



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

## **Finance Committee Regular Meeting**

February 15, 2024, 6:30 pm, Via Zoom

Call to Order

Land Acknowledgement & Anti-Racism Statement

Item 1) Adoption of Agenda

Item 2) Approval of Jan 17, 2023 Minutes

Item 3) Announcements

Item 4) Property Owner Comments – 15 minutes Total

*Please note that comments are limited to 3 minutes per person*

Item 5) Review of December Financial Statements

Item 6) New Business

6a. Capital Request – Turf Care Tractor Replacement

6b. Capital Request – Turf Care Sand Trap Rake Replacement

6c. Capital Request – 2024 Fast Response Drainage Funds

6d. Capital Request – 2024 CVC Funds

6e. Capital Request – 2024 On-Call Engineering Funds

6f. Capital Request – 2024 Pothole/Minor Road Repair Funds

6g. Capital Request – Clubhouse HVAC

6h. Capital Request – Tennis Court Contract Award

6i. Capital Request – Road & Drainage Project

6j. Capital Request – Bridge Design

6k. Capital Request -- Bridge Inspections

Adjournment

January 17, 2024 Finance Committee Meeting via zoom

Called to order at 6:32pm

Attendees:

Chair: Laurie

Committee Members: Mary, Karen, Rob, Stu

Staff: Joel, JoAnne

Absent: Heather, Mitch

Motion: Adopt agenda - Rob. Adopted by acclimation.

Motion: Approve minutes – Karen. Approved by acclimation.

Announcements:

- JoAnne – Mike was going to attend but is still out with the snow crews
- Rob – Board vacancy. Applications accepted until COB 1/22
- Laurie – plan is to stay with Zoom meetings to accommodate staff request.

Property owner comments: none

Presentation of November Financials: Joel

- Collection rate through November 2023 – 97%
- YTD Net Income: \$466,318
- Golf beat last year's revenue by \$220K
- Marina Net Income: \$177K. Some marina bad debt income will reverse (correction)

New Business:

- Capital Request 1:
  - Motion by Laurie: Move to recommend Board approve replacement of maintenance vehicle OP-1 not to exceed \$90,480.
  - Discussion
  - Voting: Approved.
    - In favor – Mary, Laurie, Stu, Rob. Abstained – Karen (lack of bids)
- Capital Request 2:
  - Move to recommend that the Board approves allocation of \$9,009.46 from CRRRF to fund HVAC replacement. – Laurie
  - Amendment – Karen: Move to recommend that the Board approves allocation of \$9,009.46 from CRRRF to fund HVAC replacement, and staff will continue to follow up with Lynden Sheet Metal.
  - Discussion

- Voting: Approved. Unanimous.
- Capital Request 3:
  - Motion by Laurie : Move to recommend Board approves the allocation of \$9,775 from CRRRF for the design and permitting phase of the Turf Care Building Remodel.
  - Discussion
  - Voting: Approved. Unanimous.
- Capital Request 4:
  - Motion by Laurie: Move to recommend Board of Directors approve the allocation of \$54,080 from CRRRF to complete asphalt repairs of golf cart path
  - Discussion
  - Voting: Approved.
    - In favor – Mary, Laurie, Stu, Rob. Abstained – Karen (lack of bids)
- Action Item: Finance committee to take a look at current capital spending policy and make recommendation to amend if warranted.

Continuing Business:

- Marina Fees
  - Finance Committee was provided with 2022 and 2023 General Ledgers in order to ascertain total marina revenue and expenses by the following categories: Wetslips, Dryslips, Kayaks, Boat Launch, Restrooms, Park & Park facilities.
  - Karen presented findings
  - Discussion
  - Consensus was that the marina fees substantially exceed expenses and data does not indicate that anything more than a normal, standard increase would be prudent at this time.

Meeting adjourned at 8:53pm.

|   | WETSLIPS   | DRYSLIPS   | KAYAKS    | BOAT LAUNCH | BATHROOMS  | PARK       | TOTAL MARINA |
|---|------------|------------|-----------|-------------|------------|------------|--------------|
| <b>INCOME</b>                                     | \$ 93,038  | \$ 81,731  | \$ 15,307 | \$ 6,346    | \$ -       | \$ -       | \$ 196,421   |
| Bad Debt Expense                                  | \$ (3,792) | \$ (3,331) | \$ (624)  | \$ -        | \$ -       | \$ -       | \$ (7,746)   |
| <b>TOTAL INCOME</b>                               | \$ 89,246  | \$ 78,400  | \$ 14,683 | \$ 6,346    | \$ -       | \$ -       | \$ 188,675   |
| <b>EXPENSES</b>                                   |            |            |           |             |            |            |              |
| Insurance   | \$ 218     | \$ 218     | \$ 218    | \$ 218      | \$ 218     | \$ 218     | \$ 1,309     |
| Renewal Letters                                   | \$ 225     | \$ 225     | \$ 225    | \$ -        | \$ -       | \$ -       | \$ 675       |
| Boat Decals                                       | \$ 104     | \$ 104     | \$ 104    | \$ -        | \$ -       | \$ -       | \$ 311       |
| *Rodents  | \$ -       | \$ -       | \$ -      | \$ -        | \$ 521     | \$ -       | \$ 521       |
| *Gutter Cleaning                                  | \$ -       | \$ -       | \$ -      | \$ -        | \$ 261     | \$ -       | \$ 261       |
| R&M   | \$ 584     | \$ -       | \$ -      | \$ -        | \$ -       | \$ -       | \$ 584       |
| B&O Tax   | \$ 1,437   | \$ 1,263   | \$ 236    | \$ 102      | \$ -       | \$ -       | \$ 3,039     |
| *Property Tax                                     | \$ -       | \$ -       | \$ -      | \$ -        | \$ -       | \$ 5,901   | \$ 5,901     |
| Water   | \$ -       | \$ -       | \$ -      | \$ -        | \$ 1,212   | \$ -       | \$ 1,212     |
| Electric  | \$ -       | \$ -       | \$ -      | \$ -        | \$ 1,125   | \$ -       | \$ 1,125     |
| Phone (Comcast)                                   | \$ 317     | \$ 317     | \$ 317    | \$ 317      | \$ -       | \$ -       | \$ 1,267     |
| Payroll   | \$ -       | \$ -       | \$ -      | \$ -        | \$ -       | \$ (1)     | \$ (1)       |
| *Security   | \$ 690     | \$ 690     | \$ -      | \$ -        | \$ -       | \$ 185     | \$ 1,566     |
| <b>TOTAL EXPENSES</b>                             | \$ 3,574   | \$ 2,816   | \$ 1,100  | \$ 637      | \$ 3,337   | \$ 6,304   | \$ 17,768    |
| <b>NET INCOME</b>                                 | \$ 85,672  | \$ 75,583  | \$ 13,583 | \$ 5,709    | \$ (3,337) | \$ (6,304) | \$ 170,907   |
| <b>CAPITAL PROJECTS</b>                           |            |            |           |             |            |            |              |
| Wetslip Dock redesign & estimate                  |            |            |           |             |            |            | \$ 13,389    |
| Marina Launch Dock Replacement                    |            |            |           |             |            |            | \$ 48,941    |
| Security installation                             |            |            |           |             |            |            | \$ 4,411     |
| Parking lot grading                               |            |            |           |             |            |            | \$ 29,942    |
| <b>Total Capital</b>                              |            |            |           |             |            |            | \$ 96,683    |
| <b>Net after Operating &amp; Capital Expenses</b> |            |            |           |             |            |            | \$ 74,223    |

- 1) Wetslip revenue: wetslip revenue from combo slips determined to be = to wetslip fee. Remainder assigned to dryslips
- 2) Bad Debt expense = 4.075% of revenue
- 3) Insurance allocated equally across all areas
- 4) Renewal letters and boat decals allocated equally between wetslips, dryslips and kayaks.
- 5) B&O Tax assigned based on % of revenue
- 6) Phone (Comcast expenses) allocated equally between wetslips, dryslips, kayaks and boat launch



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## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Greg Wadden, Golf Course Superintendent  
**Date:** February 15, 2024  
**Subject:** Capital Request – Replacement of NH 42 HP tractor model #TN55

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### Purpose

To request funding to replace Ford turf tractor/loader or equivalent.

### Background

The Turf Care Ford tractor/loader (Asset #1037) has reached the end of its serviceable lifespan and although scheduled for replacement in 2026 should be replaced before the TN55 New Holland tractor (Asset #1064) that is budgeted for replacement on the capital reserve study in 2024.

### Analysis

Turfcare currently has two tractors: 1) the New Holland TN55; and 2) Ford tractor/loader model 1920. The hour meter reading on the Ford tractor currently sits at 5101 compared to 3584 for the New Holland TN55. This reading shows that the amount of wear and tear on the Ford tractor is substantially greater than that on the New Holland tractor and it is recommended to replace the Ford before the New Holland for this reason.

When looking for a replacement equivalent, the following quotes were generated:

Kubota M5660SUHD \$46,633.00 plus tax  
John Deere 4066M \$51,671.24.00 plus tax  
New Holland \$47,198.00 plus tax

| Analysis for Tractor Replacement  |                     |                     |                     |
|-----------------------------------|---------------------|---------------------|---------------------|
|                                   | John Deere<br>4066M | Kubota<br>M5660SUHD | New Holland<br>WM75 |
| <b>Minimum Requirements:</b>      |                     |                     |                     |
| PTO horsepower: 50 minimum        | 52                  | 56                  | 65                  |
| Tire requirement: turf tires      | yes                 | yes                 | yes                 |
| Hydraulic pump flow: 10gpm        | 10.2 gpm            | 10.6 gpm            | 10.4 gpm            |
| Loader capacity: 1150 lbs         | 2313 lbs            | 2536 lbs            | 3153 lbs            |
| Transmission: 8x8                 | 12x12               | 8x8                 | 12x12               |
| Front weight kit yes              | yes                 | yes                 | yes                 |
| Quick detach bucket: yes          | yes                 | yes                 | yes                 |
| Four wheel drive: yes             | yes                 | yes                 | yes                 |
| Hydraulic lift capacity: 1881 lbs | 3130 lbs            | 3307 lbs            | 3276 lbs            |
| <b>Price:</b>                     | <b>51,671.24</b>    | <b>46,633+ tx</b>   | <b>47198 + tx</b>   |



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Since all three models compared meet the minimum requirements, we recommend purchasing the least expensive model, the Kubota.

## **Request**

Request up to \$50,936.70 for the purchase of the Kubota M5660SUHD to be paid from CRRRF.

## **Motion**

Move that the SVCA Board of Directors approve the allocation of \$50,936.70 from CRRRF for the purchase of a Kubota M5660SUHD Golf Course Tractor and authorize the Golf Course Superintendent to work with the Finance Director on the purchase of this item.

## **Board of Directors Approval:**

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President





# 4 Series

Compact Utility Tractor



JOHN DEERE



## THE POWER OF 4 IS RISING

Introducing our latest 4 Series tractor. [See page 11.](#)





**4052M Tractor** with a canopy, front loader and wheel weights. ShadePro Canopy with optional fan is even cooler. **See page 4.**



**4075R Tractor** with 440R Mechanical Self-Leveling Loader (MSL), cab, heat and A/C and pallet forks. **See page 8.**



**TractorPlus™ app.** Better tools. Better information. With the TractorPlus™ App you'll get maintenance recommendations, tutorial videos and more. Available on all 4-Series Tractors. Download at the Apple Store or at Google Play.

**The Smart Connector option** enhances the user experience of the TractorPlus™ app by adding several features that help operators use and maintain equipment more efficiently.



**4066M Heavy Duty with Category 2 Implement Versatility. See page 6.**

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# THE POWER OF 4. UNLEASHED.

**Warning:** the power you will find inside these pages may well be the jolt you need to take a drive to your John Deere dealer and sit down in the seat of a 4 Series Compact Utility Tractor. Yes, the lineup is that powerful. There are nine models to choose from:

- **The 43.1 HP (31.7 kW) 4044M, 51.5 HP (37.9 kW) 4052M and 65.9 HP (48.5 kW) 4066M Tractors** have power and simplicity. To the power of 4. These open station models feature a standard PowrReverser™ Transmission designed to help make short work of loader work, with an easy forward/reverse lever mounted to the left of the steering column. The standard 4-Wheel Drive and tough Yanmar® diesel engines are essential. Learn all about it on [page 4](#).
- **The 51.5 HP (37.9 kW) 4052M Heavy Duty and 65.9 HP (48.5 kW) 4066M Heavy Duty Tractors** are all strength and versatility. To the power of 4. The standard eHydro™ Transmission, four work lights and low Roll Over Protection Structure (ROPS) hinge point on these open station models allow for efficient work in dim, tight spaces while the standard Category 1, 2 Three-point Hitch can fit a wide array of attachments without any costly aftermarket enhancements to switch between the two. Perfect for the most heavy duty jobs. Check it out on [page 6](#).
- **The 43.1 HP (31.7 kW) 4044R, 51.5 HP (37.9 kW) 4052R, 65.9 HP (48.5 kW) 4066R and 74.3 HP (55.4 kW) 4075R Tractors** are top of the line. To the power of 4. You'll get the eHydro Transmission with TwinTouch™ pedals, eThrottle™, SpeedMatch™, LoadMatch™, and Cruise Control for efficiency. The works. All standard. The options are powerful. Starting with the optional Cab with Heat and AC. Check it out on [page 8](#).



## A POWERFUL DEALER NETWORK IS HERE TOO.

Got a question? Can't decide which tractor is right for you? Talk to your local John Deere dealer. Your dealer is knowledgeable about landscaping, property care and 4 Series Tractors. Together, you two will find what you need.

Until then, page after page, check out the innovations and exceptional engineering to tackle any task quickly and easily. Or visit us at [JohnDeere.com/4Series](https://www.JohnDeere.com/4Series) or [JohnDeere.ca/4Series](https://www.JohnDeere.ca/4Series). Talk to your local dealer today.



# THE 4M TRACTOR

## Strength and Simplicity. To the Power of 4.

4M Tractors deliver dependable, economical power for work on landscape jobs, farms, horse operations, recreational properties and in municipal fleets.

Choose from three open station models. The 43.1 HP (31.7 kW) 4044M, 51.5 HP (37.9 kW) 4052M and 65.9 HP (48.5 kW) 4066M all feature 4-wheel drive and a tough, 4-cylinder Yanmar® diesel engine with an ample torque reserve.

And that's just for starters.

What's standard  
is powerful



The optional 400E Front Loader transports mulch, soil or gravel.





**Serviceability is strong.**  
A 200-hour oil change interval. A sliding front grill to service the battery and radiator. Convenient spots to check engine and hydraulic oil levels.

**The PowrReverser™ transmission.**  
This 12F/12R gear drive transmission features a reverser lever located by the left side of the steering wheel for direction changes with a foot throttle to free hands for loader work, steering and direction changes.

**Folding ROPS (Roll Over Protective Structure).**  
Keep it up and keep safe.

**Great rear hitch capacity.** The big, 15.9 gal/min (60.2 ltr/min) hydraulic pump offers power for fast loader cycles, responsive power steering, heavy 3-point-hitch lifts, and great backhoe performance.



**Planetary final drives** are the same as the design used on our high-horsepower John Deere tractors, offering exceptional reliability by spreading the load over three gears.



**John Deere wet disk brakes** are oil-cooled, so they virtually never wear out. And they almost never need adjusting. Work them hard, they can take it.



**Differential Lock** for exceptional traction gets you out of slick spots. Simply step on the foot pedal to send power equally to both rear wheels, which helps if one wheel starts spinning.



**The optional e-Hydro transmission.** With TwinTouch™ pedals, LoadMatch™, to help prevent stalls if the torque load increases on the engine, MotionMatch™, to control how quickly you accelerate or decelerate and a Cruise Control option. Just like in a car.



**iMatch™ Quick Hitch**  
Hooking up a rear implement? With iMatch™ Quick Hitch simply back in, lift up, lock down, and drive away.



**Canopies**  
Beat the sun and inclement weather. Canopy is installed to the ROPS. Available in metal and ABS plastic.



# THE 4M HEAVY DUTY TRACTOR

## Strength and Versatility. To the Power of 4.

Get a load of these impressively powerful and rugged John Deere 4M Heavy Duty Compact Tractors. The heavy-duty axle provides the strength to carry heavy loads on construction sites, clear land, and timber, and maintain acreage and farms. These tough, versatile machines were made for any heavy duty job that needs doing.

Choose from two open station, diesel, 4-wheel drive models: The 51.5 HP (37 kW) 4052M Heavy Duty and 65.9 HP (48.5 kW) 4066M Heavy Duty Tractor.



Category 2 Implements are no problem here. Attach AG Suitcase front weights to tractor for proper ballasting.

### What's standard is strong and remarkably versatile

**Rugged, rust and dent-resistant composite hood.** Leave the dents and rust that expose your engine to the elements to metal hoods.

**The Brush Guard and Front Weight Support.** For protection and to be ready for when you need weight up front to counterbalance heavy implements in the back if your front loader is off.



**The Factory Installed Hydraulics.** Toward the rear and right side for exceptional all-around tractor and implement performance.






**The Roll Over Protection System (ROPS) with a low hinge point.** For storing in low-clearance areas like a shed or garage. Raise when operating.

**Independent PTO with modulated engagement.** A modulated, wet disk clutch engages the PTO. Simply pull up on the yellow knob and the PTO gently engages.

**The LED work lights.** To illuminate any low light environment. Start earlier and keep working later.

**The big tires with the deep tread.** Designed for work in muck and mud. The lug capacity is strong. For when slipping and sliding is not an option.

**The Category 1, 2 Three-Point Hitch.** Simplifies implement management. Switch out Category 1 Implements and Category 2 Implements quickly and easily without hard-to-manage add-ons.



The 4066M Heavy Duty features 51.9 PTO HP (38.7 kW) and the 4052M Heavy Duty has 40.8 PTO HP (30.5 kW). To power Category 1 or 2 implements.

**The e-Hydro™ Transmission.** With TwinTouch™ forward/reverse pedals, LoadMatch™ to prevent stalls while lifting, SpeedMatch™ to slow max speeds for precision tasks, MotionMatch™ to protect turf from stops and starts, eThrottle™ for fuel efficiency and noise and Cruise Control. Just like a car.



**Optional 440R Quik-Park Loader.** Easy to attach/detach. The lift capacity at full height measured at the pivot is 2,539 lbs (1,154 kg). That's heavy lifting. Mechanical Self-Leveling option available.



**Telescoping draft links.** The lower links can extend, making it easier to line up mounting holes on the tractor and implement.



**Optional John Deere Quik-Knect™.** Click PTO driven implements (115 PTO HP or less) into the back of your tractor quickly and easily. Avoid scraped knuckles.



**Heavy Duty Front Axle.** Two big, round bales. Two feed spots. No problem.

4M Heavy Duty Tractors only



# THE 4R TRACTOR

## The Pinnacle. To the Power of 4.

The tough, 4-cylinder Yanmar® diesel engine powered, 4052R, 65.9 HP (48.5 kW) 4066R, and the 74.3 HP (55.4 kW) 4075R have the best of just about everything. The overall benefits of these four-wheel drive tractors reach new heights of engineering excellence.



The 440R Mechanical Self-Leveling (MSL) Loader. Start level and stay level the easy way.

## The standard features are powerful



**LED Headlight and Work Lights.** High-visibility lighting for those who start earlier and finish later. You know who you are.



**HitchAssist™ 3-Point control.** Align an implement from the back of your tractor with controls that creep the tractor backwards or forwards and adjust link positions to connect easily.



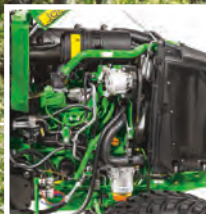
**The e-Hydro™ Transmission.** With TwinTouch™ forward/reverse pedals, LoadMatch™ to prevent stalls during heavy load applications, SpeedMatch™ to slow max speeds for precision tasks, MotionMatch™ to protect turf from stops and starts, eThrottle™ for fuel efficiency and noise and Cruise Control. Just like a car.







**The operator cab with large, adjustable seat.** Reach controls in comfort and be able to check rear implements with ease.



**Serviceability is strong.** A 200-hour oil change interval. A sliding front grill to service the battery and radiator. Convenient spots to check engine and hydraulic oil levels. Power up.



**Electro-Hydraulic (EH) Hitch.** Set your electro-hydraulic hitch from inside the cab. Lock in the same depth level, every pass. No guesswork.



**Heavy Duty Front Axle.** Tackle heavier loads with confidence. Dig deeper and get more work done faster. The 4075R makes easy work of clearing snow, logs, rocks ... you name it.



**The optional Snow Cab with heat and A/C.** Great visibility, low noise, and you control the temperature. The air-ride seat is standard on the 4066R Tractor with a cab. Optional on others.



**The PowrReverser™ Transmission option.** This 12F/12R gear drive transmission features a reverser lever located by the left side of the steering wheel for direction changes with a foot throttle to free hands for loader work, steering and direction changes.



**John Deere Hydraulic Downforce Kit.** Add downward pressure in hard soil conditions.



# IMPLEMENTS AND ATTACHMENTS.

## Versatility. To the Power of 4.

More than 50 implements and hundreds of attachments are ready and waiting. From front loaders, backhoes and wheel rakes to canopies, work lights and batteries, John Deere and Frontier implements along with quality attachments do it all. Hookup is fast and easy, high performance is a given.



Telescoping Draft Links



Rear attaching snow blower and 4-season cab with heat and A/C. (4R only).



Front and Rear Hay Spear. 4M HD Tractor only.



485A Backhoe with lighting guards and wheel weights.





■ Posthole Diggers



4 SERIES

■ Rear Blades



■ Landscape Rakes



■ Rotary Cutters



■ 440R Quik-Park™ Loader

**Category 1 implements or Category 2 Implements?** Many large property owners with big projects and long task lists, landscapers, cow/calf operations and poultry houses use both category 1 and category 2 implements. We offer both. In fact, the category 1, 2 Three Point Hitch on 4M Heavy Duty Tractors make switching between the two categories easy and simplifies inventory management.

**400E, 440R or the 440R MSL Front Loaders** get it done with an easy-to-attach/detach Quik-Park™ loader or Mechanical Self-Leveling (MSL) loader (4M HDs and 4Rs only). Heavy-duty buckets, 4-in-1 buckets, pallet forks and snow pushes are available. Joystick loader controls are standard on all models.

**The 485A Backhoe** has a full 180-degree bucket rotation, fast cycle times and a bucket digging force of more than 3,700 pounds (1678 kg) with a dig depth of up to 8 ft. 6 in. (2438mm). Buckets range from 12- to 24-inches (305-610mm) wide. Optional Ripper, Trenching Bucket, Mechanical and Hydraulic Thumbs are available for Backhoes. The Quik-Tatch™ technology installs or detaches without removing the 3-point hitch. A real time-saver.



■ Tillers



■ Rear Box Blades





# Optional Attachments



**Forward Lighting Kit, Rear Work Light and 360° LED Lighting**  
Enjoy increased visibility when working in low-light conditions. Lights mount to brush guards located on the ROPS.



**Lighting Brush Guard Kits (Two Guards)**  
Available for both the warning lights and additional lighting options.



**Engine Coolant and Transmission Oil Heaters**  
For cold weather operation, be ready with these kits to warm your machine.



**Mirror Kits**  
For greater visibility of what's behind you while focusing on what's ahead.



**Rear Ballast Options**  
For enhanced loader performance and tractor stability, a ballast box with optional extension and rear wheel weights are available.



**Wheel Spacers (140 mm)**  
Widens the wheelbase for stability and a smooth ride when working on uneven ground and hillsides.



**Quik-Tatch Weights, 42 lb (19.1 kg) and 70 lb (32.7 kg)**  
Add some extra weight to the front of the machine easily and securely with Quik-Tatch weights.



**3rd Function Loader Hydraulics**  
Provides hydraulic couplers at the front of the loader boom for operating implements such as the Frontier 4-n-1 bucket, grapples and hydraulically adjusted blades.



**Top And Tilt Kit**  
Allows hydraulic positioning, left/right and forward/backward, from the operators seat using the loader joystick. Ideal for use in box blade or rear blade applications.



**Front Fenders And Rear Fender Extensions**  
Keep it clean by protecting yourself, the tractor and the implements from debris flying off the tractor tires.

For Front Fenders and Rear Fender Extensions. 4R Only



**Front Hitch**  
Add a category 1 front hitch to easily connect and disconnect a front non-PTO driven implement.

4M and 4R only



**Tool Storage**  
Tool Storage solutions provide a simple way to carry the most commonly used landscaping tools and power equipment on the tractor.



**Additional Selective Control Valves and Power Beyond Kits\***  
Add rear implements with hydraulic functions like blades, snow blowers and a backhoe with a third, fourth or fifth SCV and Power Beyond Kit.

\*For backhoes and wood chippers.

## Maintenance Parts



**Filter Pak**  
The key to do it yourself maintenance when it comes to changing your tractor filters.



**Plus-50™ II Oil**  
The only engine oil you really ever need on the farm, in the field, or on the highway.



**Batteries**  
John Deere StrongBox™ Batteries and high performance batteries are a versatile, reliable solution. Economy options available.



**Hy-Gard Hydraulic/Transmission Oil™**  
Provides the best performance and wear protection for John Deere hydraulic and transmission systems. Formulated with friction modifiers that provide smooth clutch engagement and high braking capacity with minimum chatter.



## 6-YEAR / 2,000 HOUR LIMITED POWERTRAIN WARRANTY

We're backing these tractors with a reliable 6-Year Powertrain Warranty.<sup>1</sup> It's standard, comes at no cost, and covers both residential AND commercial use. It's just one more reason why—Nothing Runs Like a Deere.<sup>™</sup>

<sup>1</sup>All Compact Utility Tractors purchased new from an authorized John Deere Dealer come standard with a 6 year/2000 hour (whichever comes first) Powertrain Warranty. See the Limited Warranty for New John Deere Turf & Utility Equipment at dealer for details.

### POWERGARD<sup>™</sup> PROTECTION PLANS\*

Protect your 4 Series Tractor with a PowerGard Protection Plan. It provides parts and labor coverage up to five years beyond your manufacturer's warranty. And if you sell your machine before the coverage term ends, the remaining coverage is fully transferable to the next owner—adding value to your resale or trade-in. Talk to your dealer for details. Or visit us online.

\*Certain limitations and exclusions may apply. For complete terms and conditions, please refer to [www.johndeere.com/pppr](http://www.johndeere.com/pppr) or [www.johndeere.ca/pppr](http://www.johndeere.ca/pppr).



### The Augusta Georgia Factory

All 4 Series Tractors are **designed, assembled, tested and distributed** out of our Augusta, Georgia Factory. Learn more about how we run at [JohnDeere.com/4Series](http://JohnDeere.com/4Series) or [JohnDeere.ca/4Series](http://JohnDeere.ca/4Series).

## John Deere Financing

In the world of loader work, digging trenches, clearing ground, leveling driveways, putting in fences, sweeping sidewalks and caring for livestock and crops, you can count on John Deere Financial. Just like John Deere Tractors, our roots run deep in some of the healthiest, high producing fields and farms in the world and we're proud of the long-standing relationships we have with small farmers and large farming operations alike.

The lay of the land of commercial landscapers, sports turf complexes, golf courses, municipalities and federal governments are no strangers to us either. Put the strength and flexibility of John Deere Financing behind your purchase. We know the landscape you work in and we're committed to helping you get what you need. You can bank on it.

**US:** [JohnDeere.com/4Series](http://JohnDeere.com/4Series)

**CA:** [JohnDeere.ca/4Series](http://JohnDeere.ca/4Series)



## HELP YOURSELF

Our full list of implements and attachments would rival the longest to-do list. Let [TipsNotebook.com](http://TipsNotebook.com) show you how to use them.

# SPECIFICATIONS

|   | 4044M                                    | 4052M                             | 4066M                             | 4052M Heavy Duty                                  |
|---|--|-----------------------------------|-----------------------------------|---|
| <b>ENGINE</b>                           | Yanmar® 4TNV88C-MJT                      | Yanmar® 4TNV86CT-MJT              | Yanmar® 4TNV86CHT-MJT             | Yanmar® 4TNV86CT-MJT                              |
| Type                                    | Naturally-aspirated<br>4-cylinder Diesel | Turbocharged<br>4-cylinder Diesel | Turbocharged<br>4-cylinder Diesel | Turbocharged<br>4-cylinder Diesel                 |
| HP (Kw)*                                | 43.1 (31.7)                              | 51.5 (37.9)                       | 65.9 (48.5)                       | 51.5 (37.9)                                       |
| PTO HP Gear Transmission – hp(Kw)       | 34.6 (25.8)                              | 42.2 (31.4)                       | 58 (53.2)                         | —   |
| PTO HP Hydro Transmission – hp(Kw)      | 33.6 (25.0)                              | 41.2 (30.7)                       | 57 (42.5)                         | 40.8 (30.5)                                       |
| Engine Displacement cu in. (L)          | 133.5 (2.189)                            | 127.6 (2.091)                     | 127.6 (2.091)                     | 127.6 (2.091)                                     |
| <b>ELECTRICAL</b>                       |  |                                   |                                   |   |
| Battery Power                           | 770 CCA                                  | 770 CCA                           | 770 CCA                           | 770 CCA   |
| Alternator                              | 75 A                                     | 75 A                              | 75 A                              | 75 A  |
| <b>HYDRAULICS</b>                       |  |                                   |                                   |   |
| Type                                    | Open Center                              | Open Center                       | Open Center                       | Open Center                                       |
| Pump Type                               | Dual Independent                         | Dual Independent                  | Dual Independent                  | Dual Independent                                  |
| Remote Control Valves                   | 3/4/5 optional                           | 3/4/5 optional                    | 3/4/5 optional                    | NA  |
| Total Capacity gpm (l/min)              | 15.9 (60.2)                              | 15.9 (60.2)                       | 15.9 (60.2)                       | 15.9 (60.2)                                       |
| <b>TRANSMISSION</b>                     |  |                                   |                                   |   |
| Standard Transmission                   | 12F/12R PowrReverser™                    | 12F/12R PowrReverser™             | 12F/12R PowrReverser™             | 3F/3R Hydrostatic                                 |
| Optional Transmission                   | 3F/3R Hydrostatic                        | 3F/3R Hydrostatic                 | 3F/3R Hydrostatic                 | —   |
| Final Drive                             | Planetary                                | Planetary                         | Planetary                         | Planetary   |
| Brakes                                  | Wet Disk                                 | Wet Disk                          | Wet Disk                          | Wet Disk  |
| Steering                                | Power                                    | Power                             | Power                             | Power   |
| Clutch                                  | Wet disk, PowrReverser                   | Wet disk, PowrReverser            | Wet disk, PowrReverser            | —   |
| 4WD                                     | Standard MFWD                            | Standard MFWD                     | Standard MFWD                     | Standard MFWD                                     |
| <b>PTO</b>                              |  |                                   |                                   |   |
| PTO Type                                | Independent 540                          | Independent 540                   | Independent 540                   | Independent 540                                   |
| PTO Locations                           | Rear                                     | Rear                              | Rear                              | Rear  |
| Economy PTO                             | No                                       | No                                | No                                | No  |
| <b>REAR HITCH</b>                       |  |                                   |                                   |   |
| Type                                    | Category 1                               | Category 1                        | Category 1                        | Category 1/2                                      |
| Lift Capacity (24 in. behind link arms) | 2,500 lb. (1,135 kg)                     | 2,500 lb. (1,135 kg)              | 2,500 lb. (1,135 kg)              | 2,500 lb. (1,135 kg)                              |
| Lift Capacity (At link ends)            | 3,130 lb. (1,420 kg)                     | 3,130 lb. (1,420 kg)              | 3,130 lb. (1,420 kg)              | 3,130 lb. (1,420 kg)                              |
| <b>OPERATING WEIGHT</b>                 |  |                                   |                                   |   |
| OOS (Open Operator Station)             | 3,770 lb. (1,710 kg)                     | 3,770 lb. (1,710 kg)              | 3,770 lb. (1,710 kg)              | 4,255 lb (1,934 kg)                               |
| Cab                                     | —  | —                                 | —                                 | —   |
| <b>STANDARD TIRES**</b>                 |  |                                   |                                   |   |
| Front                                   | 8-16 (6PR, R1 Bar,<br>2 Position)        | 8-16 (6PR, R1 Bar,<br>2 Position) | 8-16 (6PR, R1 Bar,<br>2 Position) | 31.5x13-16.5 (10PR,<br>R4 Industrial, 2 Position) |
| Rear                                    | 13.6x28 R1                               | 13.6x28 R1                        | 13.6x28 R1                        | 16.9-24 R4  |
| Roll Over Protective Structure          | Folding                                  | Folding                           | Folding                           | Folding   |
| ComfortGard™ Cab                        | No                                       | No                                | No                                | No  |
| Air Ride Seat                           | No                                       | No                                | No                                | No  |
| Wheelbase                               | 73 in. (1,855 mm)                        | 73 in. (1,855 mm)                 | 73 in. (1,855 mm)                 | 73 in. (1,855 mm)                                 |

\*Manufacturer's estimate of engine power 97/68/EC rated power (gross), hp (kW) \*\*Additional tire options available. See dealer for details.

| 4066M Heavy Duty                               | 4044R                                 | 4052R                          | 4066R                          | 4075R                             |
|--|---------------------------------------|--------------------------------|--------------------------------|-----------------------------------|
| Yanmar® 4TNV86CHT-MJT                          | Yanmar® 4TNV88C-MJT                   | Yanmar® 4TNV86CT-MJT           | Yanmar® 4TNV86CHT-MJT          | Yanmar® 4TNV86CHT-MJT             |
| Turbocharged 4-cylinder Diesel                 | Naturally-aspirated 4-cylinder Diesel | Turbocharged 4-cylinder Diesel | Turbocharged 4-cylinder Diesel | Turbocharged 4-cylinder Diesel    |
| 65.9 (48.5)                                    | 43.1 (32.1)                           | 51.5 (37.9)                    | 65.9 (48.5)                    | 74.3 (55.4)                       |
| —  | 34.6 (25.8)                           | 42.2 (31.4)                    | 58 (53.2)                      | —                                 |
| 51.9 (38.7)                                    | 33.6 (25.0)                           | 41.2 (30.7)                    | 57 (42.5)                      | 60 (44.7)                         |
| 127.6 (2.091)                                  | 133.5 (2.189)                         | 127.6 (2.091)                  | 127.6 (2.091)                  | 127.6 (2.091)                     |
| <b>ELECTRICAL</b>                              |                                       |                                |                                |                                   |
| 770 CCA  | 770 CCA                               | 770 CCA                        | 770 CCA                        | 770 CCA                           |
| 75 A   | 75 A                                  | 75 A                           | 75 A                           | 75 A                              |
| <b>HYDRAULICS</b>                              |                                       |                                |                                |                                   |
| Open Center                                    | Open Center                           | Open Center                    | Open Center                    | Open Center                       |
| Dual Independent                               | Dual Independent                      | Dual Independent               | Dual Independent               | Dual Independent                  |
| NA   | 3/4/5 optional                        | 3/4/5 optional                 | 3/4/5 optional                 | 3/4/5 optional                    |
| 15.9 (60.2)                                    | 15.9 (60.2)                           | 15.9 (60.2)                    | 15.9 (60.2)                    | 15.9 (60.2)                       |
| <b>TRANSMISSION</b>                            |                                       |                                |                                |                                   |
| 3F/3R Hydrostatic                              | 3F/3R Hydrostatic                     | 3F/3R Hydrostatic              | 3F/3R Hydrostatic              | 3F/3R Hydrostatic                 |
| —  | 12F/12R PowrReverser™                 | 12F/12R PowrReverser™          | 12F/12R PowrReverser™          | 12F/12R PowrReverser™             |
| Planetary                                      | Planetary                             | Planetary                      | Planetary                      | Planetary                         |
| Wet Disk                                       | Wet Disk                              | Wet Disk                       | Wet Disk                       | Wet Disk                          |
| Power  | Power                                 | Power                          | Power                          | Power                             |
| —  | Wet disk, PowrReverser                | Wet disk, PowrReverser         | Wet disk, PowrReverser         | Wet disk, PowrReverser            |
| Standard MFWD                                  | Standard MFWD                         | Standard MFWD                  | Standard MFWD                  | Standard MFWD                     |
| <b>PTO</b>                                     |                                       |                                |                                |                                   |
| Independent 540                                | Independent 540                       | Independent 540                | Independent 540                | Independent 540                   |
| Rear   | Rear                                  | Rear                           | Rear                           | Rear                              |
| No   | Optional                              | Optional                       | Optional                       | Optional                          |
| <b>REAR HITCH</b>                              |                                       |                                |                                |                                   |
| Category 1/2                                   | Category 1                            | Category 1                     | Category 1                     | Category 1                        |
| 2,500 lb. (1,135 kg)                           | 2,500 lb. (1,135 kg)                  | 2,500 lb. (1,135 kg)           | 2,500 lb. (1,135 kg)           | 2500lb (1,135 kg)                 |
| 3,130 lb. (1,420 kg)                           | 3,130 lb. (1,420 kg)                  | 3,130 lb. (1,420 kg)           | 3,130 lb. (1,420 kg)           | 3130 lb (1,420 kg)                |
| <b>OPERATING WEIGHT</b>                        |                                       |                                |                                |                                   |
| 4,255 lb (1,934 kg)                            | 3,770 lb. (1,710 kg)                  | 3,770 lb. (1,710 kg)           | 3,770 lb. (1,710 kg)           | —                                 |
| —  | 4,675 lb. (2,120 kg)                  | 4,675 lb. (2,120 kg)           | 4,675 lb. (2,120 kg)           | 4828 lb (2,190 kg)                |
| <b>STANDARD TIRES**</b>                        |                                       |                                |                                |                                   |
| 31.5x13-16.5 (10PR, R4 Industrial, 2 Position) | 8-16 (6PR, R1 Bar, 2 Position)        | 8-16 (6PR, R1 Bar, 2 Position) | 8-16 (6PR, R1 Bar, 2 Position) | 8-16 (6PR, R1 Bar, 2 Position)    |
| 16.9-24 R4                                     | 13.6x28 R1                            | 13.6x28 R1                     | 13.6x28 R1                     | 13.6-28 (4PR, R1 Bar, 5 Position) |
| Folding  | Folding                               | Folding                        | Folding                        | Folding                           |
| No   | Optional                              | Optional                       | Optional                       | Standard                          |
| No   | Optional with cab                     | Optional with cab              | Optional / Standard on cab     | Standard                          |
| 73 in. (1,855 mm)                              | 73 in. (1,855 mm)                     | 73 in. (1,855 mm)              | 73 in. (1,855 mm)              | 73 in. (1,855 mm)                 |





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**JOHN DEERE**



# Scholten's Equipment

8223 Guide Meridian Rd.  
 Lynden WA 98264  
 United States  
 360.354.4071



Printed 2024-01-10

## Quote

Page 1 of 1

|                           |                           |                 |              |
|---------------------------|---------------------------|-----------------|--------------|
| Name/Company              | SUDDEN VALLEY GOLF COURSE | Telephone       | 360-296-6497 |
| Address                   |                           | Account Manager | Tom Postma   |
| City/Town, State/Province | Location Lynden Kubota    | Quote No.       | 28252        |
| Postal/Zip Code           | Quote Date 2024-01-10     | In Effect Until | 2024-01-10   |

How did we get started 43 years ago? Hauling late model used equipment out of the Midwest. We put a 100hr. 90 day drivetrain warranty - money back guarantee on anything we sell over \$20K. We still do it today. Take the risk out of buying equipment. Let us do it for you and guarantee it.

| Quantity                                    | Description  | Price \$ |
|---|--|----------|
| <b>Sales Items</b>                          |  |          |
| <b>- New - Kubota M5660SUH/SUHD Tractor</b> |  |          |
| Stock No.: 4403714                          |  |          |
| 1   | M5660SUHD 4WD Utility 2 Post Foldable ROPS Tractor   | 34156.00 |
| 1   | AMR8526/AMR8541 Front LSW305-521R3 Grizz LSW Soft Turf and Rear LSW570-648 R3 Grizz LSW S.TF 5.75  | 3660.00  |
| 1   | M1059 Front Weight Bracket Kit for Loader Application Requires Bolt/Bar Kit to mount weights. Up to 8 Front Suitcase Weights. Loader must be detached.   | 192.00   |
| 1   | M8079 Suitcase Weight - Qty 8  | 1008.00  |
| 1   | M8074A Bolt/Bar Kit for M1875A and M8070 One Kit per 8 Front Suitcase Weights.   | 77.00    |
| 1   | LA1154SU Front Loader 2 Lever Type Quick Coupler. Includes Mounting Kit, Loader Valve and Joystick, Parking Stands and 2 Lever QA Coupler. Does not include Bucket or Grill Guard. Must be ordered separately. | 7522.00  |
| 1   | M1811 72" 2 Lever Quick Attach   | 871.00   |
| 1   | Setup Machine Setup and PDI  | 1500.00  |
| 1   | Fluid Bio Ballast Tire Fluid   | 500.00   |

**Sub-Total** \$49,486.00

**Sale Items Subtotal** \$49,486.00

**Total Price of Sale Items** \$49,486.00

**Discount** (\$2,853.00)

**Balance** \$46,633.00

**Dealer Doc Fee** \$200.00

**Tax %** \$4,103.70

**Contract Amount** \$50,936.70

Account Manager \_\_\_\_\_ Accepted by \_\_\_\_\_

Tom Postma  
 Tel: 360-220-4174  
 Cell: 360-220-4174  
 Email: tom@scheq.com





For Earth, For Life  
Kubota

M

## KUBOTA DIESEL TRACTOR M5660SUH/M5660SUHD

Built with the power to tackle a wide range of jobs, the new M5660SU brings new and enhanced features to the task, including Kubota's easy-to-use hydraulic shuttle.



# SPECIAL UTILITY

## Everything you asked for and more: Power, Easy operation, Convenience.

We asked what you wanted, and you told us. You wanted power. Easy operation. And comfort. And you wanted it all in an affordable mid-size diesel tractor that could handle it all, from front-loader work to mowing and a whole lot more.

We listened. Introducing the Kubota M5660SU, a diesel tractor with the power, easy operation, and comfort you asked for. Power from a 56 horsepower engine with Electronic CRS Common Rail direct fuel injection for better fuel economy. Easier operation from a variety of new and enhanced features usually found only on bigger tractors or listed as options, including a hydraulic shuttle that simplifies front loader work by letting you smoothly and quickly shift from forward to reverse and back again with a single lever. A new transmission that offers 8 forward and 8 reverse speeds to let you choose the right speed for the job. And the comfort of ergonomically designed controls and a high-back bucket seat with lumbar support to help you work more efficiently and comfortably. Plus a telescopic lower link, rear remote valve, and high-lift loader—all standard equipment—to let you do more in less time and with less effort.

You asked for it, and we delivered. The new M5660SU diesel tractor from Kubota.





# ENGINE

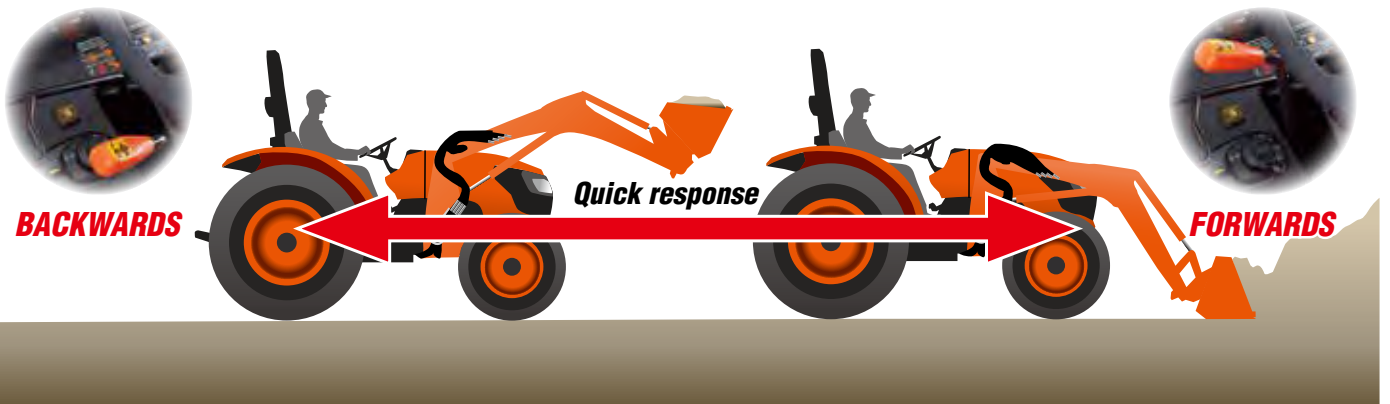


## Powerful and Clean

The M5660SU takes tractor performance to the next level in power even as it reduces emissions. The powerful 56 hp engine features Electronic CRS Common Rail direct fuel injection for better fuel economy. For cleaner emissions, the M5660SU is equipped with a Common Rail System (CRS) and Diesel Particulate Filter (DPF) that work together to ensure compliance with the latest EPA Tier 4 Final emission regulations.

|                  |     |              |
|------------------|-----|--------------|
| <b>M5660SUH</b>  | 2WD | 56 Engine hp |
| <b>M5660SUHD</b> | 4WD | 56 Engine hp |

# TRANSMISSION



## Hydraulic Shuttle

New to this class of tractor, the M5660SU's hydraulic shuttle provides smooth, quick, and effortless shifting between forward and reverse via a single lever, eliminating the need to depress the clutch to change directions. Conveniently located next to the steering wheel, the hydraulic shuttle lever boosts productivity in any job that requires lots of forward/reverse movements, such as front loader work.



## Ergonomical Lever Layout

All levers, including the main shift lever and hydraulic shuttle lever, are located within easy reach from a sitting position. Drivers won't have to extend awkwardly or uncomfortably while performing tractor operations.

## F8/R8 Transmission

A new transmission provides 8 forward and 8 reverse speeds spread across four synchronized main shift speeds and high/low speed ranges, letting you choose the right speed for the task at hand.



# OPERABILITY



## Live-Independent Hydraulic PTO

The M5660SU offers smooth and self-modulating hydraulic independent PTO. A PTO brake ensures smooth stops while maintaining PTO shaft speed. The shaft can be rotated 60 degrees for easy hook-up even while the engine is off.

## 3-Point Hitch

Rear-mounted implements can be attached quickly and easily to the Category I and II 3-point hitch, thanks to the adjustable top link, turn-buckle type lift rod, and telescopic stabilizers. The hitch provides ample lifting: up to 3307 lbs. at 24 inches behind the lift point.

## Rear Remote Valve, SCD Type

The M5660SU offers one rear remote valve as standard equipment and up to three as options. SCD type is self canceling detent, and FD type has a float detent.

## Telescopic Lower Link and Adjustable Lift Rods

Now standard equipment on the M5660SU, Kubota's telescopic lower link ends and adjustable lift rods ensure quick and simple attachment and adjustment of implements.



## High-capacity Fuel Tank

The M5660SU now offers an ample 17.7-gallon (67 l) capacity fuel tank to keep you working longer between fill-ups.

## Bevel-Gear Front Axle

A bevel-gear front axle provides excellent maneuverability and an astonishingly tight 55-degree turning radius, letting you work efficiently in narrow spaces. Standard features include a differential lock on the rear for increased stability and traction when working under difficult ground conditions.



# COMFORT



## High-Back Bucket Suspension Seat

The M5660SU takes operator comfort to an all-new level to keep you working efficiently and with less fatigue. The high-back bucket seat features lumbar support to help you work efficiently and comfortably even when the work day is long.

