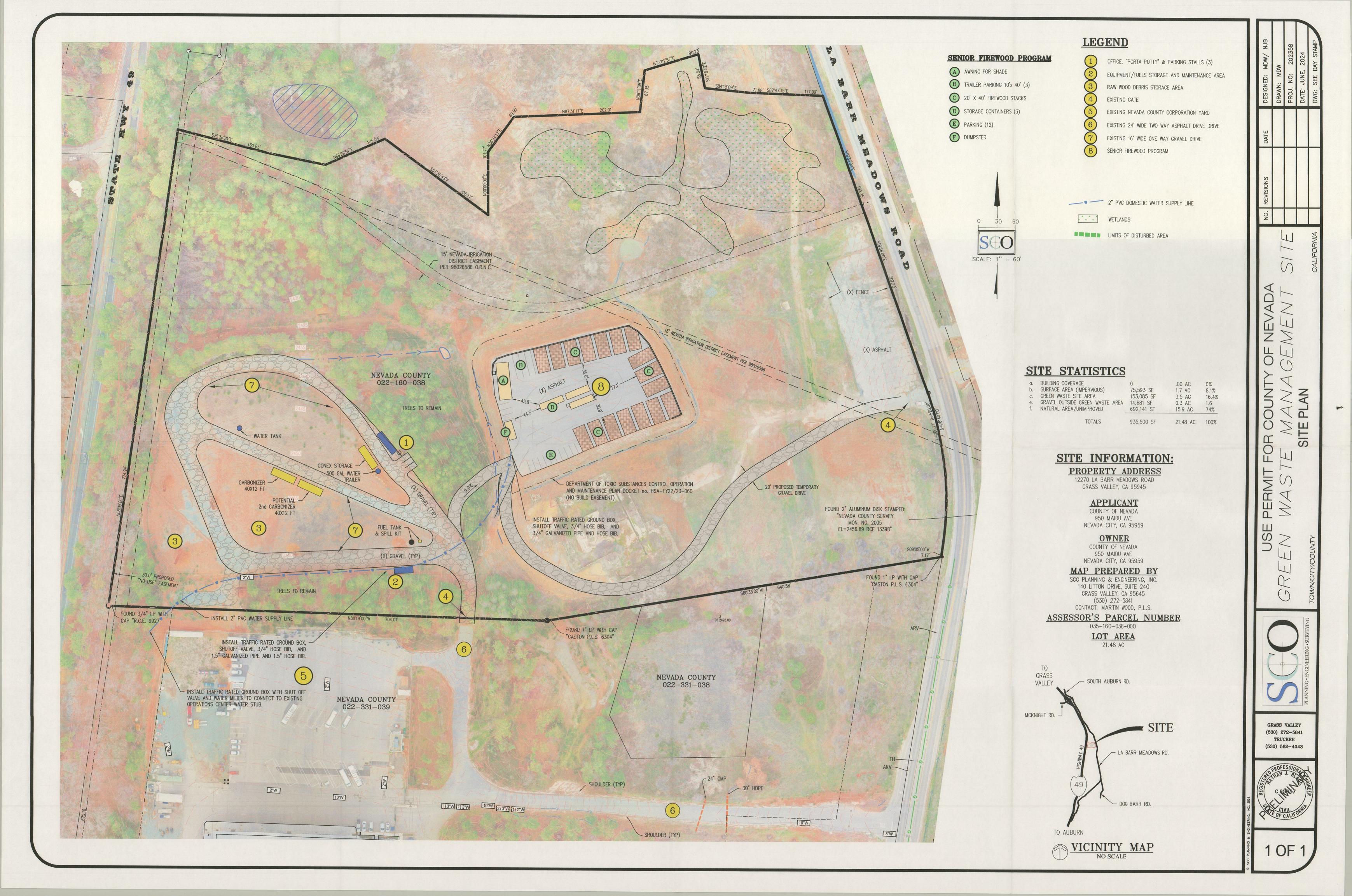
EMAIL	comments@tigercat.com
PHONE	519.753.2000
WEBSITE	www.tigercat.com
ADDRESS	54 Morton Ave. East, Brantford, Ontario Canada, N3R 7J7
MAIL	Box 637 N3T 5P9

