

# URBAN GREEN WALL | A LIVING LABORATORY MONITORING REPORT | 2016-2017

### BACKGROUND

The urban green wall is an active experiment to bring nature to unexpected places in the city. Part plant, part infrastructure—it's living architecture! Since its installation in July of 2016, City staff have been monitoring the wall's performance, testing different species, and adapting maintenance techniques to determine what works best in the challenging conditions of our local climate. From rapidly changing temperatures to drying winds, fluctuations in delivery of water and nutrients to vertical growing conditions, the urban green wall is the first year-round installation to face the extremes of the Front Range. This monitoring report captures challenges and adaptations to date to expand community knowledge about the feasibility of living architecture in Fort Collins and across the Front Range.

### **MAINTENANCE + MONITORING**

The living wall is maintained by the City of Fort Collins Parks Department with input from project partners in Natural Areas and Colorado State University's Department of Horticulture and Landscape Architecture. Since July of 2016, Parks staff have photographed the wall monthly to track vegetation patterns over time. They have also recorded observations and maintenance events in a log to document changing conditions on the ground (e.g. hand weeding, pruning, plant replacement, plant die-off, fertigation adjustments, etc.). Their findings are summarized in the Image Tracking sections that follow, and the entire Maintenance and Monitoring Log is attached for reference as Appendix A.



## TESTING ... TESTING ...

The first round of plants tested on the living wall consisted of a mix of sedum and herbaceous cultivars selected for their hardiness and ability to adapt to extreme conditions. They were planted as plugs directly into Sempergreen Flexipanel cells and cared for at a local nursery until installation.



Species tested at the time of installation included:

- *Sedum spurium* 'Blaze' Blaze Stonecrop
- *Sedum rupestre '*Angelina' Angelina Stonecrop
  - Sedum spurium 'John Creech' John Creech Stonecrop
- *Thymus praecox* 'Coccineus' Pink Creeping Thyme
- *Thymus lanuginosus* Woolly Thyme
- Sedum spurium 'Voodoo' Voodoo Stonecrop
- *Thymus praecox* 'Nutmeg' Creeping Thyme
- *Ajuga reptens* 'Chocolate Chip' Dwarf Carpet Bugle
- Delosperma 'Lavender Ice' Lavender Ice Iceplant

# **IMAGE TRACKING | 2016**

### JULY

Pre-planted Flexipanels were installed on site on July 18, 2016 with the following system settings: N-P-K: 17-2-5; Dosatron rate of .035; irrigation set to run once per day for nine minutes per zone (see zone diagram below).



### AUGUST | DIE-OFF

Ongoing construction and the installation of the surrounding landscape interrupted the living wall's irrigation and fertigation settings and lead to wildly varied and excessive run times during the first month of establishment. In addition, the absence of a fertigation bypass valve lead to delivery of the entire season's nutrients in the first week following installation. As a result, all of the herbaceous species (*Thymus praecox* 'Coccineus;' *Thymus lanuginosus*; *Thymus praecox* 'Nutmeg;' *Ajuga reptens* 'Chocolate Chip') died from overfertilization, over-watering, drought, or a combination of all three (outlined below in white). Several of the surviving species exhibited signs of shock (*Delosperma* 'Lavender Ice') and/or root rot (*Sedum rupestre* 'Angelina').



### AUGUST | REPLANT

To replace lost specimens, the team focused on testing additional sedum and delosperma cultivars as they seemed best equipped to withstand the stresses of drought, over-watering, and intense nutrient delivery experienced by the wall in July. On August 1, 2016, test plots of *Sedum tetractinum* 'Coral Reef' and *Sedum nevii* 'Silver Frost' were installed to give the maintenance team time to refine watering schedules and develop a more nuanced understanding of the irrigation system. After a successful trial period, the species depicted below were added to the wall as plugs on August 26, 2016.

- Sedum tetractinum 'Coral Reef' Chinese Sedum
   Delosperma 'Fire Spinner' Fire Spinner Ice Plant
   Sedum sexangulare Tasteless Stonecrop
   Delosperma 'John Proffitt' John Proffitt Ice Plant
   Sedum hybridum'Czar's Gold' Mongolian Stonecrop
  - Sedum nevii 'Silver Frost' Southern Stonecrop
- Sedum spurium 'Dragon's Blood' Dragon's Blood Stonecrop

Irrigation was shifted to "odd" days of the week and set to run at 9:00 am for fifteen minutes in zone one, ten minutes in zone two, and five minutes in zone three. Fertigation was terminated for the remainder of the season.



### SEPTEMBER

No adjustments were recorded for the living wall in September. No die-off was noted and most species appeared stable.



### OCTOBER

Deadheading and pruning occured to trim-up "leggy" specimens (e.g. *Sedum rupestre* 'Angelina'). No other system adjustments were recorded.



### NOVEMBER [NO IMAGE]

The irrigation system was blown out on November 2, 2016, and the maintenance team shifted to hand watering once per week, or as dictated by weather (consecutive days above freezing). By mid-November, *Delosperma* species were observed to be "struggling."

### DECEMBER

The living wall was hand watered as needed.



# **IMAGE TRACKING | 2017**

### JANUARY [NO IMAGE]

Hand watering continued as needed. *Sedum tetractinum* 'Coral Reef' appeared to be "shriveled," and all *Delosperma* continued to struggle.

### FEBRUARY

Hand watering continued as needed. Die-off was recorded for all *Delosperma* and *Sedum tetractinum* 'Coral Reef' (outlined below in white). New growth was observed for *Sedum rupestre* 'Angelina,' *Sedum* 'Blue Spruce,' *Sedum hybridum,* and *Sedum sexangulare*.



### MARCH

Hand watering continued as needed, irregular moisture levels were observed across the panels, and surviving species exhibited signs of new growth. Insects were observed taking an interest in the wall by mid-March.



### APRIL

Irrigation and fertigation started up again in April with a new NPK ratio: 21-7-21 +3MgO. The maintenance team assessed die-off and species performance and developed a replacement plant palette to test in 2018.



Some bands of die-off were filled in with existing species (e.g. *Sedum spurium* 'Voodoo,' *Sedum sexangulare, Sedum rupestre* 'Angelina'). As all *Delosperma* and *Sedum tetractinum* 'Coral Reef' did not survive the winter, the grasses depicted below were proposed to replace them and continue plant trials.

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### MAY

All replacement planting (with the exception of *Bouteloua dactyloides* and one section of *Sedum nevii*) occurred on May 25, 2017. Existing *Sedum nevii* 'Silver Frost', and all existing *Sedum spurium* cultivars had a robust spring rebound. *Sedum sexangulare* slowly put out new growth, and both *Sedum rupestre* 'Angelina' and *Sedum reflexum* 'Blue Spruce' remained stable, but somewhat delicate (fell off the wall easily).



Areas awaiting the arrival of *Bouteloua dactyloides* in the upper left and lower right hand corners; zone awaiting *Sedum nevii* in the center.



# 2017

### JUNE

No system changes were recorded. Remaining replacement plants were installed toward the end of June or in early July. Aphids were observed on the living wall!



### JULY

No system changes were recorded. *Bouteloua dactyloides* was noted to be dry, *Sedum nevii* 'Silver Frost' was marked as 'struggling,' and *Sedum sexangulare* exhibited patchy performance across panels. An aphid infestation ensued and was treated in mid-July with Safer Soap, which appeared to knock back the population a bit.



### AUGUST

At the beginning of the month, most winter survivors appeared to be thriving along with newly planted *Bouteloua dactyloides* (bottom right hand corner), and the *Cynodon hybrida* (left of center). *Bouteloua dactyloides* in the top left hand corner struggled. Aphids persisted and ladybugs were brought in to help control the population by mid-August. Dead plant matter was removed and several species were trimmed back to try to contain the infestation. Irregular panel saturation and uneven water flow were noted, and fertigation ceased. The team made the decision to hold off on any replacement planting until the spring of 2018 to see if winter's chill might assist with aphid control.



### SEPTEMBER

The maintenance team continued to remove dead plant material and decreased irrigation. All grasses appeared to be unaffected by the aphids and putting out new growth. Uneven moisture distribution was observed across panels.



### OCTOBER

The irrigation system was blown out and hand watering commenced. Plants seemed to be stable and/or dormant.



### NOVEMBER [NO IMAGE]

Hand watering continued as necessary (one minute per panel). *Cynodon hybrida* was trimmed back and surviving plants appeared to be stable. Only four ladybugs were observed, and aphids were sparse to "essentially gone." Uneven water flow and distribution persisted, and panels without plants were quite dry.

### DECEMBER

Hand watering continued as needed.



### FINDINGS

After two years of experimentation, observation, and consultation with living architecture expert Dr. Jennifer Bousselot (Colorado State University Horticulture and Landscape Architecture), the urban green wall team has learned that:

- *Sedum spurium* are resilient! They weathered most challenges that came their way and popped back to life in a variety of adverse conditions.
- Although *Sedum* in general were well suited to life on the wall, their extensive use made the wall vulnerable to infestations (e.g. aphids).
- Areas where die-off occurred created patchy 'deserts' that affected water flow across the wall.

### **NEXT STEPS**

Moving forward, the living wall team will:

- Increase diversity by testing a range of genera that add structural and aesthetic variety and help the wall resist infestations;
- Break up similar planting bands with different genera (e.g. alternate between *Sedum, Lysimachia*, etc.);
- Moderate nitrogen inputs and watering to avoid the creation of favorable conditions for aphids.
- Maintain cover across the wall to mitigate opportunities for patchy deserts to form.



### FOR QUESTIONS CONTACT:

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# APPENDIX A | MAINTENANCE AND MONITORING LOG

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LIVING W   MAINTENANCE + MOI	NAME OF PERSON	Ewelly Bredchieft	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's 4 Sunny Cloudy Partly Cloudy Rainy 5	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?:	Soil Medium: Saturation - dry Panels?   Cov	SPRING MOBILIZATION <sup>+</sup>	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustments</li> <li>Irrigation activities relate to changes in fre</li> <li>Any pruning or weeding activities should in</li> <li>Any pest management activities should did o Any structural maintenance includes check</li> <li>Any other actions taken that do not fall un</li> <li>Please refer to the Routine Living Wall Mi</li> <li>1 2 3 4 5</li> <li>C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</li></ul>	

	ACTION(S) TAKEN	LINS Wall	Blown out for	Seuton.			r hand 1x week		RIZATION	ipes/ blowout and shift to hand B (frequency to depend on , but plant roots must remain it all times!).	IIZET, and Cleaning Tricers. Ers). Determation with Profit Determation Statement of Bood
	VICE AREA (CIRCLE)	rtigation igation	uning   Weeding	st Maliageriterit uctural her			watering by	evolver Permitting	WINTE	ich zone and/ Drain p waterir climate moist a	in what quantity. n. setum Sumer Clar setum Summer Clar setum Bute Spruce
	RENT SETTINGS SER	-K: Fei atron: Irri	gation Frequency: Pru	gation Duration: Fe gation Time of Day: Str Ot	5	COMMENDATIONS	rison lin >	as reded wh		crease irrigation time of ea frequency	ose rates), checking tank le vystem assessments (e.g. cl antity (e.g. 11 specimens) hat has been applied, and e gutter. described in detail. described in detail. d maintenance informatio. d maintenance informatio. sedum tank Coef
UMENTATION	TIME (e.g. 11.00 - 11.15) CU	2.45 pm	Irri	Irri sieeting Windy		RE	3	Ō	FA	on time of each zone De or	gs, NPK ratios and frequency (d time of day, as well as general noved (if known) and in what qu is being managed (if known), w is being managed (if known), w is being managed (if known), w ice areas should be noted and for more detailed operations or 9 10 11 12 9 10 11 12
NITORING DOC	DATE	11/2		80's 90's 100+ Snowy Hailing/	5			werage?:	SUMMER	Increase irrigati and/ or frequen	s to Dosatron settin requency, duration, l note what was rem describe what pest cking the frame an under the listed ser Maintenance guide 6 7 8 6 8 6 7 8 6 8 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9
/ING WALL   MAINTENANCE + IMC	JAME OF PERSON	Multic	MEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's		OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?:	<i>Soil Medium</i> : Saturation - dry Panels?   Co	CODING MORI IZATION*	Irrigation: Zone run times, any adjust- ments?	Fertigation activities include adjustment Irrigation activities relate to changes in f Any pest management activities should Any structural maintenance includes che Any other actions taken that do not fall Please refer to the Routine Living Wall 1 2 3 4 5 1 2 3 4 5