## New Dash Panel

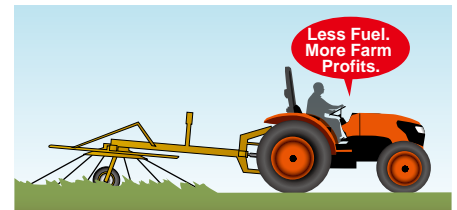
A redesigned dash panel with LCD display provides you with all the information you need to work efficiently and keep your M5660SU in peak condition. The easy-to-read gauges and indicators include a fuel consumption meter, parking indicator, ECU and fault code indicators.



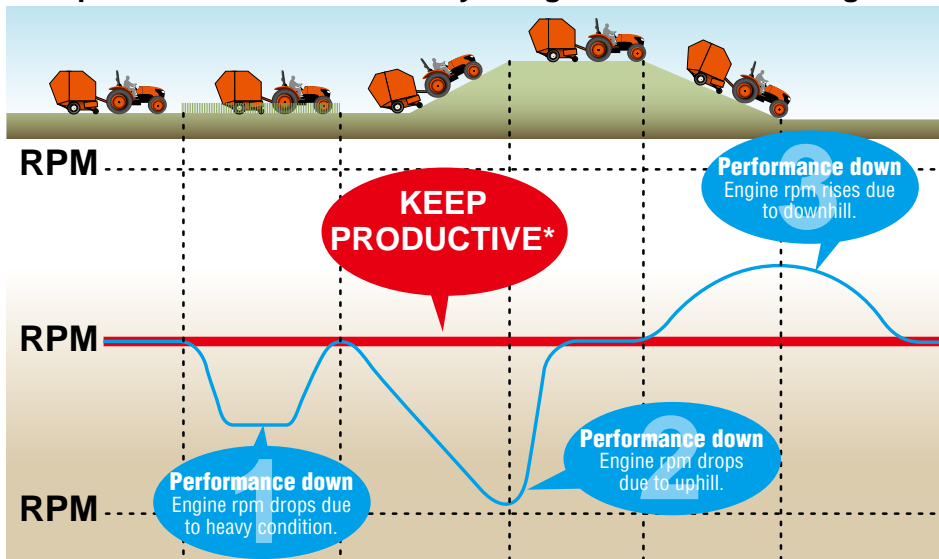
# PRODUCTIVITY

## Economy PTO (optional)

The M5660SU's optional economy PTO can save you money as well as reduce operating noise. Simply select "540E" and the PTO shaft rotation speed is maintained at 540 rpm while the engine speed runs at 1828 rpm with limitation to 2132 rpm, thereby reducing both operating noise and fuel consumption.



## • Keep Productive At Your Farm By Using Constant RPM Management



\*The engine speed drops when the load exceeds the engine performance.

## Constant RPM Management

The M5660SU is equipped with a constant rpm management system that maintains a constant rpm rate regardless of the terrain. When traveling across hilly terrain, simply turn the Constant RPM Management switch to "On", and the M5660SU will maintain a constant travel speed as well as a constant PTO rpm rate when using PTO-driven implements. Constant rpm management improves work accuracy without the need to constantly adjust the travel speed and PTO shaft rpm rate.

— Constant RPM Management Switch ON  
— Constant RPM Management Switch OFF



# FRONT LOADER



## Front Loader

Ideal for farm work, the M5660SU's new Front Loader is fully integrated with a slanted boom that offers greater visibility and clearer sight lines to the sides of the bucket and loader. The curved look is sleek, too, matching the lines of the hood and the tractor's overall design.

## 4-Bar Linkage

A 4-bar bucket linkage system increases the rollback and dumping angle for quicker scooping and dumping.

## Quick-Mount Attach/Detach

Attach or detach the front loader quickly without the use of tools. The boom stands and mounting pins make this task a snap, allowing an extra measure of productivity and tractor versatility.

## Frame

The frame of the front loader maintains its sturdy, thick steel frame, but its design has been simplified by removing braces and connectors. This helps to lessen effort and shorten the time it takes to attach the loader and offers increased visibility.

## 2-Lever Quick Coupler

This standard M-Series feature makes attaching buckets, bale spears and pallet forks quick and easy.



## 3rd Function Valve

The optional 3rd function valve broadens the scope of the front loader operation by enabling the use of a grapple bucket and various other hydraulically controlled attachments. The 3rd function valve can be activated with buttons located on the grip of the joystick.

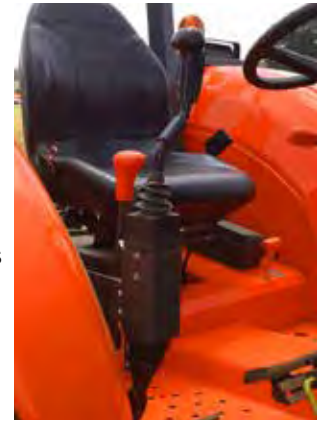
## Greater Lifting Power, Higher Lifting Height

The M5660SU now features an more powerful boom that provides even greater lifting power and height, so you can get more work done with less effort. Two boom cylinder fulcrum positions (Power and Height) let you adjust the boom to fit the job. When doing bucket work, which requires greater power, set the boom cylinder to the Power position. When performing pallet fork or bale spear tasks, which benefit from higher lifting heights, set the boom cylinder to the Height position.



## Joystick Control

An easy-to-operate joystick gives you complete control over the loader's movement and speed. The joystick is located in front of the control console for fast and easy access. The Series Circuit lets you simultaneously operate the boom and bucket, while the Regenerative Bucket Dump Circuit quick and efficient dumping.



## Protected Cylinder Tubes

To better protect the tractor hydraulics and offer the operator more visibility, the hydraulic tubes are neatly tucked inside the loader boom. Hydraulic tube covers further provide protection from wear and tear.



## Front loader specifications

| Model  | LA1154               |                   |              |
|--|----------------------|-------------------|--------------|
| Tractor Applications                                 | M5660SUH / M5660SUHD |                   |              |
| Boom Cylinder Fulcrum                                | Height position      | Power position    |              |
| Maximum Lift Height (Pivot Pin)                      | in. (mm)             | 130.9 (3326)      | 115.7 (2938) |
| Clearance w/Attachment Dump                          | in. (mm)             | 99.9 (2537)       | 84.0 (2133)  |
| Reach @ Maximum Height                               | in. (mm)             | 19.1 (485)        | 38.4 (976)   |
| Maximum Dump Angle                                   | degrees              | 43                | 60           |
| Reach w/Attachment on Ground                         | in. (mm)             | 78.1 (1984)       |              |
| Maximum Rollback Angle                               | degrees              | 45                |              |
| Digging Depth (When Bucket is Level)                 | in. (mm)             | 6.8 (173)         | 5.9 (150)    |
| Overall Height in Carry Position                     | in. (mm)             | 59.6 (1513)       |              |
| Material Bucket Width / Capacity (Heaped)            | in. /cu.ft.(m³)      | 72 / 19.43 (0.55) |              |
| Lift Capacity (Bucket Center)                        | lbs. (kg)            | 2326 (1055)       | 2536 (1150)  |
| Lift Capacity to Maximum Height at Pivot Pin         | lbs. (kg)            | 2469(1120)        | 2928(1328)   |
| Raising Time to Full Height w/out Load <sup>**</sup> | second               | 4.7               |              |
| Lowering time w/out Load (powerdown) <sup>**</sup>   | second               | 3.6               |              |
| Attachment Rollback Time                             | second               | 3.0               |              |
| Attachment Dumping Time                              | second               | 2.8               |              |

<sup>\*\*</sup>w/Standard valves.

# Specifications

| Model  | M5660SUH   |                         | M5660SUHD        |                        |             |
|--|--|-------------------------|------------------|------------------------|-------------|
|  | 2WD  |                         | 4WD              |                        |             |
| <b>Engine</b>                                  | V2403-CR-TE4   |                         |                  |                        |             |
| Type (Make: KUBOTA)                            | 4 cylinder in-line, Common Rail Sytem, direct injection                |                         |                  |                        |             |
| Rated Engine HP (97/68/EC)                     | HP (kW)  | 57.9 (43.2) @2600 rpm   |                  |                        |             |
| Engine net power (SAE J1349)                   | HP (kW)  | 56 (41.8) @2600 rpm     |                  |                        |             |
| PTO power (at rated engine RPM)                | HP (kW)  | 50 (37.3)               |                  |                        |             |
| No. of cylinders/Aspiration                    | 4 / Turbocharged   |                         |                  |                        |             |
| Total displacement                             | cu. in. (cc)   | 148.5 (2434)            |                  |                        |             |
| Fuel tank capacity                             | US gal. (ℓ)  | 17.7 (67)               |                  |                        |             |
| Air cleaner                                    | Dry, dual element  |                         |                  |                        |             |
| Alternator                                     | Amp  | 45                      |                  |                        |             |
| <b>Transmission</b>                            | 8F/8R  |                         |                  |                        |             |
| No. of speeds                                  | 8F/8R  |                         |                  |                        |             |
| Main gear shift (4 speeds)                     | Fully synchronized   |                         |                  |                        |             |
| Shuttle  | Hydraulic shuttle  |                         |                  |                        |             |
| Main clutch                                    | Multiple wet disk  |                         |                  |                        |             |
| Brake  | Mechanical wet disc  |                         |                  |                        |             |
| Differential lock                              | Rear standard (mechanical)   |                         |                  |                        |             |
| <b>PTO</b>                                     | Live-independent, hydraulic PTO with PTO brake, multi-plate wet clutch |                         |                  |                        |             |
| PTO type                                       | Live-independent, hydraulic PTO with PTO brake, multi-plate wet clutch |                         |                  |                        |             |
| Speed  | @540 rpm (540/540E opt)  |                         |                  |                        |             |
| <b>Hydraulic</b>                               | 10.6 (40.2)  |                         |                  |                        |             |
| Pump capacity (main)                           | gpm (ℓ/min)  | 10.6 (40.2)             |                  |                        |             |
| 3-point hitch                                  | Category I & II  |                         |                  |                        |             |
| Control system                                 | Position   |                         |                  |                        |             |
| Lift capacity at 24 in. behind lift point      | lbs. (kg)  | 3307 (1500)             |                  |                        |             |
| No. of remote valves                           | 1 (2nd, 3rd & flow control valve optional)                             |                         |                  |                        |             |
| <b>Tires</b>                                   | 6.5-16 / 14.9-28   |                         |                  |                        |             |
| Standard                                       | 2WD  | Front/Rear              | 6.5-16 / 14.9-28 |                        |             |
|  | 4WD  | Front/Rear              | 8.3-24 / 14.9-28 |                        |             |
| <b>Traveling speeds (w/std. 4WD Ag. tires)</b> |  |                         |                  |                        |             |
| No. of speeds (at rated engine speed)          |  |                         |                  |                        |             |
| First  | Fifth  | Forward                 |                  | Reverse                |             |
| Second   | Sixth  | 1.6 (2.6)               | 6.1 ( 9.7)       | 1.6 (2.6)              | 6.2 ( 9.9)  |
| Third  | Seventh  | 2.2 (3.6)               | 8.5 (13.7)       | 2.3 (3.7)              | 8.7 (14.0)  |
| Fourth   | Eighth   | 3.1 (5.1)               | 12.0 (19.2)      | 3.2 (5.2)              | 12.2 (19.6) |
|  |  | 4.8 (7.7)               | 18.2 (29.3)      | 4.9 (7.8)              | 18.6 (29.9) |
| <b>Other features</b>                          | Bevel gear type with 55 degree turning angle                           |                         |                  |                        |             |
| 4WD drive system (4WD model)                   | Bevel gear type with 55 degree turning angle                           |                         |                  |                        |             |
| Steering                                       | Hydrostatic power steering   |                         |                  |                        |             |
| Hood type / Pedal type                         | Full open, slanted, steel / Hanging                                    |                         |                  |                        |             |
| Deck type                                      | Semi-flat  |                         |                  |                        |             |
| <b>Dimensions</b>                              |  |                         |                  |                        |             |
| Overall length                                 | in. (mm)   | 138.7 (3525)            |                  | 136 (3455)             |             |
| Overall height (w/Foldable ROPS)               | in. (mm)   | 95.3 (2420)             |                  |                        |             |
| Overall width (Minimum)                        | in. (mm)   | 73.2 (1860)             |                  |                        |             |
| Wheelbase                                      | in. (mm)   | 82 (2085)               |                  | 80.7 (2050)            |             |
| Min. ground clearance                          | in. (mm)   | 16.3 (415)              |                  |                        |             |
| Tread width                                    | Front  | 55.9, 71.7 (1420, 1820) |                  | 51.2, 55.1 (1300,1400) |             |
|  | Rear   | 52.0, 67.7 (1320, 1720) |                  |                        |             |
| Turning radius (w/o brake)                     | ft. (m)  | 10.8 (3.6)              |                  | 12.8 (3.9)             |             |
| <b>Weight (with ROPS)</b>                      | lbs. (kg)  | 4189 (1900)             |                  | 4387 (1990)            |             |

The company reserves the right to change the above specifications without notice. This brochure is for descriptive purposes only. Please contact your local Kubota dealer for warranty information. For your safety, KUBOTA strongly recommends the use of a Rollover Protective Structure (ROPS) and seat belt in almost all applications.

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## KUBOTA TRACTOR CORPORATION

Kubota Tractor Corporation, 3401 Del Amo Boulevard, Torrance CA 90503  
 Western Division: 1175 S. Guild Ave., Lodi, CA 95240 Tel (209) 334-9910  
 Central Division: 14855 FAA Boulevard, Fort Worth, TX 76155 Tel (817) 571-0900  
 Northern Division: 6300 at One Kubota Way, Groveport, OH 43125 Tel (614) 835-1100  
 Southeast Division: 1025 Northbrook Parkway, Suwanee, GA 30024 Tel (770) 995-8855

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# Sudden Valley Community Association

360-734-6430  
4 Clubhouse Circle Bellingham, WA 98229  
www.suddenvalley.com

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Greg Wadden, Golf Course Superintendent  
**Date:** February 15, 2024  
**Subject:** Capital Request – Replacement of Turfcare Sand Trap Rake, Asset ID#1047

### Purpose

To request funding to replace Turfcare Cushman Groom Master sand trap rake.

### Background

Turfcare’s Cushman Groom Master sand trap rake has reached the end of its serviceable lifespan and is budgeted for replacement on the capital reserve study in 2024. Many of the components of this unit have either been replaced or are currently not operational such as: broken steering wheel, engine issues, hydraulic rake lift inactive and the three-wheel drive no longer working.

### Analysis

The table below summarizes the available equipment that meets our needs. The lower horsepower of the Smithco Sandstar, it’s unusual design (no steering wheel), and it’s lack of three-wheel drive cause it to fail our review. Of the two models left, the John Deere 1220 Utility Rake is less expensive and meets all of our needs.

| Analysis of Available Models   |                                 |                    |                         |
|--------------------------------|---------------------------------|--------------------|-------------------------|
|                                | John Deere 1220<br>Utility Rake | Toro 3040          | Smithco Sandstar<br>CVT |
| <b>Minimum Requirements</b>    |                                 |                    |                         |
| Wheel base width               | 58"                             | 58"                | 61"                     |
| Rated Horse Power              | 15Hp                            | 16Hp               | 10Hp                    |
| Rear serrated tooth rake       | 78"                             | 73"                | 72"                     |
| LED light kit                  | Yes                             | Yes                | Yes                     |
| 40" front plow                 | 40"                             | 40"                | 40"                     |
| Mid mount scarifier            | 58"                             | 58"                | 61"                     |
| Three wheel drive              | Yes                             | Yes                | No                      |
| Turning wheel radius in inches | 12"                             | 8"                 | 12"                     |
| Price                          | <b>\$32,578.91</b>              | <b>\$34,772.00</b> | <b>\$18,358.00</b>      |

### Proposal

Provide funding for the purchase of a John Deere Tru finish 1220 Utility Rake, equipped with the following accessories as above: not to exceed \$32,578.91 (this price includes sales tax).



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

## Motion

Move that the SVCA Board of Directors approve the allocation of \$32,578.91 from CRRRF for purchasing a Sand Trap Rake and authorize the Golf Course Superintendent to work with the Finance Director on purchase of this item.

## Board of Directors Approval:

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President



**Quote Summary**

**Prepared For:**  
 SUDDEN VALLEY COMMUNITY ASSN  
 4 CLUBHOUSE CIR  
 BELLINGHAM, WA 98229  
 Business: 360-734-6430  
 MAINTENANCE@SUDDENVALLEY.COM

**Prepared By:**  
 Rick Michel  
 Pacific Golf & Turf  
 1818 Bickford Avenue  
 Snohomish, WA 98290  
 Phone: 360-568-7798  
 rmichel@pacificgolfturf.com

**Quote Id:** 29892781  
**Created On:** 01 November 2023  
**Last Modified On:** 19 January 2024  
**Expiration Date:** 31 July 2024

| <b>Equipment Summary</b>                  | <b>Selling Price</b> | <b>Qty</b> | <b>Extended</b> |
|---|----------------------|------------|-----------------|
| JOHN DEERE TruFinish 1220<br>Utility Rake | \$ 29,999.00 X       | 1 =        | \$ 29,999.00    |
| SMITHCO SAND-STAR CVT<br>MECHANICAL       | \$ 18,358.00 X       | 1 =        | \$ 18,358.00    |

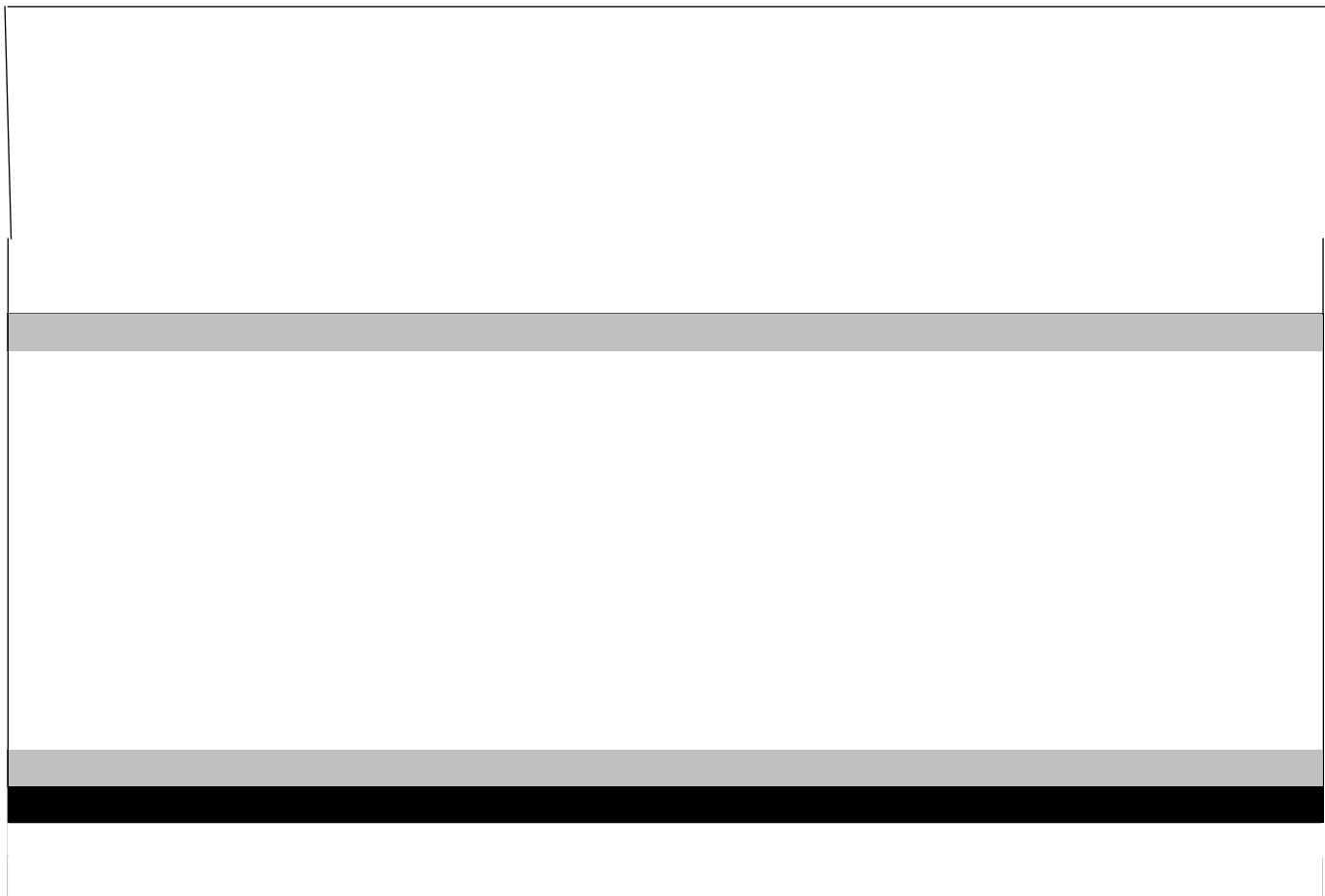
**Equipment Total**

**Quote Summary**  
 Equipment Total  
 SubTotal  
 Sales Tax - (8.60%)  
 Est. Service Agreement Tax  
 Total  
 Down Payment  
 Rental Applied  
**Balance Due**

Salesperson : X \_\_\_\_\_

Accepted By : X \_\_\_\_\_

**Quote Id:** 29892781

**Customer:** SUDDEN VALLEY COMMUNITY ASSN


## JOHN DEERE TruFinish 1220 Utility Rake

**Equipment Notes:**
**Hours:**
**Stock Number:**

| Code                               | Description  | Qty |
|------------------------------------|--|-----|
| 1901XF                             | TruFinish 1220 Utility Rake                                  | 1   |
| <b>Standard Options - Per Unit</b> |  |     |
| 001A                               | US/Canada  | 1   |
| 0443                               | All Other Countries - Operator's Manual<br>- English/Spanish | 1   |
| 6426                               | Rear Serrated Blade Sand Rake                                | 1   |
| 9700                               | 40 In. Front Blade   | 1   |
| 9702                               | LED Light Kit  | 1   |
| 9703                               | Mid-Mount Scarifier Tines                                    | 1   |



# Selling Equipment



Quote Id: 29892781

Customer: SUDDEN VALLEY COMMUNITY ASSN

## SMITHCO SAND-STAR CVT MECHANICAL

Equipment Notes:

Hours: 0

Stock Number:

| Code     | Description              | Qty |
|----------|--------------------------|-----|
| 41-000-A | SAND-STAR CVT MECHANICAL | 1   |



1160  
GLENDALE  
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NV 89701  
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## TruFinish™ 1220 Utility Rake

[Select Another Model In This Series](#)

- Hydrostatic 2WD/3WD System. Shift with the push of a button
- Three-wheel stance with 42-in. (107-cm) wheelbase for a tight turning radius
- Lightweight, heavy-gauge aluminum front blade
- Three mid-mount rake options for the perfect finish
- Five rear rake options. For any infield skin or golf bunker need

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### Key Specs

|   |  |
|---|--|
| <b>Transmission type</b>                  | Hydrostatic with 3 hydraulic wheel motors and selectable 2WD/3WD   |
| <b>Ground clearance @ rake attachment</b> | 5.5 - 7 in.<br>139 - 178 mm  |
| <b>Travel Speed (forward or reverse)</b>  | Forward: 0-12 mph (19 km/h)<br>Reverse: 0-4 mph (6 km/h)   |
| <b>Tank capacity</b>                      | 18.9 L<br>5 U.S. gal.  |
| <b>Displacement</b>                       | 570 cc<br>34.8 cu in.  |
| <b>Engine type</b>                        | Air-cooled   |
| <b>Horsepower</b>                         | 13.4 kW (18.0 HP)<br>Engine Manufacturer Gross Power @3600 rpm per SAE J1940, tested in accordance with SAE J1995. The engine horsepower and torque information are provided by the engine manufacturer to be used for comparison purposes only. Actual operating horsepower and torque will be less. Refer to the engine manufacturer's web site for additional information |

## Engine

|                                   |  |
|-----------------------------------|--|
| <b>Manufacturer</b>               |  |
| <b>Type</b>                       | Air-cooled   |
| <b>Displacement</b>               | 570 cc   |
| <b>Horsepower</b>                 | 13.4 kW (18.0 HP)<br>Engine Manufacturer Gross Power @3600 rpm per SAE J1940, tested in accordance with SAE J1995. The engine horsepower and torque information are provided by the engine manufacturer to be used for comparison purposes only. Actual operating horsepower and torque will be less. Refer to the engine manufacturer's web site for additional information |
| <b>Compression ratio</b>          |  |
| <b>Lubrication</b>                | Full-pressure  |
| <b>Oil capacity</b>               | Without filter: 1.4 L<br>1.5 U.S. qt   |
| <b>Oil filter</b>                 | Standard   |
| <b>Spark arrester<br/>muffler</b> |  |
| <b>Idle speed</b>                 | Low speed: 1,750 rpm<br>fast idle speed (low load): 3,300 rpm  |

## Electrical System

|                |                |
|----------------|----------------|
| <b>Type</b>    | 12 V<br>16 amp |
| <b>Battery</b> | 300 CCA        |

|                           |  |
|---------------------------|--|
|                           | 12 V   |
| <b>Starter</b>            | Electric   |
| <b>Ignition</b>           | Transistor-type  |
| <b>Light kit</b>          | Available  |
| <b>Fuel System</b>        |  |
| <b>Tank capacity</b>      | 18.9 L<br>5 U.S. gal.  |
| <b>Fuel pump</b>          |  |
| <b>Fuel required</b>      | Unleaded gasoline  |
| <b>Transmission</b>       |  |
| <b>Type</b>               | Hydrostatic with 3 hydraulic wheel motors and selectable 2WD/3WD                               |
| <b>Fluid capacity</b>     | 18.9 L<br>5 U.S. qt  |
| <b>Travel Speed</b>       |  |
| <b>Forward or reverse</b> | Forward: 0-12 mph (19 km/h)<br>Reverse: 0-5 mph (8 km/h)                                       |
| <b>Brakes</b>             |  |
| <b>Type</b>               | Dual rear wheel parking brakes; dynamic braking provided by closed loop hydrostatic powertrain |

### Steering

|             |                               |
|-------------|-------------------------------|
| <b>Type</b> | Chain drive to steering wheel |
|-------------|-------------------------------|

### Tires

|              |                          |
|--------------|--------------------------|
| <b>Front</b> | One 22-11x10 Knobby Tire |
|--------------|--------------------------|

|             |                          |
|-------------|--------------------------|
| <b>Rear</b> | Two 22-11x10 Knobby Tire |
|-------------|--------------------------|

### Dimensions

|              |                  |
|--------------|------------------|
| <b>Width</b> | 147 cm<br>58 in. |
|--------------|------------------|

|               |                    |
|---------------|--------------------|
| <b>Height</b> | 189 cm<br>74.4 in. |
|---------------|--------------------|

|               |                  |
|---------------|------------------|
| <b>Length</b> | 173 cm<br>68 in. |
|---------------|------------------|

|                  |                  |
|------------------|------------------|
| <b>Wheelbase</b> | 107 cm<br>42 in. |
|------------------|------------------|

|   |                 |
|---|-----------------|
| <b>Ground clearance @<br/>rake attachment</b> | 178 mm<br>7 in. |
|---|-----------------|

|                       |  |
|-----------------------|--|
| <b>Turning radius</b> |  |
|-----------------------|--|

|                         |                  |
|-------------------------|------------------|
| <b>Weight (approx.)</b> | 431 kg<br>950 lb |
|-------------------------|------------------|

|                                       |  |
|---------------------------------------|--|
| <b>Rear-hitch towing<br/>capacity</b> |  |
|---------------------------------------|--|



## Attachments

|   |  |
|---|--|
| <b>Rake</b>   |  |
| <b>Cultivator</b>   |  |
| <b>Front blade</b>  |  |
| <b>60-in. aluminum front blade</b>                            |  |
| <b>Articulating front-mount core-removal blade</b>            |  |
| <b>Wide- and narrow-interval scarifier tines attachment</b>   |  |
| <b>Mid-mount 64.5-in. (164.9 mm) scraper blade attachment</b> |  |
| <b>Rear-mounted 60-in. field finisher</b>                     |  |
| <b>Hydraulic pump package</b>                                 |  |

## Sound Levels

|                           |  |
|---------------------------|--|
| <b>Operator ear</b>       |  |
| <b>Measuring standard</b> |  |

**Attachments  
installed**

Additional information

**Date collected**

## NEW PRODUCTS

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Date: January 8, 2024

## Quotation for Sudden Valley Community Assoc

Quote No:8083393-00

|                                  |                                    |
|----------------------------------|------------------------------------|
| <b>Prepared For:</b> Greg Wadden | <b>Quote No:</b> 8083393-00        |
| Sudden Valley Community Assoc    | <b>iQuote No:</b> 149171           |
| 4 Clubhouse Circle               | <b>Sales Person:</b> Shawn Frisbee |
| Bellingham, WA 98229             | shawn.frisbee@turfstar.com         |
|                                  | 206-501-7248                       |

## Summary

| Configuration Name | Qty | Unit Price  | Sub Total          | Sales Tax         | Total              |
|--------------------|-----|-------------|--------------------|-------------------|--------------------|
| 010-Sand Pro 3040  | 1   | \$32,018.59 | \$32,018.59        | \$2,753.60        | \$34,772.19        |
| 020-Sand Pro 2040Z | 1   | \$19,693.07 | \$19,693.07        | \$1,693.61        | \$21,386.68        |
| <b>Totals:</b>     |     |             | <b>\$51,711.66</b> | <b>\$4,447.21</b> | <b>\$56,158.87</b> |



Date: January 8, 2024

## Quotation for Sudden Valley Community Assoc

Quote No:8083393-00

### Configuration Product Details 010-Sand Pro 3040

| Model          | Product Description                        | Qty | Unit Price  | Extended    | Sales Tax  | Total              |
|----------------|--|-----|-------------|-------------|------------|--------------------|
| 08743          | Sand Pro 3040                              | 1   | \$23,566.67 | \$23,566.67 | \$2,026.73 | \$25,593.40        |
| 08714          | Manual Blade (40in)                        | 1   | \$2,057.69  | \$2,057.69  | \$176.96   | \$2,234.65         |
| 08734          | Solid Tine Toolbar                         | 1   | \$1,289.74  | \$1,289.74  | \$110.91   | \$1,400.65         |
| 08838          | Midmount Toolbar System Sand Pro 3040/5040 | 1   | \$1,811.54  | \$1,811.54  | \$155.79   | \$1,967.33         |
| 08751          | Tooth Rake                                 | 1   | \$1,976.92  | \$1,976.92  | \$170.02   | \$2,146.94         |
| 08740          | LED Light Kit Sand Pro                     | 1   | \$541.03    | \$541.03    | \$46.53    | \$587.56           |
| FSD2           | Delivery                                   | 1   | \$150.00    | \$150.00    | \$12.90    | \$162.90           |
| FSD1           | Setup                                      | 1   | \$625.00    | \$625.00    | \$53.76    | \$678.76           |
| <b>Totals:</b> |  |     |             |             |            | <b>\$34,772.19</b> |





Date: January 8, 2024

## Quotation for Sudden Valley Community Assoc

Quote No:8083393-00

### Configuration Product Details 020-Sand Pro 2040Z

| Model          | Product Description      | Qty | Unit Price  | Extended    | Sales Tax  | Total              |
|----------------|--------------------------|-----|-------------|-------------|------------|--------------------|
| FSD2           | Delivery                 | 1   | \$150.00    | \$150.00    | \$12.90    | \$162.90           |
| FSD1           | Setup                    | 1   | \$383.00    | \$383.00    | \$32.94    | \$415.94           |
| 08706          | Sand Pro 2040Z           | 1   | \$16,049.35 | \$16,049.35 | \$1,380.25 | \$17,429.60        |
| 08716          | Tooth Rake-SandPro 2040Z | 1   | \$2,193.51  | \$2,193.51  | \$188.64   | \$2,382.15         |
| 08721          | SP 2040Z Light Kit       | 1   | \$610.39    | \$610.39    | \$52.50    | \$662.89           |
| 125-6469       | SEAT ISOLATION KIT       | 1   | \$306.82    | \$306.82    | \$26.38    | \$333.20           |
| <b>Totals:</b> |                          |     |             |             |            | <b>\$21,386.68</b> |



Date: January 8, 2024

## Quotation for Sudden Valley Community Assoc

Quote No:8083393-00

### Standard Terms and Conditions

Prices including all finance options are subject to change based on Turf Star Western's receipt of product and estimated shipments. Currently, product availability is a minimum of 6-18 months. Your Final Price will be determined at time of shipment. Delivery is FOB point of origin unless otherwise stated.

### Office Locations

#### **Northern California:**

3928 N.Blattela Lane  
Fresno, CA 93727  
Fax: (559) 277-7123

2438 Radley Court  
Hayward, CA 94545  
Fax: (510) 785-3576

11373 Sunrise Gold Circle  
Rancho Cordova, CA 95742  
Fax: (800) 241-1997

#### **Southern California:**

79-253 Country Club Drive  
Bermuda Dunes, CA 92203  
Fax: (760) 345-4297

955 Beacon Street  
Brea, CA 92821  
Fax: (800) 775-8873

2110 La Mirada Ste 100  
Vista, CA 92083  
Fax: (760) 734-4285

#### **Pacific Northwest:**

1750 Industrial Dr.NE  
Salem, OR 97301  
Ph: (503) 691-0250

5869 South 194th  
Kent, WA 98032  
Fax: (253) 872-6942

2824 East Garland  
Spokane, WA 99207  
Fax: (509) 483-7563



#### **WARNING:**

Cancer and Reproductive Harm-<http://www.P65Warnings.ca.gov>  
For more information, please visit <http://www.tcoCAProp65.com>

#### **CALIFORNIA SPARK ARRESTER WARNING**

Operation of this equipment in the State of California may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

**TORO****Count on it.**

# SAND PRO<sup>®</sup> 3040/5040

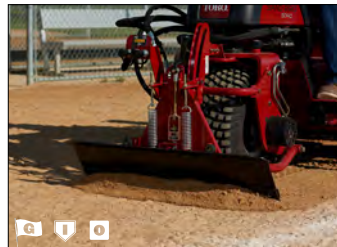
## ATTACHMENTS & ACCESSORIES

### Sand Pro 3040/5040

With the Quick Attach System™ (QAS) and over 30 attachments, the Sand Pro 3040 & 5040 are versatile utility vehicles with many uses on golf courses and sports fields. The QAS lets you change most attachments in under a minute, with no tools required. And the variety of attachments allows you to repair a bunker, groom wet or dry sand, blow debris or reconstruct a tee with one machine. The Sand Pro keeps your course or field in tournament condition every day.

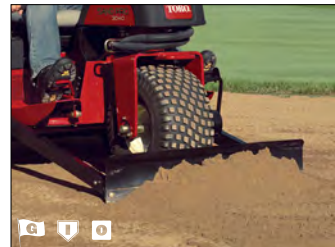


### Front Attachments



#### Hydraulic Flex Blade

- Steerable flex design provides ultimate control
- Levels, packs and smooths uneven areas in one pass
- Dual-function edge can be rotated on the jagged or smooth side



#### Manual Blade

- Spring-balanced steel blade is ideal for leveling uneven areas and pushing up bunker walls
  - Foot lever enables additional downward pressure
- 60" Blade Extension**
- 60" (152 cm) blade for leveling larger areas



#### Lip Broom

- Hydraulically-powered lip broom maintains infield lips by removing ridge buildup and sweeping material back into infield

Available from Rahn Industries  
RahnIndustries.com 800-298-1707



#### Nordic Plow

- Clears snow and debris from any surface
  - Rounded edge will not harm turf, making quick work of aeration core clean up
  - Mounts over Manual Blade or to front QAS (5040 only)
- Available from Nordic Plow  
NordicPlow.com 800-662-7569



#### Bunker Pump

- Throws water up to 40' (12 m) and can pump 95 gal/min (360 l/min)
- Adjustable throw direction and angle

#### Bunker Pump Remote Discharge

- 50' (15 m) discharge hose allows Bunker Pump to be placed in hard to reach areas



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Bloomington, MN 55420-1196  
Rev. 7/18

Specifications subject to change.  
Please contact your Toro distributor for details.





# Sand Pro® 3040/5040 Accessories and Attachments

## Rear Attachments



### Flex Tooth Rake

- Follows contours for superior grooming regardless of bunker undulations
- Gentle on turf and bunker liners



### Drag Mat Carrier System

- Carrier frame allows operators to hydraulically raise and lower drag mats from the operator's seat



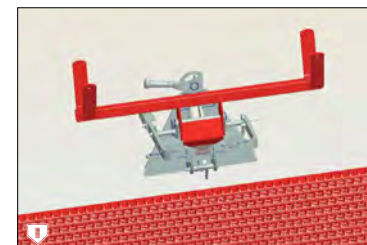
### Nail Drag

- Use to scarify, loosen, or weed before smoothing
- Easily adjust nail pattern and depth
- Accepts up to 40D common nail



### AutoMat Drag Mat

- Automatically engages the infield skin as the Nail Drag is lowered



### Basic Drag Mat System

- Simple drag mat system



### Spring Rake

- Leaf rake assembly great for collecting debris in groomed areas
- Can be used alone or with Tooth Rake



### Coco Drag Mat

- Quickly produces a premium finish on dry, level surfaces



### Flex Groomer

- Pairs with Nail Drag offering complete grooming in one pass



### Spiker

- Spikes greens and other formal turf to increase airflow



### Debris Blower

- Quickly clears debris from unwanted areas



### Tooth Rake

- Lightly scarify, pack, smooth, and groom in wet or dry conditions

#### Weight Kit

- Increased performance in coarse or wet conditions

#### Tooth Rake Broom

- Attaches behind the Tooth Rake for a smoother finish

#### Pivoting Trowels Kit for Tooth Rake

- Provides full grooming in tight bunkers



### Steel Drag Mat

- Quickly groom and finish more rugged surfaces, both wet and dry



### Manual Drag Mat

- Works in tandem with Nail Drag to smooth and even scarified surfaces



### Bunker Pump

- Throws water up to 40' (12 m) and can pump 95 gal/min (360 l/min)
- Adjustable throw direction and angle

#### Bunker Pump Remote Discharge

- 50' (15 m) discharge hose allows Bunker Pump to be placed in hard to reach areas



### Finish Grader

- Weeder, solid, or carbine tines can be mounted to Finish Grader to level or scarify large areas
- Spring load regulation allows for relief if obstruction is hit



Golf



Infields/Sports Fields



Synthetic Turf



Other Surfaces



# Sand Pro® 3040/5040 Accessories and Attachments

## Rear Attachments



### Lip Broom

- Maintains infield lips by removing ridge buildup and sweeping material back into infield
- Use traction unit controls to adjust aggressiveness and speed
- Optional edging attachments for trimming cart paths and walkways

Available from Rahn Industries  
RahnIndustries.com 800-298-1707



### Segmented Grooming Broom

- Minimizes top surface disruption, maximizes firmness, and provides a smooth finished look

#### Replacement Segmented Grooming Broom

- Broom with stiffer bristles

#### Weight Kit for Segmented Grooming Broom

- Improve performance in coarse or wet conditions

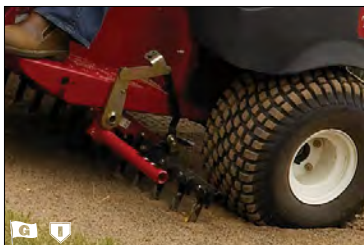


### Rahn Groomer

- Use lock or float position to level uneven playing fields
- Prevents ridge build up and creates a safer infield

Available from Rahn Industries  
RahnIndustries.com 800-298-1707

## Mid Attachments



### Weeder Tine Toolbar

- Ideal for removing weeds and grass from bunkers and infields



### Spring Tine Toolbar

- Use for light to moderate scarifying and daily maintenance on bunkers and infields



### Solid Tine Toolbar

- Great for loosening compact bunkers and scarifying infields
- Tines can be rotated to maximize life



### Carbide Tine Toolbar

- Carbide tips withstand the harshest conditions
- Perfect for loosening compacted infields



### Leveling Blade

- Attach to any mid-mount toolbar
- Ability to lower blade independently of other toolbars
- Selectable depth setting for more consistent leveling



### Sports Field Edger

- Maintain or renovate ball fields by removing overgrown turf infield or warning track lip build up



Golf



Infields/Sports Fields



Synthetic Turf



Other Surfaces

# Sand Pro® 3040/5040 Accessories and Attachments

## Accessories

### Front Lift Frame Assembly

- Front QAS mounting assembly and hydraulic components  
50 lb. Front Weights
  - Allows Spiker or Rahn Groomer attachments without the Front Lift Frame Assembly to meet ANSI compliance

### Mid-Mount Assembly

- Base mounting assembly for mid-mount toolbars featuring spring-loaded relief if obstruction is hit

### Front Remote Hydraulics

- Quick connect design allows front powered attachments to be connected in under a minute

### Rear Remote Hydraulics

- Quick connect design allows rear powered attachments to be connected in under a minute

### Variable Orifice Kit

- Slows hydraulic lift and lower for increased precision

### QAS A-Frame

- Used to attach Spring Rake to be used independently

### 400 Hour Filter Maintenance

- 9 engine oil filters, 2 hydraulic oil filters, and 2 air filters

### Speed Control Kit

- Limits grooming to desired speed while allowing for full transport speed

### Hitch/Tow Bar

- Allows traction unit to transport materials or trailers

### Light Kit

- Front and rear flood lights

## Tires

### Smooth Tire

- Includes individual tire, wheel, and stem valve assembly
- Typically used on greens

### Turf Tire

- Turf tread tire

## CONFIGURATION CHART

|                          | WORKING WIDTH             | REQUIRED COMPONENTS  | OPTIONAL ACCESSORIES  |
|--------------------------|---------------------------|--|---|
| <b>FRONT ATTACHMENTS</b> |                           |  |   |
| HYDRAULIC FLEX BLADE     | 36"   91cm (w)            | Front Lift Frame Assembly  |   |
| MANUAL BLADE             | 40"   102cm (w)           |  | 60" Blade Extension   |
| BUNKER PUMP              | -                         | Front Lift Frame Assembly, Front Remote Hydraulics, Rear Remote Hydraulics   | Remote Discharge  |
| LIP BROOM                | -                         | Front Lift Frame Assembly, Front Remote Hydraulics, Rear Remote Hydraulics<br>CHOOSE ONE: Poly Brush OR Cutting Disc OR Wire Brush | Hydraulic Flow Divider  |
| NORDIC PLOW              | 64"   163cm (w)           | Front Lift Frame Assembly  |   |
| <b>REAR ATTACHMENTS</b>  |                           |  |   |
| TOOTH RAKE               | 73"   185cm (w)           |  | Spring Rake, Pivoting Trowels Kit, Broom, Weight Kit                        |
| FLEX TOOTH RAKE          | 85"   216cm (w)           |  |   |
| SPRING RAKE              | 80"   203cm (w)           | CHOOSE ONE: Tooth Rake OR QAS A-Frame  |   |
| COCO DRAG MAT            | 72" x 36"   183cm x 91cm  | Drag Mat Carrier System  |   |
| STEEL DRAG MAT           | 72" x 36"   183cm x 91cm  | Drag Mat Carrier System  |   |
| NAIL DRAG                | 65"   164cm (w)           |  | Flex Groomer<br>CHOOSE ONE: AutoMat OR Manual Drag Mat                      |
| FLEX GROOMER             | 72"   183cm (w)           | Nail Drag  |   |
| AUTOMAT DRAG MAT         | 78" x 12"   198cm x 30cm  | Nail Drag  |   |
| BASIC DRAG MAT SYSTEM    | 78" x 72"   198cm x 183cm | QAS Lift Arm Adapter, Hitch Tow Bar Kit  |   |
| MANUAL DRAG MAT          | 78" x 36"   183cm x 91cm  | Nail Drag or Finish Grader   |   |
| FINISH GRADER            | 66"   168cm (w)           |  | Manual Drag Mat<br>CHOOSE ONE: Weeder Tines OR Carbide Tines OR Solid Tines |
| DEBRIS BLOWER            | -                         | Rear Remote Hydraulics   |   |
| SPIKER                   | 61"   155cm (w)           |  |   |
| LIP BROOM                | -                         | Rear Remote Hydraulics<br>CHOOSE ONE: Poly Brush OR Cutting Disc OR Wire Brush   |   |
| RAHN GROOMER             | 72"   183cm (w)           |  |   |
| SEGMENTED GROOMING BROOM | 72"   183cm (w)           |  | Stiffer Bristles, Weight Kit  |
| BUNKER PUMP              | -                         | Rear Remote Hydraulics   | Remote Discharge  |
| <b>MID ATTACHMENTS</b>   |                           |  |   |
| WEEDER TINE TOOL BAR     | 58"   147cm               | Mid-Mount Assembly   | Leveling Blade  |
| SPRING TINE TOOL BAR     | 58"   147cm               | Mid-Mount Assembly   | Leveling Blade  |
| SOLID TINE TOOL BAR      | 58"   147cm               | Mid-Mount Assembly   | Leveling Blade  |
| CARBIDE TINE TOOL BAR    | 58"   147cm               | Mid-Mount Assembly   | Leveling Blade  |
| SPORTS FIELD EDGER*      | -                         | Rear Remote Hydraulics   |   |

\*Sports Field Edger can be installed in addition to with other mid-mount attachments



# Sand Pro<sup>®</sup> 2040Z

BUNKER RAKE

## FEATURES

- Kawasaki 12.2 hp (9.1 kW) gasoline, v-twin engine
- Flex tooth rake eliminates tire marks and mounts of sand
- Power steering via independent control sticks
- Unitized transmission minimizes hydraulic lines and connections
- Transport speed up to 12 mph (19.3 km/h)
- Hydraulic-powered groomer lift
- Two-post fixed ROPS, ISO/DIS 21299.2 certified



Only the Toro Sand Pro 2040Z with exclusive Lift in Turn deliver a perfect finish in the tightest of turns.