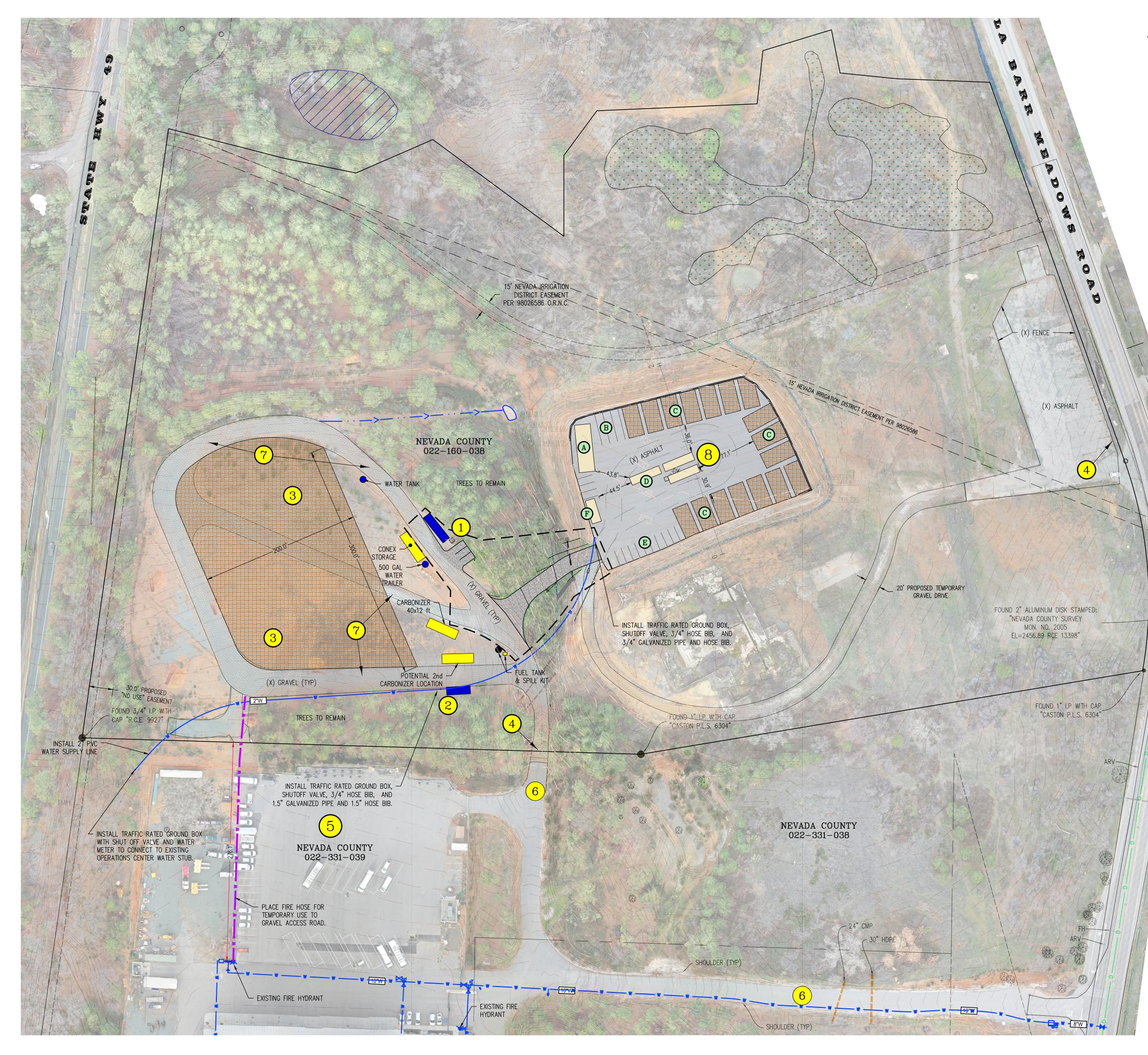
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SENIOR FIREWOOD PROGRAM

- A WNING FOR SHADE
- B TRAILER PARKING 10'x 40' (3)
- C 20' X 40' FIREWOOD STACKS
- D STORAGE CONTAINERS (3)

SCALE: 1'' = 60'