A CTIONICI TAVEN	) ACTION(S) TAKEN	Handweterng					ITERIZATION	n pipes/ blowout and shift to hand aring (frequency to depend on ate, but plant roots must remain st at all times!).	itters). itters	ary 🛛 🔘 Delosperma 'John Praffic'	Delosperma "Lavender ice"	e Sedum (tragan's Blood	
	SERVICE AREA (CIRCLE	Fertigation	Pruning   Weeding	Pest Management Structural Other			4IM	each zone and/ Drai wat clim moi	checking lines and em checking lines and em is). Id in what quantity. <i>tion</i> .	Sedum 'Summet Gk	Sedum Voodoo	Sedum Blue Spru	l'Collins
	CURRENT SETTINGS	N-P-K: Dosatron:	Irrigation Frequency:	Irrigation Juration: Irrigation Time of Day:	RECOMMENDATIONS		FALL	Decrease irrigation time of or frequency	y (uose rates), unecking tan ral system assessments (e.g. tt quantity (e.g. 11 specimer 1), what has been applied, al tt the gutter. Ind described in detail. <i>s and maintenance informa</i> 12 <b>12</b>	Sedum "Cast's Gold"	Sedum 'John Creech'	Sedum "Coral Reef	
UMENIATION	TIME (e.g. 11:00 - 11:15)	7:00a-9:00a		Sleeting Windy		Spines) security be and may of the ssing.		ion time of each zone hcy.	gs, why ratios and requent time of day, as well as gene noved (if known) and in wha is being managed (if known d flexipanels and clearing ou dice areas should be noted a <i>for more detailed operation</i> <i>for more detailed operation</i>				
	DATE	11/16/16		80's 90's 100+ Snowy Hailing/		Pelospina r rerages: 5 - 71	SUMMER	Increase irrigati and/ or frequer	to Dosatron setun equency, duration, note what was ren escribe what pest king the frame an wing the frame an uder the listed ser aintenance guide				
IVING WALL   MAINTENANCE + MC	NAME OF PERSON	Emily Bredehoeft	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?:	SPRING MOBILIZATION*	rrigate often for shorter periods of time. <i>rrigation</i> : Zone run times, any adjust- nents?	<i>Fertigation</i> activities include adjustments <i>Irrigation</i> activities relate to changes in fr Any <i>pruning or weeding</i> activities should i Any <i>pest management</i> activitites should c Any other actions taken that do not fail ur <i>Please refer to the</i> <b>Routine Living Wall M</b> <b>1 2 3 4 5</b>				

OF PERSON         DARE         TIME (ac 1:100-11:12)         CUBRENT STITUKGS         SERVICE AREA (CIRCLE)         ACTONICID SERVICE         ACTONICID SERVICE AREA (CIRCLE)         ACTONICID SERV	ALL     DATE     TIME (e.g. 1:00-11:1)       ALL     Destroit     Fertigetion     Fertigetion       ALL     Prove of the standard     Fertigetion     Fertigetion       ALL     Prove of the sta	VG WALL   IVIAINTENANCE + IVIOI					
Image: Interface of the second se	New Action     New Construction     New Construction     New Construction     New Construction       165     305     605     305     505	OF PERSON	DATE	TIME (e.g. 11:00 - 11:1	5) CURRENT SETTINGS	SERVICE AREA (CIRCL	E) ACTION(S) TAKEN
Efficience       Transition       Integriton frequency.       Transition       Part Management         06. 303. 505. 605. 705. 803. 905. 100+       Tool with Snowy Halling Steering Windy       Text Management       Feat Management         0. 0.005. 505. 605. 705. 803. 905. 100+       Text Management       Snow Halling Steering Windy       ECOMMENDATIONS       Clucural         0. 0.004       Party Cluody Rany Snowy Halling Steering       Windy       RECOMMENDATIONS       Clucural         Administration       60. 503. 505. 605. 705. 803. 905. 100+       RECOMMENDATIONS       Clucural       Noncoreal         Administration       60. Float       Feat Low       RECOMMENDATIONS       Clucural       Noncoreal         Administration       60. Float       Feat Low       Feat Low       Peat	Efficiencie       Proming I Weeting         10:30:40:505       60:305       60:305       60:400         10:30:40:505       60:305       60:400       Retronoment         10:30:40:505       60:400       Rainy Snowy Hainey Steeting Windy       Drouteral         10:30:40:505       60:305       60:400       Rainy Snowy Hainey Steeting Windy         10:30:40:505       60:400       Rainy Snowy Hainey Steeting Windy       Reconverted         VMIDIOS       Charactering       Reconverted       Reconverted       Reconverted         VMIDIOS       Charactering       Reconverted       Reconverted       Reconverted       Reconverted         VMIDIOS       Charactering       Reconverted       Reconverted       Reconverted       Reconverted       Reconverted         VMIDIOS       Charactering       Reconverted	1.1 Ruddhuoft	11/23/16	10a-11:200	N-P-K: Dosatron:	Fertigation	Hand water and
Integrion Duration:       Pert Management         Cloudy       Farty Cloudy       Rany Snowy Hailing/Stetting       Windy         WITONS       Mine Snowy Hailing/Stetting       Mine Snowy Hailing/Stetting       Mine Snowy         WITONS       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy         Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy         Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy         Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy         Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy         Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy         Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy         Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy       Mine Snowy         Mine Snowy       Mine	Bit indication Duration:     Part Management       Cloudy Partly Cloudy Rainy Snowy Halling/Seeting Windy     Indigation Duration:     Part Management       Cloudy Partly Cloudy Rainy Snowy Halling/Seeting Windy     Indigation Duration:     Part Management       Cloudy Partly Cloudy Rainy Snowy Halling/Seeting Windy     Indigation Duration:     Part Management       AVIONS     AVIONS     Part Cloudy Rainy Snowy Halling/Seeting Windy     Part Lass       AVIONS     Control     Part Lass     Part Lass     Part Lass       AVIONS     Control     Part Lass     Part Lass     Part Lass       AVIONS     Control     Part Lass     Part Lass     Part Lass       I uass day and Instance     Part Lass     Part Lass     Part Lass     Part Lass       I uass day and Instance     Part Lass     Part Lass     Part Lass     Part Lass       I uass day and Instance     Difference     Difference     Difference     Difference       I uass day and Instance     Difference     Difference     Difference     Difference     Difference       I uast of the and I unstance     Difference     Difference     Difference     Difference     Difference       I uast of the and I unstance     Difference     Difference     Difference     Difference     Difference       I uast of the and transisto Data to	IFR (CIRCIE)			Irrigation Frequency:	Proning   Weeding	
Couldy Particle Store up is also and the image of the	Octoordy       Parity Cloudy       Parity Cloudy       Parity Stowy       Parity Steeling       Wint         All outdy       Parity Cloudy       Parity Cloud				Irrigation Duration:	Pest Management	
WITONS       RECONMENDATIONS       Collar abservables on back with the second back of the theory of theory of the theory of theory of the theory of t	WITIONS       RECOMMENDATIONS       College bases of	0's 30's 40's 50's 60's 70's 8 Cloudy Partly Cloudy Rainy S	30's 90's 100+ snowy Hailing/ 3	Sleeting Windy	Irrigation Time of Day:	Structural Other	
entr. vger 1 Dry 1 Chlorotich fresh pluchs Search to be down free of the starting of the starting start and search and the starting of the sta	earth. Vgor 1 Dry 1 Cubranter Mearl Plu-Hs Sear, Ho Le Jong The out of preferences and search and with the feath and the search of the search	VATIONS			RECOMMENDATION	(office abserv	ations on back ->)
Submitzation*         SummER         FAL         Immediate adjustments         NINTERIZATION           often for shorter periods of time prizone run times, any adjust.         SummEx         And/or frequency, and/or frequency, and/or frequency.         Destant and and/or frequency.         Destant and and/or frequency.           often for shorter periods of time and/or frequency.         Inclusion         Destant and and/or frequency.         Destant and and/or frequency.         Destant and and/or frequency.           of a chargeneric prizone activities include adjustments to Dosation settings. NFK ratios and frequency (dose rates), checking tank levels, refilling liquid fertilitier, and cleaning filters.         Destant and checking tank levels, refilling liquid fertilitier, and cleaning filters.           uning or weeding activities should note what was removed (if known) and in what quantity (e.g. 11 specimens).         In what quantity.         In what quantity.           uning or weeding activities should note the parter.         In a 5         0         1         2           if a 2         3         6         7         9         1         1           if a 2         3         6         7         9         1         1           if a 2         3         6         7         9         1         1           if a charter activities should note what was removed (if known), what has been applied, and in what quantity. <td< td=""><td>SMOBILIZATION         SUMMER         FAL         WINTERIZATION           often for shorter periods of time         Increase infigation time of each zone         Denni pipes/ blowout and s           often for shorter periods of time         Increase infigation time of each zone         Denni pipes/ blowout and s           often for shorter periods of time         Increase infigation time of each zone         Denni pipes/ blowout and s           often for shorter periods of time         Increase infigation time of each zone         Denni pipes/ blowout and s           often activities indude adjustments         Increase infigation time of each zone and/         Denni pipes/ blowout and s           off or activities indude adjustments         Indi of or frequency,         Denni pipes/ blowout and s           off or activities indi of or activities should note what was removed (if known), what has been applied, and in what quantity, ructural maintenance includes checking the frame and flexipanels and clearing out the gutte.         In a 2 3 4 5 6 7 1 8 0 11 12           1         2         3         5         0         11 12           1         2         3         6         7         8         0         0           1         2         3         5         6         7         8         0         0         0           1         2         3         6</td><td>ealth: Vigor?   Dry?   Chlorotic?: Me a few dry part less but dium: Saturation - dry Panels?   Cove</td><td>ost plants se by all sec. erage?:</td><td>en to be doing</td><td>Pover 6:1</td><td>hun, 3 days and 64</td><td>column, 2nd ac</td></td<>	SMOBILIZATION         SUMMER         FAL         WINTERIZATION           often for shorter periods of time         Increase infigation time of each zone         Denni pipes/ blowout and s           often for shorter periods of time         Increase infigation time of each zone         Denni pipes/ blowout and s           often for shorter periods of time         Increase infigation time of each zone         Denni pipes/ blowout and s           often for shorter periods of time         Increase infigation time of each zone         Denni pipes/ blowout and s           often activities indude adjustments         Increase infigation time of each zone and/         Denni pipes/ blowout and s           off or activities indude adjustments         Indi of or frequency,         Denni pipes/ blowout and s           off or activities indi of or activities should note what was removed (if known), what has been applied, and in what quantity, ructural maintenance includes checking the frame and flexipanels and clearing out the gutte.         In a 2 3 4 5 6 7 1 8 0 11 12           1         2         3         5         0         11 12           1         2         3         6         7         8         0         0           1         2         3         5         6         7         8         0         0         0           1         2         3         6	ealth: Vigor?   Dry?   Chlorotic?: Me a few dry part less but dium: Saturation - dry Panels?   Cove	ost plants se by all sec. erage?:	en to be doing	Pover 6:1	hun, 3 days and 64	column, 2nd ac
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arise activities include adjustments to Dosatron settings, NRK ratios and frequency (dose rates), checking tank levels, refilling liquid fertilizer, and cleaning filters ion activities relate to changes in frequency, duration, time of day, as well as general system assessments (e.g., thecking lines and emitters). <i>uning or weeding activities</i> should note what was removed (if known), what has been applied, and in what quantity (e.g., 11 specimens). est <i>management</i> activities should describe what pest is being managed (if known), what has been applied, and in what quantity. Tuctural maintenance includes checking the frame and flexipanels and clearing out the gutter. Tuctural maintenance includes checking the frame and flexipanels and clearing out the gutter. Tuctural maintenance under the listed service areas should be noted and described in detail. The rations taken that do not fail under the listed service areas should be noted and described in detail. The rations taken that do not fail under the listed service areas should be noted and described in detail. The <i>z</i> <b>a b c b b a b a b b a b b b b b b b c b c b c b c c c c c c c c c c</b>	arise activities include adjustments to Dosatron settings, NPK ratios and frequency (dose rates), checking tank levels, refilling liquid fertilizer, and cleaning fi ion activities relate to changes in frequency duration, time of day, as well as general system assessments (e.g. checking lines and emitters). <i>uning or weeding</i> activities should note what was removed (if known), what quantity (e.g. 11 specimens). <i>est management</i> activities should describe what pase la flexipanels and clearing out the gutts. <i>tructural maintenance</i> includes checking the frame and flexipanels and clearing out the gutter. <i>ther actions</i> taken that do not fail under the listed service areas should be noted and described in detail. <i>ther actions</i> taken that do not fail under the listed service areas should be noted and described in detail. <i>ther actions</i> taken that do not fail under the listed service areas should be noted and described in detail. <i>ther actions</i> taken that do not fail under the listed service areas should be noted and described in detail. <i>ther actions</i> taken that do not fail under the listed service areas should be noted and described in detail. <i>ther actions</i> taken the do not fail under the listed service areas should be noted and described in detail. <i>ther actions the base base base base base base base bas</i>	often for shorter periods of time on: Zone run times, any adjust-	Increase irrigati and/ or frequen	on time of each zone icy.	Decrease irrigation tim or frequency.	e of each zone and/ Dra war clin	in pipes/ blowout and shift to hand ering (frequency to depend on nate, but plant roots must remain ist at all times!).
ther actions taken that do not fail under the listed service areas should be noted and described in detail. ther actions taken that do not fail under the listed service areas should be noted and described in detail. <i>e refer to the</i> Routine Living Wall Maintenance <i>guide</i> for <i>more detailed operations and maintenance information</i> . <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 2 3 4 5 6 7 7 8 9 10 11 12 <b>1</b> 3 5 5 5 5 7 7 8 9 10 11 12 <b>1</b> 3 5 5 5 5 5 7 7 8 9 10 11 12 <b>1</b> 3 5 5 5 5 5 5 5 5 5 5 7 8 9 10 11 12 <b>1</b> 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Incluring maintenance includes checking the frame and flexipanels and clearing out the gutter. ther actions taken that do not fail under the listed service areas should be noted and described in detail. <i>erefer to the Routine Living Wall Maintenance guide for more detailed operations and maintenance information.</i> 1 2 3 4 5 6 7 8 9 10 11 21 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ation activities include adjustments t ion activities relate to changes in frei runing or weeding activities should ni est management activitites should de	o Dosatron settin quency, duration, ote what was rem escribe what pest	gs, NPK ratios and frequ- time of day, as well as g toved (if known) and in v is being managed (if kno	ency (dose rates), checking eneral system assessments what quantity (e.g. 11 speci own), what has been applie	ank levels, refilling liquid e.g. checking lines and en nens). I, and in what quantity.	ertilizer, and cleaning filters. nitters).
1 2 3 4 5 6 7 8 9 10 11 12 mining in the first of th	1       2       3       4       5       6       7       8       9       10       11       12         1       2       3       4       5       6       7       8       9       10       11       12         1       2       3       4       5       6       7       8       9       10       11       12         1	ructural maintenance includes check ther actions taken that do not fall und constructions that builded and	and the frame and der the listed serv der the listed serv	l flexipanels and clearing rice areas should be note for more detailed operation	g out the gutter. ed and described in detail. Hows and maintenance infor	matian.	
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	Market in the state in the				Sedum Blaze	Delotperma 'fire St	anter' Sedum sezangulare
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Sedura (balance)       Sedura (balance)         Sedura (balace)	Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber       Seam Tax Iber         Seam Tax Iber       Seam Tax Iber <t< td=""><td></td><td></td><td></td><td>Sedum John Creech</td><td>Sedum Yaoda</td><td>Dekosper ma 'Lavender ke'</td></t<>				Sedum John Creech	Sedum Yaoda	Dekosper ma 'Lavender ke'
	Image: Second				Sedum Cotal Reef	Sectum "Bhue Spri	tee' Sectum 'Dragon's Blood'
					Sedum neveil		
	DEGRADO LA CORRECT MANAGEMENTER URBAN LA					City of Ort Collins	