## Another industry first in bunker maintenance.

The Sand Pro 2040Z mechanical groomer is unlike anything else in the marketplace – a zero-turn bunker rake delivering unmatched productivity and maneuverability. The Sand Pro 2040Z is a daily bunker rake that will reduce your bunker maintenance labor cost. With the exclusive Flex Tooth Rake with patent-pending lift in turn technology, the 2040Z is the only mechanical groomer that can groom in a zero-turn without leaving tire marks or leaving unraked teardrops of sand. The nimble Sand Pro 2040Z will save you valuable time in your workday, improving bunkers' surface playability and consistency.



| SAND PRO 2040Z, MODEL 08706           |   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
|---------------------------------------|---|------------------|--|----------------|--|----------------|------------------|------------------|--|---------------|------------------|------------------|------------------------|------------------|------------------|----------------|------------------|------------------|--|--|--|
| <b>ENGINE</b>                         | Kawasaki 2 cylinder, air cooled, gasoline engine; Gross HP 13.6 HP (10.1 kW), Governed HP 12.2 HP (9.1 kW) @ 2400 rpm; Max torque 27.3 ft-lbs (37.0 Nm) @1800 rpm; Displacement 36.7 cu-in. (603 cc); Oil capacity w/filter 1.7 qts. w/filter (1.5 w/o filter); Oil Filter External, spin-on  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>AIR CLEANER SYSTEM</b>             | Heavy duty single stage cyclonic air filter with replacement element  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>FUEL CAPACITY</b>                  | 4.5 gals (17 liters) of unleaded gas (maximum 10% ethanol)  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>TRACTION DRIVE</b>                 | Belt driven independent infinitely variable unitized transmission, with automatic tensioning system.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>HYDRAULIC OIL</b>                  | Factory fill Mobil fluid 424 tractor transmission fluid; Left hand transmission section: 3.1 qt (3.25 liters); Right hand transmission section: 3.55 qt (3.75 liters)   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>GROUND SPEED</b>                   | Forward 0-12 mph (0-19.3 km/h), Reverse 0-4 mph (0-6.4 km/h). See Speed Limiter Kits below for additional information.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>TIRES/WHEELS</b>                   | Drive Wheels 25x12- 9, 3 ply rating pneumatic tubeless demountable with a Turf Tamer (knobby) tread. Front Wheel 16x7.5-8 4 ply rating pneumatic tubeless demountable with turf traction tread. Recommended tire pressure: 7 psi all tires  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>MAIN FRAME</b>                     | Rectangular structured steel tube and high strength steel plate welded construction.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>BRAKES</b>                         | Twin levers with dynamic braking through hydrostatic transmission. Hand actuated parking brake lever that controls two integral wet disc brakes contained within transmission.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>STEERING</b>                       | Power steering, controlled through two independent control sticks with integrated dampeners. Min. turning radius: 0 in (0 cm)   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>CONTROLS/GAUGES</b>                | Ignition: Off/Run/Start; Throttle: Low - High Idle; Choke: Open /Closes choke plate; Parking Brake: Off - On<br>LCD logic cluster includes hour meter and safety interlocks for operator presence, neutral and parking brake.   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>REAR ATTACHMENT HYDRAULIC LIFT</b> | Raise/Lower switch mounted at end of right handle.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>SEAT</b>                           | High back cushion vinyl seat with drain hole, integrated armrest and retractable seat belt; adjustment is 4 inches fore and aft.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>ROPS</b>                           | Two post fixed ROPS, certified per ISO/DIS 21299.2 specifications   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>STORAGE</b>                        | Built-in cup holder, rake holder and personal storage reached from seat.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>ELECTRICAL FEATURES</b>            | 12-volt system, 20-amp alternator at 3,600 rpm. Battery Voltage is displayed when key switch is moved from off to run (Low Battery LED will illuminate if key voltage is less than 12.3V in run position)   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>SOUND LEVEL</b>                    | 88 dBA (Operator Ear)   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>DIMENSIONS/WEIGHT</b>              | <table border="1"> <thead> <tr> <th></th> <th>with Flex Tooth Rake</th> <th>with Nail Drag</th> <th></th> </tr> </thead> <tbody> <tr> <td><b>Length:</b></td> <td>89.0 in (226 cm)</td> <td>84.8 in (215 cm)</td> <td rowspan="5"><b>Wheelbase:</b> 58.0 in (147 cm)<br/><b>Tread width (to centerline of tire):</b> 46.9 in (119 cm)</td> </tr> <tr> <td><b>Width:</b></td> <td>84.0 in (213 cm)</td> <td>71.5 in (182 cm)</td> </tr> <tr> <td><b>Overall Height:</b></td> <td>73.0 in (185 cm)</td> <td>73.0 in (185 cm)</td> </tr> <tr> <td><b>Weight:</b></td> <td>920 lbs (417 kg)</td> <td>970 lbs (439 kg)</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> |                  | with Flex Tooth Rake   | with Nail Drag |  | <b>Length:</b> | 89.0 in (226 cm) | 84.8 in (215 cm) | <b>Wheelbase:</b> 58.0 in (147 cm)<br><b>Tread width (to centerline of tire):</b> 46.9 in (119 cm) | <b>Width:</b> | 84.0 in (213 cm) | 71.5 in (182 cm) | <b>Overall Height:</b> | 73.0 in (185 cm) | 73.0 in (185 cm) | <b>Weight:</b> | 920 lbs (417 kg) | 970 lbs (439 kg) |  |  |  |
|                                       | with Flex Tooth Rake  | with Nail Drag   |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>Length:</b>                        | 89.0 in (226 cm)  | 84.8 in (215 cm) | <b>Wheelbase:</b> 58.0 in (147 cm)<br><b>Tread width (to centerline of tire):</b> 46.9 in (119 cm) |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>Width:</b>                         | 84.0 in (213 cm)  | 71.5 in (182 cm) |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>Overall Height:</b>                | 73.0 in (185 cm)  | 73.0 in (185 cm) |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>Weight:</b>                        | 920 lbs (417 kg)  | 970 lbs (439 kg) |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
|                                       |   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>GROUND CLEARANCE</b>               | 5.5 in (14 cm) (at machine centerline 24 in tire)   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>TIE DOWNS</b>                      | Four loops, one located on each corner of the machine.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>WARRANTY</b>                       | 2-year limited warranty. Refer to the Operator's Manual for further details.  |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |
| <b>SAFETY CERTIFICATIONS</b>          | Certified to meet ANSI specification B71.4 - 2012 standards when equipped with weight kits supplied with attachments. Certified to meet ISO/DIS 21299 for ROPS. Engine meets all applicable emission standards per the manufacturer. Certified to meet C-Tick 2004/108/EC/EMC and the CE Machinery Directive.   |                  |  |                |  |                |                  |                  |  |               |                  |                  |                        |                  |                  |                |                  |                  |  |  |  |

| REAR ATTACHMENTS<br>(NOTE: Unit must always have a rear attachment installed to meet ANSI and CE specifications) |  |
|--|--|
| <b>FLEX TOOTH RAKE (08716)<br/>(GOLF APPLICATIONS)</b>   | <ul style="list-style-type: none"> <li>84" (213 cm) wide tooth rake with three reversible rubber trowels that will not tear bunker liners</li> <li>Convex Trowel Design is able to continuously groom a 70" (178 cm) radius surface</li> <li>Lift-in-turn design allows for continuous grooming during a zero radius turn</li> <li>Rubber trowel design reduces damage to bunker edges and liners</li> </ul> |
| <b>OPTIONAL ACCESSORIES FOR TOOTH RAKE</b>   | Broom Finishing Kit (three section brush), Model 08719   |
| <b>NAIL DRAG (08717)<br/>(INFIELD GROOMING APPLICATIONS)</b>   | <ul style="list-style-type: none"> <li>66" (168 cm) wide with 88 removable nails arranged in diamond pattern</li> <li>3 height position for nails increases material flow and extends nail wear</li> <li>71.5" (182 cm) rubber groomer</li> <li>Back blade allows for moderate or small area leveling of infield surface</li> </ul>  |
| <b>OPTIONAL ACCESSORIES FOR NAIL DRAG</b>  | Drag mat finishing kit (08718): (78"W X 18"L 1"square steel mat); includes cradles to store mat during transport. Model 08718  |
| OTHER TRACTION UNIT ACCESSORIES  |  |
| <b>LIGHT KIT</b>   | 2 LED lights, one in front one mounts to ROPS and points rearward. 3 Position switch, all lights on, front on or off. Model 08721  |
| <b>SPEED LIMITER KIT</b>   | Automatically reduces maximum speed of the traction unit when the rear attachment is lowered. Adjustable to maximum speed of 3 - 7 mph (4.8 - 11.3 km/h). Model 08720.   |
| <b>TRANSPORT SPEED LIMITER KIT</b>   | Reduces speed infinitely from top speed to approximately 7 mph (11 k/hr) or top speed of grooming speed. Part 130-7877   |
| <b>SEAT SUSPENSION KIT</b>   | Rubber isolators provide cushioning. PN 125-6469   |
| <b>MESH BAG KIT</b>  | Storage bag for maintenance tools, trash, debris, etc.; mounts to ROPS. PN 127-0359  |
| <b>TURF TRAC TIRE</b>  | Less aggressive tread for rear drive tires. PN 125-6462  |
| <b>BIMINI SUNSHADE</b>   | Canvas sunshade that mounts to ROPS. Model 30358   |
| <b>RAKE HOLDER</b>   | SP2040Z has a standard rake holder mounted on left hand side, a second optional rake holder can mount to right hand side of SP2040Z. PN 127-0353-03  |





**Quote Summary**

**Prepared For:**  
 SUDDEN VALLEY COMMUNITY ASSN  
 4 CLUBHOUSE CIR  
 BELLINGHAM, WA 98229  
 Business: 360-734-6430  
 MAINTENANCE@SUDDENVALLEY.COM

**Prepared By:**  
 Rick Michel  
 Pacific Golf & Turf  
 1818 Bickford Avenue  
 Snohomish, WA 98290  
 Phone: 360-568-7798  
 rmichel@pacificgolfturf.com

**Quote Id:** 29892781  
**Created On:** 01 November 2023  
**Last Modified On:** 23 January 2024  
**Expiration Date:** 31 July 2024

| <b>Equipment Summary</b>               | <b>Selling Price</b> | <b>Qty</b> | <b>Extended</b>     |
|--|----------------------|------------|---------------------|
| JOHN DEERE TruFinish 1220 Utility Rake | \$ 29,999.00 X       | 1 =        | \$ 29,999.00        |
| <b>Equipment Total</b>                 |                      |            | <b>\$ 29,999.00</b> |

| <b>Quote Summary</b>       |                     |
|----------------------------|---------------------|
| Equipment Total            | \$ 29,999.00        |
| SubTotal                   | \$ 29,999.00        |
| Sales Tax - (8.60%)        | \$ 2,579.91         |
| Est. Service Agreement Tax | \$ 0.00             |
| <b>Total</b>               | <b>\$ 32,578.91</b> |
| Down Payment               | (0.00)              |
| Rental Applied             | (0.00)              |
| <b>Balance Due</b>         | <b>\$ 32,578.91</b> |

Salesperson : X \_\_\_\_\_

Accepted By : X \_\_\_\_\_

Quote Id: 29892781

Customer: SUDDEN VALLEY COMMUNITY ASSN

## JOHN DEERE TruFinish 1220 Utility Rake

Hours:

Stock Number:

| Code                               | Description  | Qty |
|------------------------------------|--|-----|
| 1901XF                             | TruFinish 1220 Utility Rake                                  | 1   |
| <b>Standard Options - Per Unit</b> |  |     |
| 001A                               | US/Canada  | 1   |
| 0443                               | All Other Countries - Operator's Manual<br>- English/Spanish | 1   |
| 6426                               | Rear Serrated Blade Sand Rake                                | 1   |
| 9700                               | 40 In. Front Blade   | 1   |
| 9702                               | LED Light Kit  | 1   |
| 9703                               | Mid-Mount Scarifier Tines                                    | 1   |



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Jo Anne Jensen, General Manager  
**Date:** February 22, 2024  
**Subject:** Capital Request – 2024 Fast Response

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### Purpose

To request funding for the 2024 Fast Response for Unforeseen Drainage Issues project.

### Background

Sudden Valley Community Association (SVCA)'s 2024 budget includes \$88,400 for Fast Response for Unforeseen Drainage Issues. This budget item is intended to cover unexpected drainage issues that may occur throughout the year. In 2022, SVCA began restoring SVCA's drainage system to the original 1970's construction design, and, in 2023, aggressively continued restoration. In 2023, SVCA cleared and established positive drainage at all culverts previously known and located 99 additional culverts that were buried. SVCA has also adopted a new 10 Year Roads and Drainage Capital Plan. With these improvements, the risk of an unexpected infrastructure failure is reduced, but still present. It is important to maintain this budget item to cover unexpected drainage issues that may arise. Some examples of situations in which the Fast Response budget has been used include the 2021 November flood, and the 2023 October rain event. In addition, SVCA anticipates additional culverts will continue to be found as 3 new culverts were already located in 2024. This puts the total of new culverts found in the last year up to 102.

### Analysis

SVCA has approximately 40 miles of roads, typically with ditches on both sides, and 353 identified culverts. This infrastructure network winds through steep, heavily forested terrain, includes 1 lake, numerous drainage corridors, and 2 large creeks – Beaver Creek and Austin Creek. Given the scope of this network, it is not uncommon for drainage issues to develop during storm events. This capital request provides immediate financial assistance for SVCA to quickly address issues that may arise.

These unexpected events often require a quick response to reduce damage or re-establish access. This work is typically completed on a Time and Materials contract by external contractors if the scope is beyond the Maintenance Department's capabilities. A Time and Materials contract allows SVCA to quickly mobilize a contractor and complete the work. SVCA issued a request for bids for an on-call construction contract and received many responses (see attached). After review, we recommend that SVCA issue on-call contracts to the top 3 competitive bidders: Stremler Gravel, Inc.; Dirt Works Bellingham, Inc., and Tiger Construction LTD. With these contracts in place, the Maintenance & Facilities Manager will be able to



# Sudden Valley Community Association

360-734-6430  
4 Clubhouse Circle Bellingham, WA 98229  
www.suddenvalley.com

contact the contractors by order of bid (lowest to highest) when urgent or emergency situations occur.

## Request 1

Authorize \$88,400.00 from Roads for the 2024 Fast Response for Unforeseen Drainage Issues project. The funds will be monitored by SVCA’s Maintenance Manager who is responsible for the overall project, and will determine when it is necessary to use an external contractor.

## Request 2

Authorize the General Manager to execute SVCA’s standard construction contract (see attached) with the 3 recommended contractors per PNW’s proposal dated February 6<sup>th</sup>, 2024.

- Stremler Gravel, Inc.
- Dirt Works Bellingham, Inc.
- Tiger Construction LTD.

## Motion 1

Move that the SVCA Board of Directors approve the allocation of \$88,400 from Roads for the 2024 Fast Response for Unforeseen Drainage Issues project and name the Maintenance & Facilities Manager as the individual responsible for management of this project.

## Motion 2

Move that the SVCA Board of Directors authorize the General Manager to execute SVCA’s standard construction contract with Stremler Gravel, Inc., Dirt Works Bellingham, Inc. and Tiger Construction LTD.

## Motion 1

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President

## Motion 2

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President





February 6, 2024

Sudden Valley Community Association  
Attn: Michael Brock  
4 Clubhouse Circle  
Bellingham, WA 98229

RE: Project Scope Letter  
**2024 On-Call Contractor**

PNW is providing this overall project scope letter to SVCA for the 2024 On-Call Contractor projects. On 1-23-24 PNW issued a bid package to 6 contractors requesting quotes for a Time and Materials contract with SVCA.

- Stremler Gravel Inc. – Quote Received
- Dirt Works Bellingham, Inc. – Quote Received
- Tiger Construction LTD. – Quote Received
- Western Refinery Services – Quote Received
- Strider Construction – No Quote
- Premium Services – No Quote

The quantities on the bid form reflect the types of labor and equipment that SVCA has regularly used for similar scopes of work the last 2 years. Scopes of work have included ditching, culvert cleaning, culvert replacements, road repairs, flood cleanups, slide repairs, etc. The bid form was generated solely for the purpose of comparing units to establish the best value between contractors. PNW is recommending SVCA issue contracts to the 3 lowest bidders per the attached bid results.

1. Stremler Gravel, Inc.
2. Dirt Works Bellingham, Inc.
3. Tiger Construction LTD.

The contracts are for a 1-year period, and expire on 3-1-25. The intent is next January/February a new bid will be issued, and a new 1-year contract executed. The contracts issued will be for a \$0.00 value, and strictly reference the unit prices per the bid forms. Only the actual quantities used would be paid. Each time SVCA has a project for this contract, the contractors would be called in order. Stremler Gravel would be called first, if they are unavailable Dirt Works would be called next, and then Tiger Construction. Attached is the bid package for reference.

Please let me know if you have any questions, or if you would like any further information.

Sincerely,

Tyler Andrews  
President

**February 6, 2024 - Bid Tabulation**

**Project: 2024 On-Call Contractor**

| Item # | Description   | Quantity | Unit | Stremler Gravel |                     | Dirt Works Bellingham |                     | Tiger Construction LTD. |                     | WRS         |                     |
|--------|---|----------|------|-----------------|---------------------|-----------------------|---------------------|-------------------------|---------------------|-------------|---------------------|
|        |   |          |      | Unit Price      | Total               | Unit Price            | Total               | Unit Price              | Total               | Unit Price  | Total               |
| 1      | Equipment Mobilization to SVCA -<br>8,000LB Size Machine  | 2        | EA   | \$ 305.00       | \$ 610.00           | \$ 1,200.00           | \$ 2,400.00         | \$ 2,000.00             | \$ 4,000.00         | \$ 700.00   | \$ 1,400.00         |
| 2      | Equipment Mobilization to SVCA -<br>18,000LB Size Machine | 2        | EA   | \$ 435.00       | \$ 870.00           | \$ 1,200.00           | \$ 2,400.00         | \$ 2,000.00             | \$ 4,000.00         | \$ 1,500.00 | \$ 3,000.00         |
| 3      | Equipment Mobilization to SVCA -<br>35,000LB Size Machine | 2        | EA   | \$ 435.00       | \$ 870.00           | \$ 1,200.00           | \$ 2,400.00         | \$ 2,000.00             | \$ 4,000.00         | \$ 2,100.00 | \$ 4,200.00         |
| 4      | Foreman w/ Tool Truck                                     | 80       | HRS  | \$ 115.00       | \$ 9,200.00         | \$ 100.00             | \$ 8,000.00         | \$ 110.00               | \$ 8,800.00         | \$ 125.00   | \$ 10,000.00        |
| 5      | Operator  | 70       | HRS  | \$ 75.00        | \$ 5,250.00         | \$ 70.00              | \$ 4,900.00         | \$ 72.00                | \$ 5,040.00         | \$ 90.00    | \$ 6,300.00         |
| 6      | Laborer   | 70       | HRS  | \$ 75.00        | \$ 5,250.00         | \$ 60.00              | \$ 4,200.00         | \$ 52.00                | \$ 3,640.00         | \$ 72.00    | \$ 5,040.00         |
| 7      | Truck Driver  | 70       | HRS  | \$ 70.00        | \$ 4,900.00         | \$ 55.00              | \$ 3,850.00         | \$ 64.00                | \$ 4,480.00         | \$ 77.00    | \$ 5,390.00         |
| 8      | Traffic Spotter   | 70       | HRS  | \$ 75.00        | \$ 5,250.00         | \$ 65.00              | \$ 4,550.00         | \$ 44.00                | \$ 3,080.00         | \$ 72.00    | \$ 5,040.00         |
| 9      | Flagger   | 40       | HRS  | \$ 75.00        | \$ 3,000.00         | \$ 65.00              | \$ 2,600.00         | \$ 44.00                | \$ 1,760.00         | \$ 72.00    | \$ 2,880.00         |
| 10     | 2nd Tool Truck if Required                                | 40       | HRS  | \$ 35.00        | \$ 1,400.00         | \$ 40.00              | \$ 1,600.00         | \$ 38.00                | \$ 1,520.00         | \$ 35.00    | \$ 1,400.00         |
| 11     | Dump Truck - Solo   | 40       | HRS  | \$ 90.00        | \$ 3,600.00         | \$ 110.00             | \$ 4,400.00         | \$ 150.00               | \$ 6,000.00         | \$ 82.00    | \$ 3,280.00         |
| 12     | Dump Truck - 5 CY   | 40       | HRS  | \$ 80.00        | \$ 3,200.00         | \$ 100.00             | \$ 4,000.00         | \$ 150.00               | \$ 6,000.00         | \$ 50.00    | \$ 2,000.00         |
| 13     | Excavator - 8,000LB Size                                  | 40       | HRS  | \$ 60.00        | \$ 2,400.00         | \$ 45.00              | \$ 1,800.00         | \$ 44.00                | \$ 1,760.00         | \$ 68.00    | \$ 2,720.00         |
| 14     | Excavator - 18,000LB Size                                 | 40       | HRS  | \$ 65.00        | \$ 2,600.00         | \$ 75.00              | \$ 3,000.00         | \$ 78.00                | \$ 3,120.00         | \$ 120.00   | \$ 4,800.00         |
| 15     | Staging Area Reload Machine                               | 10       | HRS  | \$ 75.00        | \$ 750.00           | \$ 125.00             | \$ 1,250.00         | \$ 102.00               | \$ 1,020.00         | \$ 170.00   | \$ 1,700.00         |
| 16     | Offsite Disposal via Truck & Trailer                      | 500      | TCY  | \$ 18.50        | \$ 9,250.00         | \$ 20.00              | \$ 10,000.00        | \$ 30.00                | \$ 15,000.00        | \$ 30.00    | \$ 15,000.00        |
| 17     | Onsite Equipment Moves                                    | 20       | HRS  | \$ 165.00       | \$ 3,300.00         | \$ 160.00             | \$ 3,200.00         | \$ 137.00               | \$ 2,740.00         | \$ 170.00   | \$ 3,400.00         |
| 18     | Traffic Control Devices                                   | 1        | LS   | \$ 500.00       | \$ 500.00           | \$ 750.00             | \$ 750.00           | \$ 1,500.00             | \$ 1,500.00         | \$ 2,000.00 | \$ 2,000.00         |
| 19     | Materials   | 1        | EST. | \$ 5,000.00     | \$ 5,000.00         | \$ 5,000.00           | \$ 5,000.00         | \$ 5,000.00             | \$ 5,000.00         | \$ 5,000.00 | \$ 5,000.00         |
| 20     | Minor Changes   | 1        | EST. | \$ 5,000.00     | \$ 5,000.00         | \$ 5,000.00           | \$ 5,000.00         | \$ 5,000.00             | \$ 5,000.00         | \$ 5,000.00 | \$ 5,000.00         |
|        | <b>Subtotal</b>   |          |      |                 | <b>\$ 72,200.00</b> |                       | <b>\$ 75,300.00</b> |                         | <b>\$ 87,460.00</b> |             | <b>\$ 89,550.00</b> |
|        | <b>WSST @ 8.6%</b>  |          |      |                 | <b>\$ 6,209.20</b>  |                       | <b>\$ 6,475.80</b>  |                         | <b>\$ 7,521.56</b>  |             | <b>\$ 7,701.30</b>  |
|        | <b>Total w/ WSST</b>                                      |          |      |                 | <b>\$ 78,409.20</b> |                       | <b>\$ 81,775.80</b> |                         | <b>\$ 94,981.56</b> |             | <b>\$ 97,251.30</b> |



January 23, 2024

Attn: Bidders

RE: Sudden Valley Community Association (SVCA)  
**Quote Request – 2024 On-Call Contractor**

SVCA is requesting quotes for the 2024 On Call Contractor projects. This contract will be for a 1-year period, and the rates provided shall be effective for the full 1-year without changes. The contract will expire on March 1<sup>st</sup>, 2025. This is a Time and Materials contract. The quantities listed on the bid form are for bidding purposes only, and the actual quantities used will be paid. SVCA will use the established quantities on the bid form to determine the on-call contractors. SVCA intends to issue contracts to the 3 most competitive bids. As SVCA has projects arise the lowest bid contractor will be called first, if that contractor is unavailable the 2<sup>nd</sup> lowest contractor will be called, and finally the 3<sup>rd</sup> contractor. Each time a new project arises the order of priority will restart to first calling the lowest contractor.

The scope of work for this project is primarily intended to cover is unforeseen road and drainage issues that need to be quickly addressed without going through a full design/bidding process. Activities could include culvert replacement, drainage improvements, road repairs, etc. Typically, these are related to storm events and take place between the fall and spring. The scope of work will vary each time and should be anticipated to take between a day to a couple of weeks or more each call out. The number of call outs in a year will vary depending on issues that arise. Projects are anticipated to be sequenced as:

- Mobilize to the Gate 5 Overflow Parking Lot that is used for contractor staging.
- From Gate 5 move to the work location daily if no staging is available at the immediate site.
- Stage bulk materials at Gate 5, and shuttle onsite with solo dump trucks / tool trucks. The majority of locations throughout SVCA have no staging areas available, and roads generally don't have shoulders. At Gate 5 truck and trailer access is available.
- Generally, the Gate 5 location will have a piece of equipment dedicated to it for reloading materials into dump trucks.
- Typical crew configuration based on historical events include a foreman with a tool truck, operator with either an 8,000LB or 18,000LB sized excavator, laborer, dump truck, and traffic spotter. A second unoperated machine is typically at the staging area for reloading of materials.

In addition, SVCA intends to utilize this Contract to assist with ditching maintenance. Each year SVCA identifies more locations that need ditches cleaned as they work to reestablish their drainage network. The majority of SVCA's ditches haven't been maintained since they were built in the 1970's. Cleaning typically consists of removing 1' to 3' of debris, and then lining with jute matting or 2x4 quarry spalls. The ditching each year will typically use the crew identified above, and last for a couple of weeks during the summer months.



#### Other Project Notes:

1. The project will be presented to SVCA's Board on Thursday, 2-22-24, for contract award.
2. SVCA typical work hours are 8:00am – 7:00pm Monday thru Friday, and 8:00am – 6:00pm Saturday. Exceptions to this may apply depending on the scope of work required.
3. SVCA will allow contractor staging in the overflow parking lot located across from Gate 5 along Lake Louis Road. There is very limited staging available at each work location.
4. The rates listed on the bid form shall include all overhead and markup. All other items such as materials, rental equipment, subcontractors, etc. shall receive a 15% markup on invoice cost.
5. If other equipment is required than provided on the bid form, a unit rate shall be agreed to prior to mobilization.
6. Fridays are garbage/recycling day in Sudden Valley. Contractor shall not interfere with this pickup. If Contractor plans to have the road obstructed on Friday's other arrangements shall be coordinated by the Contractor for garbage/recycling collection.
7. Traffic control shall follow MUTCD and WSDOT standards.
8. Installation shall follow WSDOT specifications and standards.
9. This is a private project, and prevailing wages are not applicable.

#### Scope of Work Clarifications:

- Items 1 – 3 – Equipment Mobilization
  - o These cover mobilizing machines to and from SVCA. Each mobilization shall be roundtrip. For example, a bid quantity of 2 means mobilizing 2 machines to and from SVCA.
- Item 4 – Foreman w/ Tool Truck
  - o It is assumed only 1 tool truck will be required at each work location. If multiple locations are worked at once, or a specific area requires additional tool truck(s), bid item 10 shall apply.
  - o Unless agreed to with SVCA additional tool trucks onsite will be incidental to the scope of work.
- Item 15 – Staging Area Reload Machine
  - o This will be paid for actual time used rounded up to the nearest hour each day.
  - o This machine is typically a loader or excavator depending on contractor availability. The machine is assumed to be capable of efficiently loading dump trucks.
- Item 16 – Offsite Disposal via Truck & Trailer
  - o Contractor shall assume this is a mix of dirt, gravel, and organics – typical ditch debris. The unit price shall include hauling and disposal fees, and will be measured by truck yards.
  - o If other disposal is required, it will covered under Item 20.
- Item 17 – Onsite Equipment Moves
  - o This item covers a vehicle and trailer to move equipment from Gate 5 around SVCA. The driver is covered under Item 7.





- Item 18 – Traffic Control Devices
  - o This item shall cover flagging signs and devices. If flagging is required, the lane closure is typically 200' or less.
  - o This also covers devices such as cones/candles to delineate the work zones. Typically, 20 devices is adequate to cover any location while being worked, and could include signage such as Shoulder Closed or Road Work Ahead signs.
  - o If detours or other extensive traffic control devices are required, they will be covered under Item 19.

Attachments:

1. Bid Form – 2 Pages
2. SVCA Standard Contract – 12 Pages

Questions shall be directed to Tyler Andrews at [tylera@pnwcivil.com](mailto:tylera@pnwcivil.com) or 360-739-2072. Bids are due by 2:00 pm on Tuesday, 2-6-24. Email bid submissions to [tylera@pnwcivil.com](mailto:tylera@pnwcivil.com).



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Jo Anne Jensen, General Manager  
**Date:** February 22<sup>nd</sup>, 2024  
**Subject:** Capital Request – 2024 Ditches, Culverts, and Swales (CVC)

---

### Purpose

To request funding approval for maintenance of ditches, culverts, and swales per the 2016 Special General Meeting (SGM) Mandate for 2024.

### Background

The 2016 SGM required Sudden Valley Community Association (SVCA) to perform major maintenance of ditches, culverts, and swales on an annual basis. A memo from Larson Gross dated December 29<sup>th</sup>, 2015, outlined the work that could be completed under this program, see attached. Since the 2016 SGM, this project has been called Culvert and Vegetation Control (CVC). From 2016 to 2021 it appears most of the work completed under this project was focused on vegetation control. In 2022, SVCA's Board of Directors approved the 2022 Road and Drainage Notice of Activity (NOA) Project that focused on solving known storm drainage issues. Many of these issues had been known for years but had not been addressed. This project completed work at more than 40 locations throughout SVCA. The scope of work included excavating to restore ditches/swales for over 5,000 lineal feet, culvert cleaning, and numerous culvert replacements.

In 2022, SVCA's Maintenance Department took a new approach to maintaining SVCA's drainage infrastructure by incorporating preventive maintenance activities along with the focused vegetation control that been done previously. With this shift, additional work was included as part of the annual operating budget for maintenance:

- Roadside mowing of all SVCA road shoulders a minimum of twice per year.
- Proactive trimming of roadside trees/vegetation by Maintenance staff using SVCA's bucket truck.
- Scheduling annual Clean Green events where chip-able material is brought by homeowners to maintenance staff for chipping/disposal.
- Regularly chipping roadside branches directly into a truck instead of side casting.
- Road cleaning with sweeper trucks that collect the debris instead of side casting material onto the shoulders and into ditches (completed twice per year).



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In 2023 the budgeted CVC funds for 2022 and 2023 were combined to focus on locating and cleaning all of SVCA's culverts. In addition, as the culverts were located, positive drainage was provided at each location so water could enter and exit the culverts as originally designed. Before the completion of this project SVCA had 254 known culverts. After 2023's project, SVCA had mapped 353 culverts, adding 99 culverts to SVCA's total.

In 2023, a contract was awarded to Impact Design to develop an updated Road and Drainage Plan. The new 10 Year plan identified the culverts that need to be replaced and provides a schedule for replacing them. For example, 2024's Road budget proposes to replace 52 culverts. In addition, the new 10 Year plan also identified the importance of continuing maintenance ditches and culverts. The plan specifically calls for the use of CVC funds each year to complete ditching, and to keep culverts clear. In addition, it recommended that any unused funds from prior years should be allocated to the following year's CVC allowance.

## **Analysis**

SVCA has over 40 miles of roads with ditches typically on at least one side of the roadway, with many having ditches on both sides of the road. Last year, ditches where drainage issues had been identified were cleaned and restored. SVCA is continuing to prioritize locations for ditch improvements based on drainage issues. Areas where water is not flowing as intended will be prioritized for restoration with the funds available. This is a moving target, as each rain event typically identifies more locations where ditching is needed, and the maintenance department is maintaining a priority list as issues come to light. Rain events are also leading to the location of additional culverts being located. Any new culverts discovered will be cleaned and mapped as part of this year's proposed project. In 2024 we have already identified 3 new culverts and 2 catch basins that were previously unmapped.

This project is proposed to be a combined effort between SVCA's Maintenance Department, and outside contractors. When a scope of work is identified that is beyond Maintenance's ability, an approved vendor from the 2024 On-Call Contractor List will be engaged. Typically, a vendor will be used where heavy equipment not owned by SVCA is needed, which requires specialized experience, or when the scope of the work is beyond what can be handled by staff. A few examples of when an outside contractor will be utilized:

- Clearing a long culvert that is beyond the capabilities of SVCA's vac-trailer.
- Cleaning large stretches of ditches where larger equipment and full-size dump trucks would significantly reduce the cost per foot of ditching.
- Offsite disposal of materials generated during cleaning operations.

SVCA's maintenance department will undertake the cleaning of smaller culverts and structures that are suited to SVCA's vac-trailer, as well as complete isolated drainage improvements not suited for high volume production. In addition, SVCA's maintenance department will perform large scale pruning where appropriate to help drainage. Selective large-scale pruning is considered pruning that is required no more frequently than every 3-5 years, as defined by



# Sudden Valley Community Association

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Larson Gross’s memo from December 29<sup>th</sup>, 2015. SVCA’s anticipated costs for this work are detailed below.

- \$1,000 Water for jetting culverts – hydrant meter from LWWSD
- \$3,000 Fuel and Equipment Maintenance
- \$29,800.00 Supervisor – 500 hours at \$59.60/hr.
- \$32,000.00 Maintenance staff – 1,000 hours at \$32.00/hr.
- \$65,800.00 Total Estimate SVCA Maintenance Department

The Supervisory budget above is substantial for the following reasons:

- Receives and reviews all drainage related requests that are reported. In 2023 the Maintenance department received 135 service requests that were related to drainage.
- Determines if the needed improvement can be completed by SVCA staff or requires outsourcing.
- Plans projects that will be performed by SVCA staff.
- Coordinates and oversees outside contractors.

### Proposal

Authorize \$125,320.00 for 2024’s CVC project as identified in the Roads budget. The Maintenance & Facilities Manager will be responsible for project oversight and management of the funds. Funding breakdown is proposed to be:

- \$65,800.00 toward SVCA’s Maintenance Department
- \$59,520.00 for outside contractors utilizing the 2024 On-Call Contractor list.
- \$125,320.00 total project funds.

### Motion

Move that the Board of Directors approve the allocation of \$125,320.00 from Roads for the 2024 Ditches, Culverts, and Swales (CVC) project with funds to be administered by the Maintenance & Facilities Manager.

### Board of Directors Approval:

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President





# Sudden Valley Community Association

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## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Jo Anne Jensen, General Manager  
**Date:** February 22, 2024  
**Subject:** Capital Request – 2024 On-Call Engineering Services

---

### **Purpose**

To request funding approval for On-Call Engineering Services from the 2024 Capital Road Budget.

### **Background**

The request will provide funding for On-Call Engineering Services to address emergency issues related to roadway and drainage infrastructure.

### **Analysis**

The requested funds will allow SVCA to respond quickly to unanticipated damage or issues that arise outside of planned capital improvements. Services provided from these funds may include but are not limited to technical evaluations, preliminary engineering, and permitting support for unplanned projects. Based on the age of SVCA's infrastructure, we expect that emergency issues will occur.

### **Proposal**

Authorize \$41,600 as identified in SVCA's 2024 Capital Budget for Roads for On-Call Engineering Services in 2024. Funds will be administered by the Maintenance & Facilities Manager.

### **Motion**

Move that the Board of Directors approve the allocation of \$41,600 from SVCA's 2024 Capital Budget for Roads for On-Call Engineering Services in 2024 with funds to be administered by the Maintenance & Facilities Manager.



# Sudden Valley Community Association

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## Motion 1 Approvals

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President



# Sudden Valley Community Association

360-734-6430

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## CAPITAL REQUEST MEMO

**To: Sudden Valley Community Association Board of Directors**  
**From: Jo Anne Jensen, General Manager**  
**Date: February 22, 2024**  
**Subject: Capital Request – 2024 Potholes & Minor Road Repairs**

---

### **Purpose**

To request funding approval for pothole and minor road repairs in 2024.

### **Background**

The Sudden Valley Community Association (SVCA)'s 2024 Roads budget includes a line item totaling \$36,400 for Pothole Repairs. The intended work to be covered by this line item includes minor road repairs in addition to pothole restoration.

### **Analysis**

As potholes are identified, SVCA's Maintenance Department will fill them temporarily with asphalt cold patch until a few potholes are identified. Once this occurs, permanent asphalt repairs are completed. This includes removal of the failed asphalt, subgrade preparation as needed, placement of new asphalt, and sealing the edges.

In addition, SVCA's Maintenance Department will also perform minor road repairs as part of this scope. Minor road repairs will be projects that don't require contractor expertise, specialized equipment, permitting, or are large scale projects. Minor road repairs will include activities such as:

- Repairing a washed-out shoulder. This could include aggregate placement to stabilize or repairing ruts off the edge of asphalt.
- Painting of stop bars at intersections.
- Painting of parking lots.
- Replacement of broken street signs/posts.
- Stabilizing a ditch with drainage issues.
- Installation of an asphalt berm for directing water flow.
- Etc.





# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

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The proposed 2024 budget for these repairs is:

- \$3,000.00 Asphalt materials – cold mix, hot mix, and tar.
- \$1,000.00 Disposal of asphalt and aggregates.
- \$4,180.00 Materials allowance – aggregates, erosion control materials, storm drainage, signs/signposts, etc.
- \$3,500.00 Fuel and equipment.
- \$11,920.00 Supervisor (200 hours at \$59.60/hr).
- \$12,800.00 Maintenance staff (400 hours at \$32.00/hr).
- \$36,400.00 Total estimate.

## Proposal

Authorize \$36,400.00 from Roads for SVCA’s Maintenance Department to complete pothole and minor road repairs in 2024.

## Motion

Move that the Board of Directors approve the allocation of \$36,400.00 from the 2024 Capital Budget for Roads for potholes and minor road repairs in 2024.

## Approvals

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Jo Anne Jensen, General Manager  
**Date:** February 22, 2024  
**Subject:** Capital Request – Clubhouse HVAC 20 Ton

---

### **Purpose**

To request funding for the replacement of the HVAC 20 Ton unit located in the Clubhouse.

### **Background**

SVCA's 2024 budget includes \$83,200.00 for replacing this unit. Per PNW's summary dated February 3, 2024, the unit has been evaluated to be at the end of its lifecycle.

### **Analysis**

Funding is requested in the amount of \$22,176 for design and permitting per PNW's summary. Access for installation of a new unit is a major factor in this project and could possibly require the temporary removal of doors and/or walls to bring in new equipment. In addition, an economizer, see description attached, must be added to meet current code requirements. These two requirements create the majority of the work that is needed to design a replacement the current system system.

We propose to replace this unit in kind, since altering the overall HVAC system in the clubhouse would require bringing the existing building up to current energy code. A thorough evaluation of this hasn't been completed, but is estimated that it would be a very large project considering the Clubhouse was built in the early 1970's. An energy code upgrade would likely include other items such as building insulation, window replacement, other HVAC components, etc.

After the design is complete, and permits submitted, an engineer's estimate will be prepared. The project will then be brought back to the Board for funding approval. Following approval, the project would be issued for bid, and then brought back to the Board of Directors for contract award.

### **Proposal**

Authorize \$22,176.00 from CRRRF per PNW's summary dated February 3<sup>rd</sup>, 2024, for design and permitting for the Clubhouse HVAC 20 Ton unit replacement project.



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

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## Motion

Move that the SVCA Board of Directors approve the allocation of \$22,176.00 from CRRRF for design and permitting per PNW's summary dated February 3, 2024, for the Clubhouse HVAC 20 Ton unit replacement project.

## Approvals

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President





February 3, 2024

Sudden Valley Community Association  
Attn: Michael Brock  
4 Clubhouse Circle  
Bellingham, WA 98229

RE: Project Scope Letter  
**Clubhouse HVAC 20 TON**

PNW is providing this overall project scope letter to SVCA for the proposed Clubhouse HVAC 20 TON replacement project. This specific unit is located on the first floor of the Clubhouse in Room 100, Mechanical Room (reference the attached drawing for this room location). SVCA's 2024 budget includes \$83,200.00 for replacing this unit. The unit has been identified to be at the end of its life cycle. This has been confirmed by Barron Heating, who is SVCA's current maintenance service provider, and Berona Engineers. Berona Engineers has assisted SVCA with HVAC design at Barn 8, and the Area Z Maintenance Shop.

There are 2 HVAC units located in this mechanical room along with numerous other items. The lower 20-ton unit was previously replaced. The upper 20-ton unit is now proposed. An in-kind replacement is proposed, and due to code changes an economizer will have to be added as noted in Berona's proposal. An in-kind replacement is generally a simple task. However, in this case it is not. With the addition of an economizer being required, and where the unit is located, it presents many challenges. The majority of the HVAC design time will be figuring out how to add the economizer within the space, and get a new unit into the room. Removal of the existing unit is relatively simple as it can be cut into pieces. To access this room a new unit will need to fit through a 3' door next to room 107. This would be relatively simple to remove temporarily if needed. However, navigating through room 102 is narrow at 3'10" opening width between a wall and electrical switchgear. To then enter room 100 requires navigating through a 3' door that is in a CMU (concrete masonry unit) wall. This is likely a structural wall that will be challenging to create a temporary larger opening in. The new unit will need to be broken down preferably into pieces less than 3' to fit, and then be reassembled in the room. Attached for reference are a few pictures of the existing unit, and access restrictions.

Depending on how the new HVAC unit is designed, this project might require a remodel permit in addition to the HVAC permit. An allowance has been included for Sarah Brown Architecture + Design to provide additional drawings and remodel permitting assistance if needed. This would be if any walls / doors needed to be temporarily removed and then rebuilt after the new unit is installed. The intent is to not do anything that requires structural modifications. Funding for a structural engineer isn't included at this time in this proposal.

At this time, we are seeking funding approval to proceed with design and permitting. After design is complete, an engineer's estimate will be prepared and submitted to the Board for funding approval. Once funded, the project will be issued for bid, and then brought back to the Board for contract award.



Summary of anticipated costs:

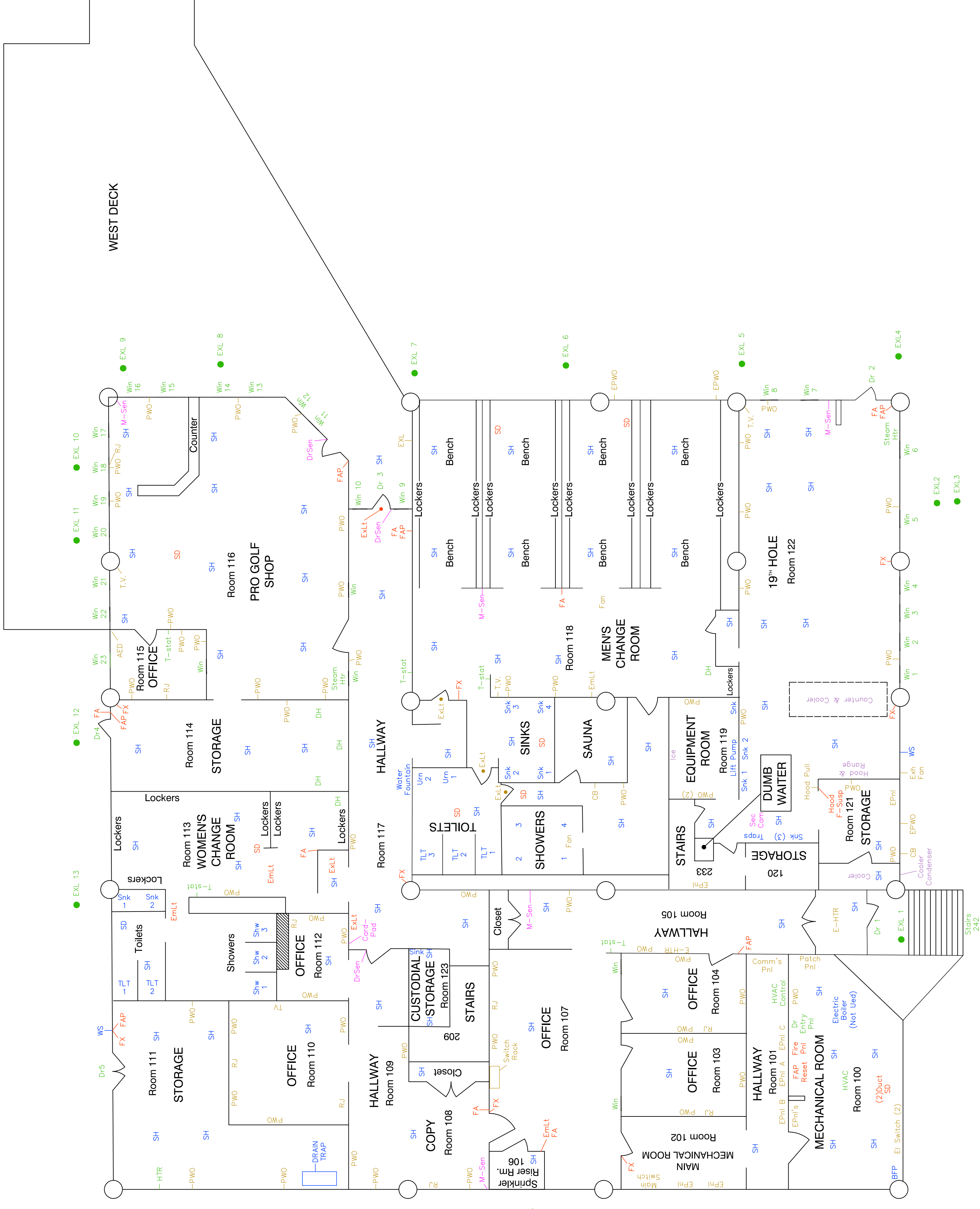
|  |                    |
|--|--------------------|
| <b>Design &amp; Permitting Scope</b>   |                    |
| - Berona Engineers, Inc. – HVAC design and permit application.                         | \$10,000.00        |
| - Sarah Brown Architecture + Design – Remodel design and permitting support as needed. | \$6,000.00         |
| - PNW Services, Inc. – Per Attached  | \$2,160.00         |
| - Permit Fees Allowance  | \$2,000.00         |
| <b>Total Design &amp; Permitting</b>   | <b>\$20,160.00</b> |
| Contingency at 10%   | \$2,016.00         |
| <b>Total with Contingency</b>  | <b>\$22,176.00</b> |
|  |                    |
| <b>Contractor Bids &amp; Construction</b>  |                    |
| - Under Separate Proposal  |                    |

Please let me know if you have any questions, or if you would like any further information.

Sincerely,

Tyler Andrews  
President

# SUDDEN VALLEY COMMUNITY ASSOCIATION CLUBHOUSE – FIRST FLOOR



**KEY:**  
**LIFE SAFETY:**  
 FX = FIRE EXTINGUISHER  
 SD = SMOKE DETECTOR  
 FA = FIRE ALARM  
 FAP = FIRE ALARM PULL  
 FAP Reset = FIRE ALARM PULL RESET  
 EmLt = EMERGENCY EXIT LIGHT  
 Fire Pnl = FIRE ALARM PANEL  
 Hood F-Susp = HOOD FIRE SUPPRESSION

**PLUMBING:**  
 WS = WATER SPIGOT  
 Wshtr = DISH WASHER  
 WHTR = WATER HEATER  
 SH = SPRINKLER HEAD  
 Shw = SHOWER  
 Snk = SINK  
 TLT = TOILET  
 Urn = URINAL  
 WATER FOUNTAIN  
 TRAPS

**MECHANICAL/BUILDING:**  
 T-stat = THERMOSTAT  
 WIN = WINDOW  
 Dr = DOOR  
 Dr Entry Pnl = DOOR ALARM ENTRY PANEL  
 HVAC = HEATING VENTILATION AND AIR CONDITIONING  
 HVAC Control = HEATING VENTILATION & AIR CONDITION CONTROL  
 Steam Htr = STEAM HEATER  
 EXL # = EXTERIOR LIGHTS  
 DS = DOWN SPOUT

**ELECTRICAL:**  
 PWO = POWER OUTLET  
 EPWO = EXTERIOR POWER OUTLET  
 EPnl = ELECTRICAL PANEL  
 T.V. = TELEVISION MONITOR  
 CB = CIRCUIT BREAKER  
 EPnl = ELECTRICAL PANEL  
 E-HTR = ELECTRIC HEATER  
 Exh Fan = EXHAUST FAN  
 Fan  
 RJ = RJ45, ETHERNET  
 MAIN SWITCH

**SECURITY:**  
 DrSen = DOOR SENSOR  
 MSen = MOTION SENSOR  
 Sec Cam = SECURITY CAMERA  
 CARD-PAD

**EQUIPMENT:**  
 COOLER  
 HOOD AND RANGE  
 COUNTER AND COOLER



Room 102 - 3'10" Opening Width Assumes all Files Removed



Room 100 Access Door - 3' Opening



Existing Unit (Yellow) - Left Side





Existing Unit (Yellow) - Right Side





## PROFESSIONAL SERVICES AGREEMENT

Jan 30, 2024

**CLIENT:** Tyler Andrews  
PNW Services  
PO Box 30498  
Bellingham, WA 98228  
(425)954-9614

**PROJECT:** Sudden Valley Recreation Center- Clubhouse HVAC  
Bellingham, WA

**SUBJECT:** MECHANICAL ENGINEERING SERVICES FEE PROPOSAL – Revised

**Berona Engineers, Inc. (BEI)** is pleased to submit this proposal to provide Mechanical (HVAC) design services for this project. This proposal is a statement of intent by **PNW Services** (Client), to engage Berona Engineers, Inc. to perform the following mentioned services for this project.