- E PARKING (12)
- **F** DUMPSTER

LEGEND

- 0FFICE, "PORTA POTTY" & PARKING STALLS (3)
 - EQUIPMENT/FUELS STORAGE AND MAINTENANCE AREA RAW WOOD DEBRIS STORAGE AREA
- 4 EXISTING GATE
- EXISTING NEVADA COUNTY CORPORATION YARD
- EXISTING 24' WIDE TWO WAY ASPHALT DRIVE DRIVE
- EXISTING 16' WIDE ONE WAY GRAVEL DRIVE
- SENIOR FIREWOOD PROGRAM

2" PVC DOMESTIC WATER SUPPLY LINE

WETLANDS

* * *

×

- LIMITS OF DISTURBED AREA
 - EXISTING CONIFER TREE (P) PINE (F) FIR, DIAMETER INDICATED EXISTING CONIFER TREE TO BE REMOVED. 6 TOTAL

SITE STATISTICS

a. b. c. f.	BUILDING COVERAGE ASPHALT AREA (EX.)(IMPERVIOUS) GREEN WASTE SITE AREA GRAVEL (EXISTING AND PROPOSED) NATURAL AREA/UNIMPROVED	0 75,593 SF 103,801 SF 62,070 SF 692,141 SF	.00 AC 1.7 AC 2.4 AC 1.4 AC 15.9 AC	0% 8.1% 11.1% 6.6% 74.2%
	TOTALS	935,500 SF	21.48 AC	100%

SITE INFORMATION:

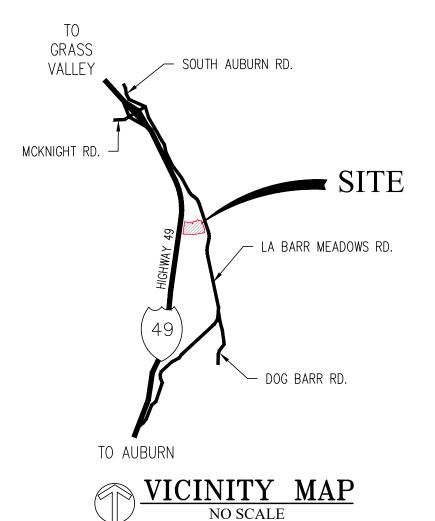
PROPERTY ADDRESS 12270 LA BARR MEADOWS ROAD GRASS VALLEY, CA 95945

COUNTY OF NEVADA 950 MAIDU AVE NEVADA CITY, CA 95959

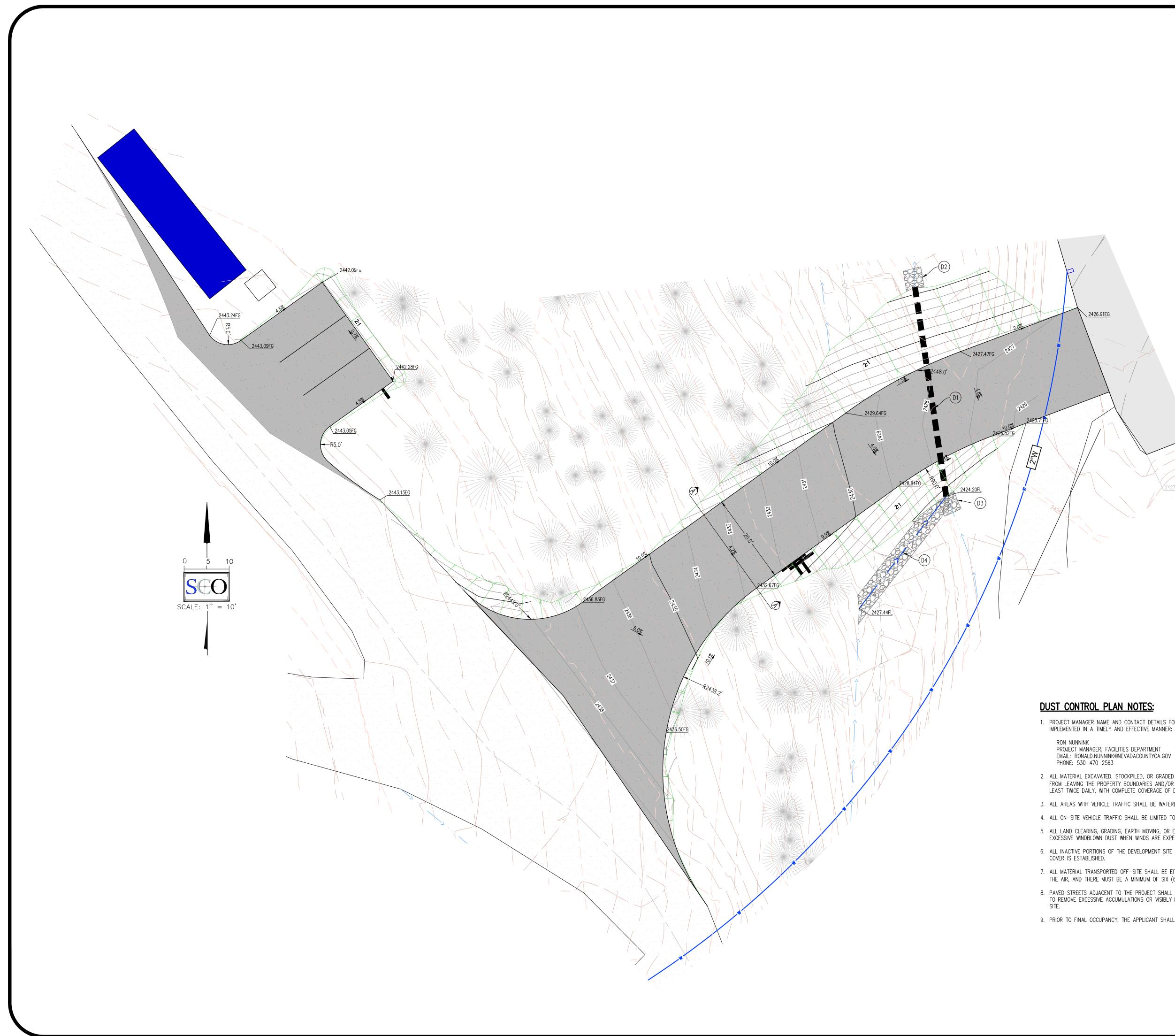
OWNER COUNTY OF NEVADA 950 MAIDU AVE

NEVADA CITY, CA 95959 <u>MAP PREPARED BY</u> SCO PLANNING & ENGINEERING, INC. 140 LITTON DRIVE, SUITE 240 GRASS VALLEY, CA 95645 (530) 272–5841 CONTACT: MARTIN WOOD, P.L.S. <u>ASSESSOR'S PARCEL NUMBER</u> 035–160–038–000

> LOT AREA 21.48 AC







2"W -= 12"SD - ----

_ · · **_ >_** · · **_ >**

_	PROPERTY LINE
	EXISTING MAJOR CONTOUR LINE
	EXISTING MINOR CONTOUR LINE
	PROPOSED MAJOR CONTOUR LINE
	PROPOSED MINOR CONTOUR LINE
_	WATER LINE PIPE (SIZE AS NOTED)
	STORM DRAIN PIPE
	EXISTING FENCE LINE
_	FLOW LINE
)	ROADWAY SECTION DELINEATION, SEE SECTION DETAIL
	EXISTING GRAVEL SURFACE

PROPOSED GRAVEL SURFACE

EXISTING CONIFER TREE (P) PINE (F) FIR, DIAMETER INDICATED

EARTHWORK QUANTITIES

73 C.Y. CUT <u>381 C.Y. FILL</u> 308 C.Y. IMPORT*

DRAINAGE NOTES

- (D1) - STORM DRAIN PIPE (SEE PLAN)
- STORM PIPE OUTLET PROTECTION, SEE DETAIL 1, SHEET 3 (D2)
- STORM PIPE INLET PROTECTION, SEE DETAIL 2, SHEET 3 D3
- 04) - ROCK-LINED V-DITCH, SEE DETAIL 3, SHEET 3

1. PROJECT MANAGER NAME AND CONTACT DETAILS FOR THE PERSON RESPONSIBLE FOR ENSURING THAT ALL DUST CONTROL MEASURES ARE IMPLEMENTED IN A TIMELY AND EFFECTIVE MANNER:

PROJECT MANAGER, FACILITIES DEPARTMENT

2. ALL MATERIAL EXCAVATED, STOCKPILED, OR GRADED SHALL BE SUFFICIENTLY WATERED, TREATED, OR COVERED TO PREVENT FUGITIVE DUST FROM LEAVING THE PROPERTY BOUNDARIES AND/OR CAUSING A PUBLIC NUISANCE. WATERING DURING SUMMER MONTHS SHOULD OCCUR AT LEAST TWICE DAILY, WITH COMPLETE COVERAGE OF DISTURBED AREAS.

3. ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY TO MINIMIZE DUST EMISSIONS. 4. ALL ON-SITE VEHICLE TRAFFIC SHALL BE LIMITED TO A SPEED OF 15 MPH ON UNPAVED ROADS.

5. ALL LAND CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES ON A PROJECT SHALL BE SUSPENDED AS NECESSARY TO PREVENT EXCESSIVE WINDBLOWN DUST WHEN WINDS ARE EXPECTED TO EXCEED 20 MPH.

6. ALL INACTIVE PORTIONS OF THE DEVELOPMENT SITE SHALL BE COVERED, SEEDED, OR WATERED OR OTHERWISE STABILIZED UNTIL A SUITABLE

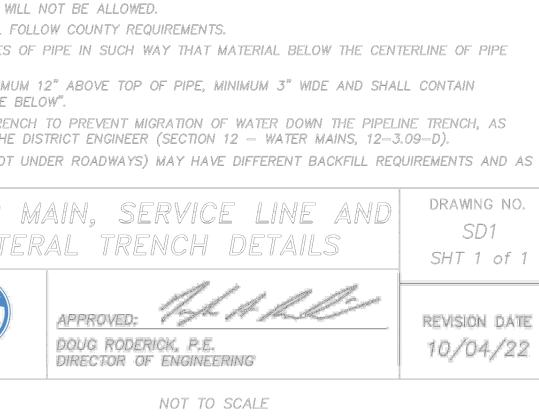
7. ALL MATERIAL TRANSPORTED OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT IT BEING ENTRAINED IN THE AIR, AND THERE MUST BE A MINIMUM OF SIX (6) INCHES OF FREEBOARD IN THE BED OF THE TRANSPORT VEHICLE. 8. PAVED STREETS ADJACENT TO THE PROJECT SHALL BE SWEPT OR WASHED AT THE END OF EACH DAY, OR MORE FREQUENTLY IF NECESSARY,