NG DOCUN Solution Soluti	E + MONITORING DOCUM       DATE     Th       DATE     Th       DATE     Th       Sols     90's       's     70's       Rainy     Snowy       Increase     Reach       M     SSN       M     SSN       M     SNMMER       SumMER     No       Instr     Increase inrigation time       Instr     Increase inrigation time       M     SSN       M     SSN       M     SSN       M     SSN       M     SSN       Maintenace     SumMer       Instr     Increase inrigation time       Instr     Increase inrigation time       Instr     Increase inrigation time       SSN     Paratice       SSN     Paratice       SSN     Paratice       Instr     Increase in	IENTATION	ME (e.g. 11:00 - 11:15) CURRENT SETTINGS SERVICE AREA (CIRCLE) ACTION(S) TAKEN	2:56p-1:30 Dosatron: Fertigation Hand waterng	Irrigation Frequency: Pruning   Weeding	Irrigation Time of Day: Structural Utien Windy Other	RECOMMENDATIONS	attry to get c frozen caly	Fall	ime of each zone Decrease irrigation time of each zone and/ Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times().
	E + MONITORIN       E + MONITORIN       DATE       DATE       DATE       II//3       Rainy Snowy I       Rainy Snowy I       Rainy Snowy I       II//3       rotic2:       els?   Coverage?:       motic2:       inst-       of time.       inst-       of time.       inst-       of time.       inst-       should note what       should describe w       udes checking the fi       not fail under the li       g Wall Maintenant       S	IG DOCUMENTATION	TIME (e.g. 11:00 - 11:15) CU	00/1/ 12:56p-1:30 00		s 100+ Hailing/ Sleeting Windy	RE	limits starting to get	FA	e irrigation time of each zone De frequency

	ACTION(S) TAKEN Hench Wider Mg	plendt.	ERIZATION bipes/ blowout and shift to hand ng (frequency to depend on 2, but plant roots must remain at all times ().	ers).
	ERVICE AREA (CIRCLE) Fertigation Irrigation Pruning   Weeding Pest Management Structural Other	ry new missing	each zone and/ Drain p wateric climate moist c	<ul> <li>I levels, refilling liquid fert</li> <li>checking lines and emitte</li> <li>s)</li> <li>id in what quantity.</li> </ul>
	CURRENT SETTINGS S N-P-K. Dosatron: Dosatron: Irrigation Frequency: Irrigation Duration: Irrigation Time of Day:	RECOMMENDATIONS Did not retice or	FALL. Decrease irrigation time of or frequency.	(dose rates), checking tank al system assessments (e g quantity (e.g. 11 specimen , what has been applied, an the gutter d described in detail. and maintenance informat sedum Taus <sup>6</sup> sedum Taus <sup>6</sup> sedum Taus <sup>6</sup> sedum Taus <sup>6</sup>
CUMENTATION	TIME (e.g. 11:00 - 11:15)		ion time of each zone ncy.	igs, NPK ratios and frequency time of day, as well as gener noved (if known) and in what is being managed (if known) d flexipanels and clearing out vice areas should be noted ar for more detailed operations a 9 10 11 1 3 9 10 11 11 11 11 11 11 11 11 11 11 11 11
ONITORING DOC	DATE 12/39/6 80's 90's 100+ 5nowy Hailing/	overage?:	SUMMER Increase irrigat and/ or freque	s to Dosatron settin requency, duration if note what was rer describe what pesi describe what was rer describe what pesi describe what was rer describe what was rer describe what pesi describe what was rer describe what was rer describe what pesi describe what was rer describe what rer desc
LIVING WALL   MAINTENANCE + MG	NAME OF PERSON E.W. W Bredeheft WEATHER (CIRCLE) 10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS Plant Health. Vigor? Dryy   Chlorotic?: Soil Medium: Saturation dry Panels   Cc	SPRING MOBILIZATION <sup>+</sup> Irrigate often for shorter periods of time. <i>Irrigation</i> : Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustment</li> <li>Irrigation activities relate to changes in f</li> <li>Any pruning or weeding activities should</li> <li>Any pest management activities should</li> <li>Any other actions taken that do not fall t</li> <li>Please refer to the Routine Living Wall T</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>6</li> <li>6</li> <li>7</li> <li>7</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>7</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>7</li> <li>4</li> <li>7</li> <li>7</li> <li>8</li> <li>8</li> <li>9</li> <li>9</li></ul>

200002 MATTTUTE FOR THE MULT SETTECHENENT 'cwcolate Drain pipes/ blowout and shift to hand i avarant , par us i climate, but plant roots must remain Delosperma 'Lavender kre' Delasperma 'John Proffit' Sedum 'Dragon's Blood watering (frequency to depend on Sedum sexangulare Fertigation activities include adjustments to Dosatron settings, NPK ratios and frequency (dose rates), checking tank levels, refilling liquid fertilizer, and cleaning filters. gri notron くろうろしの URBAN LAB SERVICE AREA (CIRCLE) ACTION(S) TAKEN S uga 0 0 Ö 0 moist at all times!) 7 VOV WINTERIZATION leal pro buching -1 Irrigation activities relate to changes in frequency, duration, time of day, as well as general system assessments (e.g. checking lines and emitters). ţ d Delouperma 'Fire Spanel 010 Sedum 'Bhue Spruce' Sedum "Summer Glor Four Voodoo Pruning | Weeding 6.25 4 1 1 2 2 2 S Any pest management activities should describe what pest is being managed (if known), what has been applied, and in what quantity. Pest Management Decrease irrigation time of each zone and/ repare 1 ave rear is 3 ort Collins 0 0 Fertigation 0 Structural Irrigation りろうと Other 15-69-22 + Please refer to the Routine Living Wall Maintenance guide for more detailed operations and maintenance information. Any pruning or weeding activities should note what was removed (if known) and in what quantity (e.g. 11 specimens). s priver 2 RECOMMENDATIONS Sedum John Greech' Irrigation Time of Day: CURRENT SETTINGS Sedum 'Czar's Gold Sedum 'Coral Reef D Any other actions taken that do not fall under the listed service areas should be noted and described in detail. Sedum 'Blaze' Irrigation Frequency: Sedum newei Irrigation Duration: 146 C 2 2 2 2 0 2 or frequency. Core o Any structural maintenance includes checking the frame and flexipanels and clearing out the gutter. Dosatron: Chip 0 0 0 N-P-K: 0  $\bigcirc$ FALL 12 TIME (e.g. 11:00 - 11:15) 12:00-1:00 de altin 11 Increase irrigation time of each zone and/ or frequency. Snowy Hailing/ Sleeting Windy LIVING WALL | MAINTENANCE + MONITORING DOCUMENTATION 2 5 0 MA 6 00 rt-90's 1004 SUMMER -0-8 DATE Soil Medium: Saturation - dry Panels? | Coverage?: 80's G. ¢ 10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy Irrigate often for shorter periods of time. Plant Health: Vigor? | Dry? | Chlorotic?; S Irrigation: Zone run times; any adjust-ments? d Vorers SPRING MOBILIZATION<sup>4</sup> WEATHER (CIRCLE) NAME OF PERSON OBSERVATIONS RIJO < u ۵ ш