The project consists of replacing the existing (upper) airhandler and associated 20-ton air-cooled condensing unit for the Clubhouse. The existing unit is at its life expectancy and needs to be replaced. There is one newer (lower) 20-ton airhandler located on the bottom that is to remain. The basic scope of new work will include a site visit to examine existing conditions, new equipment selection, and modification of ductwork design in the mechanical room for connection of new airhandler. We will look at a like-for-like replacement as well as a more efficient Variable Refrigerant Flow (VRF) type of system for best space compatibility. As the current system does not have an economizer, adding an economizer will be required per code and is therefore included in this scope. Design will conform to the 2018 WA State Energy Code.

Addition of a Dedicated Outside Air System (DOAS) in lieu of an economizer is not included in this scope and will be additional services.

Our basic scope will be to design through the Permit stages. We will respond to Permit questions, comments and make the necessary revisions to the documents. Then submit to the Client the final permit set for their use and at this submittal will indicate the completion and fulfillment of this agreement. The Client shall take full responsibility and full liability for any changes made to these permit documents, where BEI is not involved in and/or has not been authorized by BEI. These set of documents are for the sole purpose of this project and this project site, and shall not be used for any other site without BEI authorization. Changes developed by the contractor and changes to our design, if any, will become the Contractor's responsibility for those changes.

Construction administration will be additional and invoiced on an hourly basis, plus expenses.

**8021 State Ave, Marysville, WA 98270**  
**ph: (425)744-6033**  
**website: [www.beronaengineers.com](http://www.beronaengineers.com)**

Changes developed by the contractor and changes to our design, if any, will become the Contractor's responsibility for those changes.

**Fees and Billings:**

Our fee to perform this work will be a lump sum of **\$10,000.00**.

Billings will be monthly based on our percent of completion of submittals.

Reimbursable expenses, if any, will be additional to our basic fee plus 15% and shall not exceed \$300. Payments for each invoice must be received within 30 calendar days of invoice date. A 1.5% finance charge or \$150, whichever is more will be assessed monthly on any balance remaining over 60 days after invoice date.

**Additional Services:**

Additional services will be any scope of work not listed above, scope changes by the Client. Additional services will be negotiated separately and either added to the basic agreement or performed under a separate agreement and will not proceed without written authorization.

**BEI Hourly rates are as follows:**

Principal: \$200/hr, Senior Engineer: \$ 180.00/hr, Project Engineer/Sr. Designer: \$ 160.00/hr  
Designer/Revit: \$ 140.00/hr, CAD Operator: \$ 120.00/hr, Administration: \$ 85.00/hr.

Work not included:

1. Building Envelope and Energy Modeling
2. Plumbing design
3. Stairwell Pressurization
4. Fire and Life Safety Analysis Narrative
5. Fire sprinkler Design
6. Electrical Design
7. Seismic and structural design as it relates to mechanical & plumbing
8. Acoustic engineering
9. Testing, adjusting and balancing, including building pressure testing
10. Redesign based on value engineering
11. All fees, permits and inspections.

**Client to Provide and Responsible for:**

1. Take out all Permits and order site inspections
2. Architectural backgrounds in pdf, CAD and/or Revit formats.
3. Site Utilities
4. Equipment cut sheets for all owner or by others specified equipment.
5. Copying of our documents.
6. Distribution of our copied and original documents for each submittal.

**TERMINATION OF SERVICES**

The failure to make payment to BEI in accordance with the payment terms herein shall constitute a material breach of this Agreement and shall be cause for termination by Berona Engineers, Inc.



Either the Client or BEI may terminate this AGREEMENT without penalty at any time with or without cause upon giving the other party 30 calendar days prior written notice. Client shall within (15) fifteen calendar days of termination pay BEI for all services rendered and all costs incurred up to the date of termination, in accordance with the compensation provisions of this AGREEMENT. CLIENT shall also reimburse BEI termination expenses, including but not limited to, those associated with, reassignment of personnel, and space and equipment cost.

Our scope only covers reviewing documents to be submitted to the Jurisdiction Having Authority (JHA) for review and comment, of which we will respond and revise our documents accordingly. These documents will be used for the basis of the JHA to issue a construction permit for the Client. Our understanding is that your firm will be the builder and that you will have the last say on selected products for us to design around and that we will confirm selections through load calculations. Also, the Client will be responsible for the full means and methods for the construction of the work that we will provide design review for under this agreement.

**INDEMNIFICATION**

The Client shall indemnify and hold harmless Berona Engineers, Inc. and all of its personnel, agents, sub consultants from and against any and all claims, damages, losses and expenses (including reasonable attorney's fees) arising out of, or resulting from, the performances of these services, provided that any such claim, damage, loss or expenses is caused by the sole negligent act, errors, or omissions and/or strict liability of the Client, including, but not limited to anyone directly or indirectly employed by the Client or anyone or entity (other than BEI), associated with the Client whose acts may be liable.

**APPLICABLE LAW:** This agreement shall be governed by the laws of the State of Washington.

**This proposal is good to the end of the day, Feb 29, 2024.**

If this proposal is acceptable, please sign below and return a copy for our records. We look forward to working with you on this project. If you have any questions or require more information, please call.

Sincerely,

*Berona Engineers, Inc.*



Rob Russell, PE  
Principal

**ACCEPTABLE TO PNW Services:**

**By:** \_\_\_\_\_ **Date:** \_\_\_\_\_



January 9, 2024

Tyler Andrews  
PNW Services Inc.  
PO Box 30498  
Bellingham, WA 98228

Dear Tyler,

Thank you for allowing me the opportunity to propose on architectural services for the Mechanical Replacement located at the Sudden Valley Recreation Center-Clubhouse. The following provides a summary description of the project I have discussed with the Mechanical Engineer and describes the Agreement for Services between Tyler Andrews (Client), and Sarah Brown Architecture + Design, Architect (Consultant). By signing this Agreement for Services, Client accepts the scope, fees and timing as set forth herein, including the attached "CONSULTANT CONTRACT PROVISIONS" which is fully incorporated into this Agreement for Services.

#### **PROJECT SUMMARY DESCRIPTION**

The primary work will be to provide support drawings to the Mechanical Engineer and permit documents to Whatcom County Planning & Development for the replacement of mechanical units.

#### **SCOPE OF SERVICES TO BE PROVIDED**

The scope of work provided by Consultant will include:

- Preparation of Contract Documents consisting of Architectural Construction Drawings for the remodel and improvement in the subject projects.
- Assist the client with the submission to the Whatcom County for the project's building permit and respond to planning review comments. All other construction permit submissions are the responsibility of the project Contractors.

#### **PERMIT/CONSTRUCTION DOCUMENTS**

- Project Information & Code Requirements
- Site Plan
- Exiting/Demo Plan
- Floor Plan
- Reflected Ceiling Plan

#### **SERVICES NOT PROVIDED**

- The Consultant is not providing nor is the Consultant responsible for the following services:
- Structural, Electrical, Mechanical, Acoustical or Civil Engineering Design or their drawings for this Project.
- Fire suppression, Fire Alarm or Security System Design or their drawings for this Project.



- Construction budgets, cost estimates, or construction inspections, energy analysis or energy code compliance.
- Detailed Construction specifications.
- Energy Code calculations and submittal documentations.
- Fixtures or other equipment that have no permanent connection to the structure of the building.
- Interior Design or their drawings for this Project for selection of movable furniture, paint colors, finish materials selection including flooring.

**PROJECT FEES**

Fees for services provided will be billed on an hourly basis at the rate of \$195.00 per hour, plus reimbursable expense. Reimbursable expenses will be billed to the client at cost. Reimbursable expenses include but are not limited to computer downloads, photo charges, shipping, document printing and copying.

The estimated total fee for services under this agreement, based on digital files being provided by the Client, is \$5,800 but may vary depending on unforeseen issues (such as city questions or construction consulting) and the actual time required by the Consultant to complete this project.

Fees shall be invoiced monthly and will be paid by the Client within 30 days of receipt.

All additional costs associated with this project beyond the services described in this agreement, including but not limited to permit fees, application fees, contractor fees, etc. are the responsibility of Client, not the Consultant.

All limitations of liability, indemnifications, warranties and representations contained in this Agreement for Services shall survive the completion of this Agreement and shall remain in full force and effect.

Please indicate acceptance of this Agreement for Services where indicated below and return a signed copy to me.

Sincerely,

A handwritten signature in black ink that reads 'Sarah Brown' in a cursive style.

Sarah Brown

ACCEPTED:

By: \_\_\_\_\_

Date: \_\_\_\_\_





## CONSULTANT CONTRACT PROVISIONS

1. **CONTRACT** – These Contract Provisions and the accompanying Proposal constitute the full and complete Agreement between the parties and may be changed, amended, added to, superseded, or waived only if both parties specifically agree in writing to such amendment of the Agreement. In the event of any inconsistency between these Contract Provisions and any proposal, contract, purchase order, requisition, notice to proceed, or like document, these Contract Provisions shall govern.

2. **RIGHT OF ENTRY** – When entry to property is required for the CONSULTANT to perform its services, the Client agrees to obtain legal right-of-entry on the property.

3. **DOCUMENTS** – All reports, notes, drawings, specifications, data, calculations, and other documents, including those in electronic form, prepared by CONSULTANT are instruments of CONSULTANT's service that shall remain CONSULTANT's property. The Client agrees not to use CONSULTANT-generated documents for marketing purposes, for projects other than the project for which the documents were prepared by CONSULTANT, or for future modifications to this project, without CONSULTANT's express written permission.

Any reuse or distribution to third parties without such express written permission or project-specific adaptation by CONSULTANT will be at the Client's sole risk and without liability to CONSULTANT or its employees, subsidiaries, independent professional associates, subconsultants, and subcontractors. Client shall, to the fullest extent permitted by law, defend, indemnify, and hold harmless CONSULTANT from and against any and all costs, expenses, fees, losses, claims, demands, liabilities, suits, actions, and damages whatsoever arising out of or resulting from such unauthorized reuse or distribution.

4. **DISPOSAL OF SAMPLES** – CONSULTANT will discard samples upon completion of the work covered under this Agreement, unless the Client instructs otherwise in writing.

5. **HAZARDOUS MATERIALS** – The scope of CONSULTANT's services for this Agreement does not include any responsibility for detection, remediation, accidental release, or services relating to waste, oil, asbestos, lead, or other hazardous materials, as defined by Federal, State, and local laws or regulations.

6. **CONSTRUCTION PHASE SERVICES** – If CONSULTANT performs any services during the construction phase of the project, CONSULTANT shall not supervise, direct, or have control over Contractor's work. CONSULTANT shall not have authority over or responsibility for the construction means, methods, techniques, sequences, or procedures for safety precautions and programs in connection with the work of the Contractor. CONSULTANT does not guarantee the performance of the construction contract by the Contractor and does not assume responsibility for the Contractor's failure to furnish and perform its work in accordance with the Contract Documents.

7. **STANDARD OF CARE** – CONSULTANT and its employees, subsidiaries, independent professional associates, subconsultants, and subcontractors will exercise that degree of care and skill ordinarily practiced under similar circumstances by design professionals providing similar services. Client agrees that services provided will be rendered without any warranty, express or implied.

CONSULTANT shall exercise usual and customary professional care in its efforts to comply with applicable codes, regulations, laws rules, ordinances, and such other requirements in effect as of the date of execution of this Agreement.



8. OPINION OF PROBABLE COSTS – When required as part of its work, CONSULTANT will furnish opinions of probable cost, but does not guarantee the accuracy of such estimates. Opinions of probable cost, financial evaluations, feasibility studies, economic analyses of alternate solutions, and utilitarian considerations of operations and maintenance costs prepared by CONSULTANT hereunder will be made on the basis of CONSULTANT's experience and qualifications and will represent CONSULTANT's judgment as an experienced and qualified design professional. However, users of the probable cost opinions must recognize that CONSULTANT does not have control over the cost of labor, material, equipment, or services furnished by others or over market conditions or contractors' methods of determining prices or performing the work.

9. SUSPENSION OF WORK – The Client may, at any time, by written notice, suspend further work by CONSULTANT. The Client shall remain liable for, and shall promptly pay CONSULTANT, for all services rendered to the date of suspension of services, plus suspension charges, which shall include the cost of assembling documents, personnel and equipment, rescheduling or reassignment, and commitments made to others on Client's behalf.

Client shall pay CONSULTANT pursuant to the rates and charges set forth in the Proposal. CONSULTANT will submit monthly invoices to Client for services rendered and expenses incurred. If Client does not pay invoices within thirty (30) days of submission of invoice, CONSULTANT may, upon written notice to the Client, suspend further work until payments are brought current. The Client agrees to indemnify and hold CONSULTANT harmless from any claim or liability resulting from such suspension.

Upon receipt of payment for services performed through the date of suspension, the CONSULTANT will provide copies of their draft work product, in electronic form, in the state of completion achieved prior to termination to the client.

10. CHANGES OR DELAYS – Unless the accompanying Proposal provides otherwise, the proposed fees constitute CONSULTANT's estimate to perform the services required to complete the Project. Required services often are not fully definable in the initial planning; accordingly, developments may dictate a change in the scope of services to be performed. Where this occurs, changes in the Agreement shall be negotiated and an equitable adjustment shall be made.

Costs and schedule commitments shall be subject to renegotiation for unreasonable delays caused by the Client's failure to provide specified facilities, direction, or information, or if CONSULTANT's failure to perform is due to any act of God, labor trouble, fire, inclement weather, act of governmental authority, failure of transportation, accident, power failure, or interruption or any other cause beyond the reasonable control of CONSULTANT. Temporary work stoppage caused by any of the above may result in additional cost beyond that outlined in the accompanying Proposal.

11. LIABILITY – To the fullest extent permitted by law, the total liability, in the aggregate, of CONSULTANT and CONSULTANT's officers, directors, employees, agents, and consultants to Client and anyone claiming by, through or under Client, for any and all injuries, claims, losses, expenses, or damages whatsoever arising out of or in any way related to CONSULTANT's services, the Project or this Agreement, from any cause or causes whatsoever, including but not limited to, negligence, strict liability, breach of contract or breach of warranty shall not exceed the total compensation received by CONSULTANT under this Agreement.

12. CONFLICTS OF INTEREST – This assignment may involve parties with adverse interests to clients with whom CONSULTANT has current or past relationships. It is CONSULTANT policy to make reasonable attempts to identify such relationships prior to acceptance of a professional assignment, but CONSULTANT cannot assure that conflicts or perceived conflicts will not arise, and CONSULTANT does not accept responsibility for such occurrences.



13. REIMBURSABLE EXPENSES – CONSULTANT will bill direct nonpayroll expenses at cost plus 10%. Direct expenses include all reasonable expenses resulting from required responses to subpoenas or court orders related to work under the Contract.

14. MISCELLANEOUS - Governing Law: The laws of the state in which the CONSULTANT office executing this Agreement is located shall govern the validity and interpretation of this Agreement.

Invalid Terms: In the event any of these Contract Provisions are found to be illegal or otherwise unenforceable, the unenforceable Contract Provision will be stricken. Striking such a Contract Provision shall have no effect on the enforceability of the remaining Contract Provisions and those remaining Contract Provisions shall continue in full force and effect as if the unenforceable Contract Provision were never included in the Agreement.

Mediation: The Client and CONSULTANT agree to submit all claims and disputes arising out of this Agreement to non-binding mediation prior to the initiation of legal proceedings. This provision shall survive completion or termination of this Agreement; however, neither party shall seek mediation of any claim or dispute arising out of this Agreement beyond the period of time that would bar the initiation of legal proceedings to litigate such claim or dispute under the applicable law.

CONSULTANT Reliance: CONSULTANT shall be entitled to rely, without liability, on the accuracy and completeness of any and all information provided by Client, Client's consultants and contractors, and information from public records, without the need for independent verification.

Certifications: CONSULTANT shall not be required to sign any documents, no matter by whom requested, that would result in CONSULTANT's having to certify, guaranty, or warrant the existence of conditions that CONSULTANT cannot ascertain.

Third Parties: Nothing contained in this Agreement shall create a contractual relationship with, or a cause of action in favor of, a third party against either the Client or CONSULTANT. CONSULTANT's services hereunder are being performed solely for the benefit of the Client, and no other entity shall have any claim against CONSULTANT because of this Agreement or CONSULTANT's performance of services hereunder.

Consequential Damages: Neither the Client nor the CONSULTANT shall be liable to the other or shall make any claim for any incidental, indirect or consequential damages arising out of, or connected in any way to the Project or this Agreement. This mutual waiver includes, but is not limited to, damages related to loss of use, loss of profits, loss of income, loss of reputation, unrealized savings or diminution of property value and shall apply to any cause of action including negligence, strict liability, breach of contract and breach of warranty.



Sudden Valley Community Association

**Clubhouse HVAC 20 Ton**

PNW Estimate - Bid Package, Permitting, and Construction Management

| Task                    | Description  | Hours | Estimated Cost     |
|-------------------------|--|-------|--------------------|
| Design Oversight        | Oversight of Berona Engineers and Sarah Brown Architecture & Design, review drawings, and site visits as required. | 12    |                    |
|                         | <b>Total Estimated Design Oversight Hours</b>  | 12    | <b>\$ 1,620.00</b> |
|                         |  |       |                    |
| Permitting              | Oversight of permit applications, facilitate signatures / submittals / permit fees.                                | 4     |                    |
|                         | <b>Total Estimated Permitting Cost</b>   | 4     | <b>\$ 540.00</b>   |
|                         |  |       |                    |
| Contractor Bids         | Under separate proposal.   | 0     |                    |
|                         |  |       |                    |
|                         | <b>Total Estimated Bid Package Hours</b>   | 0     | <b>\$ -</b>        |
| Construction Management | Under separate proposal.   | 0     |                    |
|                         |  |       |                    |
|                         | <b>Total Estimated Construction Management Hours</b>   | 0     | <b>\$ -</b>        |
|                         | <b>Total Estimated</b>   |       | <b>\$ 2,160.00</b> |

## Mike Brock

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**From:** robr@beronaengineers.com  
**Sent:** Monday, February 5, 2024 1:52 PM  
**To:** 'Tyler Andrews'  
**Cc:** Mike Brock  
**Subject:** RE: SVCA - Clubhouse HVAC Replacement

Hi Tyler,

An economizer is used in HVAC systems to provide “free cooling” during certain temperatures in order to save energy. When the system is in cooling mode, and the outside temperature ranges from 45-65 degrees, the condensing unit shuts off and the HVAC system uses 100% outside air (or mixture of higher outside air with return air) to provide the required 55 degree air needed to cool the building. This set up requires a duct, sized for 100% of the supply air, to be routed to the outside, along with an exhaust duct, sized for full flow, to relieve the building of the excess air and pressure. There are certain exceptions to using an economizer, typically by using a Dedicated Outside Air System (DOAS) or Energy Recovery Ventilator (ERV), but those require the same things as the economizer and include additional equipment but also do not need to be as big as an economizer.

Hope that helps.

*Thanks.*

***Rob Russell, PE***

*Principal*



(425)744-6033 ext 102

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**From:** Tyler Andrews <tylera@pnwcivil.com>  
**Sent:** Monday, February 5, 2024 12:52 PM  
**To:** robr@beronaengineers.com  
**Cc:** Michael Brock (mike.brock@suddenvalley.com) <mike.brock@suddenvalley.com>  
**Subject:** RE: SVCA - Clubhouse HVAC Replacement

Hi Rob,

Can you please provide a 1-2 sentence description of what an “economizer” is so we can correctly explain this to the Board?

Thanks,

Tyler

Tyler Andrews  
PNW Civil, Inc  
PO Box 30498  
Bellingham, WA 98228  
360-739-2072



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Jo Anne Jensen, General Manager  
**Date:** February 22, 2024  
**Subject:** Core Area: Tennis Court Resurfacing & Fencing  
SVCA Capital Code: 9723.05 – Change Order

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### Purpose

To request funding approval for the Core Area: Tennis Court Resurfacing & Fencing project.

### Background

On February 9, 2023, Sudden Valley Community Association (SVCA)'s Board of Directors approved design and permitting under capital code 9723.05 for improving the existing tennis courts located next to the main pool at Barn 8. Design and permitting was completed, and the project was issued for bid in July of 2023. However, the bids exceeded the budgeted amount and contractors were not available to complete the project in 2023; therefore, SVCA elected to reject the bids and rebid the project in 2024. Per PNW's summary dated February 9, 2024, the project was issued for bid a second time, and Stremler Gravel, Inc. is the lowest bidder with a construction bid of \$283,300.38. PNW's summary includes the initial capital request and bid packages for reference.

### Analysis

SVCA's 2024 budget includes \$191,278.00 for this project. The initial capital request for design and permitting used \$19,101.50 leaving a balance of \$172,176.50 available from the 2024 construction budget. The construction budget of \$295,615.38 per PNW's attached summary means the project will come in over the initial reserve study budget by \$123,438.88. However, with this project now put out for bid a second time, it appears the market price for completing repairs to the tennis courts was unfortunately higher than anticipated. It is doubtful that going to bid for a third time would lead to better results.

After design was completed, it was noted the southeast corner of the tennis court floods during heavy rain events. After investigation, it was determined that water is coming down the east slope adjacent to the tennis courts from pipe drains related to the building structures above. To mitigate this, we are proposing to install an infiltration trench for approximately 150' along the edge of asphalt to capture any excess surface water and prevent it from flooding the tennis courts. In addition, the 2 known pipe drains will be piped down the slope and connected to the infiltration trench. This will properly convey the stormwater from above the tennis courts and will prevent future erosion. This scope of work is anticipated to be added to Stremler Gravel's contract as a change order. This repair will model the infiltration trench that was installed along the north wall of Barn 8 in 2021 that has worked well to prevent annual flooding.





# Sudden Valley Community Association

360-734-6430  
4 Clubhouse Circle Bellingham, WA 98229  
www.suddenvalley.com

For this project to move forward, we are requesting change order funding in the amount of \$302,615.38:

- \$295,615.38 per PNW’s summary dated February 9, 2024 for construction.
- \$7,000.00 allowance to install an infiltration trench to prevent water from flooding the tennis court.

### Proposal

Authorize \$302,615.38 from CRRRF as change order funding for construction to capital code 9723.05. And authorize the General Manager to execute SVCA’s standard construction contract with Stremler Gravel, Inc. for completing the proposed repairs to the tennis court.

### Motion 1

Move that the SVCA Board of Directors approve the allocation of \$302,615.38 from CRRRF as change order funding to capital code 9723.05 for construction of the Core Area: Tennis Court Resurfacing & Fencing project.

### Motion 2

Move that the SVCA Board of Directs approve contract award to Stremler Gravel, Inc. per their proposal dated February 9<sup>h</sup>, 2024, and authorize the General Manager to execute SVCA’s standard construction contract.

### Approvals

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President



February 9, 2024

Sudden Valley Community Association  
Attn: Mike Brock  
4 Clubhouse Circle  
Bellingham, WA 98229

RE: Project Scope Letter  
**Core Area: Tennis Court – Resurfacing & Fencing**  
**Contract Award Recommendation**

PNW is providing this contract award recommendation letter to SVCA for the Core Area: Tennis Court – Resurfacing & Fencing project. This tennis court is located adjacent to the Recreation Center, Barn 8, just past the main pool. On 2-9-23, SVCA's Board approved design and permitting for this project to proceed. Attached for reference is the initial Board approval package. Design and permitting was completed, and the project was issued for bid in 2023 with bid results received 7-20-23. 2 bids were received with the low bidder at \$265,532.43. The 2023 bid results are attached for reference. SVCA's budget for this project is \$189,925.00. With the project being substantially over budget, and construction not able to be completed in 2023 due to tennis court finishing contractor availability, SVCA elected to throw out the bids. The project was reissued for bid on 1-23-24, and the bid package was sent to 8 contractors.

- Stremler Gravel, Inc. – Bid Received
- Tiger Construction LTD. – Bid Received
- Western Refinery Services – No Bid
- Premium Services – No Bid
- NW Asphalt – No Bid
- Dirt Works Bellingham – No Bid
- Strider Construction – No Bid
- Ram Construction – No Bid

Bids were received on 2-9-24, and attached are the bid results including the engineer's estimate. Also attached is the bid package for reference. The 2024 bid package matched the 2023 bid package with the exception of incorporating 2 addendums and updating the dates. A few specific notes regarding the project:

- Construction can't start until 6-1-24 due to permit restrictions.
- The contract set 20 working days, not including cure time, as the contract period.
- Substantial completion was noted at 8-2-24 with final completion of 8-16-24.

The intent with issuing the bid in January was to access more availability with tennis court finishing specialty contractors. The scope of this work is specific to applying the acrylic surface and there is a limited number of contractors who perform this work. With more specialty contractors able to bid this scope, cheaper bids would most likely be provided. In addition, bidding in January with contract award in February should allow the project to proceed as planned in 2024 with contractors still having availability. Based on the bid results, PNW is recommending Stremler Gravel, Inc. be awarded the contract. Overall project costs anticipated:



| <b>Tennis Court Resurfacing Construction Estimate</b>                    |                     |
|--|---------------------|
| - Stremler Gravel per attached estimate dated 2-9-24.                    | \$283,300.38        |
| - Impact Design – Submittal reviews and construction question allowance. | \$3,000.00          |
| - PNW Services, Inc. – Construction oversight per attached.              | \$9,315.00          |
| <b>Total Construction Estimate</b>                                       | <b>\$295,615.38</b> |

Please let me know if you have any questions, or if you would like any further information.

Sincerely,

Tyler Andrews  
President



**February 9, 2024 - Bid Tabulation**

**Project: 2024 Tennis Court Repairs**

| Item # | Description                     | Quantity | Unit | Engineers Estimate |                     | Stremler Gravel, Inc. |                     | Tiger Construction LTD. |                     |
|--------|---------------------------------|----------|------|--------------------|---------------------|-----------------------|---------------------|-------------------------|---------------------|
|        |                                 |          |      | Unit Price         | Total               | Unit Price            | Total               | Unit Price              | Total               |
| 1      | Mobilization                    | 1        | LS   | \$ 15,000.00       | \$ 15,000.00        | \$ 36,100.00          | \$ 36,100.00        | \$ 33,000.00            | \$ 33,000.00        |
| 2      | Access & Restoration            | 1        | LS   | \$ 3,500.00        | \$ 3,500.00         | \$ 20,900.00          | \$ 20,900.00        | \$ 12,000.00            | \$ 12,000.00        |
| 3      | Asphalt Repairs                 | 1490     | SF   | \$ 20.00           | \$ 29,800.00        | \$ 17.25              | \$ 25,702.50        | \$ 22.00                | \$ 32,780.00        |
| 4      | Nets & Post Replacements        | 1        | LS   | \$ 3,500.00        | \$ 3,500.00         | \$ 47,000.00          | \$ 47,000.00        | \$ 57,000.00            | \$ 57,000.00        |
| 5      | 2" Asphalt Overlay              | 1        | LS   | \$ 53,400.00       | \$ 53,400.00        | \$ 45,800.00          | \$ 45,800.00        | \$ 53,000.00            | \$ 53,000.00        |
| 6      | Acrylic Surfacing               | 1        | LS   | \$ 37,800.00       | \$ 37,800.00        | \$ 50,000.00          | \$ 50,000.00        | \$ 51,000.00            | \$ 51,000.00        |
| 7      | Pavement Markings               | 1        | LS   | \$ 5,000.00        | \$ 5,000.00         | \$ 11,200.00          | \$ 11,200.00        | \$ 9,000.00             | \$ 9,000.00         |
| 8      | Dog Park - 4' Fence Replacement | 163      | LF   | \$ 40.00           | \$ 6,520.00         | \$ 74.07              | \$ 12,073.41        | \$ 45.00                | \$ 7,335.00         |
| 9      | Dog Park - 3' Man Gate          | 1        | EA   | \$ 500.00          | \$ 500.00           | \$ 590.00             | \$ 590.00           | \$ 430.00               | \$ 430.00           |
| 10     | Dog Park - 8' Equipment Gate    | 1        | EA   | \$ 750.00          | \$ 750.00           | \$ 1,500.00           | \$ 1,500.00         | \$ 1,100.00             | \$ 1,100.00         |
| 11     | Minor Changes                   | 1        | EST. | \$ 10,000.00       | \$ 10,000.00        | \$ 10,000.00          | \$ 10,000.00        | \$ 10,000.00            | \$ 10,000.00        |
|        | <b>Subtotal</b>                 |          |      |                    | <b>\$165,770.00</b> |                       | <b>\$260,865.91</b> |                         | <b>\$266,645.00</b> |
|        | <b>WSST @ 8.6%</b>              |          |      |                    | <b>\$ 14,256.22</b> |                       | <b>\$ 22,434.47</b> |                         | <b>\$ 22,931.47</b> |
|        | <b>Total w/ WSST</b>            |          |      |                    | <b>\$180,026.22</b> |                       | <b>\$283,300.38</b> |                         | <b>\$289,576.47</b> |

## SVCA Tennis Court Repairs

### Engineer's Estimate

February 8, 2024



Estimate Prepared by:  
**Impact Design, LLC**  
 5426 Barrett Road, Suite A103  
 Ferndale, WA 98248  
 Phone: (360) 389-8138

Client:  
**Tyler Andrews**  
**PNW Services, Inc.**  
 PO Box 30498  
 Bellingham, WA 98228

|                                |                                 | ESTIMATED CONSTRUCTION COST |      |             |                     |
|--------------------------------|---------------------------------|-----------------------------|------|-------------|---------------------|
| NO.                            | ITEM                            | QUANTITY                    | UNIT | UNIT COST   | TOTAL               |
| <b>Construction Costs</b>      |                                 |                             |      |             |                     |
| 1                              | MOBILIZATION                    | 1                           | L.S. | \$15,000.00 | \$15,000.00         |
| 2                              | ACCESS & RESTORATION            | 1                           | L.S. | \$3,500.00  | \$3,500.00          |
| 3                              | ASPHALT REPAIRS                 | 1490                        | SF   | \$20.00     | \$29,800.00         |
| 4                              | NETS & POST REPLACEMENTS        | 1                           | L.S. | \$3,500.00  | \$3,500.00          |
| 5                              | 2" ASPHALT OVERLAY              | 267                         | TONS | \$200.00    | \$53,400.00         |
| 6                              | ACRYLIC SURFACING               | 21600                       | SF   | \$1.75      | \$37,800.00         |
| 7                              | PAVEMENT MARKINGS               | 1                           | LS   | \$5,000.00  | \$5,000.00          |
| 8                              | DOG PARK - 4' FENCE REPLACEMENT | 163                         | LF   | \$40.00     | \$6,520.00          |
| 9                              | DOG PARK - 3' MAN GATE          | 1                           | EA   | \$500.00    | \$500.00            |
| 10                             | DOG PARK - 8' EQUIPMENT GATE    | 1                           | EA   | \$750.00    | \$750.00            |
| 11                             | MINOR CHANGES                   | 1                           | EST. | \$10,000.00 | \$10,000.00         |
| <i>Subtotal</i>                |                                 |                             |      |             | <i>\$165,770.00</i> |
| <i>Tax @ 8.6%</i>              |                                 |                             |      |             | <i>\$14,256.22</i>  |
| <b>TOTAL CONSTRUCTION COST</b> |                                 |                             |      |             | <b>\$180,026.22</b> |
| <b>10% CONTINGENCY</b>         |                                 |                             |      |             | <b>\$16,577.00</b>  |
| <b>PROJECT TOTAL</b>           |                                 |                             |      |             | <b>\$196,603.22</b> |



**2-8-2024**



January 23, 2024

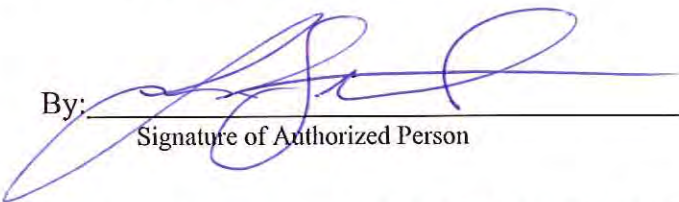
Attn: Bidders

RE: Sudden Valley Community Association (SVCA)  
Bid Form – 2024 Tennis Court Repairs

Bid submissions are due by 11:00am on Friday, 2-9-24. Email bid submissions to [tylera@pnwcivil.com](mailto:tylera@pnwcivil.com).

Firm Name: Stremler Gravel, Inc.

| Bid Schedule – 2023 Tennis Court Repairs |                                 |          |      |             |              |
|--|---------------------------------|----------|------|-------------|--------------|
| Item #                                   | Description                     | Quantity | Unit | Unit Price  | Total        |
| 1.                                       | Mobilization                    | 1        | LS   | \$36,100.00 | \$36,100.00  |
| 2.                                       | Access & Restoration            | 1        | LS   | \$20,900.00 | \$20,900.00  |
| 3.                                       | Asphalt Repairs                 | 1,490    | SF   | \$ 17.25    | \$25,702.50  |
| 4.                                       | Nets & Post Replacements        | 1        | LS   | \$47,000.00 | \$47,000.00  |
| 5.                                       | 2" Asphalt Overlay              | 1        | LS   | \$45,800.00 | \$45,800.00  |
| 6.                                       | Acrylic Surfacing               | 1        | LS   | \$50,000.00 | \$50,000.00  |
| 7.                                       | Pavement Markings               | 1        | LS   | \$11,200.00 | \$11,200.00  |
| 8.                                       | Dog Park – 4' Fence Replacement | 163      | LF   | \$ 74.07    | \$12,073.41  |
| 9.                                       | Dog Park – 3' Man Gate          | 1        | EA   | \$ 590.00   | \$ 590.00    |
| 10.                                      | Dog Park – 8' Equipment Gate    | 1        | EA   | \$ 1500.00  | \$ 1500.00   |
| 11.                                      | Minor Changes                   | 1        | EST. | \$10,000.00 | \$10,000.00  |
|  | <b>Subtotal</b>                 |          |      |             | \$260,865.91 |
|  | <b>WSST @ 8.6%</b>              |          |      |             | \$ 22,434.47 |
|  | <b>Total w/ WSST</b>            |          |      |             | \$283,300.38 |

By:  \_\_\_\_\_  
Signature of Authorized Person

Date: 2/9/24

Print Name & Title: Lane Stremler, President



January 23, 2024

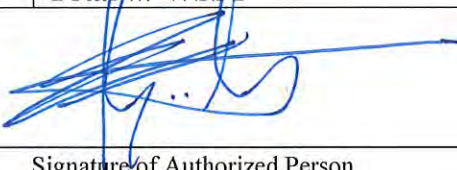
Attn: Bidders

RE: Sudden Valley Community Association (SVCA)  
**Bid Form – 2024 Tennis Court Repairs**

Bid submissions are due by 11:00am on Friday, 2-9-24. Email bid submissions to [tylera@pnwcivil.com](mailto:tylera@pnwcivil.com).

Firm Name: TIGER CONSTRUCTION LTD.

| <b>Bid Schedule – 2023 Tennis Court Repairs</b> |                                 |          |      |                         |                          |
|---|---------------------------------|----------|------|-------------------------|--------------------------|
| Item #  | Description                     | Quantity | Unit | Unit Price              | Total                    |
| 1.  | Mobilization                    | 1        | LS   | \$ 33,000 <sup>00</sup> | \$ 33,000 <sup>00</sup>  |
| 2.  | Access & Restoration            | 1        | LS   | \$ 12,000 <sup>00</sup> | \$ 12,000 <sup>00</sup>  |
| 3.  | Asphalt Repairs                 | 1,490    | SF   | \$ 22 <sup>00</sup>     | \$ 32,780 <sup>00</sup>  |
| 4.  | Nets & Post Replacements        | 1        | LS   | \$ 57,000 <sup>00</sup> | \$ 57,000 <sup>00</sup>  |
| 5.  | 2" Asphalt Overlay              | 1        | LS   | \$ 53,000 <sup>00</sup> | \$ 53,000 <sup>00</sup>  |
| 6.  | Acrylic Surfacing               | 1        | LS   | \$ 51,000 <sup>00</sup> | \$ 51,000 <sup>00</sup>  |
| 7.  | Pavement Markings               | 1        | LS   | \$ 9,000 <sup>00</sup>  | \$ 9,000 <sup>00</sup>   |
| 8.  | Dog Park – 4' Fence Replacement | 163      | LF   | \$ 45 <sup>00</sup>     | \$ 7,335 <sup>00</sup>   |
| 9.  | Dog Park – 3' Man Gate          | 1        | EA   | \$ 430 <sup>00</sup>    | \$ 430 <sup>00</sup>     |
| 10.   | Dog Park – 8' Equipment Gate    | 1        | EA   | \$ 1100 <sup>00</sup>   | \$ 1100 <sup>00</sup>    |
| 11.   | Minor Changes                   | 1        | EST. | \$10,000.00             | \$10,000.00              |
|   | <b>Subtotal</b>                 |          |      |                         | \$ 266,645 <sup>00</sup> |
|   | <b>WSST @ 8.6%</b>              |          |      |                         | \$ 22,931.47             |
|   | <b>Total w/ WSST</b>            |          |      |                         | \$ 289,576.47            |

By:  \_\_\_\_\_  
Signature of Authorized Person

Date: 2/09/2024

Print Name & Title: SCOTT ISENHART, PRESIDENT



Sudden Valley Community Association  
**Core Area: Tennis Court - Resurfacing & Fencing - Contract Award**  
 PNW Estimate - Bid Package, Permitting, and Construction Management

| Task                    | Description  | Hours | Estimated Cost |
|-------------------------|--|-------|----------------|
| Design Oversight        | Completed under separate proposal.   | 0     |                |
|                         | <b>Total Estimated Design Oversight Hours</b>  | 0     | \$ -           |
|                         |  |       |                |
| Permitting              | Completed under separate proposal.   | 0     |                |
|                         | <b>Total Estimated Permitting Cost</b>   | 0     | \$ -           |
|                         |  |       |                |
| Contractor Bids         | Completed under separate proposal.   | 0     |                |
|                         | Completed under separate proposal.   | 0     |                |
|                         | <b>Total Estimated Bid Package Hours</b>   | 0     | \$ -           |
| Construction Management | Issue contract, coordinate submittal reviews, and preconstruction meeting.   | 5     |                |
|                         | Construction oversight - part time assumed (20 day construction contract at 3 hours per day average - some days more and some days less than 3 hours). | 60    |                |
|                         | Contract closeout.   | 4     |                |
|                         | <b>Total Estimated Construction Management Hours</b>   | 69    | \$ 9,315.00    |
|                         | <b>Total Estimated</b>   |       | \$ 9,315.00    |



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors

**From:** Jo Anne Jensen, General Manager

**Date:** February 9, 2023

**Subject:** Capital Request – Core Area: Tennis Court Resurfacing & Fencing

---

### Purpose

To request funding approval for design and permitting to begin.

### Background

The existing tennis courts located adjacent to the Main Pool at the Recreation Center, Barn 8, appear to be original construction, and need significant improvements to be usable. The existing asphalt has wide cracks, the net posts are failing, and the surface as a whole needs repair. In addition, the surrounding fence needs repair. SVCA's 2023 budget includes amounts to repair these items in the combined amount of \$189,925.00.

### Analysis

SVCA proposes to begin work on the design and permitting for improvements to the tennis courts. This will include:

- Design, engineering, and permitting for the project to be constructed. Permitting will require a Shoreline Substantial Development Permit, and the overall permitting process is anticipated to take approximately 5 months.
- The failing asphalt sections will be removed, and new asphalt will be installed.
- The entire asphalt surface will then be resurfaced.
- New surface markings will be applied to accommodate both tennis and pickleball.
- The existing nets will be replaced.
- The existing fence will be repaired/replaced.
- Construction is proposed for summer 2023 during the Lake Whatcom Watershed construction window. Depending on permitting, this will likely be during August or September.

### Proposal

Authorize design and permitting to begin per PNW Services, Inc. attached Proposal dated 2-5-23.

### Request

Request \$19,101.50 per PNW Services, Inc. proposal to begin design and permitting.



# Sudden Valley Community Association

360-734-6430  
4 Clubhouse Circle Bellingham, WA 98229  
[www.suddenvalley.com](http://www.suddenvalley.com)

## Motion

Move that the Board of Directors approve the allocation of \$19,101.50 from the CRRRF Fund for the tennis court refencing and resurfacing project in the Rec Corridor.

## Board of Directors Approval

Approved:  Not Approved:  SVCA Board of Directors

*This capital request was approved by the  
BOD on 3/9/23.*

*Janne Jensen*



February 5, 2023

Sudden Valley Community Association  
Attn: Jo Anne Jensen  
4 Clubhouse Circle  
Bellingham, WA 98229

RE: Project Scope Letter  
**Core Area: Tennis Court – Resurfacing & Fencing**

PNW is providing this overall project scope letter to SVCA for Core Area: Tennis Court – Resurfacing & Fencing project. This area is located adjacent to the Recreation Center, Barn 8, just past the main pool. The existing tennis court appears to be original construction, and is in poor condition. Overall scope of work assumes:

- Project:
  - o Removal of failed asphalt sections with cracks, and placement of new asphalt.
  - o Overlay existing/repared asphalt with new court surface.
  - o The new court surface layout will accommodate both tennis and pickleball.
  - o Repair/replacement of existing fence.
  - o New court nets.
  
- Design, Permitting, & Contractor Bids
  - o Coordinate with permit agencies.
  - o Engineering & Permitting.
  - o Cost evaluations for improvements.
  - o Prepare bid package, issue to contractors, and bid evaluation with recommendation to SVCA.
  - o A Shoreline Substantial Development Permit will be required for this project. With this requirement permitting is anticipated to take approximately 5 months. Construction is anticipated to occur in August/September of 2023.

| <b>Design, Permitting, Contractor Bids</b>         |                    |
|--|--------------------|
| - Impact Design – Design & Permitting              | \$11,800.00        |
| - Permit Fees Allowance                            | \$3,000.00         |
| - PNW Services, Inc. – Oversight & Bid Package     | \$2,565.00         |
| Contingency at 10%                                 | \$1,736.50         |
| <b>Total – Design, Permitting, Contractor Bids</b> | <b>\$19,101.50</b> |

Please let me know if you have any questions, or if you would like any further information.

Sincerely,

Tyler Andrews  
President





Sudden Valley Community Association  
Tennis Court Resurfacing Permitting

---

January 19, 2023

Tyler Andrews  
PNW Services, Inc.  
PO Box 30498  
Bellingham, WA 98228  
360-739-2072

Thank you for the opportunity to submit a proposal to provide engineering and permitting assistance for a tennis court resurfacing project for the Sudden Valley Community Association. We propose to conduct the engineering and permitting assistance for this project on a Not To Exceed basis in accordance with the rate sheets attached and our budget of \$11,800.

**Scope of Work:**

**Tennis Court Resurfacing Engineering Plans and Specifications (\$6,000)**

We will prepare 100% construction documents for this improvement project. This will include the following sheets in the engineering plan set stamped by a professional engineer in Washington State:

- Cover Sheet and General Notes
- Existing Conditions Map
- Proposed Tennis/Pickleball Court Striping Layout
- Proposed Tennis/Pickleball Court Resurfacing Plan
  - This will include sections of asphalt that will need to be patched and replaced, and an overlay plan with an asphalt thickness schedule as needed. A site visit will be performed to determine the areas of asphalt that need to be replaced by inspection.
- Temporary Erosion and Sedimentation Control Plan
- Stormwater Pollution Prevention Plan
- Asphalt and Acrylic Resurfacing Details and Specifications (as needed)

It is assumed that a stormwater treatment system design or tree retention plan will not be required by Whatcom County for this project. We can provide this additional service on a Time and Materials basis as requested by SVCA.

## Shoreline Substantial Development Permit (\$3,500)

We will prepare the Shoreline Substantial Development permit on the behalf of Sudden Valley Community Association to provide for the proposed improvement project. We will prepare all the application requirements to accompany the Shoreline Substantial Development Permit submittal, including:

- Project Narrative,
- Preliminary Traffic & Concurrency Information form,
- Preliminary Stormwater Proposal,
- Mailing list of property owners in the area.

## Land Surveying Scope (\$2,300)

A survey crew will collect data to create a survey base map for the on-site information. Features they will survey include:

- Control X,Y,Z (State plane and NAVD88)
- Boundary Base Map
- The survey team will have utilities located and integrate as-built information from Lake Whatcom Water and Sewer District. All data will be collected in NAD 83, NAVD 88 datums.

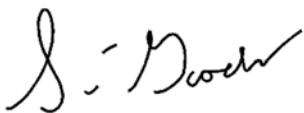
**Excluded Scope:** Geotechnical work, architectural design, structural engineering, landscape design, title reports, construction support, as-builts, and dry utilities coordination are not included in this scope.

Please sign and date below as a formal acceptance of this proposal. We are excited to be working on your project.

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

Respectfully,



Scott Goodall, MS, PE  
Principal - Impact Design, LLC



2023 Rate Sheet

| <b>Office</b>          | <b>Hourly Rate</b> |
|------------------------|--------------------|
| Principal Engineer     | \$140              |
| Design Engineer        | \$125              |
| Engineering Technician | \$110              |
| Design Technician      | \$100              |
| CAD Technician         | \$75               |

| <b>Field</b>                | <b>Hourly Rate</b> |
|-----------------------------|--------------------|
| Construction Inspection     | \$90               |
| Drone Pilot (UAV Certified) | \$90               |
| Photogrammetry Technician   | \$75               |

|                        |                      |
|------------------------|----------------------|
| <b>Sub-Consultants</b> | <b>15% Markup</b>    |
| <b>Equipment</b>       | <b>15% Markup</b>    |
| <b>Travel Expenses</b> | <b>15% Markup</b>    |
| <b>Mileage</b>         | <b>\$0.50 / Mile</b> |

Sudden Valley Community Association  
**Core Area: Tennis Court - Resurfacing & Fencing**  
 PNW Estimate - Bid Package, Permitting, and Construction Management

| Task                    | Description   | Hours    | Estimated Cost     |
|-------------------------|---|----------|--------------------|
| Design Oversight        | Oversight of Impact Design, review drawings, and site visits as required.           | 8        |                    |
|                         | <b>Total Estimated Design Oversight Hours</b>                                       | <b>8</b> | <b>\$ 1,080.00</b> |
|                         | Oversight of permit applications, facilitate signatures / submittals / permit fees. | 5        |                    |
| Permitting              | <b>Total Estimated Permitting Cost</b>  | <b>5</b> | <b>\$ 675.00</b>   |
|                         | Prepare bid package, issue to contractors, and answer any bid questions.            | 4        |                    |
|                         | Review construction bids, and provide recommendation to SVCA.                       | 2        |                    |
| Contractor Bids         | <b>Total Estimated Bid Package Hours</b>  | <b>6</b> | <b>\$ 810.00</b>   |
|                         | Under separate proposal after design / permitting.                                  |          |                    |
|                         | <b>Total Estimated Construction Management Hours</b>                                | <b>0</b> | <b>\$ -</b>        |
| Construction Management | <b>Total Estimated</b>  |          | <b>\$ 2,565.00</b> |



July 20, 2023 - Bid Tabulation

Project: 2023 Tennis Court Repairs

| Item # | Description                     | Quantity | Unit | Strempler Gravel |                     | Tiger Construction |                     |
|--------|---------------------------------|----------|------|------------------|---------------------|--------------------|---------------------|
|        |                                 |          |      | Unit Price       | Total               | Unit Price         | Total               |
| 1      | Mobilization                    | 1        | LS   | \$ 35,000.00     | \$ 35,000.00        | \$ 25,000.00       | \$ 25,000.00        |
| 2      | Access & Restoration            | 1        | LS   | \$ 18,200.00     | \$ 18,200.00        | \$ 11,000.00       | \$ 11,000.00        |
| 3      | Asphalt Repairs                 | 1490     | SF   | \$ 15.50         | \$ 23,095.00        | \$ 20.00           | \$ 29,800.00        |
| 4      | Nets & Post Replacements        | 1        | LS   | \$ 47,000.00     | \$ 47,000.00        | \$ 55,000.00       | \$ 55,000.00        |
| 5      | 2" Asphalt Overlay              | 1        | LS   | \$ 45,500.00     | \$ 45,500.00        | \$ 53,000.00       | \$ 53,000.00        |
| 6      | Acrylic Surfacing               | 1        | LS   | \$ 46,000.00     | \$ 46,000.00        | \$ 51,000.00       | \$ 51,000.00        |
| 7      | Pavement Markings               | 1        | LS   | \$ 11,200.00     | \$ 11,200.00        | \$ 10,000.00       | \$ 10,000.00        |
| 8      | Dog Park - 4' Fence Replacement | 163      | LF   | \$ 70.00         | \$ 11,410.00        | \$ 50.00           | \$ 8,150.00         |
| 9      | Dog Park - 3' Man Gate          | 1        | EA   | \$ 600.00        | \$ 600.00           | \$ 450.00          | \$ 450.00           |
| 10     | Dog Park - 8' Equipment Gate    | 1        | EA   | \$ 1,500.00      | \$ 1,500.00         | \$ 1,200.00        | \$ 1,200.00         |
| 11     | Minor Changes                   | 1        | EST. | \$ 5,000.00      | \$ 5,000.00         | \$ 5,000.00        | \$ 5,000.00         |
|        | <b>Subtotal</b>                 |          |      |                  | <b>\$244,505.00</b> |                    | <b>\$249,600.00</b> |
|        | <b>WSST @ 8.6%</b>              |          |      |                  | <b>\$ 21,027.43</b> |                    | <b>\$ 21,465.60</b> |
|        | <b>Total w/ WSST</b>            |          |      |                  | <b>\$265,532.43</b> |                    | <b>\$271,065.60</b> |



January 23, 2024

Attn: Bidders

RE: Sudden Valley Community Association (SVCA)  
**Quote Request – 2024 Tennis Court Resurfacing**

SVCA is requesting quotes for the 2024 Tennis Court Resurfacing project. This project is located next to Barn 8 / Recreation Center and rebuilds the existing tennis courts. Bid proposals are due by 11:00am on Friday, 2-9-24.