TO REMOVE EXCESSIVE ACCUMULATIONS OR VISIBLY RAISED AREAS OF SOIL WHICH MAY HAVE RESULTED FROM ACTIVITIES AT THE PROJECT

9. PRIOR TO FINAL OCCUPANCY, THE APPLICANT SHALL RE-ESTABLISH GROUND COVER ON THE SITE THROUGH SEEDING AND WATERING.

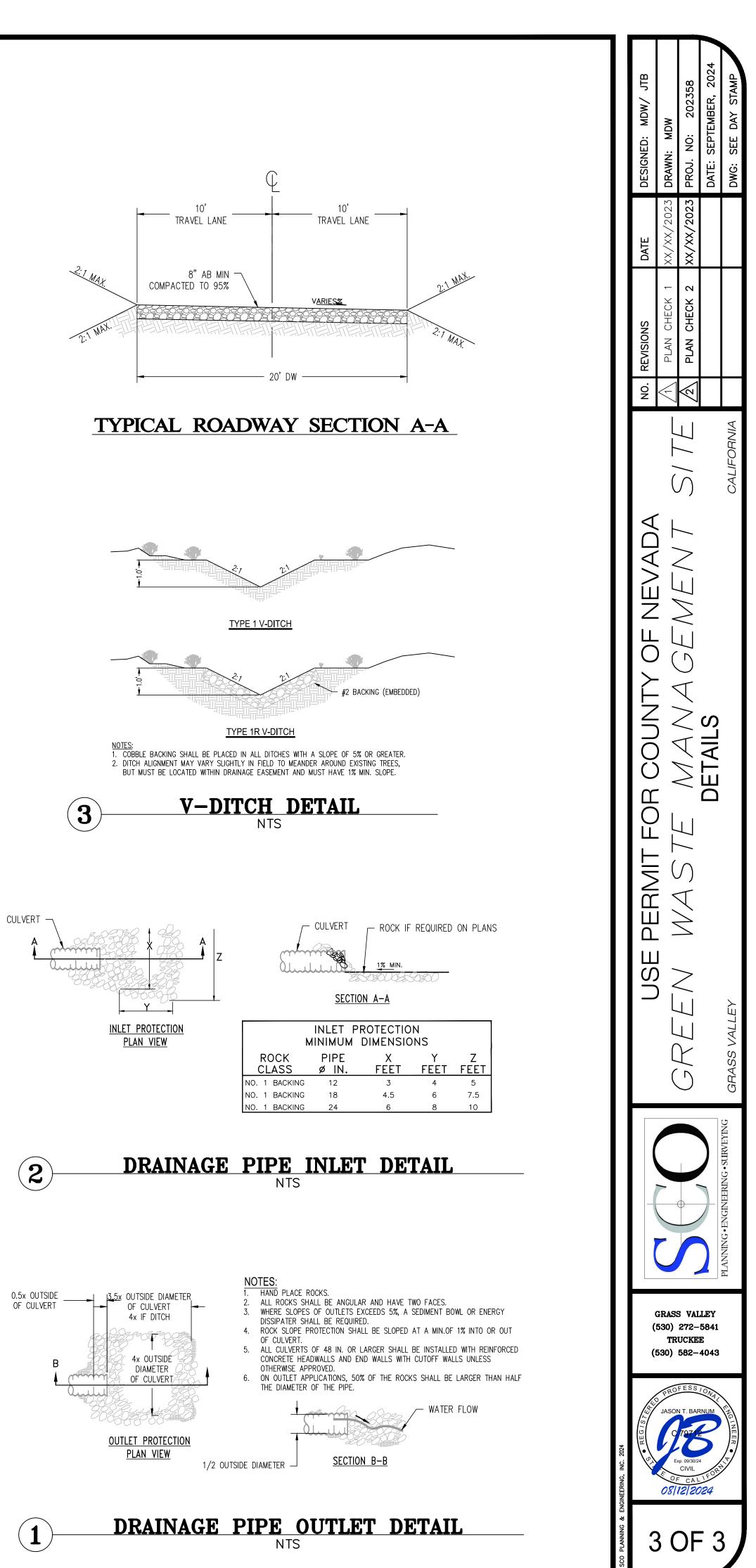


			SAW CUT (E) PAVEMENT	SAW CUT (E) PAVEMENT	
			TE TAPE (6" MIN.) NOTE 8)	Y LOCATE TAPE (6" MIN.) (SEE NOTE 8) (SEE NOTES 2 & 3)
		CL ∦4 BACKFILL– (AB UNDER ROADS) 6″ MIN.		CL #4 BACKFILL (AB UNDER ROADS) 6" MIN. 'D' 'D' CL #4 BACKFILL C O O O O O O O O O O O O O O O O O O O	
		'D' 6" MIN.	LOCATING WIRE (SEE NOTE 4) WATER MAIN	CL #3 BACKFILL	
	TRENCH WIDTH 'W' SCHI ENCH WIDTH FOR TANGENTS JRVES OVER 1000' RADIUS 18"	EDULE MIN. TRENCH MDTH FOR CURVES LESS THAN 1000' RADIUS 24"	'w' CL #1 BACKFILL SEE SCHEDULE NON-METALLIC	TRENCH BOTTOM SHALL PROVIDE FIRM, UNIFORM AND CONTINUOUS BEDDING FOR THE PIPE. PROVIDE BELL HOLES FOR EACH JOINT. BEDDING FOR THE COMPACTED CLASS	EXCAVATE 6" I E AND REPLAC
6" & 8" 10" & LARGER 1] 2" WATER MAIN INST	24" OD + 16" ALLED AS SERVICE LINE	30" OD + 16"	<u>WATER MAIN</u> NOTES:	METALLIC WATER MAIN & SERVICE LINE	