PFERSON         DATE         TIME (ag 1100-1113)         CURRENT SETTINGS         SERVICE AREA (CRCIE)         ACTIONIS) TAKEN           IL         Clored blank ff         2/10/17         Description         Frequency, Freq, Freduency, Frequency, Freq, Frequency, Frequency, Fr	OF PERSON         DATE         TIME         Reg 11:00-11:15         CURRENT SETTINGS         SERVICE AREA (CIRCL           ILIJ S.C.ed.e.J.n.e. H.         Z/10/1/17         IN.P.K.         Entigation         Entigation           IPK         Disatori         Disatori         Entigation         Entigation           IPK         Disatori         Disatori         Fingation         Entigation           IPK         Disatori         Disatori         Previous         Entigation           IPK         Disatori         Disatori         Disatori         Previous           Outor         Party Cloudy         Party Cloudy         Party Cloudy         Party Cloudy           MINIONS         Entity span         Disatori         Structural           MINIONS         Entity span         Entity span         Disatori           MINIONS         Entity span         Disatori         Structural           MINIONS         Entity span         Disatori         Disatori           MINIONS         S	WALL   MAINTENANCE + MON	ITORING DOCUMENTATION			
Interfaction     Frequency (registion frequency: registion frequenc	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	DF PERSON	DATE TIME (e.g. 11:00 - 11:15)	CURRENT SETTINGS SERVI	CE AREA (CIRCLE) ACTI	ION(S) TAKEN
AfCINCLE1     Printing     Wending     Wending       's 33' 40's 50's 60's 90's 100+     Irigiation Transel Toxic     Printing     Wending       Cloudy     Party Cloudy     Party Cloudy     Party Cloudy     Party Cloudy       ATIONS     ATIONS     Printing     Wending     Wending       ATIONS     ATIONS     Printing     Printing     Wending       ATIONS     ATIONS     Printing     Printing     Printing       ATIONS     ATIONS     Printing     Printing     Printing       ATIONS     Printing     Printing     Printing     Printing       ATIONS     Printention     Printention <td>EFICIRCLE)     Frinding I Weeding       S 305, 405, 505, 605, 705, 805, 905, 100+     Frinding I Weeding       Cloudy     Partly Cloudy       RECOMMENDATION:     Frinding I Weeding       ATIONS     ATIONS       ATIONS     ATIONS       RECOMMENDATION:     Structural       Prest Management     Extraction Time of Day.       RECOMMENDATION:     Structural       RECOMMENDATION:     Structural       ATIONS     MOBILIZATION:       RECOMMENDATION:     Structural       MOBILIZATION:     Structural       MOBI</td> <td>4 Bredehneft</td> <td>2/10/17</td> <td>N-P-K: Ferti Dosatron: Irriga</td> <td>tion Ho.</td> <td>Pur</td>	EFICIRCLE)     Frinding I Weeding       S 305, 405, 505, 605, 705, 805, 905, 100+     Frinding I Weeding       Cloudy     Partly Cloudy       RECOMMENDATION:     Frinding I Weeding       ATIONS     ATIONS       ATIONS     ATIONS       RECOMMENDATION:     Structural       Prest Management     Extraction Time of Day.       RECOMMENDATION:     Structural       RECOMMENDATION:     Structural       ATIONS     MOBILIZATION:       RECOMMENDATION:     Structural       MOBILIZATION:     Structural       MOBI	4 Bredehneft	2/10/17	N-P-K: Ferti Dosatron: Irriga	tion Ho.	Pur
5     303, 503, 503, 503, 503, 503, 503, 100+     Imgation Time of Day.     First Management       Cloudy Party Cloudy Rainy Snowy Halling/Steeting (Windy)     ElcoMMENDATIONS     First Management       Cloudy Party Cloudy Rainy Snowy Halling/Steeting (Windy)     ElcoMMENDATIONS     RECOMMENDATIONS       ATIONS     ATIONS     RECOMMENDATIONS     RECOMMENDATIONS       ATIONS     ATIONS     RECOMMENDATIONS     RECOMMENDATIONS       Attracts shy and built connections of the source of a shy and strateginghon time of each zone and frequency.     Party pres/ bio/voort and shift to hand on the shift of a short of a shy and strateginghon time of each zone and frequency.       MOBILIZATION     Summers     Summers     MALL       Mobilization     Summers and a short source of a short source and frequency.     Parin ppez/ biovoort and shift to hand on the shift to hand on the shift connecting the frequency.       Mobilization     Summers and a short source of a short source and frequency.     Montensis and a short source and frequency (loce a res), the ching tank levels, refilling liquid fremes.       Montensis and dort on the shift on short connecting tank levels, refilling liquid fremes.     Montensis       Montensis and dort on what varies the short and the shift on short constrained and the strate.     Montensis       Montensis and dort on what varies the short and the shift on short constrained and the strate.     Montensis       Montensis and dort on the short sourconstand frequency (loce short) what has been applied, and in what	5     305     405     505     705     805     905     100+       Cloudy     Partly Cloudy     Rainy     Snowy     Haling/Sleeting     Middl       ATIONS     ATIONS     ATIONS     Structural       ATIONS     ATIONS     Structural     Structural       ATIONS     ATIONS     RECOMMENDATIONS     Structural       ATIONS     ATIONS     ATIONS     Structural       Anot of requency.     Attracting structural     Attracting structural     Mol       Attracting structures structural maintenance of day as well as general structural     Date     Mol       Attracting structures structure of thme.     Increases irrigation time of each zone and/or frequency.     Date       Attracting structures in addition time of each zone and frequency.     Date     Date       Attracting structures structures in and acreating out the guttstructures structures structures in anot or at	zg/(CIRCLE)		Irrigation Frequency: Pruni	ng   Weeding	Jatering
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ATIONS       RECOMMENDATIONS         mix vigor 7 Lory 1 Chronetry: Sol, Possible, environment of each starts for up and solution of the solu	ATIONS       RECOMMENDATIONS         ATIONS       Recommendation         Recreases Any and NaryHe. Some new grout Second by be learned in Saturation - Ory Panels? Come new grout Wester Store by the learned in Saturation - Ory Panels? Come new grout Wester Store and the Card's Second Hac. Card's Cold Second Fields.         MOBILIZATION       SUMMER         MOBILIZATION       SUMMER         Mobilization times; any adjust-       Bundy of frequency.         Mobilization times; any adjust-       Bundy of frequency.         Mobilization times; any adjust-       Increase irrigation time of each zone         Mile for shorter periods of time.       Increase irrigation time of each zone         Mobilization times; any adjust-       SUMMER         Mobilization       Increase irrigation time of each zone         Mobilization times; any adjust-       SumMer         Motion activities include adjustments to Dosatron settings, NPK ratios and frequency.       EALL         Motion activities should note what was removed (if known) and in what quantity (eg. 11 specimens).       Increase include adjustments (addition time of each zone and in what quantity (egr to the Routine Living Wall Maintenance guide for more detained operations and maintenance information.         2       3       5       7       9       10       11       12         2       3       <	Cloudy Partly Cloudy Rainy S	nowy Hailing/ Sleeting Windy	Othe		
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All with the second state of the se	All and the set of the s			Sedum Talaze	O Detorperma 'Fire Spinner'	Sedum terangulare
Image: Section of the section of th	Selan Value       Selan Value			Sedum 'Clar's Gold'	🔵 Sedum Summer Glary'	Detosperma 'John Profilit'
Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref         Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref         Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref         Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref         Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref         Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref         Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref         Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref       Selan Total Ref	Second Table for Second Catalleer     Second Catalleer     Second Table for Second Catalleer       Second Table for Second Catalleer     Second Catalleer     Second Table for Second Catalleer			Sedum 'John Creech'	Sedum Yoodoo'	Detosperma 'Lavender ker'
	Contraction of the second seco			Sedum "Caral Reef	Sedum "Blue Spruce"	Sedum 'Dragon's Blood'
				Sedum neveli		
					lins Second	

VAME OF PERSON	DATE	TIME (e.g. 11:	:00 - 11:15)	CURRENT SETTINGS	SERVICE AREA (CIRC	CLE) ACTION(S) TAKEN
Rita	91-2	4 Z	2	N-P-K: Dosatron:	Fertigation	Amor
WEATHER (CIRCLE)				Irrigation Frequency:	Pruning   Weeding	2.5.4
05 20's 30's 40's 50's 60's 70's 8	0's 90's 1004 nowy Hailing/	Sleeting Wind	Ą	Irrigation Duration: Irrigation Time of Day:	Pest Management Structural Other	
)BSERVATIONS				RECOMMENDATIONS		
lant Health: Vigor?   Dry?   Chlorotic?; & Cecouercy - Dut surviv - oil Medium: Saturation - dry Panels?   Cove	ad pland	are w	politiv			
PRING MOBILIZATION*	SUMMER			FALL	×	/INTERIZATION
rrigate often for shorter periods of time. <i>rrigation</i> : Zone run times; any adjust- nents?	Increase irrigat and/ or freque	aion time of each ncy.	zone	Decrease irrigation time or frequency.	of each zone and/ D w	rain pipes/ blowout and shift to hand atering (frequency to depend on imote, but plant roots must remain oist at all times!).
<i>Fertigation</i> activities include adjustments tr <i>Irriontion</i> activities relate to changes in free	o Dosatron setti mency duration	ngs, NPK ratios at time of day, as y	nd frequency well as genera	<ul> <li>(dose rates), checking ta al system assessments (e</li> </ul>	ink levels, refilling liquid.	d fertilizer, and cleaning filters. imitters).
Any pest management activities should ne Any pest management activities should de	ote what was rer scribe what pest	noved (if known,	) and in what ed (if known),	: quantity (e.g. 11 specim , what has been applied,	ens). and in what quantity.	
Any structural maintenance includes check Any other actions taken that do not fall unc	ing the frame an ler the listed ser	id flexipanels and vice areas should	d clearing out d be noted an	t the gutter. 1d described in detail.		
Please refer to the Routine Living Wall Ma	intenance guide	for more detaile	ed operations	s and maintenance inform 2	lation.	
				Sedum Pluze	Delosperma Tire	: Spinner' 🖉 Sedum sz sangulare
				Sedum 'Clar's Gold'	Sedum "Summa	rr Gloery 🔘 Deleosperima 'John Profifit'
				Sedum 'John Creech'	Sedum Yoo	doo' Dekosperma 'Lavender ke'
				Sedum 'Coval Reef'	Sedum Tikue S	pruce <sup>4</sup> Sedum 'Dragon's Blood'
				Sedum neveii		
					rt Collins	(*) 