**Summary of Work:**

1. The project will go in front of the SVCA Board on Thursday, 2-22-24, for contract award.
2. All work is assumed to be completed under 1 mobilization.
3. Contractor will be allowed 20 working days to complete the scope of work. Necessary cure time for materials will not be counted as working days.
  - a. Substantial completion is Friday, 8-2-24. Liquidated damages shall be assessed at \$500.00 per day for any days incurred after 8-2-24. Additional days will be added for inclement weather.
  - b. Final completion is Friday, 8-16-24.
  - c. Contractor shall provide a schedule and submittals to SVCA within 3 weeks of contract execution.
4. SVCA work hours are 8:00am – 7:00pm Monday thru Friday, and 8:00am – 6:00pm Saturday.
5. SVCA will allow contractor staging in the overflow parking lot located across from Gate 5 along Lake Louis Road. Contractor staging will also be allowed in the grass next to the tennis courts for a space of 100' x 100'. Contractor shall restore the staging areas upon completion.
6. Fridays are garbage/recycling day in Sudden Valley. Contractor shall not interfere with this pickup.
7. Layout – Asphalt areas for repair will have limits painted by the engineer prior to contractor mobilizing. All other layout is assumed by contractor.
8. All asphalt shall have sealed edges.
9. Traffic control per MUTCD and WSDOT standards.
10. Installation shall follow WSDOT specifications and standards.
11. Force account work to receive 15% markup.
12. Owner will hire a testing agency.
13. Contractor shall provide Performance and Payment Bonds. Bid bonds are not required.
14. This is a private project, and prevailing wages are not applicable.
15. Contractor shall warranty work for 1 year from final completion.

**Scope of Work Clarifications:**

- Item 2 – Access & Restoration



- Contractor shall access the site from the Barn 8 side. The swimming pool and Recreation Center located at Barn 8 is in use, and contractor shall provide pedestrian protection when accessing as necessary.
- All areas shall be fully restored upon completion.
- Contractor is responsible for grass establishment. Grass establishment is not subject to the working day schedule identified above, but shall be completed in 2024.
- Contractor shall remove and reinstall existing fence as necessary for access. Fencing shall be protected during construction, and any damage shall be restored upon completion.
- Item 7 – Pavement Markings
  - Layout shall include both tennis and pickleball as shown on the drawings.
- Item 8 – Dog Park Fence Replacement
  - Existing dog park fence on the north side of the tennis court shall be removed and replaced with a 4' tall galvanized chain link fence. Measurement of fence does not include gate lengths.
- Item 9 – Dog Park – 3' Man Gate
  - In new fence install a 3' man gate in close proximity to the existing man gate location.
- Item 10 – Dog Park – 8' Equipment Gate
  - Install a gate next to the pedestrian gate with an 8' opening for SVCA's equipment access.

Attachments:

1. Bid Form – 1 Page
2. Project Location Map – 1 Page
3. Drawings – 10 Pages
4. Specifications – 20 Pages
5. Shoreline Exemption Permit – 4 Pages plus Drawings
6. SVCA Standard Contract – 12 Pages

Questions shall be directed to Tyler Andrews at [tylera@pnwcivil.com](mailto:tylera@pnwcivil.com) or 360-739-2072. Contractors are encouraged to independently visit the site; no formal pre-bid is scheduled. Bids are due by 11:00am on Friday, 2-9-24. Email bid submissions to [tylera@pnwcivil.com](mailto:tylera@pnwcivil.com).



January 23, 2024

Attn: Bidders

RE: Sudden Valley Community Association (SVCA)  
**Bid Form – 2024 Tennis Court Repairs**

Bid submissions are due by 11:00am on Friday, 2-9-24. Email bid submissions to [tylera@pnwcivil.com](mailto:tylera@pnwcivil.com).

Firm Name: \_\_\_\_\_

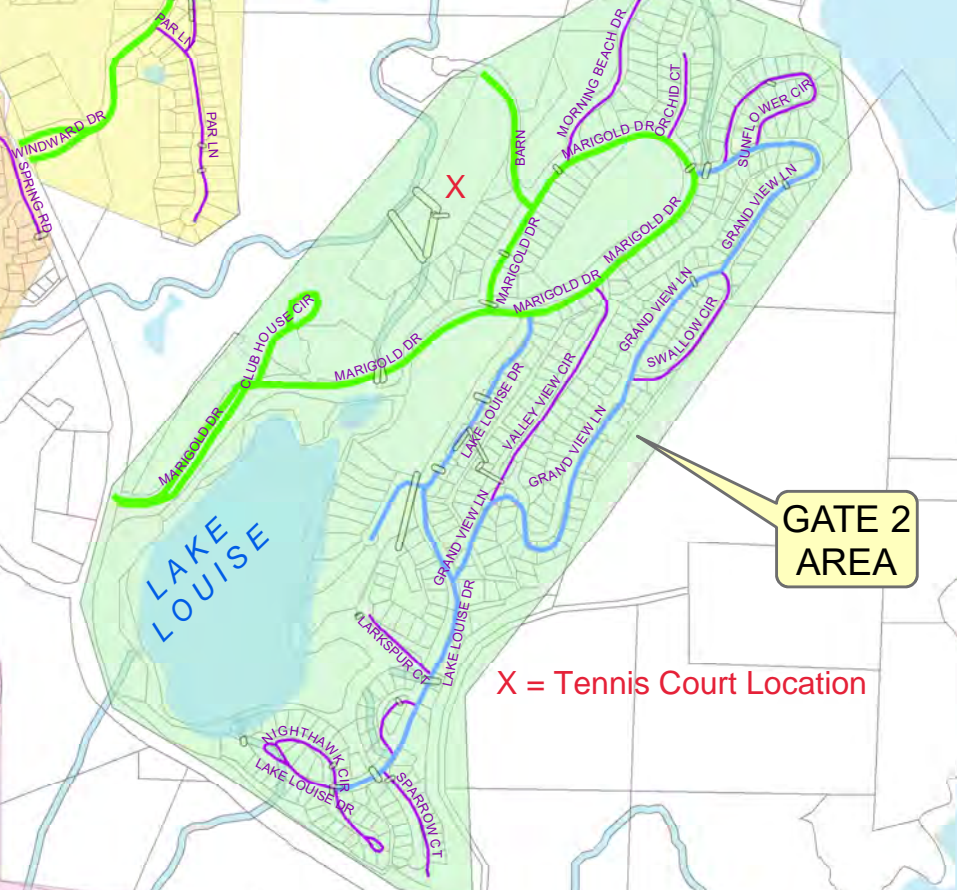
| <b>Bid Schedule – 2023 Tennis Court Repairs</b> |                                 |          |      |             |             |
|---|---------------------------------|----------|------|-------------|-------------|
| Item #  | Description                     | Quantity | Unit | Unit Price  | Total       |
| 1.  | Mobilization                    | 1        | LS   | \$          | \$          |
| 2.  | Access & Restoration            | 1        | LS   | \$          | \$          |
| 3.  | Asphalt Repairs                 | 1,490    | SF   | \$          | \$          |
| 4.  | Nets & Post Replacements        | 1        | LS   | \$          | \$          |
| 5.  | 2" Asphalt Overlay              | 1        | LS   | \$          | \$          |
| 6.  | Acrylic Surfacing               | 1        | LS   | \$          | \$          |
| 7.  | Pavement Markings               | 1        | LS   | \$          | \$          |
| 8.  | Dog Park – 4' Fence Replacement | 163      | LF   | \$          | \$          |
| 9.  | Dog Park – 3' Man Gate          | 1        | EA   | \$          | \$          |
| 10.   | Dog Park – 8' Equipment Gate    | 1        | EA   | \$          | \$          |
| 11.   | Minor Changes                   | 1        | EST. | \$10,000.00 | \$10,000.00 |
|   | <b>Subtotal</b>                 |          |      |             | \$          |
|   | <b>WSST @ 8.6%</b>              |          |      |             | \$          |
|   | <b>Total w/ WSST</b>            |          |      |             | \$          |

By: \_\_\_\_\_  
 Signature of Authorized Person

Date: \_\_\_\_\_

Print Name & Title: \_\_\_\_\_





WINDWARD DR  
SPRING RD  
PAR LN

LAKE LOUISE

X

GATE 2  
AREA

X = Tennis Court Location



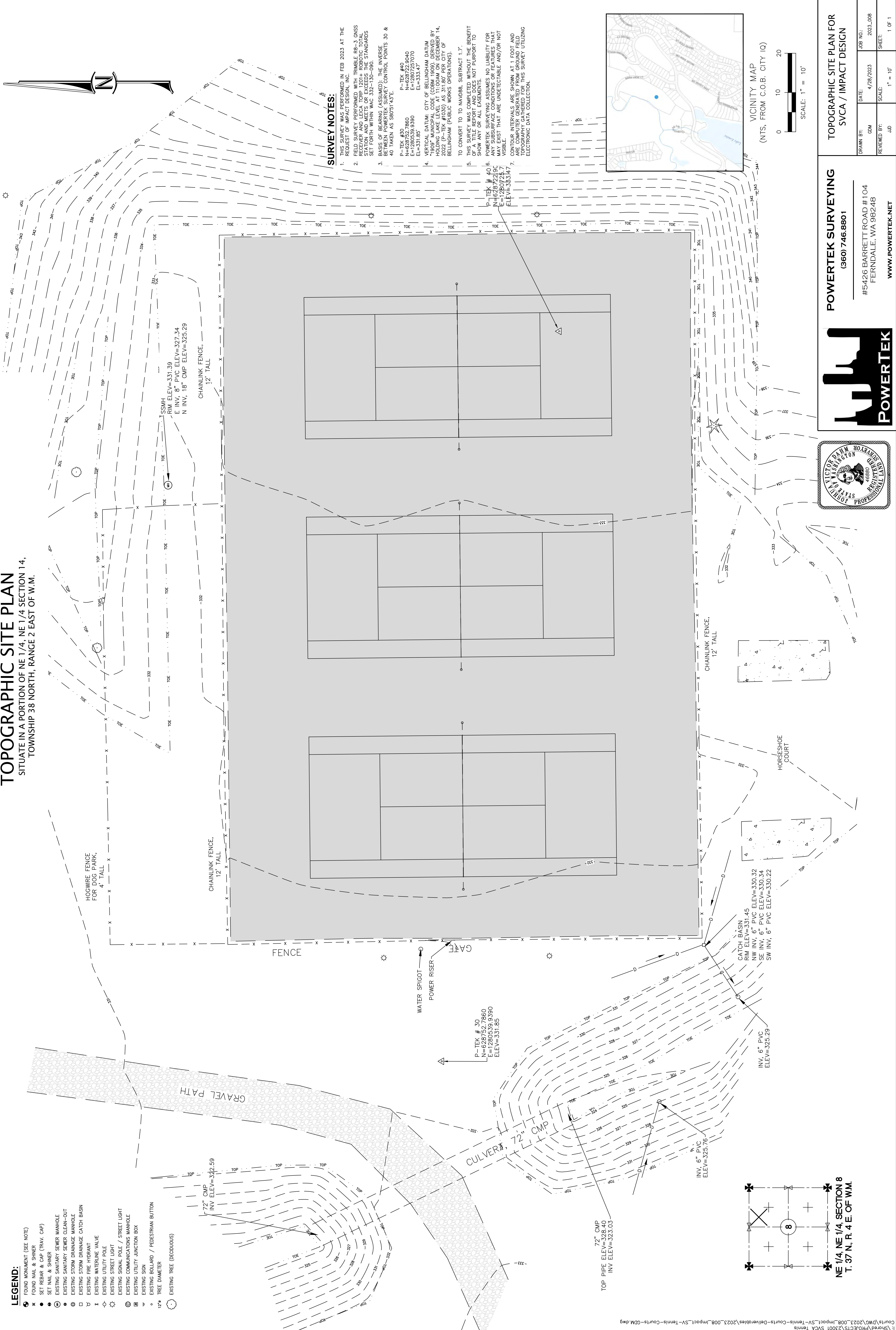




# TOPOGRAPHIC SITE PLAN

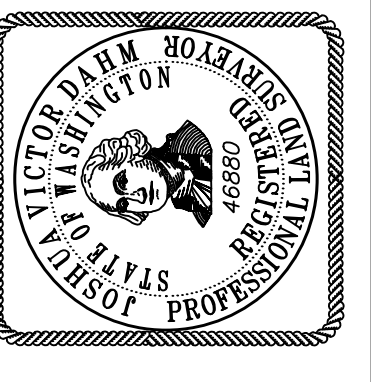
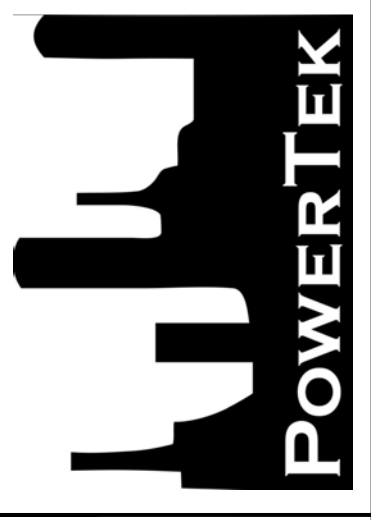
SITUATE IN A PORTION OF NE 1/4, NE 1/4 SECTION 14,  
TOWNSHIP 38 NORTH, RANGE 2 EAST OF W.M.

- LEGEND:**
- FOUND MONUMENT (SEE NOTE)
  - ✕ FOUND NAIL & SHINER
  - SET REBAR & CAP (TRAV. CAP)
  - SET NAIL & SHINER
  - EXISTING SANITARY SEWER MANHOLE
  - EXISTING SANITARY SEWER CLEAN-OUT
  - EXISTING STORM DRAINAGE MANHOLE
  - EXISTING STORM DRAINAGE CATCH BASIN
  - ⊥ EXISTING FIRE HYDRANT
  - ⊥ EXISTING WATERLINE VALVE
  - ⊥ EXISTING UTILITY POLE
  - ⊙ EXISTING STREET LIGHT
  - ⊙ EXISTING SIGNAL POLE / STREET LIGHT
  - ⊙ EXISTING COMMUNICATIONS MANHOLE
  - ⊙ EXISTING UTILITY JUNCTION BOX
  - ⊙ EXISTING SIGN
  - 12" ∅ TREE DIAMETER
  - EXISTING TREE (DECIDUOUS)



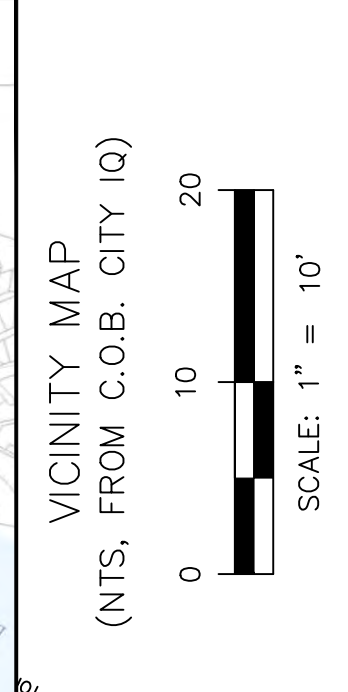
**SURVEY NOTES:**

1. THIS SURVEY WAS PERFORMED IN FEB 2023 AT THE REQUEST OF THE CLIENT. THE SURVEY WAS CONDUCTED USING A TRIMBLE RS-3 GNSS RECEIVER AND LEICA TOPP 1201+ ROBOTIC TOTAL STATION AND MEETS OR EXCEEDS THE STANDARDS SET FORTH WITHIN WAC 332-1300-090.
2. BASIS OF BEARING (ASSUMED): THE INVERSE BETWEEN POWERTEK SURVEY CONTROL POINTS 30 & 40 TAEN AS 5895149 E.
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**POWERTEK SURVEYING**  
 (360) 746-8801  
 #5426 BARRETT ROAD # 104  
 FERNDALE, WA 98248  
 WWW.POWERTEK.NET

**TOPOGRAPHIC SITE PLAN FOR  
 SVCA / IMPACT DESIGN**



0 10 20  
 SCALE: 1" = 10'

**NE 1/4, NE 1/4 SECTION 8  
 T. 37 N., R. 4 E. OF W.M.**











# SUDDEN VALLEY ROADWAY MAINTENANCE 2022

## PICKLE BALL & TENNIS STRIPING PLAN

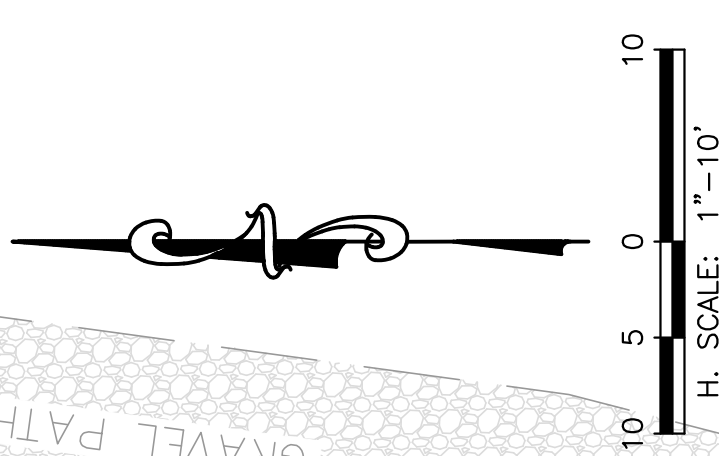
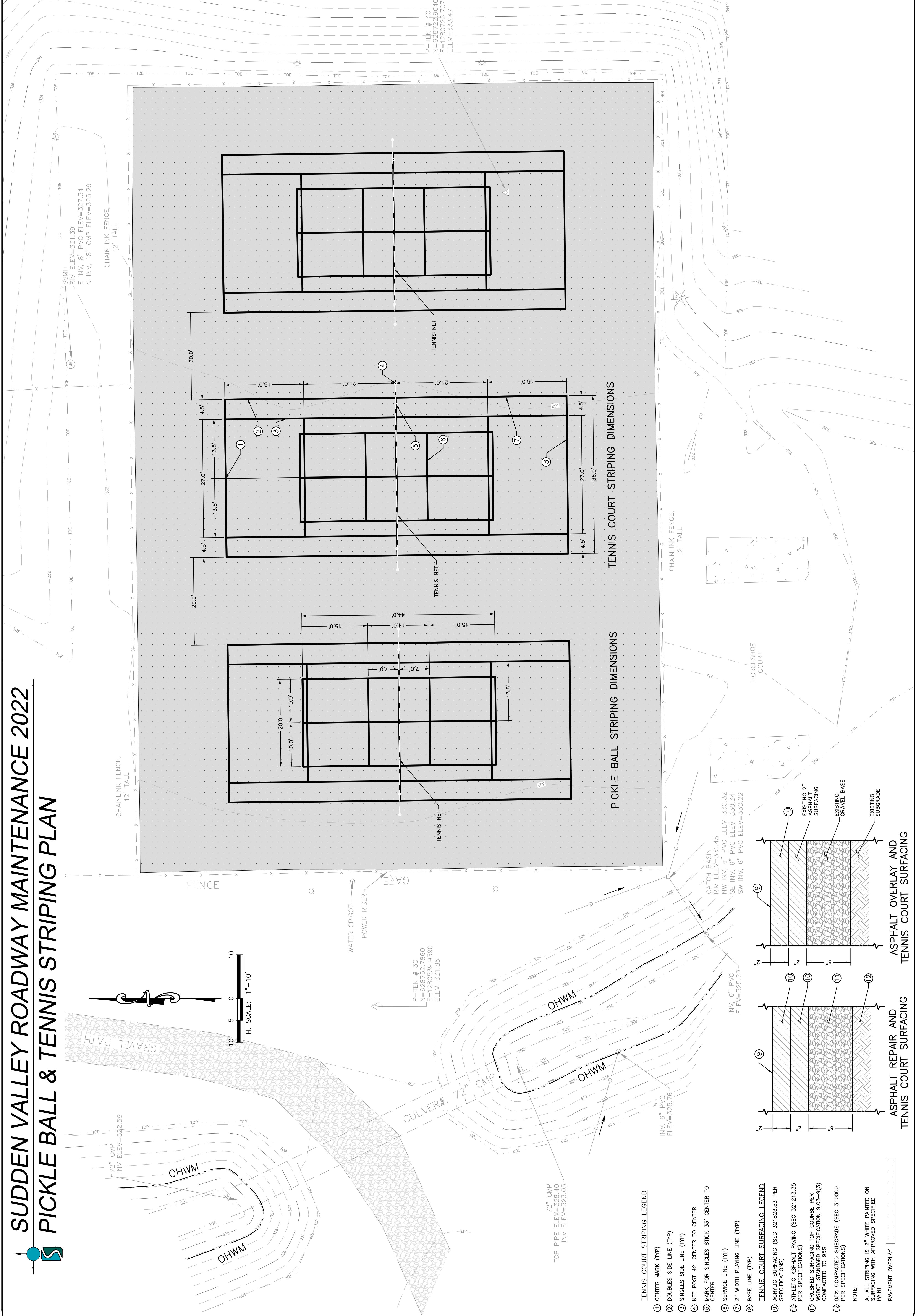


**SVCAs TENNIS COURTS RESURFACING**  
**PICKLE BALL & TENNIS STRIPING PLAN**  
 4 BARN VIEW DRIVE  
 BELLINGHAM, WASHINGTON 98229

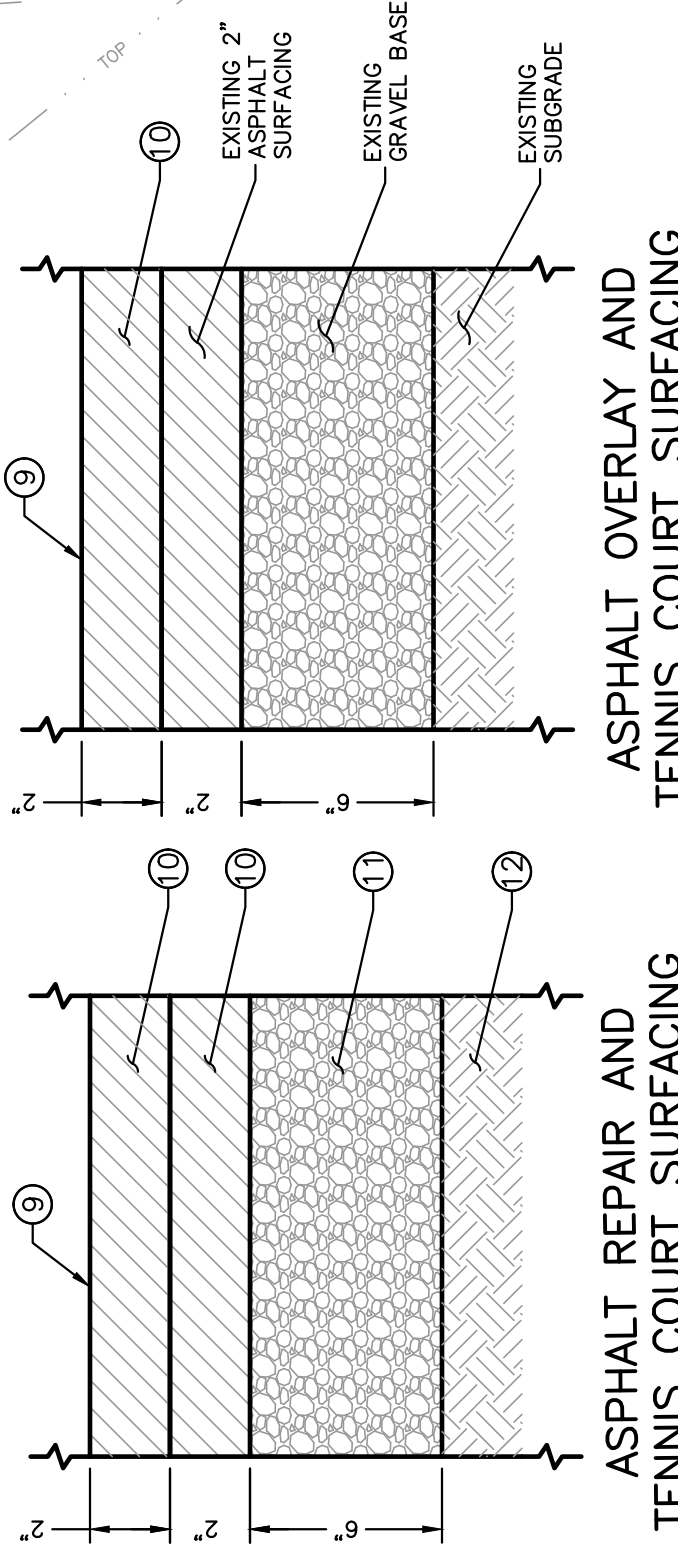
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PROJECT NUMBER: 23001  
 DESIGNED/DRAWN BY: BLS  
 CHECKED BY: SIG  
 ISSUE DATE: 05.09.2023

OF: 9



- TENNIS COURT STRIPING LEGEND**
- ① CENTER MARK (TYP)
  - ② DOUBLES SIDE LINE (TYP)
  - ③ SINGLES SIDE LINE (TYP)
  - ④ NET POST 42' CENTER TO CENTER
  - ⑤ MARK FOR SINGLES STICK 33' CENTER TO CENTER
  - ⑥ SERVICE LINE (TYP)
  - ⑦ 2' WIDTH PLAYING LINE (TYP)
  - ⑧ BASE LINE (TYP)
- TENNIS COURT SURFACING LEGEND**
- ⑨ ACRYLIC SURFACING (SEC 321823.53 PER SPECIFICATIONS)
  - ⑩ ATHLETIC ASPHALT PAVING (SEC 32121.35 PER SPECIFICATIONS)
  - ⑪ CRUSHED SURFACING TOP COURSE PER SPECIFICATIONS (SPECIFICATION 9.05-9.13) COMPACTED TO 95%
  - ⑫ 85% COMPACTED SUBGRADE (SEC 310000 PER SPECIFICATIONS)
- NOTE:  
 A. ALL STRIPING IS 2" WHITE PAINTED ON SURFACING WITH APPROVED SPECIFIED PAINT
- PAVEMENT OVERLAY



5426 BARETT ROAD, SUITE A103  
 360-389-8158 WWW.BOLD-IMPACT.COM

05.09.2023







# SUDDEN VALLEY ROADWAY MAINTENANCE 2022

## TEMPORARY EROSION & SEDIMENT CONTROL



15426 BARETT ROAD, SUITE A103  
360-389-8138 WWW.BOLD-IMPACT.COM



SVCA TENNIS COURTS RESURFACING  
TEMPORARY EROSION & SEDIMENT CONTROL  
4 BARN VIEW DRIVE  
BELLINGHAM, WASHINGTON 98229

|                    |            |
|--------------------|------------|
| PROJECT NUMBER:    | 23001      |
| DESIGNED/DRAWN BY: | BLS        |
| CHECKED BY:        | SIG        |
| ISSUE DATE:        | 05.09.2023 |
| OF:                | 9          |
|                    | 7          |

- LEGEND**
- ELEMENT #1 -- MARK CLEARING LIMITS**
- 101** BMP C101 PRESERVE VEGETATION
  - 103** BMP C103 HIGH VISIBILITY FENCE
- ELEMENT #2 -- ESTABLISH CONSTRUCTION ACCESS**
- 105** BMP C105 STABILIZED CONSTRUCTION ENTRANCE (ONLY INSTALLED IF NECESSARY)
- ELEMENT #3 -- CONTROL FLOW RATES**
- 220** BMP C220 STORM DRAIN INLET PROTECTION
- ELEMENT #4 -- INSTALL SEDIMENT CONTROLS**
- 220** BMP C220 STORM DRAIN INLET PROTECTION
  - 233** BMP 233 SILT FENCE

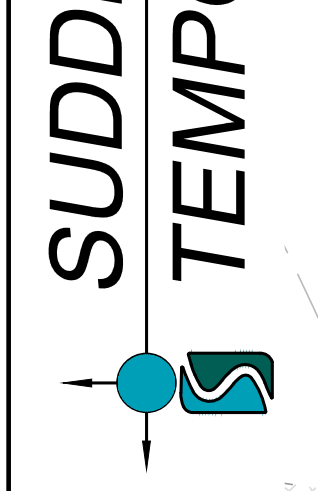
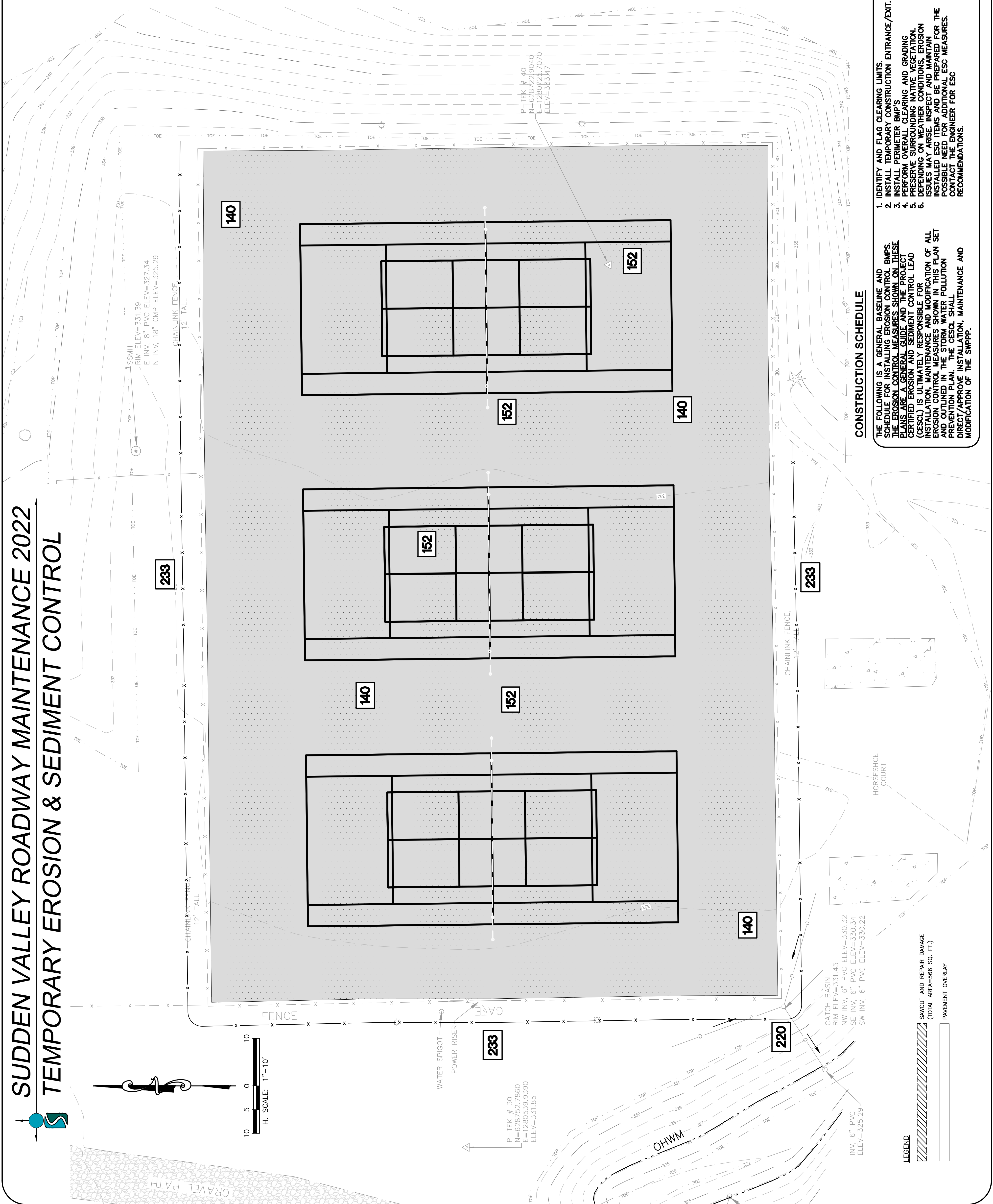
- ELEMENT #5 -- STABILIZE SOILS**
- 140** BMP C140 DUST CONTROL
- ELEMENT #6 -- PROTECT SLOPES**
- ELEMENT #7 -- PROTECT DRAIN INLETS**
- 220** BMP C220 STORM DRAIN INLET PROTECTION
- ELEMENT #8 -- STABILIZE CHANNELS AND OUTLETS**
- ELEMENT #9 -- CONTROL POLLUTANTS**
- 152** BMP C152 SAWCUTTING AND SURFACE POLLUTION PREVENTION
  - 153** BMP C153 MATERIAL DELIVERY, STORAGE AND CONTAINMENT
- ELEMENT #10 -- CONTROL DEWATERING**
- ELEMENT #11 -- MAINTAIN BMPs**
- 160** BMP C160 CERTIFIED EROSION AND SEDIMENT CONTROL LEAD
- ELEMENT #12 -- MANAGE THE PROJECT**
- 160** BMP C160 CERTIFIED EROSION AND SEDIMENT CONTROL LEAD
- NO LID BMPs IN THIS PROJECT**

- 7. MONITOR WEATHER AND ADD ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED. WHETHER SHOWN ON THIS PLAN OR NOT. ADDITIONAL BMP MATERIALS SHALL BE KEPT ON HAND AT ALL TIMES (SUCH AS GRAVEL, STRAW, PLASTIC OR EQUIVALENT). WHEN GRADING AND CONSTRUCTION ARE COMPLETE, REED AND STABILIZE ALL EXPOSED SOILS AND REMOVE TEMPORARY BMPs ONCE DEEMED NO LONGER NECESSARY.**

- 1. IDENTIFY AND FLAG CLEARING LIMITS.**
- 2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE/EXIT.**
- 3. INSTALL PERIMETER BMPs.**
- 4. PERFORM OVERALL CLEARING AND GRADING.**
- 5. PRESERVE SURROUNDING NATIVE VEGETATION.**
- 6. DEPENDING ON WEATHER CONDITIONS, EROSION ISSUES MAY ARISE. INSPECT AND MAINTAIN FOR THE POSSIBLE NEED FOR ADDITIONAL ESC MEASURES. CONTACT THE ENGINEER FOR ESC RECOMMENDATIONS.**

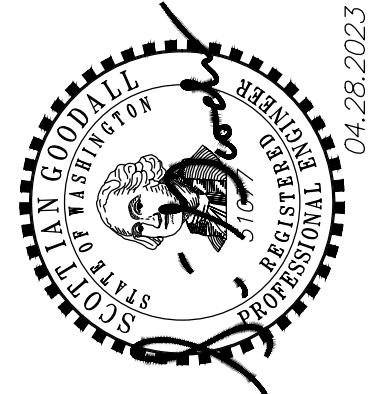
- THE FOLLOWING IS A GENERAL BASELINE AND SCHEDULE FOR INSTALLING EROSION CONTROL BMPs. THE ENGINEER WILL BE RESPONSIBLE FOR VERIFYING THE LOCATION, GENERAL MEASUREMENTS, SIZES, AND INSTALLATION OF ALL EROSION CONTROL BMPs. THE ENGINEER SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND MODIFICATION OF ALL EROSION CONTROL MEASURES SHOWN IN THIS PLAN SET AND OUTLINED IN THE STORM WATER POLLUTION PREVENTION PLAN. THE ESCAL SHALL DIRECT/APPROVE INSTALLATION, MAINTENANCE AND MODIFICATION OF THE SWPPP.**

- CONSTRUCTION SCHEDULE**



- LEGEND**
- SAWCUT AND REPAIR DAMAGE (TOTAL AREA=566 SQ. FT.)
  - PAVEMENT OVERLAY





04.28.2023

SVCA TENNIS COURTS RESURFACING  
DETAILS  
4 BARN VIEW DRIVE  
BELLINGHAM, WASHINGTON 98229

|                        |
|------------------------|
| PROJECT NUMBER: 23001  |
| DESIGNED/DRAWN BY: BLS |
| CHECKED BY: SIG        |
| ISSUE DATE: 04.28.2023 |
| 8                      |
| 9                      |

Table II-3.6: Mulch Standards and Guidelines

| Mulch Material          | Guidelines        | Description  |
|-------------------------|-------------------|--|
| Straw                   | Quality Standards | Air-dried, free from undesirable seed and coarse material.   |
|                         | Application Rates | 2"-3" thick; 5 bales per 1,000 sq ft or 2-3 tons per acre  |
|                         | Remarks           | Cost-effective protection when applied with adequate thickness. Hand application generally requires greater thickness than blown straw. The thickness of straw may be reduced by half when used in conjunction with seeding. In wet areas, straw should be applied in a layer that is 1/2" thick, or covering with netting. Blown straw always has to be held in place with a tackifier as even light winds will blow it away. Straw, however, has several deficiencies that should be considered when selecting mulch materials. It often introduces and/or encourages the propagation of weed species and it has no significant long-term benefits. It should also not be used within the ordinary high-water elevation of surface waters (due to floatation). |
|                         | Quality Standards | No growth-inhibiting factors.  |
| Hydromulch              | Application Rates | Approx. 35-45 lbs per 1,000 sq ft or 1,500 - 2,000 lbs per acre  |
|                         | Remarks           | Shall be applied with hydromulcher. Shall not be used without seed and tackifier unless the application rate is at least double. Fibers longer than about 3/4 - 1 inch clog hydromulch equipment. Fibers should be kept to less than 3/4 inch.   |
| Compost                 | Quality Standards | No visible water or dust during handling. Must be produced per WAC 173-250, Solid Waste Handling Standards, but may have up to 35% biosolids.  |
|                         | Application Rates | 2" thick min.; approx. 100 tons per acre (approx. 750 lbs per cubic yard)  |
| Chipped Site Vegetation | Quality Standards | More effective control can be obtained by increasing the amount of mulch. The mulch should be applied in a layer until landscaping because it can be directly seeded or filled into soil as an amendment. Compost used for mulch has a coarser size gradation than compost used for BMP C125. Topsoiling, Composting or BMP 1.1.3. Post-Construction Soil Quality and Depth. It is more stable and practical to use in wet areas and during many weather conditions. Do not use near wetlands or near phosphorus-impaired water bodies.  |
|                         | Application Rates | Crustations from fines to 6 inches in length for reseed, saturation, and interlocking properties. Include a mix of weed sizes so that the average size is between 2" and 4" inches.  |
| Wood-Strand Mulch       | Quality Standards | 2" thick min.  |
|                         | Remarks           | This is a cost-effective way to dispose of debris from clearing and grubbing, and it eliminates the problems associated with burning. Generally, it should not be used on slopes above approx. 10% because of its tendency to be transported by runoff. It is not recommended within 200 feet of surface waters. If permanent seeding or planting is expected shortly after mulch, the decomposition of the mulch may be an important factor in determining the amount of grass establishment.   |
| Wood-Strand Mulch       | Quality Standards | Note: thick application of this material over existing grass, herbaceous species, and some groundcovers could smother and kill vegetation.   |
|                         | Application Rates | No visible water or dust during handling. Must be purchased from a supplier with a Solid Waste Handling Permit or one exempt from solid waste regulations.   |
| Wood-Strand Mulch       | Quality Standards | 2" thick min.; approx. 100 tons per acre (approx. 750 lbs per cubic yard)  |
|                         | Remarks           | This material is often called "wood straw" or "hog fish". The use of mulch ultimately improves the organic matter in the soil. Special caution is advised regarding the source and composition of wood-based mulches. Its preparation typically does not provide any weed seed control, so evidence of residual vegetation in its composition or known weed species should be monitored and prevented (or minimized).  |
| Wood-Strand Mulch       | Quality Standards | A blend of loose, long, thin wood pieces derived from native conifer or deciduous trees with high length-to-width ratio.   |
|                         | Application Rates | 2" thick min.  |
| Wood-Strand Mulch       | Quality Standards | Cost-effective protection when applied with adequate thickness. A minimum of 95-percent of the wood strand shall have lengths between 2 and 10-inches, with a width and thickness between 1/16 and 1/2-inches. The mulch shall not contain resin, tannin, or other compounds in quantities that would be detrimental to plant life. Sawdust or wood shavings should be removed from the mulch. (See also BMP 1.1.3. Post-Construction Soil Quality and Depth.)   |
|                         | Remarks           | Use of wood strand mulch is prohibited on projects within the Statewide Shoreline Management Program, Bridge, and Municipal Construction (NSDDOT 2016).  |

Washington State Department of Ecology  
2019 Stormwater Management Manual for Western Washington (2019 SWMMWW)  
Publication No. 19-10-021

BMP C152: Sawcutting and Surfacing Pollution Prevention

**Purpose**  
Sawcutting and surfacing operations generate slurry and process water that contains fine particles and high pH (concrete cutting), both of which can violate the water quality standards in the receiving water. Concrete spillage or concrete discharge to waters of the State is prohibited. Use this BMP to minimize and eliminate process water and slurry created through sawcutting or surfacing from entering waters of the State.

**Conditions of Use**  
Utilize these management practices anytime sawcutting or surfacing operations take place. Saw-cutting and surfacing operations include, but are not limited to:

- Sawing
- Coring
- Grinding
- Roughening
- Hydro-demolition
- Bridge and road surfacing

**Design and Installation Specifications**

- Vacuum slurry and cuttings during cutting and surfacing operations.
- Slurry and cuttings shall not drain to any natural or constructed drainage conveyance including stormwater systems. This may require temporarily blocking catch basins.
- Dispose of collected slurry and cuttings in a manner that does not violate ground water or surface water quality standards.
- Do not allow process water generated during hydro-demolition, surface roughening or similar operations to drain to any natural or constructed drainage conveyance including stormwater systems. Dispose of process water in a manner that does not violate ground water or surface water quality standards.
- Handle and dispose of cleaning waste material and demolition debris in a manner that does not cause contamination of water. Dispose of sweeping material from a pick-up sweeper at an appropriate disposal site.

**Maintenance Standards**

Continually monitor operations to determine whether slurry, cuttings, or process water could enter waters of the state. If inspections show that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment, and/or vacuum trucks.