ITEM WATER MAIN SERVICE LINE & LATERAL HYDRANT LATERAL	PER PROFILE ON PLA S 24" 30" TERALS OVER 2"Ø SHALL	AAX. N SHEETS 48" 48" . BE INSTALLED AS WATER MAINS.	SPECIFICATIONS. 2. TRENCH DETAILS FOR PIPELINI APPROPRIATE REGULATORY BO 3. TRENCHES LOCATED OUTSIDE DETERMINED BY THE DISTRICT 4. LOCATING WIRE SHALL CONFO	OF ROADWAYS SHALL HAVE BACKFILL SLIGHTLY MOUNDED OVER THE TRE ENGINEER THAT A MOUND IS NOT NECESSARY.	TS OF THE
CLASS #1 CLEAN SAND-FR MATERIAL DELETERIOUS MA WITH SE* OF AT 50 AND MEETING PERCENT BY WE	TERIAL SIZE SA LEAST 1½" 10 THIS ¾" 75-	URAL CRUSHED DECOMPOSED ND SAND GRANITE DO —— ——	6. TRENCHES IN COUNTY ROADW 7. CONTRACTOR SHALL COMPACT SUPPORTING PIPE WILL BE CO	AYS SHALL FOLLOW COUNTY REQUIREMENTS. T HAUNCHES OF PIPE IN SUCH WAY THAT MATERIAL BELOW THE CENTERI MPACTED. CED A MINIMUM 12" ABOVE TOP OF PIPE, MINIMUM 3" WIDE AND SHALL (
GRADATION. CLASS #2 SELECT EAR MATERIAL PASSING 1"	TH FREE FROM DELETERI SCREEN. TH FREE FROM DELETERI	15 0–5 0–5 OUS MATERIAL AND	9. CLAY PLUGS SHALL BE USED REQUIRED AND BY THE DIREC	IN THE TRENCH TO PREVENT MIGRATION OF WATER DOWN THE PIPELINE TION OF THE DISTRICT ENGINEER (SECTION 12 - WATER MAINS, 12-3.09 LATION (NOT UNDER ROADWAYS) MAY HAVE DIFFERENT BACKFILL REQUIR	—D).
	TH FREE FROM DELETERI		W	ATER MAIN, SERVICE LINE AND LATERAL TRENCH DETAILS	DRAWING NO SD1 SHT 1 of
	MPACTION SCHEDULE-ST				STIIOI