		Mil				~	thear	124										
C	RCLE) ACTION(S) TAKEN		hand	en care		to reture water run	mattering wantes se	WINTERIZATIÓN	Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times().	uid fertilizer, and cleaning filters. d emitters).		0,77	4	ter stranger Date A	Voodoor Washington (1) And (1)	moord t table at unitate		DATE DATE DATE DATE DATE DATE DATE DATE
	SERVICE AREA (CI	Fertigation	Pruning   Weeding	rest Management Structural Other		to the water	ng invection		of each zone and/	nk levels, refilting liq. .g. checking lines and	ens). and in what quantity		ation. rew 3	sedum Su	II. unpaș		rt Collins	Contration In Contration
	CURRENT SETTINGS	N-P-K: Dosatron:	Irrigation Frequency:	Irrigation Duration: Irrigation Time of Day:	RECOMMENDATIONS	renous dou	adjust hang.	FALL	Decrease irrigation time of frequency.	y (dose rates), checking tar ral system assessments (e.	t quantity (e.g. 11 specime ), what has been applied, a	it the gutter. Ind described in detail.	s and maintenance inform	Sedum Takate	Sedum 'bihn Greech'	sedum nevel	50	AND July as helders
CUMENTATION	TiME (e.g. 11:00 - 11:15)	1: 30 PM		+ / Sleeting		osperma plots			tion time of each zone incy.	ngs, NPK ratios and frequenc 1. time of day, as well as gene	moved (if known) and in wha tt is being managed (if known	nd flexipanels and clearing ou rvice areas should be noted a	e for more detailed operation					dend
NITORING DO	DATE	2-21-17		80's 90's 100 Snowy Hailing		toth dela	verage?:	SUMMER	Increase irriga and/ or freque	to Dosatron setti equency. duration	note what was re describe what pe	cking the frame al nder the listed se	faintenance guid					
LIVING WALL   MAINTENANCE + MC	NAME OF PERSON	Rite	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's (70) Sumpy Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?:	Soil Medium: Saturation - dry Panels?   Co	SPRING MOBILIZATION*	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustments</li> <li>Irrination activities relate to changes in fr</li> </ul>	<ul> <li>Any pruning or weeding activities should</li> <li>Any pest management activities should c</li> </ul>	o Any structural maintenance includes cher D Any other actions taken that do not fall u	+ Please refer to the Routine Living Wall N					Christian P

ING WALL   MAINTENANCE + MOI	NITORING DOCUMENTATION			
ME OF PERSON Emily Bredehoeft EATHER (chrcLE) \$ 20's 30's 40's) 50's 60's 70's 8 inv Cloudy Partly Cloudy Rainy S	DATE TIME (e.g. 11:00 - 11:15) $3/3/17$ $1\rho - 2\rho$ 80's 90's 100+ inowy Hailing/ Sleeting Windy	CURRENT SETTINGS SERV N-P-K: Fert Dosatron: Irrig Irrigation Frequency: Prur Irrigation Duration: Pest Irrigation Time of Day: Stru	IICE AREA (CIRCLE) A( Lation ation ing Weeding Management ctural	TION(S) TAKEN
SERVATIONS Int Health: Vigor?   Dry?   Chlorotic?: Surviving Spe Medium: Saturation - dry Panels?   Cove equals prove in panels	cies shoung new growth, srage?: some more saturated than	RECOMMENDATIONS Nonitar and water a measure new growth plants.	is needed. Centin and replace d	ue to ead or missing
tiNG MOBILIZATION⁺ jate often for shorter periods of time. <i>ation</i> : Zone run times; any adjust- its?	SUMMER Increase irrigation time of each zone and/ or frequency.	FALL Decrease irrigation time of each or frequency.	NUNTERIZ WINTERIZ Drain pipe watering ( <i>climate, bu</i> <i>moist at al</i>	ATION s/ blowout and shift to hand frequency to depend on it plant roots must remain I times!).
<i>tigation</i> activities include adjustments to <i>gation</i> activities relate to changes in frec <i>y pruning or weeding</i> activities should no <i>y pest management</i> activitites should de <i>y</i> structural maintenance includes checki <i>y</i> other actions taken that do not fall und ease refer to the <b>Routine</b> Living Wall Mai 1 2 3 4 5	<ul> <li>D Dosatron settings, NPK ratios and frequency quency, duration, time of day, as well as generate what was removed (if known) and in what scribe what pest is being managed (if known) ing the frame and flexipanels and clearing out in the listed service areas should be noted at the the listed service areas should be noted at intenance guide for more detailed operations for 7 8 9 10 11 1</li> </ul>	<ul> <li>(dose rates), checking tank leve ral system assessments (e.g. chei t quantity (e.g. 11 specimens).</li> <li>, what has been applied, and in t the gutter.</li> <li>and described in detail.</li> <li>and maintenance information.</li> </ul>	ils, refilling liquid fertilize cking lines and emitters). what quantity.	r, and cleaning filters.
		Sedum Buze'	<ul> <li>Detoxperma 'Fire Spinner'</li> <li>Sectum "Summer Glary"</li> </ul>	Sedum Leanny John Praffit
		Sedum 'John Crech' Sedum 'Caral Reef Sedum 'Caral Reef Sedum reesi	Sedum Yoodoo' Sedum Bue Soruca'	Deforgerma 'Lavander ka'     Sedum 'Dragon's Blood
		E COLOR	lins	

LIVING WALL   MAINTENANCE + MO	INITORING DOC	UMENTATION			
NAME OF PERSON	DATE	TIME (e.g. 11:00 - 11:15)	CURRENT SETTINGS	SERVICE AREA ((	CIRCLE) ACTION(S) TAKEN
John K / Killy B	3/6/17		N-P-K: Dosatron:	Fertigation	
WEATHER (CIRCLE)			Irrigation Frequency:	Pruning   Weedi	ß
10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy 3	80's 90's 100+ Snowy Hailing/ 9	sleeting Windy	Irrigation Duration; Irrigation Time of Day:	Pest Managemer Structural Other	
OBSERVATIONS			RECOMMENDATIONS		
Plant Health: Vigor?   Dry?   Chlorotic?:	1.				
Soil Medium: Saturation - dry Panels?   Cov	/erage?:		Notes	en bac	J
SPRING MOBILIZATION <sup>+</sup>	SUMMER		FALL		WINTERIZATION
Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	Increase irrigatic and/ or frequen	in time of each zone cy.	Decrease irrigation time or frequency.	of each zone and/	Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).
<ul> <li>Fertigation activities include adjustments t</li> <li>Irrigation activities relate to changes in fre-</li> </ul>	to Dosatron setting quency, duration, i	s, NPK ratios and frequency time of day, as well as gene	<ul> <li>(dose rates), checking tai ral system assessments (e</li> </ul>	nk levels, refilling li .g. checking lines ar	uid fertilizer, and cleaning filters. d emitters).
<ul> <li>Any pruning or weeding activities should n</li> <li>Any pest management activities should de</li> </ul>	iote what was rem escribe what pest i	oved (if known) and in what s being managed (if known)	t quantity (e.g. 11 specime ), what has been applied,	ens). and in what quantit	
<ul> <li>Any structural maintenance includes check of Any other actions taken that do not fall un-</li> </ul>	king the frame and der the listed servi	flexipanels and clearing our	t the gutter. Ind described in detail		
+ Please refer to the Routine Living Wall Ma	aintenance guide f	or more detailed operations	and maintenance inform	ation.	
	6 7 8		2 Sectium Talaze	O Delasperm	a 'fee Spinner' 🧎 🔵 Sedum sezangulare
			Sedum 'Czar's Gold'	sedum's	mmer Glacy Detaupeems 'bohn Prafit'
			Sedum 'John Creech'	Sedun	Vaodoo' Delosperma 'Lavender ka' - 📈
			Sadum 'Coral Reer	Sedum'	lute Spruce" Sedum "Dragon's Blood"
			Sedum neveli		
				Collins	
			THILFIE IN THE CITY	Services La	