SAWCUTTING (BMP C152)

NTS

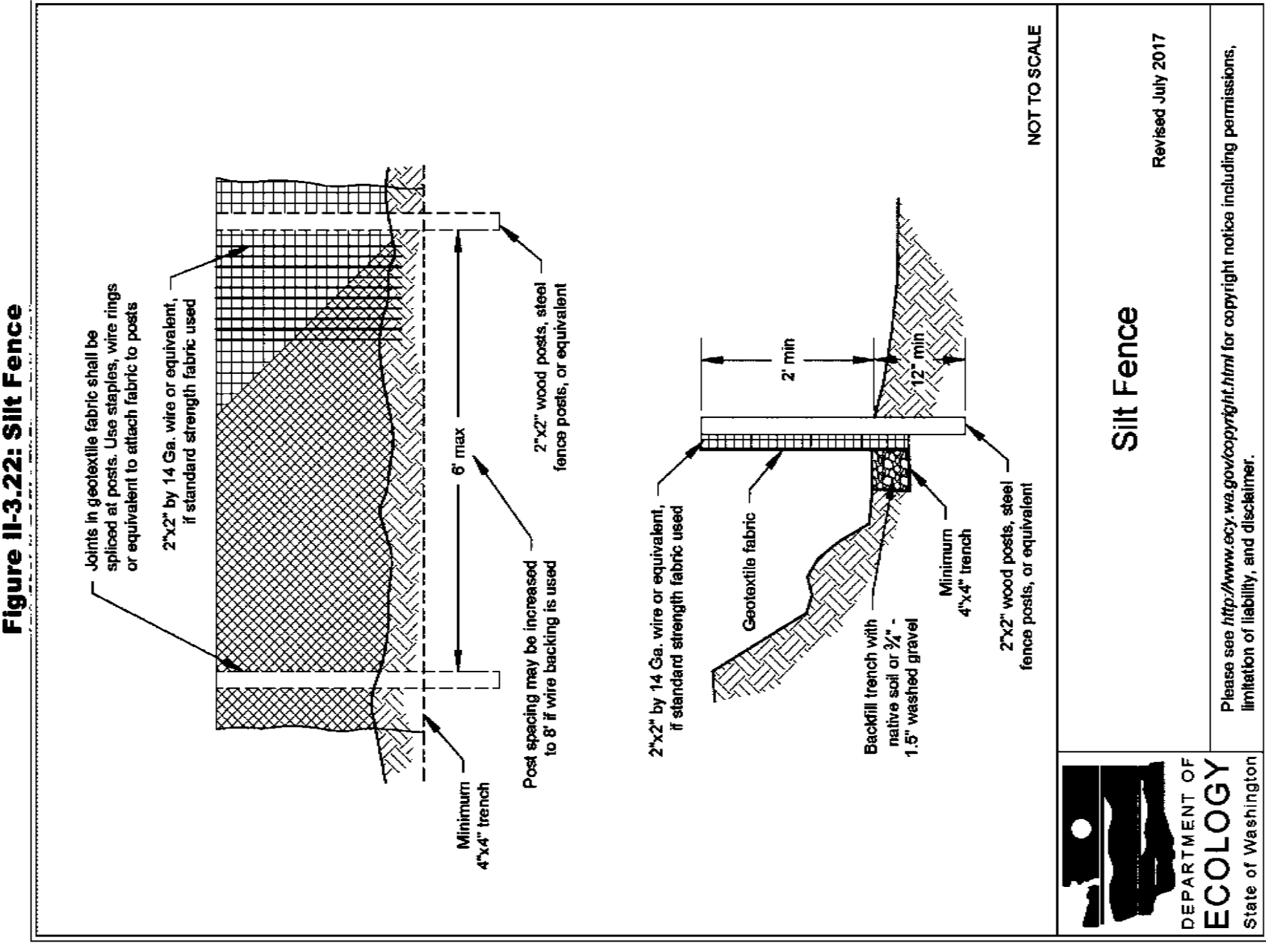


Figure II-3.22: Silt Fence

**Silt Fence**  
Revised July 2017

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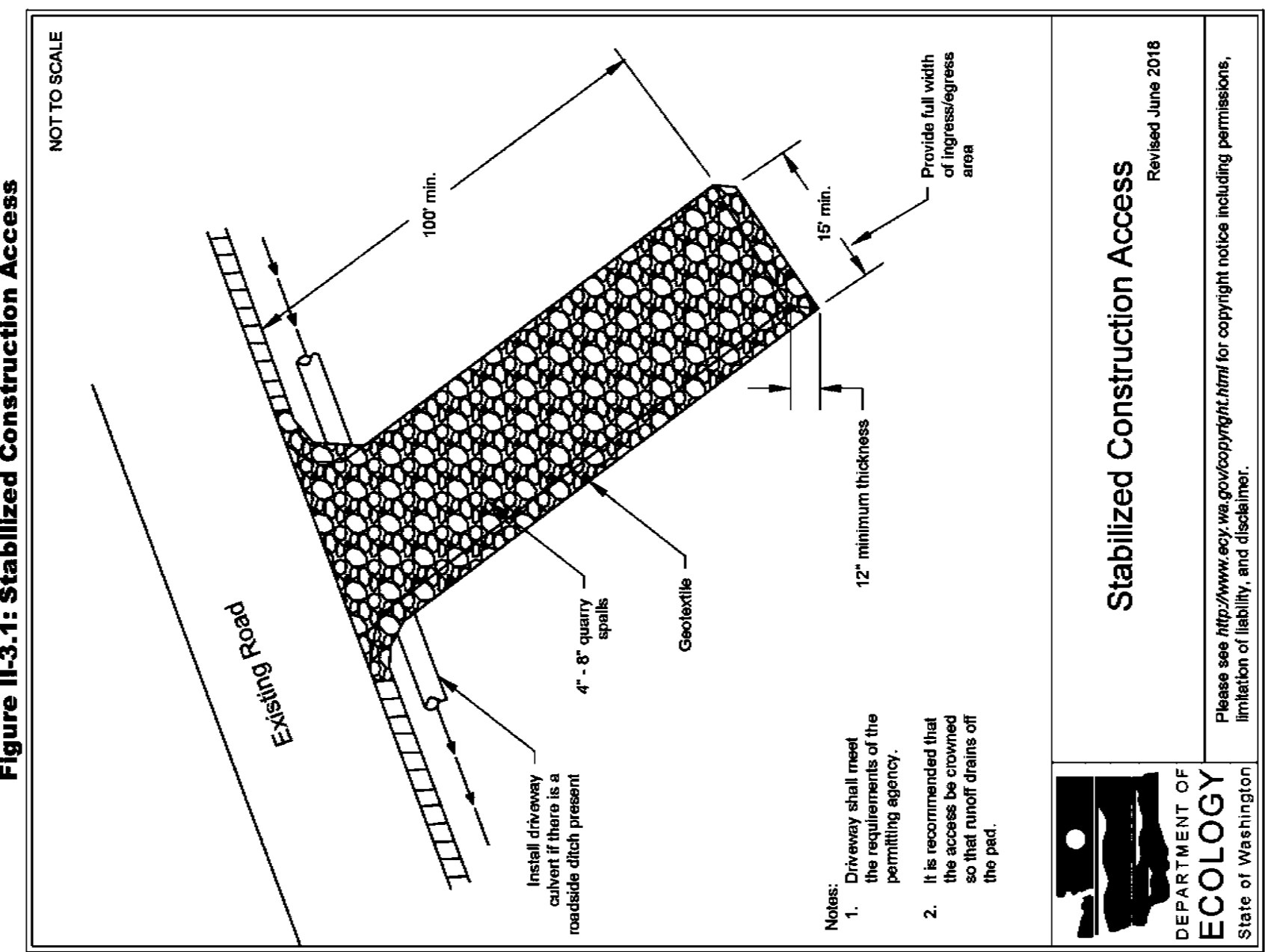


Figure II-3.1: Stabilized Construction Access

**Stabilized Construction Access**  
Revised June 2018

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TEMPORARY CONSTRUCTION ENTRANCE

NTS

SILT FENCE

NTS

- NOTES:
1. APPLY ALL EROSION CONTROL SEED MIX (TEMPORARY SEED MIX) ON 3:1 SLOPES OR LESS FOR AREAS TO VEGETATED WITH NATIVE SHRUB AND TREE SPECIES. INSTALL IN LIEU OF APPLYING HOG-FUEL MULCH.
  2. INSTALL LOW-GROWING TURF SEED MIX IN JAMES STREET PLANTING STRIP AND OTHER ON-SITE AREAS WHERE LAWN IS SPECIFIED.

- recommended mixes for both temporary and permanent seeding.
- Apply these mixes, with the exception of the seed mix, at a rate of 120 pounds per acre. This rate can be reduced if soil conditions or slow-release fertilizers are used. Apply the wet area seed mix at a rate of 60 pounds per acre.
  - Consult the local suppliers or the local conservation district for their recommendations. The appropriate mix depends on a variety of factors, including location, exposure, soil type, slope, and expected foot traffic. Alternative seed mixes approved by the local authority may be used, depending on the soil type and hydrology of the area.

Table II-3.4: Temporary and Permanent Seed Mixes

| Common Name  | Latin Name                                    | % Weight | % Purity | % Omission |
|--|---|----------|----------|------------|
| <b>Temporary Erosion Control Seed Mix</b>  |   |          |          |            |
| A standard mix for areas requiring a temporary vegetative cover.   |   |          |          |            |
| Chickpea or annual blue grass  | Festuca rubra var. commutata or Poa annua     | 40       | 98       | 90         |
| Pennine eye  | Lolium pennine                                | 50       | 98       | 90         |
| Redtop or colonial bentsgrass  | Agrostis alba or Agrostis tenuis              | 5        | 92       | 85         |
| White Dutch clover   | Trifolium repens                              | 5        | 98       | 90         |
| <b>Landscaping Seed Mix</b>  |   |          |          |            |
| A recommended mix for landscaping seed.  |   |          |          |            |
| Pennine eye blend  | Lolium pennine                                | 70       | 98       | 90         |
| Chewings and red fescue blend  | Festuca rubra var. commutata or Festuca rubra | 30       | 98       | 90         |
| <b>Low-Growing Turf Seed Mix</b>   |   |          |          |            |
| A turf seed mix for dry situations where there is no need for watering. This mix requires very little maintenance. |   |          |          |            |
| Dwarf tall fescue (several varieties)  | Festuca arundinacea var.                      | 45       | 98       | 90         |
| Dwarf perennial ryegrass (Bentley)   | Lolium pennine var. bentleyi                  | 30       | 98       | 90         |
| Red fescue   | Festuca rubra                                 | 20       | 98       | 90         |
| Colonial bentsgrass  | Agrostis tenuis                               | 5        | 98       | 90         |
| <b>Bio-stable Seed Mix</b>   |   |          |          |            |
| A seed mix for bio-stables and other intermittently wet areas.   |   |          |          |            |
| Tall or meadow fescue  | Festuca arundinacea                           | 70-80    | 98       | 90         |

NTS



SUDDEN VALLEY ROADWAY MAINTENANCE 2022  
 PROFILE-A1-A1'



5426 BARETT ROAD, SUITE A103  
 360-389-8158 WWW.BOLD-IMPACT.COM



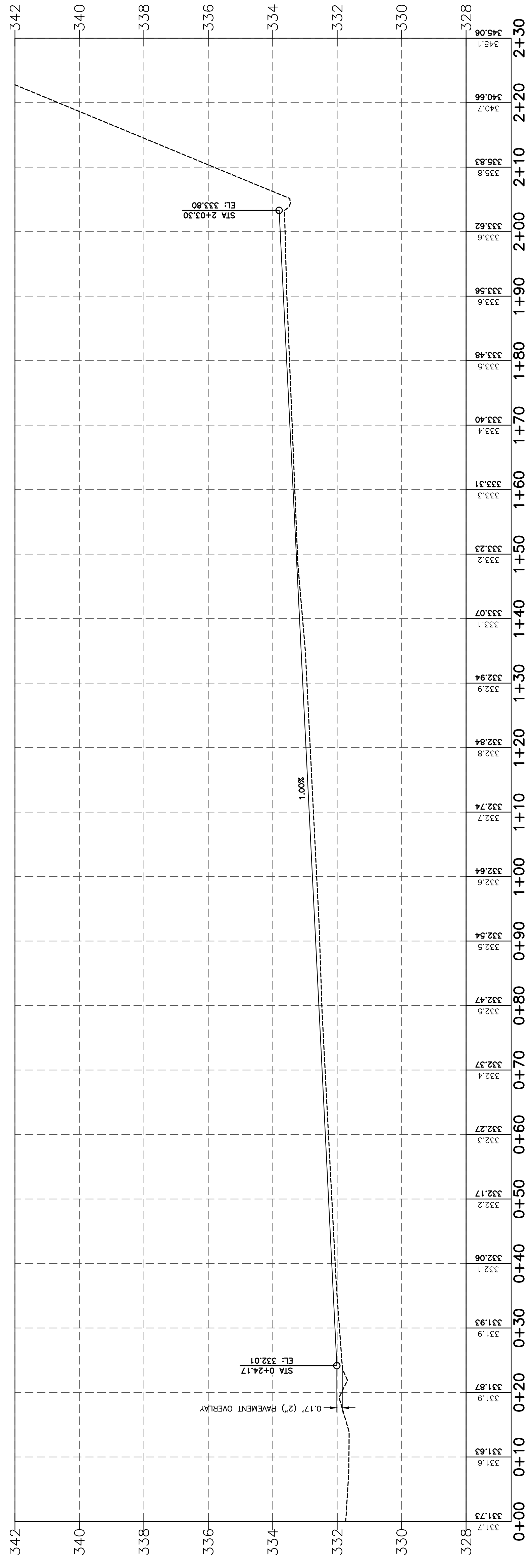
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SVCA TENNIS COURTS RESURFACING  
 PROFILE-A1-A1'  
 4 BARN VIEW DRIVE  
 BELLINGHAM, WASHINGTON 98229

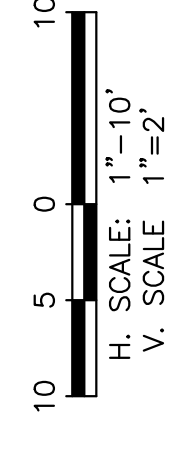
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PROJECT NUMBER:  
23001  
 DESIGNED/DRAWN BY:  
BLS  
 CHECKED BY:  
SIG  
 ISSUE DATE:  
05.09.2023

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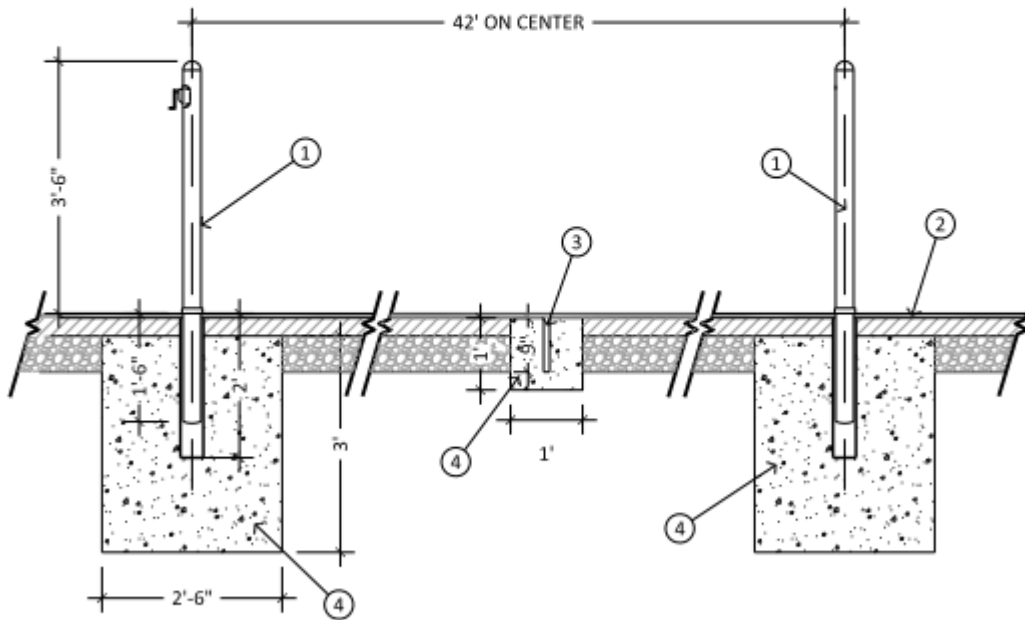


A1-A1' PROFILE





1. NET POSTS (SEC 129300)
2. TENNIS COURT SURFACE (SEC 321823)
3. CENTER ANCHOR
4. CAST-IN-PLACE CONCRETE FOOTING PER MANUFACTURERS RECCOMENDATIONS. FOOTINGS ARE 2'-6" LENGTH x 2'-6" WIDTH x 3' DEPTH. INSTALL CLASS 4000 PCC W/ AIR ENTRAINMENT



**1** TENNIS NET POST FOOTING

NTS



## SECTION 129300 - SITE SPORTS EQUIPMENT

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:
  - 1. Tennis Court Construction

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified.
- C. Samples for Initial Selection: For units with factory-applied finishes.
- D. Samples for Verification: For each type of exposed finish, not less than **6-inch- (152-mm-)** long linear components and **4-inch- (102-mm-)** square sheet components.
- E. Product Schedule: Use same designations indicated on Drawings.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For site furnishings manufactured with preservative-treated wood.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For site furnishings to include in maintenance manuals.

### PART 2 - PRODUCTS

#### 2.1 TENNIS COURT EQUIPMENT

- A. Tennis Nets

1. Manufacturer: Douglas Industries, 800.553.8907.
2. Model: No. TN-36 with side pockets and wooden dowels.
3. Quantity: One set per Court.

B. Net Posts and Sleeves

1. Manufacturer: Douglas Industries, 800.553.8907.
2. Model: DTP-37 Green, 3" O.D., with net lacing, 3/16" Steel Wall, with ground sleeves.
  - a. Include Cable and Ratchet Winch.
3. Quantity: One set per Court.

C. Line Markings for Tennis and Pickleball Courts

1. Line markings shall be Plexipave HI-Hide Plexicolor Line Paint. Apply in strict accordance with manufacturer's specifications and instructions.
2. Unless otherwise noted, tennis lines shall be white.
3. The lines shall be masked on both sides with an acceptable tape. Each measurement shall be accurately set to within 1/8" tolerance in accordance with the American Sports Builders Association (ASBA). Each court area shall be marked for doubles play.
4. All areas that have overlapped in color shall be corrected and non-appearing. All overspray in excess shall be corrected and non-appearing. No spraying shall be done with the wind factor above seven (7) mph.

## 2.2 FABRICATION

- A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.
- B. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended, so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.
- C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.
- D. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.
- E. Factory Assembly: Factory assemble components to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

## 2.3 GENERAL FINISH REQUIREMENTS

- A. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

## 2.4 STEEL AND GALVANIZED-STEEL FINISHES

- A. Powder-Coat Finish: Manufacturer's standard polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.



- B. Install site equipment level, plumb, true, and securely anchored positioned at locations indicated on Drawings.
- C. Post Setting: Set cast-in support posts in concrete footing with smooth top, shaped to shed water. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at correct angle and are aligned and at correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
- D. Posts Set into Voids in Concrete: Form or core-drill holes for installing posts in concrete to depth recommended in writing by manufacturer of site furnishings and **3/4 inch (19 mm)** larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.
- E. Pipe Sleeves: Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.
- F. Concrete for posts to be of 4000 psi compressive strength in 28 days of curing. Concrete is to be maintained at a minimum temperature of 40 degrees F during mixing, pouring, and thereafter for 24 hours.
  - 1. Comply with ACI 301.
  - 2. Allow proper curing of concrete before applying any net and goal loads.

### 3.3 PROTECTION AND INSPECTION

- A. Verify proper position and configuration of all items. Make corrections as required.
  - 1. Verify proper height of nets at court center and adequate anchorage of nets at corners.
- B. Clean work areas and dispose of all trash and debris.
- C. Clean all installed items and remove temporary protective coatings.

END OF SECTION

## SECTION 321823 ATHLETIC SURFACING SYSTEM

### ATHLETIC SURFACING SYSTEM

#### 1.1 APPLICATION

Depending upon the product used in the system, application is by 70 or 50 durometer flexible rubber squeegee, as well as by wide hair-type push brooms for finish coat application of non sand-filled materials.

#### 1.2 QUALITY ASSURANCE

- Manufacturer: Minimum 10 years experience producing athletic surfacing coatings.
- Installer: American Sports Builders Association Certified. Licensed installers, experienced and trained in the use of these products.

#### 1.3 DRYING TIME

- 30 minutes to one hour at 70 degrees with 50% relative humidity.
- Indoor applications require fans and good ventilation.
- Surface may be used for play in 24 hours after completion.

#### 1.4 COLOR RANGE

Color(s) to be selected by Architect from full range of manufacturer's available standard colors. Nine Color Standards: Light Green, Dark Green, Florida Green, California Red, Sahara Red, Pacific Blue, Cape Gray, Brown, Maroon. (Special colors are available on request.)

#### 1.5 LIMITATIONS

1. The Plexipave or equal system will not prevent pavement cracks from occurring or reoccurring.
2. Do not apply if surface temperature is less than 50 degrees or more than 140 degrees.
3. Allow asphalt to cure for a minimum of **21 days**.
4. Allow concrete to cure for a minimum of 28 days.
5. No curing agents allowed on concrete surfaces.
6. **DO NOT STORE IN HOT SUN.**
7. Apply only when ambient temperature is 50 degrees and rising.
8. Do not apply when rain is imminent.
9. After diluting with water, use mixed materials promptly.
10. Keep containers tightly closed when not in use.
11. **KEEP FROM FREEZING.**

## 1.6 THE PLEXI PAVE SYSTEM

### SURFACE COATINGS

| <u>Product</u>                        | <u>Description</u>  | <u>Specification No.</u> |
|---------------------------------------|---|--------------------------|
| <b>Plexichrome or equal</b>           | <b>Full color (9 colors) Finish Coat (Non-textured).</b>  | <b>10.1</b>              |
| Plexipave Gran Prix or equal          | Exceptionally flexible Acrylic Surface Color Coating for resilient surfaces.  | 10.32                    |
| Fortified Plexipave or equal          | ready-to-use, textured Color Finish.  | 10.2                     |
| <b>Plexipave Color Base or equal</b>  | <b>Neutral Acrylic Texture (filler coat) for job mixing with Plexichrome to make full color-in-depth surfacing.</b> | <b>10.5</b>              |
| Plexicushion or equal                 | Rubberized cushion subsurface, multi-coat system used under Plexipave.  | 10.3                     |
| Plexicushion Base Coat or equal       | Large rubber Particle Underlayment for Plexicushion.  | 10.9                     |
| <b>Plexicolor Line Paint or equal</b> | <b>Flat, high-hide 100% Acrylic Line Marking Paint-7 colors-Textured or Non-textured.</b>                           | <b>10.4</b>              |

### SURFACE PREPARATION PRODUCTS

|                                    |  |              |
|------------------------------------|--|--------------|
| <b>Acrylic Resurfacer or equal</b> | <b>Acrylic Binder for job mixing with silica sand and water for filler coat mixes.</b>                   | <b>10.8</b>  |
| Crack Filler                       | Highly flexible, high solids filler for minor cracks.  | 10.10        |
| <b>Court Patch Binder or equal</b> | <b>Concentrated Acrylic binder for mixing with silica sand and cement for patching and major cracks.</b> | <b>10.14</b> |
| Plexibond Coating or equal         | Surface primer as well as an adhesive in the Plexibond Fiberglass repair system.                         | 10.11        |
| Concrete Preparer                  | Acid pretreatment for uncoated Portland Cement Concrete.   | 10.13        |
| Ti-Coat or equal                   | Two-component water-based epoxy primer for new or old uncoated concrete.                                 | 10.17        |
| Plixipatch or equal                | High Solids, ready-to-use acrylic compound for light patching.   | 10.21        |

**\*USE SURFACE COATINGS AND SURFACE PREPARATION PRODUCTS IN BOLD**



## **2.1 STANDARD ASPHALT INSTALLATION**

### New Construction

- Level with Court Patch binder mix or Plexipatch or equal
- 2 coat Acrylic Resurfacer or equal
- 2 coats Fortified Plexipave or equal
- 2 coat finish (depending on speed of play-either Fortified Plexipave or Plexichrome or equal) (see Asphalt Spec. #10.18)

### Re-Coat

Depending on the condition of the surface,

- 1 coat of Acrylic Resurfacer or equal, (needed for courts that require extensive preparation)
- 2 or 3 coats of Fortified Plexipave..

### 2.3 APPLICATION RATES PER COAT (UNDILUTED)

|  | GALLON/SQUARE<br>YARD                         | GALLON/SQUARE<br>METER                        | YARDS/GALLONS                      | DILUTION<br>RATE             |
|--|---|---|------------------------------------|------------------------------|
| ACRYLIC<br>RESURFACER<br>OR EQUAL                              | .05-.07                                       | .06-.09                                       | 15-20                              | 2 to 1<br>10-16#<br>Sand/Gal |
| COLOR BASE<br>OR EQUAL   | .05-.07<br>Base (.03-.04)<br>Chrome (.02-.03) | .06-.09<br>Base (.03-.04)<br>Chrome (.02-.03) | <u>30 to 20 to 20 Mix</u><br>15-20 | Combined<br>3 to 2 to 2      |
| PLEXICHROME<br>OR EQUAL  | .05-.04                                       | .05-.06                                       | 20.25                              | 1 to 1                       |
| PLEXIPAVE<br>OR EQUAL  | .05-.07                                       | .06-.09                                       | 15-20                              | 2 to 1                       |
| FORTIFIED PAVE<br>(FACTORY)<br>OR EQUAL                        | .05-.07                                       | .06-.09                                       | 15-20                              | 4 to 1                       |
| JOB MIX<br>FORTIFIED (SEE<br>COLOR BASE)<br>OR EQUAL           |   |   |                                    |                              |
| PLEXICUSHION<br>OR EQUAL                                       | .1-.13  | .12-.16                                       | 8-10                               | 4 to 1                       |
| PLEXICUSHION<br>BASE COAT<br>OR EQUAL                          | .25   | .3  | 4                                  | 4 to 1                       |
| CLEAR-GLO<br>OR EQUAL  | .025  | .03   | 40                                 | 1 to 1                       |
| PLEXITRAC<br>RESURFACER<br>OR EQUAL                            | .22-.50                                       | .26-.60                                       | 2-4                                | 4 to 1                       |
| TI COAT (A&B)<br>OR EQUAL                                      | .025-.03                                      | .029-.036                                     | 33-44                              | None                         |
| CONCRETE<br>PREPARER<br>OR EQUAL                               | .01-.013                                      | .012-.016                                     | 78-100                             | 1 to 4                       |
| PLEXIBOND<br>COATING<br>PLEXIBOND<br>SYSTEM PRIMER<br>OR EQUAL | .07-.05<br>.04-.025                           | .084-.06<br>0.048-0.03                        | 15-20<br>25-40                     | 2 to 1<br>1 to 2             |

END OF SECTION

## 321823.1 RESURFACER

### RESURFACER

#### 1.1 DESCRIPTION

Acrylic Resurfacer or equal is an asbestos free, acrylic latex binder developed expressly for job mixing with silica sand to obtain a fast drying filler coat that reduces porosity in asphalt and concrete pavements. As opposed to other filler coat products, multiple applications of Acrylic Resurfacer or equal does not require rolling between coats.

**1.2 SURFACE USES:** Acrylic Resurfacer or equal may be applied over properly prepared asphalt and concrete sub-bases that are to be surfaced with the Plexipave or equal or Plexicushion or equal Surfacing System.

#### 1.3 APPLICATION

Use a 70 Durometer flexible rubber squeegee, 24", 30", 36" width.

#### 1.4 DRYING TIME

Thirty minutes to one hour under optimum outdoor temperature and humidity conditions (70 degrees F, 50% humidity). For indoor application, provide heat and air circulation to expedite drying.

#### 1.5 MIXING

A variety of sand gradations can be used depending on the surface conditions to be treated. Quantities of sand and water will vary depending on the sand gradation. When using finer gradation less sand should be used to maintain strength in the mix. For level or patching, Court Patch Binder or equal mixes should be used (see specification Section 10.14.)

#### 1.6 COVERAGE

Filler Coat: 15-20 square yards per gallons depending on surface texture and porosity (.05-.07 gals/sq. yd.)

#### 1.7 LIMITATIONS

1. Apply only when ambient temperature is 50 degrees F and rising
2. Do not apply when rain is imminent
3. Do not apply when surface temperature is less than 50 degrees F or more than 140 degrees F.
4. Do not apply over tar emulsion sealers.
5. Keep containers tightly closed when not in use.
6. Keep materials from freezing.
7. New asphalt shall be allowed to cure for at least 14 days; concrete shall cure for 28 days. Do not use curing compounds.
8. Use only with sands free clay, silt and other foreign materials.
9. The Plexipave system or equal will not prevent pavement cracks from occurring.



## PART 2 – SPECIFICATIONS

### 2.1 SCOPE

- A. This specification pertains to the application of Acrylic Resurfacer or equal over asphalt and concrete tennis courts and other recreational areas as designated in the Site Plans. The material is to be used as a filler coating to reduce surface porosity and obtain a uniform texture prior to applying the Plexipave Color Surface System or equal. Application shall be equally durable over indoor or outdoor asphalt, indoor concrete and outdoor concrete with a proper vapor barrier in place.
- B. The work shall consist of suitably cleaning and preparing the asphalt or concrete to assure a satisfactory bond of the Acrylic Resurfacer or equal Filler Mix, and the subsequent application of the quantity of material specified herein.
- C. Materials shall be delivered to the site in sealed, properly labeled containers and water used in mixing shall be fresh and clear. Coverage rates are based on manufacturer's materials prior to adding sand and mixing with water.

### 2.2 SURFACE PREPARATION

- A. Refer to the Asphalt Paving Specification for asphaltic concrete pavement and tolerances. Also see the drawings for additional details.
- B. The surface to receive the Acrylic Resurfacer or equal Mix shall be of uniform texture, clean, and free of grease, oils and other foreign materials.
- C. **Asphalt**-Allow asphalt to cure a minimum of **21 days**. Prior to the application of surfacing materials, the entire surface shall be flooded and checked for minor depressions or irregularities. Any puddle area covering a nickel shall be marked and repaired with Court Patch Binder or equal using the following mix
  1. 100 lbs of 60-80 mesh silica sand (dry)
  2. 3 gallons Plexipave Court Patch Binder or equal
  3. 1 to 2 gallons Portland Cement (dry) (depending on humidity and temperature)

A tack coat consisting of 1 part Court Patch binder or equal and 2 parts water shall be applied to the patch areas and allowed to dry thoroughly prior to repairing. For more information see California Products Specification 10.14 or 10.21.

After patching, the surface shall not vary much more than 1/8" in ten feet measured in any direction.

### 2.3 APPLICATION OF SURFACE FILLER COAT

- A. Filler Coat – The Contractor shall apply 2 filler coats in opposite directions over the entire slab. The material must be delivered to the job site in unopened containers and mixed at the job site according to the manufacturer's specifications. If an asphaltic emulsion filler is used, the filler coat shall be compacted with 3,000 pound, steel-wheeled, self-propelled roller.
- B. Application of the Acrylic Resurfacer or equal Mix shall be applied to a clean, dry, level surface using the following mix:

|                           |                 |
|---------------------------|-----------------|
| Acrylic Resurfacer        | 55 gallons      |
| Water (clean and potable) | 20-40 gallons   |
| Sand (60-80 mesh)         | 600-900 pounds  |
| Liquid Yield              | 112-138 gallons |

Use clean, dry sand and clear potable water to make mixes. Mix the ingredients throughout in a mortar box or mortar mixer. Apply the Acrylic Resurfacer or equal mix with a 70 Durometer rubber bladed squeegee on the surface with sufficient quantity to cover as the squeegee is pulled over the surface.

- B. Asphalt-Apply the Acrylic Resurfacer or equal Mix one to two coats (depending on surface porosity) at a rate of .05-.07 gallons per square yard per coat.
- D. Allow the application of Acrylic Resurfacer or equal to dry thoroughly. Scrape off all ridges and rough spots prior to any subsequent application Acrylic Resurfacer or equal or Plexipave or equal.

**END OF SECTION**

## 321823.2 ACRYLIC PATCHING SYSTEM

### ACRYLIC PATCHING SYSTEM

#### 1.1 DESCRIPTION

Court Patch Binder or equal is a high strength acrylic latex bonding liquid designed to mix with Silica Sand and Portland Cement as an easy to use patching compound. The patching mix may be used over new or existing asphalt and concrete surfaces to repair depressions, cracks, and other irregularities. Court Patch Binder or equal allows for application of quick drying leveling patches up to  $\frac{3}{4}$ " in depth.

#### 1.2 SURFACE USES:

Over new or existing asphalt and concrete pavement to correct depressions and uneven texture on:

- Tennis Courts
- Outdoor Basketball Courts
- Play Areas
- Pathways and Walks

#### 1.3 APPLICATION

- A. Use steel trowel and/or metal screed to fill and level depressions, bird baths or irregularities in tennis courts and other recreational pavement areas.
- B. Cracks greater than  $\frac{1}{4}$ " shall be filled and leveled with a square hand-trowel or broad knife by forcing the Court Patch Binder or equal filler mix into the crack and striking off excess material. Edges may be feathered using a hand trowel and damp cloth to form a smooth transition from patch to the original surface.

#### 1.4 COLOR

Neutral

#### 1.5 DRYING TIME

Applications of Court Patch Binder or equal mixes dry at various rates depending on the type of mineral aggregate, the thickness applied, and the weather conditions. Thin applications by squeegee or trowel using fine aggregate will cure and dry in less than one hour.

Thick applications (up to  $\frac{3}{4}$ ") for patching deep bird baths and rough pavement will take a minimum of six hours to dry depending on temperature and humidity conditions. Patches should be allowed to cure for 24 hours before applying the Plexipave System or equal.

### PART 2 – Court Patch Mix

#### 2.1 MIXES

- A. Depressions up to  $\frac{3}{4}$ " shall be applied by steel trowel or metal screed to level the surface to proper grade using the following mix designs.

**Thin Patches  $\frac{1}{4}$ " or Less**

100 lbs. #80-100 Mesh Silica Sand (dry)  
3 gallons Court Patch Binder or equal  
1 to 2 gallons Portland Cement (dry)  
(Minimum 12 lbs, Maximum 24 lbs.)

**Thick Patches  $\frac{1}{4}$ " or Greater**

Use 60-80 Mesh Silica Sand (dry)



Depending on temperature and humidity)

Mix in a clean mortar box or mortar mixer to a workable consistency. Thoroughly clean and apply a tack coat of 1 part Court Patch Binder or equal diluted with 2 parts water to the area to be patched. Court Patch Binder or equal mix may be applied directly to the depressed area after the tack coat has completely dried. The patch should be allowed to cure for 24 hours prior to the application of the Plexipave Color Surface System or equal.

Depressions in excess of 3/4" depth must receive multiple applications of Court Patch Binder or equal Mix, allow 24 hours before applying subsequent lifts. Each application of Court Patch mix or equal must be feathered out to a fine edge. Any rough edges must be rubbed down with an abrasive rubbing stone to remove roughness.

## 2.2 **COVERAGE**

Because of the wide variation in surface conditions, porosity and texture, the coverage figures given here are approximate and serve only as a guide:

Patching mix: 1 1/2 square yards per 100 lbs. batch laid 1/2 thick.

## 2.3 **LIMITATIONS**

1. Allow new asphalt surface **21 days** to cure and new concrete 28 days to cure.
2. Do not use in temperatures below 55 degrees F or when rain or high humidity is imminent.
3. Ambient temperature must be 55 degrees F and rising.
4. Keep containers tightly closed when not in use.
5. Do not apply if surface temperature is in excess of 140 degrees F.
6. **DO NOT ADD WATER.**
7. **KEEP FROM FREEZING. DO NOT STORE IN HOT SUN.**

**END OF SECTION**

## 321823.3 ACRYLIC LATEX COATING

### ACRYLIC LATEX COATING

#### 1.1 DESCRIPTION

Plexichrome or equal is a 100% acrylic coating, highly pigmented to provide a colorful, long lasting finish on tennis courts and other types of recreational areas. Plexichrome or equal is used in the Plexipave or equal Color Surface System on asphalt and concrete tennis courts, and it is used on light-traffic areas, such as walkways, medians and berms, as an attractive weather-resistant coating. Plexichrome or equal protects asphalt from deteriorating effects of the sun and makes black surfaces 10-15 degrees cooler.

#### 1.2 SURFACE USES

- On tennis courts, used as final finish coat over Plexipave or equal for a fast playing surface.
- Blended with Plexipave or equal Color Base or approved dry sands to make a job-mix Fortified Plexipave or equal as a colored textured coating.

#### 1.3 APPLICATION

- For Plexichrome or equal finish coat-apply with squeegee and follow immediately behind with a wide hair-type push broom.
- Fortified Plexipave or equal filler coats and finish coats are applied with a 50 Durometer rubber squeegee only.

#### 1.4 DRYING TIME

- Approximately 30 minutes to 1 hour for each coat.
- Ready to play within 24 hours.

#### 1.5 COLOR RANGE

- Color(s) to be selected by Architect from full range of manufacturer's available standard colors.
- 10 selected colors: [Light Green, Dark Green, Florida Green, Red, Sahara Sand, Pacific Blue, Cape Gray, Brown, and Maroon].

#### 1.6 COVERAGE

- Plexichrome or equal Finish: 20-25 square yards per gallon (.05-.04 gal/sq. yd.)
- Fortified Plexipave or equal : First coat- 10-15 yards per gallon (.1-.07 gal/sq. yd.)  
Second Coat-15-20 square yards per gallon (.07-.05 gal/sq. yd.)  
Third coat-20-25 square yards per gallon (.05-.04 gal/sq. yd.)

#### 1.7 LIMITATIONS

1. Apply only when ambient temperature is 50 degrees F and rising.
2. No filling properties if surface texture and porosity varies.
3. Surface should not be powdery, cracked, or deteriorated.
4. Do not use on parking lots, and areas subject to serve usage or abrasion.
5. Do not apply when rain or high humidity is imminent.
6. Keep from freezing. Do not store in the hot sun.
7. Keep containers tightly closed when not in use.
8. The Plexipave or equal system will not prevent pavement cracks from occurring.

## **PART 2 – Mix Specifications**

### **2.1 MIXES**

Various mix designs available to adapt the texture and final speed of play:

#### Fast Play-Plexichrome or equal Finish

|                      |        |
|----------------------|--------|
| Plexichrome or equal | 1 part |
| Water                | 1 part |

#### Medium Play-Fortified Plexipave or equal

|                      |            |                      |            |
|----------------------|------------|----------------------|------------|
| Color Base           | 30 gallons | Plexichrome or equal | 30 gallons |
| Plexichrome or equal | 20 gallons | *Sand(80-100 mesh)   | 240 lbs.   |
| Water                | 20 gallons | Water                | 20 gallons |

\*Sand samples shall be submitted to CPC for approval prior to use. Sand shall be free of contaminants. OSHA regulations shall be strictly followed.

### **2.2 SPECIFICATIONS PLEXICHROME or equal COLOR FINISH FOR ASPHALT**

- A. Over asphalt and concrete surfaces such as walkways, recreational play areas, or as designated in the site plans, 2-coats of Plexichrome or equal Acrylic color finish shall be applied with wide hair-type push brooms or by a rubber squeegee followed by a wide hair-type push broom. Dilution rate shall not exceed 1 part Plexichrome or equal to 1 part water.
- B. One coat shall be applied length wise on the surface and the second, laterally. The material shall be flowed-on freely, maintaining a wet edge in a continuous application to the opposite limit of the area.
- C. Over tennis court surfaces-Two coats of Fortified Plexipave or equal shall be applied over properly prepare asphalt and concrete surfaces using Plexichrome or equal in one of these specified mixes. See CPC Specifications Section 10.18-10.19 for application procedures on asphalt and concrete bases. As a finish coat, one coat of Plexichrome or equal may be applied crosswise with a rubber squeegee followed by a wide hair-type broom.
- D. The surface shall be of uniform porosity and free of any ridges or roller marks prior to application of Fortified Plexipave or equal or Plexichrome or equal. The finished surface shall be of new uniform color. All lines shall be painted with Plexicolor Line Paint or equal according to CPC Specifications Section 10.4. Solvent-type traffic paint shall not be used for line marking.
- E. Materials specified for the Plexipave or equal System shall be delivered to the site in sealed, green painted containers, properly labeled with California Products Corporation labels and stenciled with the proper batch code numbers. Products packaged or labeled in any other manner will not be accepted. Mixing with clean fresh water shall only be done at the job site. Spreading rates are based upon material prior to mixing with water as directed.

**END OF SECTION**



## 321823.4 COLOR BASE

### COLOR BASE

#### 1.1 DESCRIPTION

Plexipave or equal Color Base is an asbestos free, naturally colored texture base used for mixing with Plexichrome or equal and water to produce Fortified Plexipave or equal. By adding appropriate amounts of each, the on-the-job determination of color will lower material coats and eliminate the need for warehousing large quantities of ready to use Fortified Plexipave or equal in different colors. With its filler properties, job mixed Fortified Plexipave or equal provides a durable, uniformly textured, medium play tennis surface.

The Plexipave or equal Color Finishing system can be used on properly prepared asphalt and concrete surfaces. Outdoor concrete must be constructed with a vapor barrier under the slab and have adequate perimeter drainage.

#### 1.2 APPLICATION

Use 50 Durometer Flexible rubber squeegees for Fortified Plexipave or equal Filler Coats, and Fortified Plexipave Finish Coats or equal.

#### 1.3 DRYING TIME

- 30 minutes to one hour per coat
- A three-coat application in normal summer drying weather can often be made over a properly prepared surface in one day.
- Indoor applications require fans and good ventilation.

#### 1.4 COLOR RANGE

Neutral (Color obtained by the addition of Plexichrome or equal.

#### 1.5 COVERAGE

- First Coat: 10-15 sq. yds./gal. (.1-.07 gal/sq./yd.)
- Second Coat: 15-20 sq. yds./gal. (.07-.05 gal/sq. yd.)
- Third Coat: 20-25 sq. yds./gal. (.05-.04 gal/sq. yd.)
- Depending on surface porosity.

#### 1.6 MIXES

Fortified Plexipave or equal: A 30:20:20 mix is used to obtain Fortified Plexipave or equal using 30 gallons of Plexipave or equal Color Base, 20 gallons of Plexichrome or equal, and 20 gallons of water. Mix may be adjusted depending on the porosity of the surface and ambient temperature at the time of applications.

#### 1.7 LIMITATION

1. Apply only when ambient temperature is 50 degrees F and rising.
2. Do not apply when rain or high humidity is imminent.
3. Do not apply when surface temperature is in excess of 140 degrees F.
4. Allow asphalt to cure at least **21 days** before application
5. Allow concrete to cure 28 days. Do not use curing agents or concrete hardeners.

### PART 2 – SPECIFICATIONS

## **2.1 SCOPE**

- A. This specification pertains to the application of job-mixed Plexipave or equal Color Base and Plexichrome or equal over tennis courts and other recreational areas as designated in the Site Plans. The Material in colors indicated shall be for use over asphalt, concrete surfaces and must be equally durable over both. Special Binder and pigment content give excellent color development and durability.

## **2.2 SURFACE PREPARATION**

- A. Prior to applying this system, the net sleeves, center strap anchor and fencing shall be installed and approved by the owner.
- B. The asphalt (or concrete) surface to receive the color finish shall be clean, sound, free of grease, oils, and other foreign materials and shall be to the grade and pitch shown in the plans.
- C. Edges adjacent to buildings, curbing and landscaping not to be coated with this Color Finish System shall be adequately masked with tape or otherwise protected during these applications. The contractor shall also erect appropriate temporary barriers to protect the coatings during drying and curing periods.
- D. New asphalt should cure approximately 14 days prior to the application of surfacing materials. New concrete should cure for 28 days. Concrete shall have a wood float of broom finish. DO NOT STEEL TROWEL. DO NOT USE CURING AGENTS OR CONCRETE HARDNERS. Also, uncoated concrete surfaces must be acid washed with Concrete Preparer.
- E. Repair all ridges, cracks and birdbath prior to the application of the surfacing material (See specification 10.14.) After patching, the surface shall not vary more than +1/8 in 10 ft. measured in any direction.

## **2.3 APPLICATION OF SURFACE FILLER COAT**

- A. Asphalt-Over asphalt; apply one to two coats of Acrylic Resurfacer or equal to provide a uniformly textured surface. Allow coats to thoroughly dry before the application of subsequent coats.

## **2.4 COLOR COAT APPLIATION**

- A. Over new asphalt or concrete surfaces that have been properly prepared, apply two coats of job mixed Fortified Plexipave or equal using a mix of Plexipave or equal Color Base and Plexichrome or equal (ColorBase:20 gallons; Plexichrome or equal: 20 gallons;

Water 20-22 gallons). All work shall be done by experienced, carefully trained workmen. The first coat shall be applied lengthwise of the court and the second coat, crosswise of the court.

- B. The final finish coat shall be either Plexichrome or equal or Job Mix Fortified Plexipave or equal. For a Plexichrome or equal finish, mix 1 part Plexichrome or equal, 1 part of water and apply with a wide hair-type broom crosswise of the court.

For Job Mix Fortified Plexipave or equal use a mix of Plexipave or equal Color Base and Plexichrome or equal (Color Base: 30 gallons; Plexichrome or equal: 20 gallons; water: 20-22 gallons) The application shall be made crosswise of the court using a 50 durometer flexible rubber squeegee.

- C. White lines conforming to U.S. Tennis Association specifications shall be laid-out and Plexicolor Line Paint or equal (100% acrylic latex) applied by brushing using masking tape or templates

### **PART 3 – GENERAL**

#### **3.1 GENERAL**

- A. Materials specified for the Color Finish System or equal shall be delivered to the site in sealed, properly labeled containers and water used in mixing shall be fresh and clear. Coverage rates are based upon manufacturer's material prior to mixing with water.
- B. Upon completion, the contractor shall remove all containers, surplus materials and debris and leave the site in a clean and orderly condition acceptable to the owner. Gates shall be secured.

**END OF SECTION**

## 32 18 23.5 LINE PAINT

### LINE PAINT

#### 1.1 DESCRIPTION

- A. High reflective marking paint for use over any bituminous surface or color coating system in recreational or light traffic areas. The finished application is non-glaring, highly resistant to climatic conditions, fast drying, easily applied and provides excellent hiding. Plexicolor Line Paint or equal will not cause crazing, cracking, peeling, or deterioration to asphalt that is typical of solvent-type traffic paints. Also available as a texture line paint coating fine silica fillers.

#### 1.2 SPECIAL USES: Asphalt and color-coated concrete surfaces.

- Tennis Courts
- Play Areas
- Asphalt Shingles
- Curbs and Berms
- Running Tracks
- Parking Lots
- Restricted Travel Roadway (not subject to wet abrasion)

#### 1.3 DESCRIPTION

- Brush
- Roller
- Spray and Marking Equipment
- Airless Spray

#### 1.4 DRYING TIME

30 minutes to one hour- 1 coat

#### 1.5 COLOR RANGE

Color(s) to be selected by Architect from full range of manufacturer's available standard colors. [White, Yellow, Red, Blue, Green, Orange, Black]

#### 1.6 COVERAGE

Approximately 150-200 square feet per gallon.  
(One gallon generally required for one doubles tennis court, 481 linear feet – 2" wide).

#### 1.7 LIMITATIONS

1. Apply only when ambient temperature is 50 degrees F and rising.
2. Do not apply when rain or high humidity is imminent.
3. Not for application on general use roadways subjected to skidding tires, snowplows, or chains.
4. Keep from freezing. Do not store in hot sun.
5. Keep containers tightly closed when not in use.
6. Do not apply when surface temperature is less than 50 degrees F or more than 140 degrees F.
7. Allow asphalt to cure at least **21 days**.

### PART 2 – SPECIFICATIONS

#### 2.1 LINE PAINT SPECIFICATIONS



The Line Paint, as designated on drawings and in specifications, for use over asphaltic and tar emulsion surfaces including slurry coats, shall conform to the following characteristics and performance:

- A. The paint shall be a 100% acrylic emulsion type containing no alkyds, butadiene styrene, or vinyls and shall be thinned with water only. The paint shall also be suitable for application by brush, spray, or roller.
- B. All materials used in the manufacturing of paint shall be of good commercial quality entirely suitable for the purpose intended under normal conditions of use. For white color, the opaque portion of the pigment shall be rutile titanium dioxide and the vehicle shall consist of 100% acrylic polymer dispersed in water together with the minimum amounts of necessary additives; such as pigmented dispersants, anti-foaming agents, and preservatives; but no driers shall be used.
- C. The white paint shall meet a minimum requirement of total solids (percent by weight of paint) of 51.5% and maximum pigment content (percent by weight of paint) of 36%. The white paint shall contain not less than three pounds per gallon of treated rutile titanium dioxide. A minimum fineness of grind of 4 and a viscosity (Krebs Units) of 80 minimum and 95 maximum is required. The paint shall brush easily and have good flowing, leveling, and spreading characteristics and shall be suitable for application by spray equipment or rollers.
- D. This paint shall be suitable for use over all types of bituminous surfaces and when applied over emulsified asphalt, it shall not cause lifting, crazing, peeling, or other damage to the base.

**END OF SECTION**



**EXEMPTION FROM THE SHORELINE MANAGEMENT PROGRAM  
SUBSTANTIAL DEVELOPMENT PERMIT REQUIREMENT**

**SHX2023-00054**

- Applicant:** Sudden Valley Community Association  
c/o PNW Services, Inc.  
PO Box 30498  
Bellingham, WA 98228
- Project Description:** Repair of existing sports court in same footprint
- Project Location(s):** 10 Barn View Ct., Bellingham  
Section 08, Township 37N, Range 04E W.M.
- Parcel Number:** 370408318457
- Adjacent Water Body:** Austin Creek
- Shoreline Designation:** Urban
- SEPA:** Categorically Exempt per WAC 197-11-800 –  
3 - Repair, Remodeling and Maintenance

Pursuant to the Whatcom County Shoreline Management Program (SMP), Title 23, Section 23.60.022(B) allows for the maintenance and repair of lawfully established structures without the need for a Shoreline Substantial Development Permit if done to restore a development to a state comparable to its original condition within a reasonable period after decay or partial destruction except where repair causes substantial adverse effects to the shoreline resource or environment. Such repair can be in the form of complete replacement where such replacement is the common method of repair for the type of structure or development and the replacement structure is comparable to the original structure or development including but not limited to its size, shape, configuration, location and external appearance and the replacement does not cause substantial adverse effects to the shoreline resources or the environment.

It has been determined that the proposal is consistent with the above-referenced exemption and qualifies for review without the need to obtain a shoreline substantial development permit.