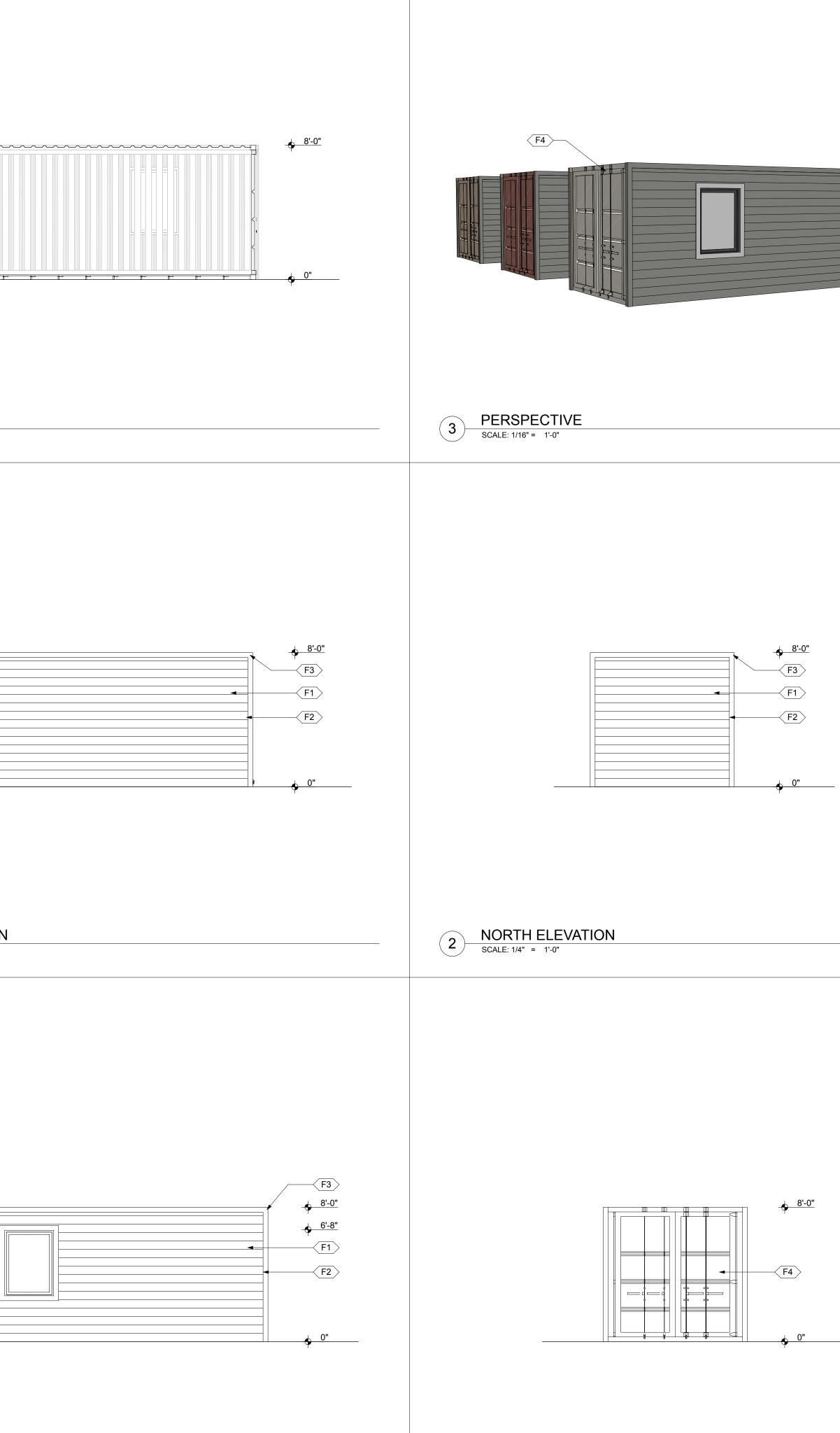


SAW CUT

UNSUITABLE GROUND, EXCAVATE 6" MIN. BELOW PIPELINE GRADE AND REPLACE



		6 SECTION SCALE: 1/4" = 1'-0"
		WEST ELEVATION SCALE: 1/4" = 1'-0"
lows Containers.pln	GSM CAP FLASHING — 5/4x3 TRIM —	
/Users/russell/RDA+D Dropbox/RDA+D/Projects/Current/2024.28 La Barr Meadows Containers/ArchiCAD/Current/La Barr Meadows Containers.pln	LAP SIDING, PAINTED 2x4 PT FURRING @ 16" O.C. W/ 1/2" THRU BOLT METAL CONTAINER	
/Users/russell/RD	7 WALL SECTION SCALE: 3/4" = 1'-0"	4 EAST ELEVATION SCALE: 1/4" = 1'-0"

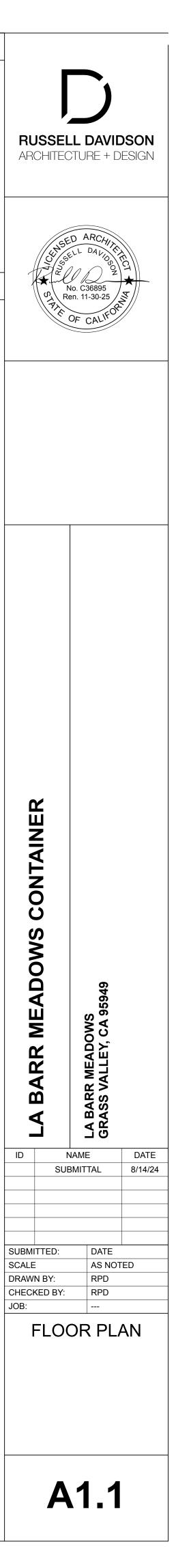


LEGEND

- (E) WALL TO REMAIN
- (N) WALL
- 1 HR. FIRE WALL ROOM # ROOM IDENTIFICATION $\langle \mathsf{A} \rangle$ WINDOW NUMBER
- 01 DOOR NUMBER
- A4 PARTITION TYPE

GENERAL NOTES

- LAP SIDING, PAINTED
 5/4x3 TRIM W/ GSM CAP FLASHING
 5/4x4 TRIM
 (E) METAL CONTAINER, EXPOSED





______F1

F2