REFORM         DATE         TIME (a.g. 1:00-1:113)         CURRENT SETTINGS         SERVICE AREA (CIRCLE)         ACTION(S) TAKEN           RUNE (CIRCLE)         3/10/17         1:137 – 2:232         Desarror         Ferrigation         Ferrigation           RUNE (CIRCLE)         3/10/17         1:137 – 2:232         Desarror         Ferrigation         Ferrigation           VO clock         Ferrigation         Treparto         Ferrigation         Provention         Ferrigation           VO clock         Ferrigation         Ferrigation         Ferrigation         Ferrigation         Ferrigation           VO clock         Ferrigation         Ferrigation         Ferrigation         Ferrigation         Ferrigation           VI clock         Start         Start         Cort         Start	ME OF PERSON         DATE         TIME (kg 1:10) - 1:15         CURRENT SETTINGS         SERVICE AREA CIRCLED         ACTION(S) TAKIN           ATTINET (CLED)         MP-K.         Ferguistion         Ferguistion         Ferguistion         Ferguistion           ATTINET (CLED)         MP-K.         Ferguistion         Ferguistion         Ferguistion         Ferguistion           ATTINET (CLED)         MP-K.         Ferguistion         Ferguistion         Ferguistion         Ferguistion           2.05.3 : 005.3 : 005.3 : 005.3 : 005.3 : 004.4         Ferguistion         Ferguistion Duration         Ferdimention         Ferdimention           2.05.3 : 005.3 : 005.3 : 005.4         Ferdimention         Ferdimention         Ferdimention         Ferdimention         Ferdimention           2.00.4 : 00.4 : Ferdimention         ENDOR         Ferdimention	NG WALL   MAINTENANCE + MO	NITORING DOCUMENTATION			C
MAR:     Enternation       Thirdy Credeby Hains Steered     3/10/17       Tringstoon Frauency:     Thirdy France       Tringstoon Frauency (Thirdy France     Thirdy France       Tringstoon Frauency (Thirdy France     Thirdy France       Tringstoon Frauency (Thirdy France     Thire       Thirdy France     Thirdy F	Sub-light Field Council     Strington Frequency.     Energation       ATTER (CIRCLE)     ATTER (CIRCLE)       ATTER (CIRCLE)     ATTER (CIRCLE)       ATTER (CIRCLE)     ATTER (CIRCLE)       ATTER (CIRCLE)     Finishing (Finishing)       ATTER (CIRCLE)     Finishing)       ATTER (CIRCLE)     Finishing)       ATTER (Finishing)     Fininishing) <td>ME OF PERSON</td> <td>DATE TIME (e.g. 11:00 - 11:15)</td> <td>CURRENT SETTINGS SE</td> <td>RVICE AREA (CIRCLE</td> <td>) ACTION(S) TAKEN</td>	ME OF PERSON	DATE TIME (e.g. 11:00 - 11:15)	CURRENT SETTINGS SE	RVICE AREA (CIRCLE	) ACTION(S) TAKEN
Multific (Lincle)     Multific (Lincle)       205: 305: 405: 505: 405: 505: 100-4     Triggtion Three of Day:       205: 305: 405: 505: 405: 505: 100-4     Figure on Three of Day:       205: 305: 405: 505: 405: 505: 805: 905: 100-4     Triggtion Three of Day:       205: 305: 405: 505: 405: 505: 805: 905: 100-4     Triggtion Three of Day:       205: 405: 505: 405: 505: 805: 905: 100-4     Triggtion Three of Day:       205: 405: 505: 405: 505: 805: 905: 100-4     Triggtion Three of Day:       205: 405: 505: 405: 505: 605: 73: 515: 7     Triggtion Three of Day:       205: 405: 505: 405: 505: 73: 515: 7     Triggtion Three of Day:       205: 405: 505: 405: 505: 755: 555: 755: 755     Triggtion Three of Day:       205: 405: 505: 405: 755: 755: 755: 755: 755: 755: 755: 7	Milet (CIRCLE)     Milet (CIRCLE)       205     305     405     505     100-4       205     305     405     505     100-4       205     305     405     500-4     100-4       205     305     405     500-4     100-4       205     305     405     505     100-4       205     305     405     505     100-4       205     305     405     50-5     100-4       205     305     405     50-5     100-4       205     305     405     50-5     100-4       205     400-4     50-5     50-5     100-4       205     400-4     50-5     50-5     20-5       205     400-4     50-5     50-5     20-5       205     400-4     50-5     50-5     50-5       205     400-4     50-5     50-5     50-5       205     400-4     50-5     50-5     50-5       205     50-5     50-5     50-5     50-5       205     50-5     50-5     50-5     50-5       205     50-5     50-5     50-5     50-5       205     50-5     50-5     50-5     50-5	mily Bredebuelt	3/10/17 1:15p-2:20p	N-P-K: Dosatron:	ertigation	
305     305     405     605     705     305     404     704     70       30     400     400     Rainy     Snown     Halling/ Steeting     Windh       FEMAINDIS     Femain     Structural     Structural     Structural       FEMAINDIS     Femain     Structural     Structural       FEMAINDIS     Femain     Structural     Structural       Femain     Structural     Structural     Structural       And angenter     Structural     Structural     Structural       And and angenter     Structural     Structural     Structural       And and angenter     Structural     Structural     Structural       And a	305       309       409       400       605       705       805       400       400       Alter Alter         any Couch Party Couch Bainy Snowy Halling/Steeting Windy       Feet Management       ERCOMMENDINE       Feet Management       Under the start and the st	ATHER (CIRCLE)		Irrigation Frequency: P	runing   Weeding	
ERVATIONS       RECOMMENDATIONS         Health: Ward 1 Dry 1 Chlorotch: 2 No. In: Soing Plandy: (3, 3, 2/5r       Corryhure to runnin: Saturation - dry Panets 1 Coverage:         Area and plants: Saturation - dry Panets 1 Coverage:       Corryhure to runnin: Saturation - dry Panets 1 Coverage:       Area No.         Area of Saturation - dry Panets 1 Coverage:       SumMER       FALL       Anthorne to runnin: Saturation - dry Panets 1 Coverage:         als are 2 Hill word; remaining live foldary running live foldary remaining live foldaring live for the dry and a contract and for shorter periods of time.       MINTERIZATION       MINTERIZATION         Mission: Saturation - dry Panets 1 Coverage:       FALL       MINTERIZATION       MINTERIZATION         Big of a care of the for shorter periods of time.       SUMMER       FALL       MINTERIZATION         Mission: Saturation - dry Panets 1 contract and integration time of each zone and for integration time of each zone and for integration time of each zone and grite outers of the dring field to a contract and integration time of each zone and statist to hand up of integrates to change in the quant ty leg. 11 specimens.       MINTERIZATION         In 2 3 4 5 6 7 8 9 10 11 2       2 3 4 5 6 7 8 9 10 11 2       2 1 1 2       MINTERIZATION         In 2 3 4 5 6 7 8 9 10 11 2       2 3 4 5 6 7 8 9 10 11 2       2 1 1 2       MINTERIZATION         In 2 3 4 5 6 7 8 9 10 11 2       2 3 4 5 6 7 8 9 10 11 2       2 1 1 1 2       MINTERIZATION	ERKNTIONS       RECOMMENDATIONS         Internet: Vigori 1 Dry? 1 Chicotic?: 2: Next Missing Plankty Should St. 23, 24, 55       Cerkhvue the Yuch; 1, 24, 47, 1, 24, 47, 1, 24, 47, 1, 24, 47, 1, 24, 47, 1, 24, 47, 1, 24, 44, 1, 1, 24, 24, 1, 1, 1, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	20's 30's 40's (50's 70's 70's ny Cloudy Partly Cloudy Rainy	80's 90's 100+ Snowy Hailing/Sleeting Windy	Irrigation Duration: Irrigation Time of Day: SI	est Management tructural ther	watering
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c} \label{eq:constraint} \end{tabular} \end{tabular} \\ \end{tabular} tabular$	ERVATIONS		RECOMMENDATIONS		
Weedium: Saturation - dry Panels?   Coverage:       Coverage:       Coverage:       Coverage:         oils are 3-111 mosst, reventing her pharty shout on the control of a cut to the coverage in gration time of each zone       FALL       MINTERIZATION         Ning MOBILIZATION       SUMMER       FALL       Minterious       Coverage:         Ning most, reventing her pharty shout on the control of each zone       Decrease irrigation time of each zone       Decrease irrigation time of each zone       Decrease irrigation time of each zone         office under of the coverance of the coverage in frequency.       Increase irrigation time of each zone       Decrease irrigation time of each zone       Decrease irrigation time of each zone         office under of the coverage in frequency.       Increase irrigation time of each zone       Decrease irrigation time of each zone       Decrease irrigation time of each zone         office under of the coverage in frequency.       Increase irrigation time of each zone       Decrease irrigation time of each zone       Decrease irrigation time of each zone         office under of the coverage in frequency.       Increase include schedule in the coverage in frequency.       Decrease irrigation time of each zone       Decrease irrigation time of each zone         office under of the coverage in frequency.       Increase include schedule in the coverage	Medium: Structure       Media       Me	tt Health: Vigor?   Dry?   Chlorotic?: 2	new missing plents: C3, 3c/5r	continue to more	litar the pl	ants, watering
MIG MOBILIZATION*         SUMMER         FALL           are often for shorter periods of time.         Increase irrigation time of each zone         Decrease irrigation time of each zone         Decrease irrigation time of each zone and/ or frequency.         MINTERIZATION           are not times; any adjust- tigation activities include adjustments to Dosatron settings. NK ratios and frequency, dose rates), checking tank levels, refiling liquid fertilizer, and cleaning filters.         MINTERIZATION           origon: Zone run times; any adjust- tigation activities include adjustments to Dosatron settings. NK ratios and frequency, dose rates), checking tank levels, refilling liquid fertilizer, and cleaning filters.         Decrease irrigation time of each zone and/ or frequency dose rates), checking tank levels, refilling liquid fertilizer, and cleaning filters.           pruning or weeding activities should describe what pest is being managed (if known), what has been applied, and in what quantity.         MINTERIZATION           r a tructural maintenance includes checking the listed server and fielognener activities created and describe under the listed server and fielogneners and maintenance light and in what quantity.         MINTERIZATION           r a g g g g g g g g g g g g g g g g g g	INGE MOBILIZATION       FAL         INGE MOBILIZATION       SUMMER       FAL         ate often for shorter periods of time.       Increase irrigation time of each zone       Decrease irrigation time of each zone       Decrease irrigation time of each zone         officin Zone run times; any adjust-       and/or frequency.       Decrease irrigation time of each zone       Decrease irrigation time of each zone         officin Zone run times; any adjust-       and/or frequency.       Decrease irrigation time of each zone       Decrease irrigation time of each zone         option zone run times; any adjust-       and/or frequency.       Decrease irrigation time of each zone       Decrease irrigation time of each zone       Decrease irrigation time of each zone         option zone runtimes: no boastron settings. NFK ratios and frequency (does rates), checking tank levels, refiling liquid fertifice; and cleaning filters.       Decrease irrigation time of each zone         option activities should note what was removed (if nown), and in what quantity.       Pest monogeneric activities should be noted and described in detail.         other actions taken that do not fall under the listed service areas should be noted and described in detail.       Decrease information.         1       2       3       0       1       1         2       3       0       1       1       1       0         1       2       3       0	Medium: Saturation - dry Panels?   Cov in a construction - dry Panels?   Cov	erages: reg live plants show no major	as needed.		2
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C	EA (CIRCLE) ACTION(S) TAKEN	teeding Hand	ement		d water as needed.	WINTERIZATION	nd/ Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times().
	CURRENT SETTINGS SERVICE AR	N-P-K: Fertigation Dosatron: Irrigation Irrigation Frequency: Pruning   M	Irrigation Duration: Pest Manag Irrigation Time of Day: Structural Other	RECOMMENDATIONS	continue monitaring an	FALL	Decrease irrigation time of each zone a or frequency.
NITORING DOCUMENTATION	DATE TIME (e.g. 11:00-11:15)	3/15/2017 1:08p-2:10p	lt 80's 90's 100+ Snowy Hailing/ Sleeting Windy		erages: plandary to murstigate the	SUMMER	Increase irrigation time of each zone D and/ or frequency.
LIVING WALL   MAINTENANCE + MO	NAME OF PERSON	Emily Bredehoeft	10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: Po Cherges: Ob Serve A. T., Se Soil Medium: Saturation - dry Panels?   Cov	SPRING MOBILIZATION <sup>+</sup>	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?

FERSON         DATE         TIME         Expansion         DATE         TIME         Expansion         CURRENT SETTINGS         SERVICE AREA (CIRCLE)         ACHON(S) TAKEN           ACAL         ACAL         ACAL         ACAL         ACAL         ACAL         ACAL         ACAL         ACHON(S) TAKEN           ACAL	PERSON A Bredehvedt (CIRCLE) 30's 40's 50's (60's) 70's 80	DATE TIME (e.g. 11:00 - 11:15)			
Lend         ADD/17         1:10p - 2:10p         NoPk: Dosator: Ingetion Frequency: Ingetion Frequency: Ingetion Frequency: Ingetion Target on Duration: Ingetion Target on Duration: Inget on State	1 Bredehvedt CIRCLE) 30's 40's 50's 60's 70's 80		CURRENT SETTINGS	SERVICE AREA (CIRCLE)	ACTION(S) TAKEN
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05     405     505     505     306     306     306     306     306     305     305     305     305     306 <td>0's 40's 50's 60's 70's 80</td> <td></td> <td>Irrigation Frequency:</td> <td>Pruning   Weeding</td> <td>Land course of</td>	0's 40's 50's 60's 70's 80		Irrigation Frequency:	Pruning   Weeding	Land course of
Partly Cloudy Rainy Snowy Halling/Sleeting Windy     Impact Internet on the partial of the provided		's 90's 100+	Irrigation Duration:	Pest Management Structural	
US       RECOMMENDATIONS         Gary 1 Dry 1 Chloratic: No main the start should with a main the m	y Partiy Loudy Rainy Sno	owy Hailing/Sleeting Windy		Other	
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III.12ATION*     FALL       for shorter periods of time.     Increase irrigation time of each zone     Percease irrigation time of each zone       for shorter periods of time.     Increase irrigation time of each zone     Decrease irrigation time of each zone       and/ or frequency.     Decrease irrigation time of each zone     Decrease irrigation time of each zone       and/ or frequency.     Decrease irrigation time of each zone     Decrease irrigation time of each zone       trivites include adjustments to Dosatron settings, NPK ratios and frequency.     Decrease irrigation time of each zone and/       trivites include adjustments to Dosatron settings.     Decrease irrigation time of each zone and/     Decrease irrigation time of each zone and/       trivites include adjustments to Dosatron settings.     And/ or frequency, duration, time of day, as well as general system assessments (e.g., thecking lines and entitiers).     Decrease irrigation time of each zone and/       or weeding attivities should note what was removed (if known), what has been applied, and in what quantity.     Decrease irrigation in what quantity (e.g., 11 specimens).       or steen that do not fall under the listed service areas should be noted and described in detail.     Other Routhe Living Wall Maintenance guide for more declined operations and maintenance information.       2     3     4     5     6     7     8     0       2     3     4     5     7     8     0     0	er to be slightly on	the dry side less moisture			
Or shorter periods of time.       Increase irrigation time of each zone and/ and or frequency.       Derease irrigation time of each zone and/ watering (frequency to depend on times; but plont roots must remo moist are and indicated and so the plant roots must remo moist and moist and antitreas.       Derinate, but plont roots must remo moist remo moist and indicates the plant roots must remo moist and indicates the plant roots must remo moist and requency.         ctivities include adjustments to Dosatron settings. NPK ratios and frequency (dose rates), checking tank levels, refiling liquid fertilizer, and cleaning filters.       Derain plant coust must removed (if known) and in what quantity (e.g. 11 specimens).         or weeding activities should note what was removed (if known) what has been applied, and in what quantity.       Derain plant coust must removed (if known) what has been applied, and in what quantity.         of the Routine Living Wall Maintenance guide for more detailed operations on the gutter.       3       4       5       6       7       8       9       10       11       12         2       3       4       5       6       7       8       9       10       11       12         2       3       4       5       6       7       8       9       11       12         2       3       4       5       6       10       11       12       11       12       11       12       11       12       14		sdmmer	FALL	INIW	ERIZATION
ctivities include adjustments to Dosatron settings, NPK ratios and frequency (dose rates), checking tank levels, refilling liquid fertilizer, and cleaning filters. invities relate to changes in frequency, duration, time of day, as well as general system assessments (e.g. checking lines and emitters). <i>or weeding</i> activities should note what was removed (if known) and in what quantity (e.g. 11 specimens). <i>nogement</i> activities should describe what pest is being managed (if known), what has been applied, and in what quantity. In an activities should be noted and described in the gutter. To the Routine Living Wall Maintenance guide for more detaing out the gutter. 2 3 4 5 6 7 8 9 10 11 12 2 3 4 5 6 7 8 9 10 11 12 2 3 4 5 6 7 8 9 10 11 12 10 11 12 10 11 12 10 11 12 10 11 12 10 11 12 10 11 12 10 11 1	for shorter periods of time.	Increase irrigation time of each zone and/ or frequency.	Decrease irrigation time of or frequency.	each zone and/ Drain water <i>climat</i>	pipes/ blowout and shift to hand ng (frequency to depend on e, but plant roots must remain at all times!).
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			O Sedum 'Caral Reef	Sedum "Bhue Spruce"	Sedum 'Dragon's Blood'
			C Sedum neveli		
			記	Collins	