Note that an exemption from the substantial development permit process is not an exemption from compliance with shoreline regulations, or from any other regulatory

requirement. To be authorized, all uses and developments must be consistent with the policies and regulatory provisions of the SMP and the Washington State Shoreline Management Act (SMA). The Administrator may attach conditions to the approval of exempt developments and/or uses as necessary to assure consistency of the project with applicable shoreline regulations.

**The requested Shoreline Exemption is approved subject to the attached conditions.** Note that pursuant to WCC 23.60.150, a party with standing may be entitled to appeal this decision to the office of the Hearing Examiner. The application for appeal from the Shoreline Administrator's decision may be obtained at the PDS Office or online at <https://www.whatcomcounty.us/920/Applications-FormsLinks>. Such an appeal shall be filed within twenty (20) calendar days of this determination.

**Official: Andrew Hicks**  
**Title: Shoreline Administrator**

A handwritten signature in black ink, appearing to read "Andrew Hicks", is enclosed within a thin black rectangular border.

**Approved: June 1, 2023**

## CONDITIONS ASSOCIATED WITH SHX2023-00054

**S100.** The proposed work shall be consistent with the scope of the application materials provided and consistent with the site plan stamped "Site Plan Review Approval" and initialed by the Shoreline Administrator on June 1, 2023. Any changes will require additional review by the Whatcom County Shoreline Administrator.

**S101.** The sports court must be replaced within the same footprint, and shall not be any closer to Austin Creek than the existing court.

**S101.** Natural drainage patterns shall be maintained and discharges from the site shall occur at the natural location, unless it can be shown that relocation will have no significant adverse impact to either built or natural systems as a result of the relocation. (WCC20.80.634(1)(e))

**S101.** Proper Erosion Control measures shall be installed prior to any land alteration and maintained throughout the entire land disturbance / construction process. Any evidence of sedimentation shall be controlled and kept on site.

**S101.** Water from foundation excavation area shall not be pumped or directed offsite to any storm drain, ditch, or regulated Critical Area.

**S102.** Issuance of this shoreline permit does not release the applicant from any other Local, State, regional or Federal statutes or regulations applicable to the proposed development.

**S104.** The project shall not result in significant degradation of ground or surface waters and shall be completed during periods of dry weather.

**S105.** All construction debris shall be removed from the shoreline environment upon completion of the project and disposed of in accordance to all applicable regulations.

**S106.** Washington State Department of Ecology Water Quality Standards shall be maintained.

**S107.** The proposal must comply with all bulk and dimensional setback requirements as required by the Whatcom County Shoreline Management Program and the Whatcom County Zoning Code.

**S108.** Best Management Practices (BMPs) will be required in order to address any construction related impacts to water quality, the shoreline, and/or existing habitat.

**S109.** Construction shall be commenced within two (2) years of the effective date of this shoreline permit, and shall be completed in five (5) years. The Shoreline Administrator may grant a single extension for a period of not more than one (1) year based on a showing of good cause. Such request must be filed with the Shoreline Administrator before the expiration date described above.



**S110.** Should archaeological resources (e.g. shell midden, faunal remains, stone tools) be observed during project activities, all work in the immediate vicinity should stop, and the area should be secured. The Washington State Department of Archaeology and Historic Preservation (Local Government Archaeologist 360-586-3088) and the Lummi Nation Tribal Historic Preservation Office (Lena Tso, THPO 360-312-2257; Tamela Smart, Deputy THPO 360-312-2253) should be contacted immediately in order to help assess the situation and to determine how to preserve the resource(s). Compliance with all applicable laws pertaining to archaeological resources is required. If ground disturbing activities encounter human skeletal remains during the course of construction, then all activity will cease that may cause further disturbance to those remains. The area of the find will be secured and protected from further disturbance. The finding of human skeletal remains will be reported to the county medical examiner/coroner and local law enforcement in the most expeditious manner possible. The remains will not be touched, moved, or further disturbed. The county medical examiner/coroner will assume jurisdiction over the human skeletal remains and make a determination of whether those remains are forensic or non-forensic. If the county medical examiner/coroner determines the remains are non-forensic, then they will report that finding to the Department of Archaeology and Historic Preservation (DAHP) who will then take jurisdiction over the remains. The DAHP will notify any appropriate cemeteries and all affected tribes of the find. The State Physical Anthropologist will make a determination of whether the remains are Indian or Non-Indian and report that finding to any appropriate cemeteries and the affected tribes. The DAHP will then handle all consultation with the affected parties as to the future preservation, excavation, and disposition of the remains.

**S601.** No more than 500 sq. ft. of soil in total shall be exposed from October 1 through May 31 in the Lake Whatcom, Lake Samish, and Lake Padden Watersheds.

**S602.** All exposed soils shall be covered within 48 hours. After construction is complete, all disturbed soils shall be permanently stabilized.

**S603.** Revegetation of areas disturbed is the preferred method of stabilization. All revegetation within buffers shall be native.



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

www.suddenvalley.com

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Jo Anne Jensen, General Manager  
**Date:** February 22, 2024  
**Subject:** Capital Request – 2024 Road & Drainage Construction

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### Purpose

To request construction funding for 2024 Road & Drainage projects.

### Background

On August 10, 2023 Sudden Valley Community Association (SVCA)'s Board of Directors approved capital code 9923.5 to proceed for designing and permitting the 2024 Road & Drainage project. Design and permitting will be finished this month, and this capital request is for construction funding. SVCA's 2024 budget included \$234,000 for Deer Run Lane Asphalt Overlay, and an additional \$624,000 to replace 48 culverts. Combined, these projects total \$858,000. In addition, SVCA carried \$354,759 forward from 2023's road budget. This provides SVCA with a total of \$1,212,759 to be used towards the 2024 Road & Drainage projects.

### Analysis

SVCA proposes to complete the following projects within this overall funding request:

- \$1,018,836.11 is requested for Deer Run Lane asphalt improvements and replacement of 53 culverts per PNW's summary dated February 8, 2024.
- \$30,000 to complete the Cold Spring Drainage Repair that has been designed and permitted under capital code 9922.8. This project was expected to complete in 2023 but delayed due to permitting.
- \$15,000 to renew SVCA's Programmatic Permit with Whatcom County per Impact Design's proposal dated 2-8-24.
- \$15,000 to renew SVCA's 5-year permit with Whatcom County for maintaining the gravel surfaces at the marina parking lot, clubhouse parking lot, and trail around Lake Louis. This budget is based on Impact Design's proposal for renewing the programmatic permit plus a 50% contingency as the proposal hasn't been received yet.
- \$67,880.16 Contingency as identified on PNW's proposal.

### Proposal

Authorize \$1,018,836.11 from Roads per PNW's summary dated February 8<sup>th</sup>, 2024 for Deer Run Lane and replacement of 53 culverts.

Authorize \$30,000.00 from Roads for completing Cold Spring Drainage Improvements.



# Sudden Valley Community Association

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[www.suddenvalley.com](http://www.suddenvalley.com)

Authorize \$30,000 for the renewal of 5-year Programmatic Permit, and renewal of 5-year permit with Whatcom County for allowance to maintain gravel surfaces at 3 locations per PNW's summary dated February 8<sup>th</sup>, 2024.

Authorize \$34,119.05 from Roads as contingency per PNW's summary dated February 8<sup>th</sup>, 2024.

## **Motion 1**

Move that the SVCA Board of Directors approve the allocation of \$1,018,836.11 from 2024 Capital Budget for Roads per PNW's summary dated February 8, 2024 for Deer Run Lane and replacement of 53 culverts.

## **Motion 2**

Move that the SVCA Board of Directors approve the allocation of \$30,000.00 from 2024 Capital Budget for Roads for completing Cold Spring Drainage Improvements.

## **Motion 3**

Move that the SVCA Board of Directors approve the allocation of \$30,000 from the 2024 Capital Budget for Roads for the renewal of 5-year Programmatic Permit, and renewal of 5-year permit with Whatcom County allowance maintenance of gravel surfaces at 3 locations per PNW's summary dated February 8<sup>th</sup>, 2024.

## **Motion 4**

Move that the SVCA Board of Directors approve the allocation of \$34,119.05 from 2024 Capital Budget for Roads as contingency per PNW's summary dated February 8<sup>th</sup>, 2024, and authorize the Maintenance & Facilities Manager to direct these funds.



February 8, 2024

Sudden Valley Community Association  
Attn: Michael Brock  
4 Clubhouse Circle  
Bellingham, WA 98229

RE: Project Scope Letter  
**2024 Road & Drainage Project**

PNW is providing this overall project scope letter to SVCA for the 2024 Road and Drainage project. This project was approved on 8-10-23 to have design and permitting take place under capital code 9923.5. Design and permitting is wrapping up this month, and this capital request is requesting construction funding for the proposed projects. SVCA's 2024 budget identifies \$858,000.00 available in funds plus an additional \$354,759.00 that was carried forward from the 2023 Road's budget for a combined total of \$1,212,759.00. The initial 2024 budget assumed asphalt repairs and overlay to Deer Run Lane, and replacing 48 culverts. The carry over funds from 2023 are intended to cover the following additional items:

- Culvert #4 design and permitting for replacement with a bridge in 2025.
- Construction to complete the Cold Spring Drainage Repair designed and permitted under capital code 9922.8.
- 5 additional culverts identified by Impact Design for replacement in 2024.
- Renewing SVCA's 5-year Programmatic Permit with Whatcom County.
- Renewing SVCA's 5 year permit with Whatcom County that allows gravel surfaces to be maintained at the marina parking lot, clubhouse parking lot, and Lake Louis Trail.
- Contingency funds for construction if bid prices exceed the preliminary budget allowances.

The following is a budget summary of each project proposed:

- \$250,261.11 – Deer Run Lane – This budget was provided by Impact Design to repair existing asphalt defects, and then overlay the road. This project models what SVCA completed at Cascade Lane and Green Hill in 2022. Reference attached engineer's estimate dated 2-8-24.
- \$724,450.00 – Replace 53 culverts identified on the attached spreadsheet provided by Impact Design.
- \$99,803.84 – Culvert #4 design and permitting. This scope of work has been submitted under a separate capital request, but is funded as part of the 2023 carryover allowance.
- \$30,000.00 – Construction of the Cold Spring Drainage Repair that was designed under capital code 9922.8. This project was originally scheduled to be completed in 2023, but was delayed due to permit approvals. Permit approvals are expected this spring, and this project is proposed to be part of this year's project.
- \$15,000.00 – Renewal of SVCA's Programmatic permit with Whatcom County per Impact Design's proposal dated 2-8-24. This is a 5-year permit that allows SVCA to complete simple projects under just a Notice of Activity (NOA) permit. This





significantly streamlines the permit process for SVCA, and saves a substantial amount of time and expense each year. A few examples of simple projects this permit covers:

- Road repairs with full asphalt replacement less than 1,500SF.
- Asphalt repairs consisting of grinding and patching or asphalt overlay projects.
- Culvert replacements not adjacent to creeks, wetlands, etc.
- Culvert cleaning and ditching maintenance.
- \$15,000.00 – Renewal of SVCA’s 5-year permit with Whatcom County that allows the gravel surfaces to be maintained at the marina parking lots, clubhouse parking lot, and Lake Louis Trail. A proposal from Impact Design hasn’t been received. This budget allowance matches the Programmatic permit renewal estimate as the scope of work is similar.
- The balance of funds is proposed to be contingency if construction costs exceed the preliminary budgets. If any of the contingency is remaining after these projects are completed in 2024, it is recommended that money either be used to complete additional ditching improvements required, be used to replace additional culverts in 2024, or carry forward towards SVCA’s 2025 road and drainage project.

Summary of anticipated costs:

|  |                       |
|--|-----------------------|
| <b>2024 Road &amp; Drainage Projects</b>   |                       |
| - Deer Run Lane Asphalt Improvements per Impact Designs engineer’s estimate dated 2-8-24.  | \$250,261.11          |
| - Replacement of 53 culverts per Impact Designs attached spreadsheet.  | \$724,450.00          |
| - PNW Services Inc. – Construction management of Deer Run Lane and replacement of 53 culverts per attached spreadsheet.                        | \$37,125.00           |
| - Impact Design Allowance – Paint asphalt repair locations prior to overlay, and answer any construction questions.                            | \$3,000.00            |
| - Testing Allowance – Asphalt overlay installation.  | \$4,000.00            |
| <b>Subtotal – Deer Run Lane &amp; Culvert Replacements</b>   | <b>\$1,018,836.11</b> |
|  |                       |
| - Culvert #4 Design & Permitting – This is covered under a separate capital request, and no funding is needed as part of this capital request. | \$0.00                |
| - Cold Spring Drainage Repair – Allowance carried forward from 2023.   | \$30,000.00           |
| - Renewal of 5-Year Programmatic Permit per Impact Design’s proposal dated 2-8-24.   | \$15,000.00           |
| - Renewal of 5-Year permit with Whatcom County to maintain gravel surfaces at 3 locations identified above.                                    | \$15,000.00           |
| <b>Subtotal of Other 2024 Projects</b>   | <b>\$60,000.00</b>    |
|  |                       |
| <b>Total of Proposed Projects</b>  | <b>\$1,078,836.11</b> |



|  |                       |
|--|-----------------------|
| Contingency Balance – Combined 2023 and 2024 Funds Available<br>\$1,212,759.00 less \$99,803.84 for Culvert #4 less 2024 Proposed Projects<br>\$1,061,336.11 | \$34,119.05           |
| <b>Total Capital Request</b>   | <b>\$1,112,955.16</b> |

Please let me know if you have any questions, or if you would like any further information.

Sincerely,

Tyler Andrews  
President

## Deer Run Lane Roadway Repair and Maintenance

### Engineer's Estimate

February 8, 2024



Estimate Prepared by:  
**Impact Design, LLC**  
 5426 Barrett Road, Suite A103  
 Ferndale, WA 98248  
 Phone: (360) 389-8138

Client:  
 Tyler Andrews  
 PNW Services, Inc.  
 PO Box 30498  
 Bellingham, WA 98228

|                           |   | ESTIMATED CONSTRUCTION COST |      |             |                     |
|---------------------------|---|-----------------------------|------|-------------|---------------------|
| NO.                       | ITEM  | QUANTITY                    | UNIT | UNIT COST   | TOTAL               |
| <b>Construction Costs</b> |   |                             |      |             |                     |
| 1                         | MOBILIZATION  | 1                           | L.S. | \$19,000.00 | \$19,000.00         |
| 2                         | PROJECT TEMPORARY TRAFFIC CONTROL                       | 1                           | L.S. | \$20,000.00 | \$15,000.00         |
| 3                         | REMOVAL OF STRUCTURES AND OBSTRUCTIONS INCL. SAWCUTTING | 1                           | L.S. | \$4,600.00  | \$4,600.00          |
| 4                         | BITUMINOUS GRINDING                                     | 1100                        | S.Y. | \$30.00     | \$33,000.00         |
| 5                         | ROADWAY EXCAVATION INCL. HAUL                           | 60                          | C.Y. | \$90.00     | \$5,410.00          |
| 6                         | HMA CL 1/2-IN PG 64-22                                  | 521                         | TON  | \$200.00    | \$104,147.50        |
| 7                         | RAISE CASTING TO GRADE                                  | 10                          | EA.  | \$500.00    | \$5,000.00          |
| 8                         | MINOR DRAINAGE IMPROVEMENTS ALONG ROADWAY SHOULDER      | 1                           | L.S. | \$10,000.00 | \$10,000.00         |
| 9                         | TEMPORARY EROSION AND SEDIMENT CONTROL                  | 1                           | L.S. | \$5,000.00  | \$5,000.00          |
| 10                        | PROJECT SURVEY SUPPORT                                  | 1                           | L.S. | \$9,500.00  | \$9,500.00          |
| <i>Subtotal</i>           |   |                             |      |             | <i>\$210,657.50</i> |
| <i>Tax @ 8.8%</i>         |   |                             |      |             | <i>\$18,537.86</i>  |
| <i>10% Contingency</i>    |   |                             |      |             | <i>\$21,065.75</i>  |
| <b>PROJECT TOTAL</b>      |   |                             |      |             | <b>\$250,261.11</b> |



2-8-2024

| Culvert ID | Zone Number | Approximate Address        | Culvert Length (ft.) | Culvert Diameter (in.) | Culvert Material | Estimated Cost |
|------------|-------------|----------------------------|----------------------|------------------------|------------------|----------------|
| 403        | Zone 9      | 230 Polo Park Dr           | 59                   | 18                     | CMP              | \$ 14,750.00   |
| 404        | Zone 9      | 230 Polo Park Dr           | 79                   | 18                     | CMP              | \$ 19,750.00   |
| FND67      | Zone 1      | Gate 1 Mailbox Entrance    | 39                   | 12                     | CMP              | \$ 7,800.00    |
| FND 68.2   | Area Z      | Maintenance Parking        | 12                   | 12                     | CPP              | \$ 2,400.00    |
| FND 68.3   | Area Z      | Maintenance Parking        | 90                   | 12                     | PVC/ CPP         | \$ 18,000.00   |
| FND 68.4   | Area Z      | Btwn Maintenance/Tall Barn | 40                   | 12                     | CPP              | \$ 8,000.00    |
| FND 68.1   | Area Z      | Toward Community Garden    | 37                   | 12                     | CMP              | \$ 7,400.00    |
| FND 21.2   | Zone 3A     | Newberry Ct                | 27                   | 18                     | CMP              | \$ 6,750.00    |
| 205        | Zone 3A     | 15 Spring Rd               | 40                   | 24                     | CMP              | \$ 10,000.00   |
| 176        | Zone 3B     | 24 Lost Fork Ln            | 50                   | 12                     | CMP              | \$ 10,000.00   |
| 432 433    | Zone 3B     | 13 Strawberry Cyn Ct       | 46                   | 18                     | CMP              | \$ 11,500.00   |
| 402        | Zone 3B     | 7 Lost Fork Ln             | 39                   | 24                     | CMP              | \$ 9,750.00    |
| 103        | Zone 3C     | 142 Harbor View Dr         | 42                   | 24                     | CMP              | \$ 10,500.00   |
| 99         | Zone 3C     | 28 Plum Ln                 | 51                   | 12                     | CMP              | \$ 10,200.00   |
| 214        | Zone 3C     | 46 Maple Ct                | 67                   | 18                     | CMP              | \$ 16,750.00   |
| 122        | Zone 3D     | 2 Rocky Ridge Dr           | 29                   | 18                     | CMP              | \$ 7,250.00    |
| 117        | Zone 3D     | 54 Harbor View Dr          | 35                   | 18                     | CMP              | \$ 8,750.00    |
| FND 30     | Zone 3D     | 99 Harbor View Dr          | 39                   | 18                     | CMP              | \$ 9,750.00    |
| 111        | Zone 3D     | 113 Harbor View Dr         | 40                   | 18                     | CMP              | \$ 10,000.00   |
| 109        | Zone 3D     | 55 Green Hill Rd           | 41                   | 18                     | CPP/CMP          | \$ 10,250.00   |
| 120        | Zone 3D     | 10 Harbor View Dr          | 42                   | 18                     | CMP              | \$ 10,500.00   |
| 118        | Zone 3D     | 46 Harbor View Dr          | 43                   | 18                     | CMP              | \$ 10,750.00   |
| 110        | Zone 3D     | 125 Harbor View            | 52                   | 18                     | CMP              | \$ 13,000.00   |
| 39         | Zone 9      | 8 Horseshoe Cir            | 34                   | 12                     | CMP              | \$ 6,800.00    |
| 27         | Zone 13     | 66 Polo Park Dr            | 39                   | 12                     | CMP              | \$ 7,800.00    |
| 20         | Zone 13     | 168 Polo Park Dr           | 42                   | 12                     | CPP/CMP          | \$ 8,400.00    |
| 55         | Zone 13     | 5 River Ridge Loop         | 45                   | 12                     | CMP              | \$ 9,000.00    |
| 78         | Zone 13     | 29 Sunnyside Ln            | 50                   | 18                     | CMP              | \$ 12,500.00   |
| 1          | Zone 13     | 150 Polo Park Dr           | 54                   | 18                     | CMP              | \$ 13,500.00   |
| 25         | Zone 13     | 3 Huckleberry Ct           | 60                   | 24                     | CMP              | \$ 15,000.00   |
| 431        | Zone 13     | 29 Lost Lake Ln            | 75                   | 18                     | CMP              | \$ 18,750.00   |
| 13         | Zone 5      | 18 Big Leaf Ln             | 60                   | 24                     | CMP              | \$ 15,000.00   |
| 157        | Zone 1      | 5 North Point Dr           | 30                   | 12                     | Green PVC/CM     | \$ 6,000.00    |
| 144        | Zone 1      | 26 Longshore Ln            | 31                   | 12                     | CMP              | \$ 6,200.00    |
| 155        | Zone 1      | 83 Windward Dr             | 35                   | 12                     | CMP              | \$ 7,000.00    |
| FND 49     | Zone 1      | 17 Marina Dr               | 40                   | 12                     | CMP              | \$ 8,000.00    |
| 139        | Zone 1      | 17 Clear Lake Ct           | 40                   | 12                     | CMP              | \$ 8,000.00    |
| FND 53     | Zone 1      | 142 Windward Dr            | 41                   | 12                     | CMP              | \$ 8,200.00    |
| 142        | Zone 1      | 65 Windward Dr             | 45                   | 12                     | CMP              | \$ 9,000.00    |
| 415        | Zone 1      | 28 Windward Dr             | 53                   | 12                     | CMP              | \$ 10,600.00   |
| FND 48     | Zone 1      | 20 Par Ln                  | 55                   | 12                     | CMP              | \$ 11,000.00   |
| FND 45     | Zone 2      | 23 Sunflower Cir           | 20                   | 12                     | CMP              | \$ 4,000.00    |
| 75         | Zone 2      | 43 Marigold Dr             | 40                   | 12                     | CMP              | \$ 8,000.00    |
| 203        | Zone 2      | 14 Lake Louise Dr          | 61                   | 18                     | CMP              | \$ 15,250.00   |
| 63         | Zone 2      | 52 Lake Louise Dr          | 70                   | 18                     | CMP              | \$ 17,500.00   |
| 143        | Zone 1      | 26 Longshore Ln            | 82                   | 12                     | CMP              | \$ 16,400.00   |



|        |         |                            |      |            |               |
|--------|---------|----------------------------|------|------------|---------------|
| 133    | Zone 3C | 4 North Summit Dr          | 83   | 24 CMP     | \$ 20,750.00  |
| FND 62 | Zone 2  | 3 Barn View Ct             | 83   | 12 CMP     | \$ 16,600.00  |
| 410    | Zone 2  | 22 Lake Louise Dr          | 120  | 12 CMP     | \$ 24,000.00  |
| 126    | Zone 3D | 1 Sudden Valley Dr         | 120  | 18 CMP/PPP | \$ 30,000.00  |
| 445    | Zone 2  | 20 Lake Louise Dr (Outlet) | 200  | 12 CMP     | \$ 40,000.00  |
| FND 42 | Zone 2  | 6 Lake Louise Dr           | 254  | 12 CMP     | \$ 50,800.00  |
| FND 61 | Zone 2  | 37-30 Marigold Dr          | 283  | 12 CMP     | \$ 56,600.00  |
| Totals |         |                            | 3284 |            | \$ 724,450.00 |

Sudden Valley Community Association  
**2024 Road & Drainage Project**

PNW Estimate - Bid Package, Permitting, and Construction Management

| Task                    | Description   | Hours                  | Estimated Cost |
|-------------------------|---|------------------------|----------------|
| Design Oversight        | Completed under separate proposal.  | 0                      |                |
|                         |   |                        |                |
|                         |   |                        |                |
|                         | <b>Total Estimated Design Oversight Hours</b>   | 0                      | \$ -           |
| Permitting              | Completed under separate proposal.  | 0                      |                |
|                         |   |                        |                |
|                         | <b>Total Estimated Permitting Cost</b>  | 0                      | \$ -           |
| Contractor Bids         | Completed under separate proposal.  | 0                      |                |
|                         |   |                        |                |
|                         | <b>Total Estimated Bid Package Hours</b>  | 0                      | \$ -           |
| Construction Management | Contract award, preconstruction meeting, and initial project coordination.  | 6                      |                |
|                         | Deer Run Lane - General project oversight - prep and cleanup.   | 8                      |                |
|                         | Deer Run Lane - Asphalt grinding and asphalt placement - full time supervision assumed for 4 working days.                      | 40                     |                |
|                         | Culverts - Initial coordination and site reviews with contractor.   | 16                     |                |
|                         | Culverts - Part time oversight assumed for replacement of 53 culverts. Duration assumed at 40 working days for 5 hours per day. | 200                    |                |
|                         | Project closeout.   | 5                      |                |
|                         |   |                        |                |
|                         | <b>Total Estimated Construction Management Hours</b>  | 275                    | \$ 37,125.00   |
|                         |   |                        |                |
|                         |   | <b>Total Estimated</b> |                |



February 8, 2023

Tyler Andrews

PNW Services, Inc

PO Box 30498

Bellingham, WA 98228

360-739-2072

RE: Sudden Valley Community Association  
5-Year Programmatic Permit Update

Thank you for the opportunity to submit a proposal to update the 5-Year Programmatic Permit Update. The existing document that has been accepted by the Whatcom County will expire at the end of 2024. This document was created 5 years ago and was intended to be used for stormwater maintenance. Since then, this permit has been used for many other types of maintenance and repair in Sudden Valley that has saved substantial time and costs from permit fees and consultant permit preparation costs.

The intention of this proposal is to expand the scope and reach of the 5-Year Programmatic Permit to allow for even more projects to be permitted *faster and more efficiently*. We will attempt to include projects within the shorelines jurisdiction, projects that include roadway focused repairs, larger culvert replacements, emergency projects, in-stream repairs and other work.

We propose to conduct the permit support for this project on a Not To Exceed basis in accordance with the rate sheets attached and a budget of \$15,000.

**Scope of Work:**

Impact Design will provide an updated 5-Year Programmatic Permit document to be submitted to Whatcom County including the following Whatcom County Land Use Permits under its umbrella:

- Programmatic Land Disturbance Permit
- Programmatic Shorelines Permit
- Programmatic SEPA Process
- Programmatic Whatcom County Critical Areas Permit

- Programmatic Typical Temporary Erosion and Sedimentation Control Plan
- Programmatic Typical Stormwater Pollution and Prevention Control Plan
- Programmatic Typical Ditch and Culvert Details
- Programmatic Typical Project and Process
- Programmatic Phosphorous Mitigation Plan complying with Whatcom County Code 20.51

It is assumed that there will be several meetings with Whatcom County Planning and the Whatcom County Public Works Stormwater Division to discuss the details of this proposal.

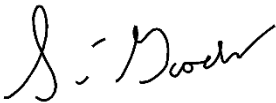
**Excluded Scope:** Survey or GIS work, geotechnical work, environmental work, permit fees, traffic studies, critical areas work, structural engineering, architectural design, title reports, construction support and as-built drawings are not included in this scope.

**Not To Exceed:** This proposal is for a time and materials budget based on the attached rate sheet. The total estimated cost to complete the contract is **\$15,000.**

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

I am available and ready to get started on this project,



Scott Goodall, MS, PE

Principal

Impact Design, LLC





2024 Rate Sheet

| <b>Office</b>                       | <b>Hourly Rate</b> |
|-------------------------------------|--------------------|
| Principal Engineer                  | \$140              |
| Design Engineer/Landscape Architect | \$125              |
| Engineering Technician              | \$90               |
| CAD Technician (Level 1)            | \$70               |

| <b>Field</b>                | <b>Hourly Rate</b> |
|-----------------------------|--------------------|
| Construction Inspection     | \$90               |
| Drone Pilot (UAV Certified) | \$90               |
| Photogrammetry Technician   | \$75               |

|                        |                      |
|------------------------|----------------------|
| <b>Sub-Consultants</b> | <b>15% Markup</b>    |
| <b>Equipment</b>       | <b>15% Markup</b>    |
| <b>Travel Expenses</b> | <b>15% Markup</b>    |
| <b>Mileage</b>         | <b>\$0.50 / Mile</b> |



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

www.suddenvalley.com

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Jo Anne Jensen, General Manager  
**Date:** February 22<sup>nd</sup>, 2024  
**Subject:** Capital Request – 2024 Bridge Designs

---

### **Purpose**

To request funding for the 2024 Bridge Designs project.

### **Background**

The Ten-Year Road & Drainage Plan calls for work to begin on the replacement of the Area Z Access Bridge (Bridge #2) and Culvert #4 in 2024. Sudden Valley Community Association (SVCA)'s 2024 budget includes \$31,200.00 for design and permitting of the Area Z Access Bridge (Bridge #2) but does not include funding for Culvert #4 because the final Ten-Year Plan was not available when the budget was finalized. Work on Culvert #4 was estimated by Impact Design at \$86,500 but the estimate didn't include utility coordination. PNW's summary dated February 6, 2024, (attached) identifies specifics for both bridges and summarizes the proposed expenses.

### **Analysis**

As described in the Background section of the Road & Drainage Project Capital Request memo dated February 22, 2024, there are unspent funds from the 2023 Capital Budget for Roads that we propose to carry forward to the 2024 budget.

PNW's attached summary recommends SVCA proceed with design and permitting of both locations in 2024. Both locations cross Beaver Creek and are in close proximity. This creates efficiency:

- One set of permits can apply to both locations.
- 1 hydrologic analysis can be completed and applied to both locations.
- Geotechnical borings can be completed at the same time saving mobilizations, and only 1 report will need to be prepared.
- Bridge designs are anticipated to be similar allowing shared details – utility hangers, etc.

PNW's summary identifies a projected design and permitting budget of \$131,003.84 to complete both locations. SVCA's 2024 budget included \$31,200.00 for Area Z Access Bridge as noted above leaving a difference of \$99,803.84. We propose to take the needed \$99,803.84 from the \$354,759.00 carry over. This would leave a balance of \$254,955.16 to be added to the 2024 Road and Drainage project proposed.



# Sudden Valley Community Association

360-734-6430  
4 Clubhouse Circle Bellingham, WA 98229  
www.suddenvalley.com

## Proposal

Authorize \$131,003.84 from Roads per PNW’s summary dated February 6<sup>th</sup>, 2024, for design and permitting to replace the Area Z Access Bridge, and Culvert #4, and authorize the General Manager to execute contracts with the following vendors:

- Chinook Engineering – Design and Permitting
  - \$38,810.00 – Area Z Access Bridge
  - \$38,810.00 – Culvert #4 Replacement with Bridge
- \$13,000.00 NW Geologic PLLC – Geotechnical Exploration

## Motion 1

Move that the SVCA Board of Directors approve the allocation of \$131,003.84 from the 2024 Capital Budget for Roads for design and permitting per PNW’s summary dated February 6, 2024, for the 2024 Bridge Design project.

## Motion 2

Move that the SVCA Board of Directors authorize the General Manager to execute contracts with Chinook Engineering per their proposals dated February 2<sup>nd</sup>, 2024, with total amounts not to exceed \$77,620.

## Motion 3

Move that the SVCA Board of Directors authorize the General Manager to execute a contract with NW Geologic PLLC per their proposal dated February 5, 2024, with a not to exceed amount of \$13,000.00.

## Approvals

### Motion 1

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
ELECTED, SVCA Board President

### Motion 2

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
ELECTED, SVCA Board President

### Motion 3

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President





February 6, 2024

Sudden Valley Community Association  
Attn: Michael Brock  
4 Clubhouse Circle  
Bellingham, WA 98229

RE: Project Scope Letter  
**2024 Bridge Designs**

PNW is providing this overall project scope letter to SVCA for the 2024 Bridge Designs project. This project is proposed to replace an existing bridge, and replace a large culvert with a bridge. Specifically:

- Area Z Access Bridge (Road Bridge #2) – This bridge is located off Honeycomb Lane to access Area Z. The bridge is used by the maintenance department regularly for quick access to gates 3, 9, 13, and by community members to access the community gardens. The bridge is at the end of its life cycle, and currently has a 5-ton weight rating. This substantially limits the vehicles that can travel over it, and with continued deterioration the weight rating capacity will continue to decline.
- Culvert #4 Replacement with Bridge (Road Bridge #5) – Currently this is an 8' diameter corrugated metal arch culvert identified in SVCA's new 10-Year Road and Drainage plan prepared by Impact Design that needs replacement. The new 10-year plan identifies replacing this large culvert with a pre-engineered metal bridge. This is located on Polo Park Drive between the intersections of Lost Lake Lane and Sunnyside Lane. The bridge didn't have capacity to handle the water volume during the November, 2021, flood event leading to a road failure and emergency repair. In addition, the culvert is substantially rusted out.

SVCA's 2024 budget identified \$31,200.00 for design and permitting of the Area Z Access Bridge. The 2024 budget was based on a memo from Impact Design dated 6-30-23 that gave SVCA budget parameters until the 10-year plan was completed. When this memo was prepared, Impact Design didn't know Culvert #4 needed replacing. The memo identified rebuilding Deer Run Lane, and replacing many other storm drainage culverts in 2024, see attached. The new 10-year plan that was finished in October, 2023, is planned to be incorporated into SVCA's 2025 budget, and be incorporated into the reserve study update in 2024. Reference attached for Impact Design's 10-year summary table.

The 10-year plan update included a preliminary engineer's estimate for replacing Culvert #4, see attached. This budget identified \$86,500.00 for design/permitting, and under construction, line 26, identified a LWWS (Lake Whatcom Water & Sewer) budget of \$30,000 for DEA (Developer Extension Agreement) and oversight. LWWS's participation is required to relocate the waterline. A portion of the LWWS budget is needed for establishing the DEA, and completing design review. The balance is related to construction oversight.



Bridge design and permitting requires a substantial amount of time – geotechnical borings and soils report, survey, design, and permitting. All of this combined could take up to a year on average. The permitting is the largest time component, and will likely take 6 months if not longer to complete. As stated previously, Culvert #4 failed during the November, 2021, flood event because it didn't have the capacity to allow the required volume of water through. When this occurred, it washed out part of Polo Park Drive, and required an emergency repair. PNW is recommending a portion of the SVCA 2024 Road/Drainage budget be used to supplement the design funds needed for Culvert #4. Impact Design has indicated their overall plan has some flexibility, and if all the 2024 culverts proposed aren't completed, they would shift some projects to the next available year when more funds are available. Impact Design agrees that potentially shifting a few of the smaller culverts to a later year is better than shifting the design for replacing Culvert #4. The basic logic is, if a small culvert fails it is simple to fix generally speaking. However, if Culvert #4 failed, it would close a major road, Polo Park Drive, and require this year long process to start plus ordering a bridge and construction.

The intent with completing the design and permitting for both projects in 2024 is to allow the projects to go to bid during January or February of 2025. This would allow contract award by March, and enough time to order pre-engineered bridges to arrive for summer 2025 construction as planned. In addition, design and permitting both projects at once has a substantial savings for SVCA as the same permits will apply to both locations, same hydrologic analysis, etc. A few details regarding each bridge proposed:

- Area Z – Road Bridge #2
  - o The new bridge design will slightly lengthen the existing span and straighten the bridge out so there isn't a turn onto the bridge from Honeycomb Lane.
  - o There is one utility hanging on this bridge. It will be temporarily suspended during construction, and then mounted onto the new bridge.
- Culvert 4 Replacement with Bridge (Road Bridge #5)
  - o The creek will have a diversion installed for construction, and the existing corrugated metal culvert will be removed.
  - o A channel will be excavated to be similar in width to the existing creek above and below the current culvert. Utilities will be temporarily supported during this phase.
  - o A bridge will be constructed and utility lines will be hung from the bridge. This will include water, communications, and power lines.
  - o During construction Polo Park Drive will be closed and traffic detoured around.

Summary of anticipated costs:

| <b>Design &amp; Permitting Scope</b>                            |             |
|---|-------------|
| - Chinook Engineering – Area Z Access Bridge                    | \$38,810.00 |
| - Chinook Engineering – Culvert 4 Replacement to SVCA Bridge #5 | \$38,810.00 |
| - NW Geologic PLLC – Geotechnical Borings and Design Report     | \$13,000.00 |
| - PNW Services, Inc. – Per Attached                             | \$7,425.00  |
| - Permit Fees Allowance   | \$4,000.00  |



|   |                     |
|---|---------------------|
| - LWWSO – DEA & Design (Construction oversight not included)<br>Allowance per Attached  | \$12,049.40         |
| - Utility Companies – Allowance for design reviews and coordination<br>to hang utilities on bridges. (Construction assistance not included) | \$5,000.00          |
| <b>Total Design &amp; Permitting</b>  | <b>\$119,094.40</b> |
| Contingency at 10%  | \$11,909.44         |
| <b>Total with Contingency</b>   | <b>\$131,003.84</b> |
| <b>Contractor Bids &amp; Construction</b>   |                     |
| - Under Separate Proposal   |                     |

Chinook Engineering completed design and permitting for SVCA’s 8<sup>th</sup> Hole Golf Course Bridge Replacement project in 2022. A comparison quote was requested from Impact Design, and their estimate matched what was in the 10 Year plan. Chinook Engineering provided 2 quotes for completing the geotechnical scope of work (\$25,000 Palmer Geotechnical Consultants, and \$45,000 Aspect Engineering). PNW reached out to NW Geologic who has previously done a lot of geotechnical work for SVCA, and requested a quote. The quote came back substantially less and is included above. Chinook Engineering’s proposal assumes design and permitting is completed for both bridges at the same time, and that is why the proposals match. The total amount of work required was determined, and then split between the 2 locations.

Please let me know if you have any questions, or if you would like any further information.

Sincerely,

Tyler Andrews  
President



June 30<sup>th</sup>, 2023

Tyler Andrews  
 PNW Services, Inc.  
 PO Box 30498  
 Bellingham, WA 98228

Re: Technical Memorandum  
 SVCA 10-Year Capital Plan, 2023 Culvert Projects & 2024 Culvert/Road Projects.

The purpose of this Technical Memorandum is to give recommendations for the 2023 and 2024 infrastructure improvement projects and to give a preliminary cost estimate as a means to review the planned yearly budget amounts. Based on Impact Designs completed field investigation of the Sudden Valley Community Association roadway and drainage infrastructure for the 10-year Capital Improvements project, we found a total of 58 drainage culverts that appear to be in critical condition.

**2023 Culvert Projects:**

The following 10 culverts were found to be in the greatest critical condition and are recommended to be replaced this year. We estimate each project will have a cost of approximately \$10,000 - \$15,000 each depending on material/diameter/length. This gives a project budget range of \$100,000 - \$150,000 total.

| Culvert ID | Zone Number | Road Name        | Approximate Address  | Culvert Length (ft.) | Culvert Diameter (in.) | Culvert Material |
|------------|-------------|------------------|----------------------|----------------------|------------------------|------------------|
| 11         | Zone 5      | Big Leaf Ln      | 15 Big Leaf Ln       | 55                   | 18/12                  | CMP              |
| 15         | Zone 5      | Shetland Ct      | 19 Tumbling Water Dr | 58                   | 12                     | CMP              |
| 17         | Zone 5      | Shetland Ct      | 3 Shetland Ct        | 41                   | 18                     | CMP              |
| FND 13     | Zone 13     | Yearling Pl      | 5 Meadow Ct          | 28                   | 12                     | CMP              |
| 28         | Zone 13     | Granite Cir      | 67 Polo Park Dr      | 46                   | 24                     | CMP              |
| 403        | Zone 9      | Polo Park Dr     | 230 Polo Park Dr     | 59                   | 18                     | CMP              |
| 162        | Zone 3B     | Kinglet Ct       | 188 Sudden Valley Dr | 41                   | 12                     | CMP              |
| FND 67     | Zone 1      | Gate 1 Mailboxes | Gate 1 Mailboxes     | 39                   | 12                     | CMP              |
| 63         | Zone 2      | Lake Louise Dr   | 52 Lake Louise Dr    | 70                   | 18                     | CMP              |
| 408.2      | Zone 2      | Larkspur Ct      | 7 Larkspur Ct        | 17                   | 12                     | CMP              |



**2024 Culvert Projects:**

The following 48 culverts were all found to have a critical barrel condition and should be prioritized for the 2024 maintenance projects. All the culverts below appear to be simple conveyance pipes for roadway crossings, and do not have fish bearing capacity. We estimate each project will cost approximately \$10,000 - \$15,000 each depending on material/diameter/length. This gives a project a budget range of \$490,000 - \$735,000 total.

| Culvert ID | Zone Number | Road Name         | Approximate Address  | Culvert Length (ft.) | Culvert Diameter (in.) | Culvert Material               |
|------------|-------------|-------------------|----------------------|----------------------|------------------------|--------------------------------|
| 66         | Zone 5      | Louis View Dr     | 20 Louise View Dr    | 62                   | 18                     | CMP                            |
| 67         | Zone 5      | Sweetclover Cir   | 12 Sweetclover Cir   | 48                   | 12                     | Inlet-Concrete Pipe/Outlet-CMP |
| 58         | Zone 5      | Louis View Dr     | 1 Catkin Ct          | 48                   | 12                     | CMP                            |
| 1          | Zone 13     | Polo Park Dr      | 150 Polo Park Dr     | 54                   | 18                     | CMP                            |
| 78         | Zone 13     | Sunnyside Ln      | 29 Sunnyside Ln      | 50                   | 18                     | CMP                            |
| 431        | Zone 13     | Lost Lake Ln      | 29 Lost Lake Ln      | 75                   | 18                     | CMP                            |
| 27         | Zone 13     | Misty Ridge Ct    | 66 Polo Park Dr      | 39                   | 12                     | CMP                            |
| 404        | Zone 9      | Polo Park Dr      | 230 Polo Park Dr     | 79                   | 18                     | CMP                            |
| 205        | Zone 3A     | Spring Rd         | 15 Spring Rd         | 40                   | 24                     | CMP                            |
| 406        | Zone 3A     | Rocky Ridge Dr    | 30 Rocky Ridge Dr    | 109                  | 12                     | CMP                            |
| 171        | Zone 3B     | Stable Ln         | 32 Stable Ln         | 32                   | 12                     | CMP                            |
| 178        | Zone 3B     | Canyon Ct         | 23 Canyon Ct         | 39                   | 12                     | CMP                            |
| 176        | Zone 3B     | Tawny Cir         | 24 Lost Fork Ln      | 50                   | 12                     | CMP                            |
| 432 433    | Zone 3B     | Strawberry Cyn Ct | 13 Strawberry Cyn Ct | 46                   | 12 18                  | CMP                            |
| 103        | Zone 3C     | Amberland Way     | 142 Harbor View Dr   | 42                   | 24                     | CMP                            |
| 99         | Zone 3C     | Plum Ln           | 28 Plum Ln           | 51                   | 12                     | CMP                            |
| 214        | Zone 3C     | Maple Ct          | 46 Maple Ct          | 67                   | 18                     | CMP                            |
| 126        | Zone 3D     | Sudden Valley Dr  | 1 Sudden Valley Dr   | 120                  | 18/12                  | CMP/ CPP                       |
| 89         | Zone 3D     | Indian Ridge Ct   | 39 Sudden Valley Dr  | 86                   | 12                     | CMP                            |
| FND 38     | Zone 3D     | Indian Meadow Ct  | 1 Indian Meadow Ct   | 35                   | 12                     | CMP                            |
| 118        | Zone 3D     | Harbor View Dr    | 46 Harbor View Dr    | 43                   | 18                     | CMP                            |
| 117        | Zone 3D     | Harbor View Dr    | 54 Harbor View Dr    | 35                   | 18                     | CMP                            |
| 120        | Zone 3D     | Harbor View Dr    | 10 Harbor View Dr    | 42                   | 18                     | CMP                            |
| FND 30     | Zone 3D     | Harbor View Dr    | 99 Harbor View Dr    | 39                   | 18                     | CMP                            |
| 109        | Zone 3D     | Green Hill Rd     | 55 Green Hill Rd     | 41                   | 18                     | CPP/CMP                        |
| 111        | Zone 3D     | Harbor View Dr    | 113 Harbor View Dr   | 40                   | 18                     | CMP                            |
| 122        | Zone 3D     | Rocky Ridge Dr    | 2 Rocky Ridge Dr     | 29                   | 18                     | CMP                            |
| FND 48     | Zone 1      | Par Ln            | 20 Par Ln            | 55                   | 12                     | CMP                            |
| 147        | Zone 1      | Par Ln            | 20 Par Ln            | 20                   | 12                     | CMP                            |

|        |        |                   |                            |     |    |                    |
|--------|--------|-------------------|----------------------------|-----|----|--------------------|
| 441    | Zone 1 | Jubilee Ln        | 3 Jubilee Ln               | 59  | 12 | CMP                |
| 148    | Zone 1 | Par Ln            | 11A Par Ln                 | 189 | 12 | CMP                |
| 415    | Zone 1 | Birdie Ln         | 28 Windward Dr             | 53  | 12 | CMP                |
| 143    | Zone 1 | Inlet Cir         | 26 Longshore Ln            | 82  | 12 | CMP                |
| 144    | Zone 1 | Inlet Cir         | 26 Longshore Ln            | 31  | 12 | CMP                |
| 145    | Zone 1 | Spinnaker Ln      | 17 Marina Dr               | 72  | 12 | CPP/CMP            |
| FND 49 | Zone 1 | Marina Dr         | 17 Marina Dr               | 40  | 12 | CMP                |
| 157    | Zone 1 | North Point Dr    | 5 North Point Dr           | 30  | 12 | Green PVC/CMP      |
| FND 52 | Zone 1 | Sanwick Pt Ct     | 36 North Point Dr          | 43  | 12 | Concrete Pipe/ CPP |
| 81     | Zone 2 | Lake Louise Dr    | 1 Sparrow Ct               | 61  | 18 | CMP                |
| 408.1  | Zone 2 | Larkspur Ct       | 7 Larkspur Ct              | 19  | 12 | CMP                |
| 409    | Zone 2 | Whispering Cedars | Whispering Cedars Entrance | N/A | 24 | CMP                |
| 410    | Zone 2 | Lake Louise Dr    | 22 Lake Louise Dr          | 120 | 12 | CMP                |
| 203    | Zone 2 | Lake Louise Dr    | 14 Lake Louise Dr          | 61  | 18 | CMP                |
| FND 61 | Zone 2 | Marigold Dr       | 37-30 Marigold Dr          | 283 | 12 | CMP                |
| 75     | Zone 2 | Marigold Dr       | 43 Marigold Dr             | 40  | 12 | CMP                |
| FND 45 | Zone 2 | Sunflower Cir     | 23 Sunflower Cir           | 20  | 12 | CMP                |
| 445    | Zone 2 | Lake Louise Dr    | 20 Lake Louise Dr (Outlet) | 200 | 12 | CMP                |
| FND 62 | Zone 2 | Barn View Ct      | 3 Barn View Ct             | 83  | 12 | CMP                |

### 2024 Road Projects:

Impact Design recommends that in addition to drainage improvement projects, at least one major asphalt overlay road project should be considered yearly. For the 2024 construction season Impact Design recommends Deer Run Lane should be overlaid. We estimate overlay projects will cost \$4.00 - \$5.00 per square foot. This gives the overlay of Deer Run Lane a project budget range of \$180,000 - \$225,000.

### Overall Conclusions

Should all culvert and roadway projects we have recommended for the 2024 construction season be completed, we estimate the total costs to be in the \$670,000 - \$960,000 range. The cost estimate per culvert replacement, and cost per square foot of asphalt overlay is based on local historical data alone, and no engineered design has been done. Prior to construction, an engineering analysis and civil/stormwater engineering drawings should be completed. Based on this analysis a yearly budget of \$900,000 to \$1,000,000 appears to be adequate to catch up with and maintain SVCA's infrastructure for the next 3-5 years.

Based on our current progress we expect to have the first draft of the SVCA 10-Year Capital Improvements Plan by the end of August.