5	AKEN	when my	1	in study		- -		and shift to hand to depend on hts must remain	ning filters.					Sedum sexangulare	Delosperma 'sokn Profilit'	Delosperma 'Lavender kas'	Sedum "Dragon's Blood"		VLAB CONSTRUCT
	CLE) ACTION(S) 1	Hand w	* > .1.	sumick		fer as need	VINTERIZATION	rain pipes/ blowout atering (frequency i imate, but plant roc ioist at all times!).	d fertilizer, and clear	emitters).				i Spinner'	r Glany	door	pruce'		
	ERVICE AREA (CIR	Fertigation	Pruning   Weeding	Pest Management Structural Other		its and wa		each zone and/	levels, refilling liqui	checking lines and es).	d in what quantity.		ion.	O Delosperma 'Fir	manun Sedum Seman	Sedum Voo	Sedum 'Bhua S		Collins Parts Servers
()	CURRENT SETTINGS S	4-P-K: Josatron:	rrigation Frequency:	rigation Duration: rigation Time of Day:	RECOMMENDATIONS	continue to more	ALL	becrease irrigation time of r frequency.	dose rates), checking tank	l system assessments (e.g. quantity (e.g. 11 specimens	what has beem applied, an	ł described in detail.	und maintenance informati	Sedum Thate'	Sedum "Czar"s Gold"	Sedum 'Jahn Creech'	Sedum 'Coral Reef'	O Sedum neveti	
MENTATION	TIME (e.g. 11:00 - 11:15)	2:50p-1:15p		eeting		shung a bit		time of each zone	, NPK ratios and frequency	me of day, as well as genera ved (if known) and in what	being managed (if known), lexipanels and clearing out	e areas should be noted an	r more detailed operations (						
NITORING DOCU	DATE	3/24/17		80's 90's 100+ Snowy Hailing/Sl		serverus species serverus cher renages: rus here a fe	SUMMER	Increase irrigation and/ or frequency	to Dosatron settings	equency, duration, till ote what was remov	escribe what pest is king the frame and fi	der the listed servic	aintenance guide foi 6 7 8						
IVING WALL   MAINTENANCE + MO	NAME OF PERSON	Emily Bredehoedt	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: Si more new growth. No major ok Soil Medium: Satdration - dry Panels?   Cov Powels in the Card D ro Powers.	SPRING MOBILIZATION	Irrigate often for shorter periods of time. <i>Trigation</i> : Zone run times; any adjust- ments?	Fertigation activities include adjustments t	Irrigation activities relate to changes in fre Any pruning or weeding activities should n	Any pest management activitites should de Any structural maintenance includes check	Any other actions taken that do not fall un	<ul> <li>Please refer to the Routine Living Wall Mi</li> <li>1 2 3 4 5</li> </ul>						

AME OF PERSON	DATE	TIME (e.g. 11:00 - 11:15	() CURRENT SETTINGS	SERVICE AREA (CIRC	LE) ACTION(S) TAKEN
Emily Bredehoeft	4/10/17	1p-2;00p	N-P-K: Dosatron:	Fertigation Irrigation	Hard
EATHER (CIRCLE)			Irrigation Frequency:	Pruning   Weeding	1. Jaterine
's 20's 30's 40's 50'g 60's 70's 8	30's 90's 100+		Irrigation Duration: Irrigation Time of Day:	Pest Management Structural	
nny Cloudy Partly Cloudy Rainy S	nowy Hailing/	Sleeting windy		Other	
ISERVATIONS			RECOMMENDATIONS		
Int Health: Vigor?   Dry?   Chlorotic?: Nu Le plants il Medium: Saturation - dry Panels?   Cove nels backy damp	isin کمرنکسر trages:	ble charges to	Begin Acristization	n and keep n	unitaring.
RING MOBILIZATION <sup>+</sup>	SUMMER		FALL	8	NTERIZATION
gate often for shorter periods of time. gation: Zone run times; any adjust- ints?	Increase irrigati and/ or frequen	on time of each zone Icy.	Decrease irrigation time o or frequency.	f each zone and/ Dr	sin pipes/ blowout and shift to hand tering (frequency to depend on mate, but plant roots must remain vist at all times/).
<i>irtigation</i> activities include adjustments to <i>ciantion</i> activities relate to changes in fee	o Dosatron settin	gs, NPK ratios and freque time of day as well as ge	ncy (dose rates), checking tan neral system assessments (e.e.	k levels, refilling liquid 2. checking lines and ei	fertilizer, and cleaning filters. nitters).
igenor activities should no hy <i>pest management</i> activities should de wetrictural maintenance includes check	ote what was rem scribe what pest	noved (if known) and in w is being managed (if know I flevinanels and clearing	hat quantity (e.g. 11 specime wn), what has been applied, a	ns). nd in what quantity.	
ry other actions taken that do not fall und	der the listed serv	rice areas should be note	d and described in detail.	-	
rease rejer to the noutine tiving wall ind	6 7 8	9 10 11 9 10 11	12		
			Seebum Thate'	Delangerma 'fixe S	binner' 🚫 Sedium sezangdase
			2000 State	Sedum Summer	skony O Dokosperime John Preritit
			Sedum 'John Creech'	Sedum Vaad	a' Detasperma 'Lavender ka'
			Sedum 'Carel Reef	Sectum Thise Sp	veri 🕒 Sedum "Dragon" a Monof
			Sedum nevel		
			E E	of	

LIVING WALL   MAINTENANCE + MON	ITORING DOCUMENTATION			0
NAME OF PERSON	DATE TIME (e.g. 11:00 - 11:15)	CURRENT SETTINGS SE N-P-K: F	ERVICE AREA (CIRCL) ertigation	) ACTION(S) TAKEN
WEATHER (CIRCLE)		Irrigation Frequency: P	runing   Weeding	
10's 20's 30's 40's 50's 60's 70's 81 Sunny Cloudy Partly Cloudy Rainy Sn	3's 90's 100+ owy Hailing/ Sleeting Windy	Irrigation Duration: P Irrigation Time of Day: 51	est Management tructural )ther	
OBSERVATIONS		RECOMMENDATIONS		
Plant Health: Vigor?   Dry?   Chlorotic?:				
Soil Medium: Saturation - dry Panels?   Cover	age?:			
SPRING MOBILIZATION*	SUMMER	FALL	MIN	TERIZATION
Irrigate often for shorter periods of time. Irrigotion: Zone run times; any adjust- ments?	Increase irrigation time of each zone and/ or frequency.	Decrease irrigation time of e. or frequency.	ach zone and/ Drain wate <i>climi</i>	pipes/ blowout and shift to hand ring (frequency to depend on ite, but plant roots must remain t at all times!).
Fertigation activities include adjustments to	Dosatron settings, NPK ratios and frequenc	y (dose rates), checking tank le	evels, refilling liquid fe	rtilizer, and cleaning filters.
Irrigation activities relate to changes in frequ Any pruning or weeding activities should not	lency, duration, time of day, as well as gene e what was removed (if known) and in wha	ral system assessments (e.g. c) t quantity (e.g. 11 specimens)	hecking lines and emi	tters).
Any <i>pest management</i> activitites should des Any structural maintenance includes checkin	cribe what pest is being managed (if known g the frame and flexipanels and clearing ou	), what has beervapplied, and t the gutter.	in what quantity.	
Any other actions taken that do not fall unde	r the listed service areas should be noted a	nd described in detail.		Cabee L
Please refer to the Routine Living Wall Main	tenance guide for more detailed operations $32, 48, 9, 16, 11, -3$	s and maintenance information	n. Replace	2/ Strys Service
		Sodium Tilaire'	Delosperma Tère Spirr	er' Sedum isrumgalası
		Seekum 'tzar's Golar	Sedum Summer Glor	Dakosperma 'kohn Profisi'
		Sedem 'Jahn Creeth'	Sedum Vaadear	🔘 , Ubilatperma Tavendee ka
		B The redum transferer 2 2	Sectum "Blue Sprace"	Sedum 'Dragon'a Blood'
		O Sedum nevel		
			collins	
		solum transferer	ollins (	