Respectfully,



*6-30-2023*

Scott Goodall, MS, PE  
Principal  
Impact Design, LLC

## 10 Year CIP Summary Table

| Year          | CATEGORY     | Corresponding Table | Project Name                              | 2023          | 2024          | 2025            | 2026          | 2027          | 2028            | 2029            | 2030          | 2031          | 2032            | 2033          |
|---------------|--------------|---------------------|---|---------------|---------------|-----------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|---------------|
| 2023          | CONSTRUCTION | Table 2             | 2023 Culverts Remove and Replace          | \$ 133,750.00 |               |                 |               |               |                 |                 |               |               |                 |               |
|               | DESIGN       | Table 3             | 2024 Culverts Remove and Replace          | \$ 15,000.00  |               |                 |               |               |                 |                 |               |               |                 |               |
| 2024          | CONSTRUCTION | Table 3             | 2024 Culverts Remove and Replace          |               | \$ 580,200.00 |                 |               |               |                 |                 |               |               |                 |               |
|               | CONSTRUCTION | Table 9             | 2024 Repair and Overlay Deer Run Lane     |               | \$ 225,445.52 |                 |               |               |                 |                 |               |               |                 |               |
|               | DESIGN       | -                   | 2025 Area Z Bridge Replacement            |               | \$ 30,000.00  |                 |               |               |                 |                 |               |               |                 |               |
|               | DESIGN       | Table 8             | 2025 Culvert 4 Remove and Install Bridge  |               | \$ 86,500.00  |                 |               |               |                 |                 |               |               |                 |               |
|               | DESIGN       | -                   | Programatic Permit Reivew and Application |               | \$ 15,000.00  |                 |               |               |                 |                 |               |               |                 |               |
| 2025          | CONSTRUCTION | -                   | 2025 Area Z Bridge Replacement            |               |               | \$ 175,000.00   |               |               |                 |                 |               |               |                 |               |
|               | CONSTRUCTION | Table 8             | 2025 Culvert 4 Remove and Install Bridge  |               |               | \$ 981,178.00   |               |               |                 |                 |               |               |                 |               |
|               | DESIGN       | Table 4             | 2026 Culverts Remove and Replace          |               |               | \$ 15,000.00    |               |               |                 |                 |               |               |                 |               |
|               | DESIGN       | Table 9             | 2026 Road Repairs and Overlays            |               |               | \$ 20,000.00    |               |               |                 |                 |               |               |                 |               |
| 2026          | CONSTRUCTION | Table 4             | 2026 Culverts Remove and Replace          |               |               |                 | \$ 701,300.00 |               |                 |                 |               |               |                 |               |
|               | CONSTRUCTION | Table 9             | 2026 Road Repairs and Overlays            |               |               |                 | \$ 178,969.34 |               |                 |                 |               |               |                 |               |
|               | DESIGN       | Table 8             | 2027 Culvert 24 Remove and Install Bridge |               |               |                 | \$ 77,850.00  |               |                 |                 |               |               |                 |               |
| 2027          | CONSTRUCTION | Table 8             | 2027 Culvert 24 Remove and Install Bridge |               |               |                 |               | \$ 883,060.20 |                 |                 |               |               |                 |               |
|               | DESIGN       | Table 8             | 2028 Culvert 22 Remove and Replace        |               |               |                 |               | \$ 86,500.00  |                 |                 |               |               |                 |               |
|               | DESIGN       | -                   | 5 Year CIP Review                         |               |               |                 |               | \$ 17,000.00  |                 |                 |               |               |                 |               |
| 2028          | CONSTRUCTION | Table 8             | 2028 Culvert 22 Remove and Install Bridge |               |               |                 |               |               | \$ 981,178.00   |                 |               |               |                 |               |
|               | DESIGN       | Table 8             | 2029 Culvert 23 Remove and Replace        |               |               |                 |               |               | \$ 86,500.00    |                 |               |               |                 |               |
| 2029          | CONSTRUCTION | Table 8             | 2029 Culvert 23 Remove and Install Bridge |               |               |                 |               |               |                 | \$ 981,178.00   |               |               |                 |               |
|               | DESIGN       | Table 5             | 2030 Culverts Remove and Replace          |               |               |                 |               |               |                 | \$ 10,000.00    |               |               |                 |               |
|               | DESIGN       | Table 9             | 2030 Road Repairs and Overlays            |               |               |                 |               |               |                 | \$ 20,000.00    |               |               |                 |               |
| 2030          | CONSTRUCTION | Table 5             | 2030 Culverts Remove and Replace          |               |               |                 |               |               |                 |                 | \$ 257,000.00 |               |                 |               |
|               | CONSTRUCTION | Table 9             | 2030 Road Repairs and Overlays            |               |               |                 |               |               |                 |                 | \$ 467,117.56 |               |                 |               |
|               | DESIGN       | Table 6             | 2031 Culverts Remove and Replace          |               |               |                 |               |               |                 |                 | \$ 10,000.00  |               |                 |               |
|               | DESIGN       | Table 9             | 2031 Road Repairs and Overlays            |               |               |                 |               |               |                 |                 | \$ 20,000.00  |               |                 |               |
| 2031          | CONSTRUCTION | Table 6             | 2031 Culverts Remove and Replace          |               |               |                 |               |               |                 |                 |               | \$ 125,200.00 |                 |               |
|               | CONSTRUCTION | Table 9             | 2031 Road Repairs and Overlays            |               |               |                 |               |               |                 |                 |               | \$ 564,996.96 |                 |               |
|               | DESIGN       | Table 8             | 2032 Culvert 54 Remove and Install Bridge |               |               |                 |               |               |                 |                 |               | \$ 86,500.00  |                 |               |
| 2032          | CONSTRUCTION | Table 8             | 2032 Culvert 54 Remove and Install Bridge |               |               |                 |               |               |                 |                 |               |               | \$ 981,178.00   |               |
|               | DESIGN       | Table 7             | 2033 Culvert Remove and Replace           |               |               |                 |               |               |                 |                 |               |               | \$ 10,000.00    |               |
|               | DESIGN       | Table 9             | 2033 Road Repairs and Overlays            |               |               |                 |               |               |                 |                 |               |               | \$ 10,000.00    |               |
| 2033          | CONSTRUCTION | Table 7             | 2033 Culvert Remove and Replace           |               |               |                 |               |               |                 |                 |               |               |                 | \$ 88,800.00  |
|               | CONSTRUCTION | Table 9             | 2033 Road Repairs and Overlays            |               |               |                 |               |               |                 |                 |               |               |                 | \$ 537,176.20 |
|               | DESIGN       | -                   | 2034-2044 10 Year CIP                     |               |               |                 |               |               |                 |                 |               |               |                 | \$ 150,000.00 |
| <b>Totals</b> |              |                     |   | \$ 148,750.00 | \$ 937,145.52 | \$ 1,191,178.00 | \$ 958,119.34 | \$ 986,560.20 | \$ 1,067,678.00 | \$ 1,011,178.00 | \$ 754,117.56 | \$ 776,696.96 | \$ 1,001,178.00 | \$ 775,976.20 |



## Bridge Installation

### Engineer's Estimate

September 8, 2023



Estimate Prepared by:  
**Impact Design, LLC**  
 5426 Barrett Road, Suite A103  
 Ferndale, WA 98248  
 Phone: (360) 389-8138

Client:  
**Tyler Andrews**  
**PNW Services, Inc.**  
 PO Box 30498  
 Bellingham, WA 98228

| NO.   | ITEM  | ESTIMATED CONSTRUCTION COST |      |              |                       |
|---|---|-----------------------------|------|--------------|-----------------------|
|   |   | QUANTITY                    | UNIT | UNIT COST    | TOTAL                 |
| <b>Construction Costs</b>                     |   |                             |      |              |                       |
| 1   | MOBILIZATION                                    | 1                           | L.S. | \$40,000.00  | \$40,000.00           |
| 2   | PROJECT TEMPORARY TRAFFIC CONTROL               | 1                           | L.S. | \$5,000.00   | \$5,000.00            |
| 3   | CLEARING & GRUBBING                             | 0.3                         | AC   | \$20,000.00  | \$6,000.00            |
| 4   | REMOVAL OF STRUCTURES AND OBSTRUCTIONS          | 1                           | L.S. | \$8,000.00   | \$8,000.00            |
| 5   | ROADWAY EXCAVATION AND HAUL                     | 1791                        | C.Y. | \$60.00      | \$107,460.00          |
| 6   | 6" CSBS AT ABUTMENTS                            | 20                          | TONS | \$150.00     | \$3,000.00            |
| 7   | GEOTEXTILE                                      | 45                          | S.Y. | \$20.00      | \$900.00              |
| 8   | PRECAST CONCRETE FOOTERS - UNLOAD & INSTALL     | 1                           | L.S. | \$8,000.00   | \$8,000.00            |
| 9   | STEEL BRIDGE COMPLETE                           | 1                           | L.S. | \$340,000.00 | \$340,000.00          |
| 10  | BACKWALLS                                       | 1                           | L.S. | \$20,000.00  | \$20,000.00           |
| 11  | WELD BRIDGE HOLD DOWNS                          | 1                           | L.S. | \$35,000.00  | \$35,000.00           |
| 12  | D.F. GUARDRAIL/HANDRAIL                         | 200                         | LF   | \$150.00     | \$30,000.00           |
| 13  | STREAMBED SEDIMENT                              | 240                         | TONS | \$100.00     | \$24,000.00           |
| 14  | CRUSHED SURFACING TOP COURSE                    | 35                          | TONS | \$100.00     | \$3,500.00            |
| 15  | CRUSHED SURFACING BASE COURSE                   | 20                          | TONS | \$150.00     | \$3,000.00            |
| 16  | GRAVEL BASE                                     | 35                          | TONS | \$100.00     | \$3,500.00            |
| 17  | HMA CL 1/2-IN PG 64-22                          | 35                          | TON  | \$250.00     | \$8,750.00            |
| 18  | FISH EXCLUSION, DEWATERING AND STREAM DIVERSION | 1                           | L.S. | \$40,000.00  | \$40,000.00           |
| 19  | RIPARIAN REVEGETATION                           | 1                           | L.S. | \$10,000.00  | \$10,000.00           |
| 20  | RESTORATION & FINAL CLEANUP                     | 1                           | L.S. | \$5,000.00   | \$5,000.00            |
| 21  | 8 INCH WATERMAIN, DUCTILE IRON                  | 100                         | LF   | \$300.00     | \$30,000.00           |
| 22  | WATER TESTING, COMPLETE                         | 1                           | L.S. | \$2,500.00   | \$2,500.00            |
| 23  | 8 INCH SANITARY SEWER MAIN, DUCTILE IRON        | 100                         | LF   | \$300.00     | \$30,000.00           |
| 24  | SANITARY SEWER MANHOLE                          | 2                           | EA.  | \$9,000.00   | \$18,000.00           |
| 25  | STRIPING  | 1                           | L.S. | \$2,500.00   | \$2,500.00            |
| 26  | LWWSD DEA & Oversight                           | 1                           | LS   | \$30,000.00  | \$30,000.00           |
| <i>Subtotal</i>                               |   |                             |      |              | <i>\$814,110.00</i>   |
| <i>Tax @ 8.6%</i>                             |   |                             |      |              | <i>\$70,013.46</i>    |
| <b>TOTAL CONSTRUCTION COST</b>                |   |                             |      |              | <b>\$884,123.46</b>   |
| <b>Engineering and Permitting Costs</b>       |   |                             |      |              |                       |
| 1   | CRITICAL AREAS REPORT AND PERMITTING            | 1                           | L.S. | \$20,000.00  | \$20,000.00           |
| 2   | BOUNDARY AND TOPOGRAPHIC SURVEY                 | 1                           | L.S. | \$5,000.00   | \$5,000.00            |
| 3   | GEOTECHNICAL REPORT                             | 1                           | L.S. | \$6,500.00   | \$6,500.00            |
| 4   | CIVIL AND STRUCTURAL ENGINEERING DESIGN         | 1                           | L.S. | \$55,000.00  | \$55,000.00           |
| <b>TOTAL ENGINEERING AND PERMITTING COSTS</b> |   |                             |      |              | <b>\$86,500.00</b>    |
| <b>10% CONTINGENCY</b>                        |   |                             |      |              | <b>\$97,054.54</b>    |
| <b>PROJECT TOTAL</b>                          |   |                             |      |              | <b>\$1,067,678.00</b> |



Chinook Engineering  
 860 Windrose Drive  
 Coupeville, WA 98239  
 360.672.5528



Community Association  
 Sudden Valley Community Association  
 4 Clubhouse Circle  
 Bellingham, WA 98229

Proposal Number 23474  
 Proposal Date 02/02/2024

## Pricing

| Description   | Rate       | Qty | Line Total |
|---|------------|-----|------------|
| Job Name<br>Bridge 2 Replacement – Area Z Access  | \$0.00     | 1   | \$0.00     |
| Survey and Data Collection Scan<br>Visit Site and collect preliminary and in depth topography survey information adequate to prepare site survey base map for design. Scan the site with LiDAR scanner and prepare base map with instruments for a base Map | \$170.00   | 25  | \$4,250.00 |
| Survey and Data Collection<br>Prepare base with Topography  | \$170.00   | 10  | \$1,700.00 |
| Hydraulic and Hydrologic Analysis<br>Determine Hydrology and calculations for stream flows and tabulate   | \$150.00   | 8   | \$1,200.00 |
| Hydraulic Computer Modeling<br>Use measurements to numerically analyze the resulting hydraulics for the project. HECRAS to set up and perform what if modeling  | \$170.00   | 20  | \$3,400.00 |
| Conceptual Design<br>Conceptual Design and cost estimating in preparation of County Preapplication  | \$170.00   | 20  | \$3,400.00 |
| Drawing Development<br>Engineering modelling to prepare design drawings and sketches, to include surface models of existing and proposed.   | \$170.00   | 40  | \$6,800.00 |
| Geotechnical Report Interpretation<br>Review and use the Geotechnical report and any coordination with the Geotechnical Professional  | \$170.00   | 5   | \$850.00   |
| Final Design<br>Prepare Final Design Drawings and specifications ready to build or bid the project.   | \$170.00   | 30  | \$5,100.00 |
| Drawing Development Graphics  | \$6,000.00 | 1   | \$6,000.00 |

Drawings are drafted with a sub-contractor to Chinook Engineering, Autoscan, Inc.

|   |          |                             |                    |
|---|----------|-----------------------------|--------------------|
| Construction Cost Estimates<br>Engineer's Construction Cost Estimates at 30%, 60%, 100% | \$170.00 | 4                           | \$680.00           |
| Meetings  | \$170.00 | 16                          | \$2,720.00         |
| Permitting Assistance<br>Assist in the preparation of permits                           | \$170.00 | 15                          | \$2,550.00         |
| Travel<br>Mileage   | \$0.625  | 256                         | \$160.00           |
|   |          | Subtotal                    | 38,810.00          |
|   |          | Tax                         | 0.00               |
|   |          | <b>Proposal Total (USD)</b> | <b>\$38,810.00</b> |

## Notes

Tyler,  
I have revised the proposals for the two sites.

Under this Proposal we assume that the projects at two sites are finished concurrently with Culvert 4 Bridge 5, sharing some economy of scale to this site with similarities and shared tasks occurring for both sites. Permitting, Drawing Development Graphics, Surveying, Meetings and Travel are shared with each project. Other tasks shared economies in will also be expected.

We are assuming that one set of drawings and one permit application covering the two sites will be completed.

Borings and geotechnical report to be provided by others.

---

Community Association, Sudden Valley Community Association

Chinook Engineering  
 860 Windrose Drive  
 Coupeville, WA 98239  
 360.672.5528



Community Association  
 Sudden Valley Community Association  
 4 Clubhouse Circle  
 Bellingham, WA 98229

Proposal Number 23476  
 Proposal Date 02/02/2024

## Pricing

| Description   | Rate       | Qty | Line Total |
|---|------------|-----|------------|
| Job Name<br>Culvert 4 Replacement with Bridge #5  | \$0.00     | 1   | \$0.00     |
| Survey and Data Collection Scan<br>Visit Site and collect preliminary and in depth topography survey information adequate to prepare site survey base map for design. Scan the site with LiDAR scanner and prepare base map with instruments for a base Map | \$170.00   | 25  | \$4,250.00 |
| Survey and Data Collection<br>Prepare base with Topography  | \$170.00   | 10  | \$1,700.00 |
| Hydraulic and Hydrologic Analysis<br>Determine Hydrology and calculations for stream flows and tabulate   | \$150.00   | 8   | \$1,200.00 |
| Hydraulic Computer Modeling<br>Use measurements to numerically analyze the resulting hydraulics for the project. HECRAS to set up and perform what if modeling  | \$170.00   | 20  | \$3,400.00 |
| Conceptual Design<br>Conceptual Design with short alternative analysis and cost estimating in preparation of County Preapplication  | \$170.00   | 20  | \$3,400.00 |
| Drawing Development<br>Engineering modeling to prepare design drawings and sketches, to include surface models of existing and proposed and calculations. Interaction, collaboration and guidance for drawings.   | \$170.00   | 40  | \$6,800.00 |
| Geotechnical Report Interpretation<br>Review and use the Geotechnical report and any coordination with the Geotechnical Professional  | \$170.00   | 5   | \$850.00   |
| Final Design<br>Prepare Final Design Drawings and specifications ready to build or bid the project. PE interaction and review with the Team and the Graphics.   | \$170.00   | 30  | \$5,100.00 |
| Drawing Development Graphics  | \$6,000.00 | 1   | \$6,000.00 |



Drawings are drafted with a sub-contractor to Chinook Engineering, Autoscan, Inc.

|   |          |                             |                    |
|---|----------|-----------------------------|--------------------|
| Construction Cost Estimates<br>Engineer's Construction Cost Estimates at 30%, 60%, 100% | \$170.00 | 4                           | \$680.00           |
| Meetings  | \$170.00 | 16                          | \$2,720.00         |
| Permitting Assistance<br>Assist in the preparation of permits                           | \$170.00 | 15                          | \$2,550.00         |
| Travel<br>Mileage   | \$0.625  | 256                         | \$160.00           |
|   |          | Subtotal                    | 38,810.00          |
|   |          | Tax                         | 0.00               |
|   |          | <b>Proposal Total (USD)</b> | <b>\$38,810.00</b> |

## Notes

Tyler,  
I have revised the proposals for the two sites.

Under this Proposal we assume that the projects at two sites are finished concurrently with Area Z Bridge sharing some economy of scale to this site with similarities and shared tasks occurring for both sites. Permitting, Drawing Development Graphics, Surveying, Meetings and Travel are shared with each project. Other tasks shared economies in will also be expected.

We are assuming that one set of drawings and one permit application covering the two sites will be completed.

Borings and geotechnical report to be provided by others.

---

Community Association, Sudden Valley Community Association

# NW Geologic PLLC

February 5, 2024

PNW Services, Inc.  
PO Box 30498  
Bellingham, WA 98228

Attn: Tyler Andrews

**RE: Subsurface Investigation for Culvert and Bridge Improvements, Sudden Valley, Washington**

Dear Mr. Andrews:

NW Geologic PLLC (NW Geo) thanks you for the opportunity, and respectfully submits the following proposal to provide a geotechnical subsurface investigation and report for the above-referenced project. We estimate the total cost of our services for this project to be **\$13,000.00**. All services will be provided on a *Time and Materials* basis. Due to the relatively high cost of obtaining a subcontractor, our firm requests a 50 percent of total cost deposit in order to commence the project. The remaining 50 percent of the project cost is due at the time of report delivery. No work will be performed beyond the scope and cost estimate without your prior authorization.

We understand that the Sudden Valley Community Association intends to replace two structures within the Sudden Valley neighborhood, near Bellingham, WA. The first location is a culvert replacement located on Polo Park Drive near the intersection with Sunnyside Lane and Lost Lake Lane. The location contains a paved roadway over the culvert that sustained damage during the November 2021 flood events. It is our understanding that the culvert that provides conveyance of the waters of Beaver Creek will be replaced with a premanufactured steel bridge. The second location is a steel bridge replacement at the north entrance to Area Z accessed from Honeycomb Lane. The bridge also provides roadway conveyance over Beaver Creek.

The project team has requested our services in support of new bridge foundation designs that would be installed by other parties based on our subsurface investigation recommendations. The purpose of our study is to provide limited subsurface exploration by Standard Penetration Test (SPT) hollow stem auger soil boring methods and a geotechnical report that will address subsurface conditions and provide recommendations that will be suitable for project planning. We are requested to provide allowable bearing capacity and lateral earth pressures for use in design.

If you wish to accept this proposal, we simply ask that you return a signed electronic copy of the service agreement enclosed. In closing, our experienced engineering geology staff will ensure the highest level of quality is brought to your project. We believe that our local staff and vast experience on projects of similar size and scope make NW Geo the clear team member of choice for this project. We look forward to working with you.

Respectfully Submitted,



Kurt Parker, Owner  
Licensed Engineering Geologist  
NW Geologic PLLC

Attachments: Services Provided, Cost Estimate, Assumptions, General Terms & Conditions, Service Agreement, 2024 Rate Sheet

# NW Geologic PLLC

## Services Provided

The purpose of our services is to collect subsurface data at four locations – two for each creek crossing – that will be used to make recommendations for project design. The final product will be an illustrated, limited scope subsurface investigation report containing a summary of subsurface conditions with appropriate allowable bearing capacity and lateral earth pressure recommendations for foundation design. Our services will include the following:

1. Perform an initial site visit to observe existing conditions and mark and file an underground utility locate request as required by Washington State Law. NW Geo is not responsible for mismarked or unlocatable utilities. We request any as-builts or other information related to existing utilities be provided prior to the primary field work.
2. Explore the soil and groundwater conditions underlying the project site by advancing four SPT hollow stem auger borings up to 30 feet below present grade (BPG) in depth at each location or until refusal conditions are encountered. The total planned drilling footage is approximately 120 feet. One boring will be advanced on either side of each creek crossing at an appropriate location determined by NW Geologic. The SPT borings will be subcontracted by a specialty drilling service coordinated by NW Geologic. The subcontractor will cut and patch asphalt as applicable and provide basic cleanup. The cuttings from the borings will be hauled away for disposal. Accordingly, the property owner must expect some disturbance by machinery across access and test locations.
3. NW Geo will review the information collected during the subsurface investigation and perform analyses to develop recommendations for this project. Our findings, conclusions and recommendations will be summarized in a subsurface investigation report that will contain the following information:
  - A description of site surface, subsurface, groundwater and mapped geologic conditions.
  - A site plan showing the approximate location of the explorations accomplished for this project.
  - Detailed SPT auger boring exploration logs based on subsurface exploration findings.
  - Laboratory analysis of select soil samples to determine the engineering properties.
  - Recommendations for allowable bearing capacity and lateral earth pressures based on soil conditions that are appropriate for engineering design of the new structures.
  - Recommendations for geotechnical consulting during construction.

This proposal for services *does not* include conditions for stormwater management, geologic hazards, slope stability analysis, environmental studies or monitoring of groundwater on this property.

## Cost Estimate

**The following is an approximate breakdown of our services. Costs may be shared between tasks in order to accommodate the project schedule and budgets.**

|   |                 |
|---|-----------------|
| Project Coordination, Site Visit, Locates and Setup | \$300           |
| Field Exploration (1 day)                           | \$1,000         |
| Subcontracted CPT Services (Subcontracted)          | \$8,500*        |
| Laboratory Services (Subcontracted)                 | \$300           |
| Subsurface Investigation Report                     | \$2,500         |
| Mileage   | \$100           |
| Project Management                                  | \$300           |
| <b>Total (estimated)</b>                            | <b>\$13,000</b> |

# NW Geologic PLLC

\*The SPT subcontractor estimate may be more or less than the estimate provided above and is dependent on their schedule, current costs, availability and subsurface ground conditions.

## **Estimate Assumptions**

- NW Geologic PLLC will bill for services on a *Time and Materials* basis per the attached cost estimate.
- Unless accepted by Client by returning a signed copy of this service agreement to NW Geo, or otherwise expressed in writing, the cost estimate shall remain valid for not more than 90 days.
- Unforeseen circumstances may result in a requirement for additional site exploration or sampling. NW Geo will consult with client prior to modifying the scope of services if the total fees will exceed the proposed amount. Additional services not contained in the Cost Estimate for services (if required), will be billed in accordance with the unit rates shown in the 2024 Rate Sheet provided with the original proposal.
- Proposed services include subsurface exploration and characterization of site only. Pilot infiltration testing, grain size analysis, groundwater monitoring, mounding analysis, site monitoring, geologic hazards, slope stability analysis, construction observation and / or field-testing during construction are not included. Due to the specialized nature of NW Geo's work and the detailed knowledge of the site gained during this phase or work, it is recommended that NW Geo be retained for construction services.

## **General Terms & Conditions**

- NW Geologic PLLC (NW Geo) will provide professional services to Client, as defined by the scope of work, with that degree of care and skill ordinarily exercised under similar circumstances by members of the geotechnical engineering profession. This representation is in lieu of any warranties or other representations, either expressed or implied. If conditions differ during construction from what was reported by NW Geo during inspection, the Client shall immediately contact this consulting firm and make us aware of the changes, and authorize further and appropriate evaluation, if necessary. It is also understood and agreed to that statements made in NW Geo reports are independent opinions, based on professional judgment, education and experience, and should not be construed to be conclusive representations of fact.
- Utility repairs are not included within the scope of this contract. Despite our foremost efforts to avoid existing utilities, damage is sometimes unavoidable due to mis-marked or unlocatable utilities. In the unforeseen circumstance that existing underground utilities are damaged, the client shall be responsible for the cost of utility repairs.
- This proposal including those documents incorporated by reference reflect the entire agreement of both parties with respect to the terms and conditions with which NW Geo will service this project and supersedes any previous written or verbal agreements. If any portion of this agreement is found to be void or voidable, such portion shall be stricken, and the agreement reformed to match the stricken provisions as closely as permitted by law. Should any provisions be held illegal, invalid or unenforceable, the enforceability of the remaining provisions shall continue unimpaired.
- Unless otherwise stated in writing, Client assumes sole responsibility for determining the quantity and nature of required work, and that it is adequate for its intended purpose. Client shall communicate these general conditions to each third party to whom Client conveys any part of NW Geo 's work. NW Geo shall have no obligation greater than that set forth in NW Geo's proposal to any of Client's third parties. Client shall cause all tests and inspection of the site, materials, and work performed by NW Geo or others, to be timely and properly performed, in accordance with project plans, specifications, contract documents, and Design Professionals' recommendations.
- The work proposed herein shall not include determining, supervising, or implementing the means, methods, techniques, sequences, or procedures of construction. NW Geo shall not be responsible for evaluating, reporting, or affecting job conditions concerning health, safety, or welfare. NW Geo's work, or failure to perform same, shall in no way excuse the contractor(s), subcontractor(s), and/or supplier(s) from performance of their work in accordance with the contract documents.
- NW Geo will not provide any manner of recommended solution or 'fix' for any site conditions or installed work that differ from project documents. In such instances, NW Geo's field report outlining the deviation from project documents will be provided to the Contractor and / or Client for clarification from the appropriate design professional.
- Client acknowledges that the laws of the State of Washington shall govern this agreement. Except for actions such as enforcement of mechanic's liens required to be brought in a specific venue, or unless otherwise agreed in writing, any mediation or other legal proceeding shall occur in Whatcom County, Washington. Client waives its right to have suit brought, tried in or removed to any other county or jurisdiction. The prevailing party shall be entitled to recovery of reasonable costs incurred, including court costs, reasonable attorney's fees and other direct expenses related to the claim.
- These terms and conditions shall survive the completion of proposed services and / or the termination of this agreement, whether for cause or convenience.



# NW Geologic PLLC

- This document may not be modified or altered except by written agreement signed by authorized Client and NW Geo representatives.
- Invoices are due and payable upon receipt. Any invoice not paid within thirty (30) days of the date rendered may be assessed a finance charge of one-and-one-half (1½%) percent per month, for each month beyond thirty (30) days past due. Invoices not paid within sixty (60) days of the date rendered may result in NW Geo stopping work until such invoices are paid in full. Invoices not paid within ninety (90) days of the date rendered may be referred to an independent company for collection. Client will be responsible for all expenses incurred by NW Geo for the collection of any unpaid invoice(s), including collection fees, actual attorneys' fees, and costs for legal counsel. Furthermore, Client acknowledges that NW Geo may elect to withhold a Final Letter of Compliance for the project, and/or place a lien on any real property until all outstanding invoices and/or fees have been paid in full.
- Project management fees include required time to review field and laboratory reports. If Client requires any manner of backup documentation, changes to NW Geo's standard invoices, or entry / upload to third-party entities, the additional time to assemble the required information and / or complete alterations shall be billed as Project Management. Any fees required for participation in third-party payment processing shall be billed back to Client at cost plus 15%.
- NW Geo carries the standard insurance required by law in the State of Washington. If Client requires additional insurance, the Client agrees to pay any additional fees incurred by NW Geo to fulfill Client's request for such insurance, if obtainable.
- The Client agrees to indemnify, defend and hold NW Geo, its officers, employees, agents and independent contractors harmless from any and all claims, suits, losses, costs and expenses, including but not limited to court costs and reasonable attorney fees arising or alleging to have risen from the performance of NW Geo's work. In the event that the Client or Client's principal shall bring any suit, cause of action, claim or counterclaim against NW Geo to the extent that NW Geo shall prevail in such suit, cause of action, claim or counterclaim, the party initiating such action shall pay to NW Geo the costs and expenses incurred by NW Geo to answer and or defend, including reasonable attorney fees, court costs, witness fees and other related expenses.
- NW Geo shall retain the right to reuse copyrightable materials or patented / patentable concepts or processes arising from its services or documentation of services.
- By nature of providing professional services rather than supplying material goods to the project, NW Geo assumes itself exempt from sales or use taxes. Quoted unit rates do not include any required sales, use or excise taxes or TERO fees that may be collected by the Contracting Agency or others.

## **Service Agreement**

This agreement is made between NW Geologic PLLC also described herein as 'NW Geo,' and Client, as identified below, and fully incorporates the Services Provided, Cost Estimate, Estimate Assumptions, General Terms and Conditions, Service Agreement and 2024 Rate Sheet as attached to this document. These elements shall constitute the agreement in its entirety, superseding all prior correspondence, negotiations, or agreements, oral or written. This agreement shall be in effect as of the date signed by Client, or verbally requests services from NW Geo, whichever occurs first. The undersigned have read and understand all applicable documents comprising this agreement and accept this bid proposal and the exclusions and assumptions therein, and agrees to retain NW Geologic PLLC for the scope of services outlined in this proposal.

---

Authorized Signature

---

Printed Name & Title

Date

---

Billing Address

---

Email Address

---

Telephone Number

# NW Geologic PLLC

## 2024 Rate Sheet

### PROFESSIONAL SERVICES

|                             |                |
|-----------------------------|----------------|
| Engineering Geologist ..... | \$120.00 /hour |
| Project Manager .....       | \$100.00 /hour |
| Geologist .....             | \$90.00 /hour  |
| Field Technician .....      | \$80.00 /hour  |
| Construction Support .....  | \$90.00 /hour  |
| Plan Review .....           | \$100.00 /hour |
| Laboratory Services .....   | Quote          |
| Mining Services .....       | Quote          |

- NW Geologic PLLC (NW Geo) requests advance notice for scheduling field services. Subcontracted excavation or drilling work may be delayed by 2 to 4 weeks depending on subcontractor schedules.
- A mileage charge shall be invoiced at \$0.70 per map mile from our office – round trip.
- There is no minimum charge per site visit. All field and related report work will be billed under the established contract.
- Overtime rates of 1.5 times the standard rate apply for work in excess of 8 hours per day. We typically do not charge overtime rates unless it becomes necessary and is agreed upon with the client.
- Field testing equipment expenses are included in the hourly rates except where specifically noted on a project specific proposal.
- Rental equipment, reimbursable expenses and subcontractor fees will be invoiced at cost plus 10%.
- Laboratory testing services will be subcontracted and the appropriate amount and type(s) of testing will be included in any proposals, if applicable.
- The ordering of work from NW Geo shall constitute acceptance of the 2024 Rate Sheet, General Conditions, and any project specific proposal.

Sudden Valley Community Association  
**2024 Bridge Designs**

PNW Estimate - Bid Package, Permitting, and Construction Management

| Task                    | Description   | Hours | Estimated Cost     |
|-------------------------|---|-------|--------------------|
| Design Oversight        | Oversight of Chinook Engineering and site visits for design.  | 14    |                    |
|                         | Oversight of NW Geologic PLLC to complete borings and geotechnical report.  | 5     |                    |
|                         | Coordination with utility providers to establish agreements with SVCA for relocating utilities to hang on bridge - power, comm, and water (LWWS Development Agreement). | 24    |                    |
|                         | <b>Total Estimated Design Oversight Hours</b>   | 43    | <b>\$ 5,805.00</b> |
| Permitting              | Site visits with permit agencies. Oversight of permit applications, facilitate signatures / submittals / permit fees.   | 12    |                    |
|                         | <b>Total Estimated Permitting Cost</b>  | 12    | <b>\$ 1,620.00</b> |
| Contractor Bids         | Under separate proposal.  | 0     |                    |
|                         |   |       |                    |
|                         | <b>Total Estimated Bid Package Hours</b>  | 0     | <b>\$ -</b>        |
| Construction Management | Under separate proposal.  | 0     |                    |
|                         | <b>Total Estimated Construction Management Hours</b>  | 0     | <b>\$ -</b>        |
|                         | <b>Total Estimated</b>  |       | <b>\$ 7,425.00</b> |

**LAKE WHATCOM WATER AND SEWER DISTRICT**

**SVCA DEA - Utility Relocation**

Prepared by: M. Mankamy, P.E., Wilson Engineering LLC  
 Prepared for: Bill Hunter, P.E., LWWSD District Engineer/ Assistant General Manager  
 Proposal No.: 2020-001; Task Order 008  
 Date: July 1, 2020

| Task Description  |             | Principal Engineer | Senior CAD Design Technician |                  |
|---|-------------|--------------------|------------------------------|------------------|
| Rate (\$/hr) =  | L.S.        | \$170              | \$107                        |                  |
| <b>Task 1: Project Management / Meetings / Coordination</b> |             |                    |                              |                  |
| Track and report progress & expenditures monthly            |             | 4                  |                              | \$ 680           |
| Project Coordination with District                          |             | 12                 | 4                            | \$ 2,468         |
| <b>Sub-Total</b>  | <b>\$ -</b> | <b>16</b>          | <b>4</b>                     | <b>\$ 3,148</b>  |
| <b>Task 2: Plan Review</b>                                  |             |                    |                              |                  |
| 1 - Initial Plan Review and Comment/Response Letter         |             | 8                  | 12                           | \$ 2,644         |
| 2 - Revised Plan Review and Comment/Response Letter         |             | 4                  | 4                            | \$ 1,108         |
| 3 - Revised Plan Review and Approval Letter                 |             | 2                  | 2                            | \$ 554           |
| <b>Sub-Total</b>  | <b>\$ -</b> | <b>14</b>          | <b>18</b>                    | <b>\$ 4,306</b>  |
| <b>Task 3: Construction Inspection</b>                      |             |                    |                              |                  |
| 1 - Prepare for / Attend Pre-construction meeting           |             | 4                  | 4                            | \$ 1,108         |
| 2 - Inspection - on-site (assume 80 hours)                  |             |                    | 80                           | \$ 8,560         |
| 3 - Inspection - daily reports                              |             |                    | 16                           | \$ 1,712         |
| <b>Sub-Total</b>  | <b>\$ -</b> | <b>4</b>           | <b>100</b>                   | <b>\$ 11,380</b> |
| <b>Task 4: Project Closeout</b>                             |             |                    |                              |                  |
| 1 - Review Record Drawings (assume one revision)            |             | 4                  | 8                            | \$ 1,536         |
| 2 - Prepare Bill of Sale                                    |             | 6                  | 4                            | \$ 1,448         |
| 3 - Prepare Construction Completion Report                  |             | 4                  | 2                            | \$ 894           |
| <b>Sub-Total</b>  | <b>\$ -</b> | <b>14</b>          | <b>14</b>                    | <b>\$ 3,878</b>  |
| <b>Direct Expenses</b>                                      |             |                    |                              |                  |
|   |             |                    |                              | \$ -             |
| <b>Project Total</b>  | <b>\$ -</b> | <b>48</b>          | <b>136</b>                   | <b>\$ 22,712</b> |

Assumptions:

1. District will provide Project Administration and correspondence with SVCA.
2. Third plan submittal will meet all District requirements to be approved.
3. Second Record Drawing submittal will meet all District requirements to be approved.

**2024 LWWSD Design Allowance:**  
 - \$3,148 Engineer's Project Management  
 - \$4,306 Engineer's Plan Review  
 - \$3,500 LWWSD Staff Fees  
 - \$10,954 Subtotal  
 - \$1,095.40 10% Contingency from 2020 to 2024  
 - \$12,049.40 Total LWWSD Design Allowance



## Tyler Andrews

---

**From:** Bill Hunter <bill.hunter@lwwsd.org>  
**Sent:** Monday, August 17, 2020 4:42 PM  
**To:** Tyler Andrews  
**Cc:** Joe Acla (gm@suddenvalley.com); Justin Clary  
**Subject:** RE: SVCA - 2021 Box Culvert Design Projects  
**Attachments:** Task Order 2020-008-SVCA Culverts Plan Review.doc; Engineering Fee Estimate-TO#8\_2020 Rates.pdf

Hi Tyler,

Estimated District labor and consultant resources is in the range of \$26k. I have attached the District's General Engineering consultant's estimate that outlines assumptions. The District staff administration cost estimate of \$3.5k is based on the previous SVCA Area Z Fire Hydrant cost.

|                                 |          |
|---------------------------------|----------|
| District's consultant estimate: | \$22,712 |
| District staff administration:  | \$ 3,500 |
| Estimate Total                  | \$26,212 |

The actual amount will depend on plan review/coordination, duration of construction, unforeseen challenges discovered during excavation, and coordination between contractor and District's consultant for field observations.

Bill Hunter, P.E. | Assistant General Manager / District Engineer



**LAKE WHATCOM WATER & SEWER DISTRICT**

1220 Lakeway Drive  
Bellingham, WA 98229

8am – 5pm, Monday – Thursday  
(360) 734-9224, Fax: (360) 738-8250  
[www.lwwsd.org](http://www.lwwsd.org)

Email from this address is subject to public disclosure pursuant to RCW 42.56.



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

www.suddenvalley.com

## CAPITAL REQUEST MEMO

**To:** Sudden Valley Community Association Board of Directors  
**From:** Jo Anne Jensen, General Manager  
**Date:** February 22<sup>nd</sup>, 2024  
**Subject:** Capital Request – 2024 Bi-Annual Bridge Inspections

---

### **Purpose**

To request funding for the 2024 Bi-Annual Bridge Inspections project.

### **Background**

Sudden Valley Community Association (SVCA)'s 2024 budget includes \$6,760.00 to complete bridge inspections every 2 years, following National Bridge Inspection Standards (NBIS). SVCA's bridges were last inspected in February of 2022, and are due for re-inspection in 2024. It is unknown if any evaluations were conducted prior to the 2022 inspections.

### **Analysis**

SVCA has four road bridges and eight golf course bridges to be inspected by a certified bridge inspector. Integrity Structural Engineering PLLC completed these inspections in 2022 and have submitted a proposal to complete inspections again in 2024, see attached. In 2022, the inspection fee was \$6,540.00, this year the inspection proposal is \$5,561.00. The reduction in cost is due to bridge details and data that can be reused from the 2022 inspection, resulting in approximately a 15% savings. Bridge inspections are proposed to be completed at the end of February, with reports submitted in March. Two reports will be submitted to SVCA, one for the four road bridges and one for the eight golf course bridges.

### **Proposal**

Authorize \$5,561.00 from Roads for the 2024 Bi-Annual Bridge Inspections project. Upon completion of the inspections, the submitted report will be shared with the Board of Directors.

### **Request**

Request \$5,561.00 from Roads for the 2024 Bi-Annual Bridge Inspections project.

### **Motion**

Move that the SVCA Board of Directors approve the allocation of \$5,561.00 from Roads for the 2024 Bi-Annual Bridge Inspections project, and authorize the General Manager to execute a contract with Integrity Structural Engineering per their proposal dated February 5<sup>th</sup>, 2024.



# Sudden Valley Community Association

360-734-6430

4 Clubhouse Circle Bellingham, WA 98229

[www.suddenvalley.com](http://www.suddenvalley.com)

## Approvals

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ SVCA Finance Committee

Approved: \_\_\_\_\_ Not Approved: \_\_\_\_\_ Board of Directors

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

ELECTED, SVCA Board President



February 5, 2024

Mr. Tyler Andrews  
PNW Services, Inc.  
P.O. Box 30498  
Bellingham, WA 98228

Dear Mr. Andrews:

**Re:** Proposal for Professional Bridge Inspection Services at Sudden Valley Community Assoc.  
Inspection and Reporting for Four Vehicle Bridges & Eight Golf Course Bridges

Thank you for your request and the opportunity to assist you again with the private Sudden Valley Community Association bridges. Integrity Structural Engineering's (ISE) scope of work is to perform a visual inspection, create/modify existing sketches, and take field measurements, for the four (4) vehicle bridges (one is used primarily for a utility support) and eight (8) golf course pedestrian type bridges some of which may be crossed by golf course maintenance equipment. The condition assessments for the vehicle bridge will match to that of the standard WSBIS reporting, while the others will not but shall be similar to my previous reporting containing engineering reporting and criteria consistent for their intended use. Scour observations, creek profile, bridge sketches/measurements, inspection notes, and structural condition state appraisal will be completed for each bridge and shall be provided electronically via email.

Specific work breakdown tasks are:

- Coordinate and perform one (1) site visit to inspect all bridges in a single day.
- Create field sketches, notes, and take measurements/photographs for reporting use.
- Complete a WSDOT type bridge inspection/reporting by a WSDOT/FHWA certified bridge inspector documenting current conditions for the four (4) vehicle bridges.
- Complete a bridge inspection/reporting and condition assessment of the eight (8) golf course bridges by a WSDOT/FHWA certified bridge inspector.
- Provide two written summary memos one for the vehicle bridges and one for the golf course bridges that will also include statements of the general observed conditions and maintenance recommendations.
- Electronic transmission of the completed reports, sketches, and photographic figures.

#### **SCHEDULE**

ISE's inspection work of this project will commence upon your written authorization with access coordinated directly with SVCA for completion in February 2024. Completed inspection reports will be transmitted within two (2) weeks after field inspection.



In consideration of the mutual covenants and agreements stated below, the parties agree:

**I. ISE's Services Provided**

A. On a Time & Material Basis for the compensation stated below, ISE shall provide to the Client professional services of:

1. Bridge Inspection and Technical Reporting.

B. These services are provided exclusively for the Client's use on the Private Sudden Valley Community Association Bridges and may not be used for any other purpose or by any other person or entity without the prior written consent of ISE.

**II. Compensation, Fee, and Billing**

Services will be provided and billed on a Time and Materials Basis at the consulting rate of \$170.00 per hour for Structural Engineer/Bridge Consultant and expenses at direct cost plus ten percent (10%) mark-up with a not to exceed Budget of \$5,561 without prior Client approval. Fees and costs are billed monthly and at completion of the reporting, which are due and payable upon receipt. Client must notify ISE in writing within ten (10) days of the date of the Invoice of any question, issue or discrepancy with the Invoice. Absent such written notification the Client agrees that the Invoice amount is correct, due and payable, and binding on Client. Client shall pay ISE the amount due within thirty (30) days of the date of each Invoice. Any amount not paid shall accrue interest at the rate of one percent (1%) per month from the date of the Invoice. Failure to pay the fees billed may result in the termination of ISE services.

**III. Client's Duties and Responsibilities**

In addition to Client's duties stated above with respect to the invoices and payment to ISE and except as otherwise specifically agreed in writing between the parties, the Client shall provide to ISE:

1. Copies of past inspection reporting, Plans, and/or permits for the bridges, if any.
2. Cooperation with ISE for the work and inspection including and not limited to right of access.

**IV. Limitations of Liability**

1. ISE shall not be responsible for nor held liable for any matter outside its control including, but not limited to: employee or contractor strikes or lockouts at job sites, delays or accidents caused by third parties, failure by Client to provide ISE information necessary to perform its services, and negligent work or intentional acts by other parties.

2. ISE makes no representations regarding the existing bridge structural condition, scour critical classification of foundations/slopes, or any cost figures made in connection with construction costs and/or fees.

3. Client understands and agrees that compensation, as set forth in Paragraph II, is based solely on the Services Provided in Paragraph I.

4. Regardless of the presence or absence of coverage, ISE shall not be liable for loss or damage beyond its control, or for loss of earnings, loss of use or other incidental or consequential damages suffered by Client or others, however caused. *Integrity Structural Engineering, PLLC's* liability hereunder, whether in tort or in contract, for any cause of action shall be limited to one hundred percent (100%) of the fee earned by ISE under this Agreement or \$50,000, whichever is greater.

Thank you for your request of my proposal Mr. Andrews. If accepted, provide me with a counter signed copy of this letter indicating your acceptance to initiate work and a \$1000 retainer that will be used to offset the balance due at final invoicing.

Sincerely,



Kenneth M. Wilson, PE SE  
Bridge Consultant / WSDOT Bridge Inspector #D2038

Encl: Cost Estimate Spreadsheet



Notice to proceed and acceptance of this Proposal for Professional Engineering Services,

By: \_\_\_\_\_  
Name (Printed)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title (Printed)

2024 Sudden Valley Br Inspection

2/5/24

| Task   | PM/Br<br>Engr                              | Total Hrs ISE,<br>PLLC |  |
|--|--|------------------------|--|
| <b>2024 Sudden Valley Community Bridge Inspection &amp; Reporting for Four Vehicle Bridges &amp; Eight Golf Course Bridges</b>   |  |                        |  |
| <b>1 Inspection, Condition Assessment, and Technical Reporting</b><br>a. Coordination, Phone & Email Technical Discussions, Admin.<br>b. Background Review, Preparation, and Inspection Planning<br>c. Preparation, Travel, Bridge Inspection, Measurements, Photographic Figures, and Sketches (4 Vehicle Bridges+8 Golf Course Bridges, One Day Maximum)<br>d. Inspection Memorandum and WSBS Reporting Preparation, Photographic Figures, Maintenance Recommendations, and Email Summary (4 Vehicle Bridges)<br>e. General Bridge Inspection Reporting Memo, Sketches, Maintenance Recommendations, and Photographic Figures, and Email Summary (8 Golf Course Bridges) | 1<br>2<br>13<br>8<br>8                     | 1<br>2<br>13<br>8<br>8 |  |
| <b>Subtotal Task 1</b>   | <b>32</b>                                  | <b>32</b>              | Subtotal Task 1                                |
| <b>2024 Sudden Valley Community Bridge Inspection &amp; Reporting for Four Vehicle Bridges &amp; Eight Golf Course Bridges</b>   |  |                        |  |
| <b>1 Inspection, Condition Assessment, and Technical Reporting</b>   | 32   | 32                     | Subtotal Task 1                                |
|  | 32   | 32                     |  |
|  | Billing Rate                               | \$ 170.00              |  |
|  | Fee  | \$ 5,440               | \$ 5,440                                       |
|  | Mileage                                    | \$ 121                 | labor cost = \$ 5,440<br>direct costs = \$ 121 |
|  | Courier, mail                              | \$ -                   | ISE, PLLC = \$ 5,561                           |
|  | Tolls                                      | \$ -                   |  |
|  | Reproduction                               | \$ -                   |  |
|  | <u>ISE, PLLC Direct Expenses Subtotal:</u> | <u>\$ 121</u>          |  |