NAME OF PERSON     DATE     T       WEATHER (CIRCLE)     DATE     T       WEATHER (CIRCLE)     WEATHER (CIRCLE)     DATE     T       With the state of the sta	ME (e.g. 11:00 - 11:15) CU N-P Itriu eting Windy hrii REF REF ime of each zone Dec Dec Dec or f e of day, as well as general si	RRENT SETTINGS SERVICE AR -K: Fertigation atron: Fertigation atron: Pest Manag ation Duration: Pest Manag ation Time of Day: Structural COMMENDATIONS COMMENDATIONS Conther L Conter	A (CIRCLE) ACTION(S) TAKEN aeding ment ment WINTERIZATION WINTERIZATION WINTERIZATION Motion depend on climate, but plant roots must remain moist at all times!).
WEATHER (CIRCLE) WEATHER (CIRCLE) U0's 20's 30's 40's 50's 60's 70's 80's 90's 100+ bunny Cloudy Partly Cloudy Rainy Snowy Hailing/ Sle DBSERVATIONS DBSERVATIONS DIAN Health: Vigor?   Dry?   Chlorotic?: Diant Health: Vigor?   Dry?   Chlorotic?   Dry?   Dry?   Dry?   Dry?   Dry?   D	eting Windy Irri REC REC ime of each zone Dec NPK ratios and frequency (do e of day, as well as general si	ation Frequency: Peruning   V ation Duration: Pest Manag Structural Other COMMENDATIONS L Commended Contaction	eding iment ind d/ WINTERIZATION WINTERIZATION Climate, but plant roots must remain moist at all times!).
0's 20's 30's 40's 50's 60's 70's 80's 90's 100+ unny Cloudy Partly Cloudy Rainy Snowy Hailing/ Sle <u>BBSERVATIONS</u> <u>Iant Health: Vigor?</u>   Dry?   Chlorotic?: <u>Iant Health: Vigor?</u>   Dry?   Dr	trig windy REC REC FAL FAL fme of each zone NPK ratios and frequency (do e of day, as well as general si	ation Duration: Pest Managation Time of Day: Structural Other Other Other ComMENDATIONS	MINTERIZATION  WINTERIZATION  Wintering (frequency to depend on climate, but plant roots must remain moist at all times!).
BSERVATIONS Iant Health: Vigor?   Dry?   Chlorotic7: Iant Health: Vigor?   Dry?   Chlorotic7: PRING MOBILIZATION* rigate often for shorter periods of time. rigation: Zone run times; any adjust- rigation: Zone run times; any adjust- rigation: Zone run times; any adjust- rigation activities include adjustments to Dosatron settings. <i>Prigation</i> activities include adjustments to Dosatron settings. <i>Prigation</i> activities relate to changes in frequency, duration, tin Any pruning or weeding activities should describe what was remov Any pest management activities should describe what was remov Any other actions taken that do not fall under the listed service Pleose refer to the Routine Living Wall Maintenance guide for	REC REC FAL FAL Dec Or f or f or f or f or f or f or f or f o	COMMENDATIONS	WINTERIZATION WINTERIZATION Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).
ant Health: Vigor?   Dry?   Chlorotic?: all Medium: Saturation - dry Panels?   Coverage?: PRING MOBILIZATION* PRING MOBILIZATION* Figate often for shorter periods of time. Increase irrigation and/ or frequency. and/ or frequency. and/ or frequency. and/ or frequency. Trigation activities include adjustments to Dosatron settings. Firigation activities relate to changes in frequency, duration, tin Any pruning or weeding activities should note what was remov. Any pest management activities should describe what pest is the and fl. Any other actions taken that do not fall under the listed service Pleose refer to the Routine Living Wall Maintenance guide for	FAL time of each zone Dec NPK ratios and frequency (do e of day, as well as general si	L rease irrigation time of each zone a	WINTERIZATION UNINTERIZATION Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).
oil Medium: Saturation - dry Panels?   Coverage?: PRING MOBILIZATION <sup>+</sup> igate often for shorter periods of time. igation: Zone run times; any adjust- ents? ertigation activities include adjustments to Dosatron settings, rrigation activities include adjustments to Dosatron settings, rrigation activities relate to changes in frequency, duration, tin Any pruning or weeding activities should note what was remov in structural maintenance includes checking the frame and fl why other actions taken that do not fall under the listed service Pleose refer to the Routine Living Wall Maintenance guide for	FAI ime of each zone Dec NPK ratios and frequency (do e of day, as well as general si	L rease irrigation time of each zone a requency.	WINTERIZATION WINTERIZATION Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).
PRING MOBILIZATION*       SUMMER         rigate often for shorter periods of time.       Increase irrigation         rigation: Zone run times; any adjust- ents?       Increase irrigation         "ertigation activities include adjustments to Dosatron settings, rrigation activities relate to changes in frequency, duration, tin         Any pruning or weeding activities should note what was remov vny pest management activities should describe what pest is to vny other actions taken that do not fall under the listed service please refer to the Routine Living Wall Maintenance guide for	FAL ime of each zone Dec Dec Dec Dec Dec Dec Dec Dec Dec De	L rease irrigation time of each zone a requency.	WINTERIZATION WINTERIZATION Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).
igate often for shorter periods of time. Increase irrigation igation: Zone run times; any adjust- ents? ertigation activities include adjustments to Dosatron settings, rrigation activities relate to changes in frequency, duration, tin my pruning or weeding activities should note what was remov in pest management activities should describe what pest is t in structural maintenance includes checking the frame and fl my other actions taken that do not fall under the listed service offesse refer to the Routine Living Wall Maintenance guide for	time of each zone Dec Or f NPK ratios and frequency (do e of day, as well as general si	rease irrigation time of each zone a requency.	Id/ Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).
ertigation activities include adjustments to Dosatron settings, rigation activities relate to changes in frequency, duration, tin .ny pruning or weeding activities should note what was remov .ny pest management activitites should describe what pest is .ny structural maintenance includes checking the frame and fl .ny other actions taken that do not fall under the listed service .ny other actions taken that do not fall waintenance guide for .ny other refer to the Routine Living Wall Maintenance guide for	NPK ratios and frequency (do e of day, as well as general si	13    -	
In <i>pruning or weeding</i> activities should note what was removing <i>pest management</i> activities should describe what pest is the structural maintenance includes checking the frame and flue or structural maintenance includes checking the listed service of the refer to the Routine Living Wall Maintenance guide for the service of the servi		se rates), checking tank levels, rem stem assessments (e.g. checking lii	ng ilquia remizer, and creaning mers. es and emitters).
In structural maintenance includes checking the frame and fil or other actions taken that do not fall under the listed service Pleose refer to the Routine Living Wall Maintenance guide for	eing managed (if known), wh	intity (e.g. 11 specimens). at has beeræapplied, and in what q	antity.
Please refer to the Routine Living Wall Maintenance guide for	xipanels and clearing out the areas should be noted and d	gutter. escribed in detail.	
	more detailed operations and	1 maintenance information.	replace u/ grass service
		Sedum Thata	bosperma Tea Spinner' O Sedum terangudare
		O Sedum "Crai" is Gold"	edum Summer Glory
		Sedum 'Jahn Greeth'	Sedum Vicodood' Delosperma Tavender ker
		O The pert 2 2	ledum Take Seruce' 🕒 Sedum Talegan's Road
		Sedum reveil	
		Fortecollins	
, carber (asher in ) Int	- Parts	TATILITY Parts	NAME NAME URBAN LAB DIRECTOR

	Piant	Number Needed
ths:		
	Lawendar Sedur	27+44= 71:
	Sedum Neveli	40+99 = 139
	Buffalograss	83
	Angolina sedim	80 + 46= 126
	Noodo	11+8+
Uidal	Czas's Gold	14 + 2
	John Grach	25+18
	Progolina	50
	Noohao	45+12+2+1
	Sexangulare	50
	Blue spruce	15 + 17
	Neveii	3

4/27/2017

L

**Plant Counts for Replacement** 

Prant	Swath No. Needed	Indiv. No. Needed	Total No. Needed	TO ORDER w/ 10 extra per
Lavendar Sedum TBD by				
Stephanie's	71		71	81
recommendation				
Sedum 'Neveii'	139	m	142	152
Buffalo Grass	83		83	93
Sedum 'Angelina'	126	50	176	186
Sedum 'Voodoo'	19	60	79	68
Sedum 'Czar's Gold'		16	16	26
Sedum 'John Creech'		43	43	53
Sedum sexangulare		50	50	60
Sedum 'Blue Spruce'		32	32	42

782	43%	
No. Plant Replacing	% Plant Replacing	

- Wait while may 1 to trim -H20 early April -Start Fert with irrisition, turn att first in Ay. -Forther from both

- soden coral real replacement - Buffalo grass start type pluss - replant my 1st

stephnie will order srooks from solley for cor-1 kells species conversion.

C	SERVICE AREA (CIRCLE) ACTION(S) TAKEN	Fertigation Irrigation Pruning   Weeding) Mutherized, plant	Pest Management Structural Other		miter and record applied with by	erverbions,	WINTERIZATION	of each zone and/ Drain pipes/ blowout and shift to hand watering (frequency to depend on climote, but plant roots must remain moist at all times!).	ank levels, refilling liquid fertilizer, and cleaning filters. e. checking lines and emitters).	iens). and in what guantity.		nation.	DRAGON'S BLOOD       SEDUM BLUE SPRUCE         ANGELINA       BUFFALO GRASS         JOHN CREECH       SEDUM SEXANGULARE         VOODDOO "BLAZE"       SEDUM CZAR'S GOLD	
0	CURRENT SETTINGS	N-P-K: Dosatron: Irrigation Frequency:	Irrigation Duration: Irrigation Time of Day:	RECOMMENDATIONS	Cartine do m	detailed obs	FALL	Decrease irrigation time or frequency.	y (dose rates), checking t eral system assessments	at quantity (e.g. 11 specir ), what has been applied	ut the gutter. and described in detail.	is and maintenance infor 12	SEDUN SEDUN SEDUN SEDUN	
CUMENTATION	TIME (e.g. 11:00 - 11:15)	9:500	+ // Sleeting Windy		health is stable and			stion time of each zone ency.	ings, NPK ratios and frequenc n time of day as well as gene	emoved (if known) and in whe st is being managed (if knowr	ind flexipanels and clearing ou ervice areas should be noted a	le for more detailed operation 8 9 10 11		
NITORING DC	DATE	7/25/1-	301 90's 100 nowy Hailing		erall plant	erager: cwsistend	SUMMER	Increase irrig and/ or frequ	o Dosatron set	ote what was r	ing the frame a	aintenance guid 6 7		
LIVING WALL   MAINTENANCE + MON	NAME OF PERSON	Emily Bredelwert	10's 20's 30's 40's 50's 60's 70's ( Sunny (Cloudy) Partly Cloudy Rainy S	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: Ov	Part Redium: Saturation - dry Panelis: 1 Lovi Parel Saturation seems (	SPRING MOBILIZATION*	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustments t</li> </ul>	<ul> <li>Any pruning or weeding activities should n</li> <li>Any <i>next management</i> activities should de</li> </ul>	Any structural maintenance includes check a Any other actions taken that do not fall un	+ <i>Please refer to the</i> <b>Routine Living Wall Ma</b> <b>1</b> 2 <b>3 4</b> 5		

LIVING WALL   MAINTENANCE + MONITORING DOCUMENTATION	*Buffalo grass in panel A1 scent to be dying, cence unknown, possible plant replacemented. medded. #Sedum (Neirus?) in panels E4 up Hraugh A8 scent to be struggling. Passible rad- inst and for minist problem. More research is needed. A13, plants in parels E8-C12 need #Replacement plants reded for the sedum secongulore #Sedum Voodoo Blaze plants in panels E7-C12 may need do be cut back and or replaced. #Soft Soop used seems to have killed alf mast, if not all, of the aphid molarbia Ladybugs sdill present, approximate count of S-6, mostly adults but are have.	
NO	replacements ble rad and/or and/or and.	0

C	SERVICE AREA (CIRCLE) ACTION(S) TAKEN	Fertigation Trimminy out and Irrigation remained dead plant Pruning I Weeding muderial.	Pest Management Structural Other		niter and record applied activity it rot. See reverse side for more	(vahions,	WINTERIZATION	of each zone and/ Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).	nk levels, refilling liquid fertilizer, and cleaning filters. g. checking lines and emitters).	ens). and in what quantity.	ation.	DRAGON'S BLOOD       SEDUM BLUE SPRUCE         ANGELINA       BUFFALO GRASS         OHN CREECH       SEDUM SEXANGULARE         /OODOO "BLAZE"       SEDUM CZAR'S GOLD         F GRASS       SEDUM CZAR'S GOLD	
0	CURRENT SETTINGS	N-P-K: Dosatron: Irrigation Frequency:	Irrigation Duration: Irrigation Time of Day:	RECOMMENDATIONS	Curtinue do mu	dedailed obse	FALL	Decrease irrigation time o or frequency.	y (dose rates), checking tai ral system assessments (e.	tt quantity (e.g. 11 specime ), what has been applied, a it the gutter.	ind described in detail. s and maintenance inform 12	SEDUM I SEDUM I SEDUM I SEDUM I SEDUM I	
DOCUMENTATION	TIME (e.g. 11:00 - 11:15)	17 9:50a	100+ ling/ Sleeting Windy		t health is stable and	nd,		rigation time of each zone squency.	settings, NPK ratios and frequenc ation, time of <mark>d</mark> ay, as well as gene	is removed (if known) and in wha pest is being managed (if known ne and flexipanels and clearing ou	d service areas should be noted a juide for more detailed operation & a 10 11		
ONITORING	DATE	7/25/	803 90's Snowy Hai		overall plan overage?:	cursisde	SUMMER	Increase ir and/ or fre	s to Dosatron : requency, dura	note what wa describe what cking the fram	ander the liste Maintenance g		
LIVING WALL   MAINTENANCE + MC	NAME OF PERSON	Emily Bredelweitt WEATHER(CIRCLE)	10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: ' مرسوب المعالية: Soil Medium: Saturation - dry Panels?   Cc	Panel saturation seems	SPRING MOBILIZATION <sup>+</sup>	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustment</li> <li>Irrigation activities relate to changes in fi</li> </ul>	<ul> <li>Any pruning or weeding activities should</li> <li>Any pest management activitites should</li> <li>Any structural maintenance includes che</li> </ul>	<ul> <li>Any other actions taken that do not fall t</li> <li><i>Please refer to the</i> Routine Living Wall N</li> </ul>		

LIVING WALL   MAINTENANCE + MONITORING DOCUMENTATION	*Buffalo grass in panel AI seens to be dying, caree unknown, possible plant replacements needed. #Sedem (Neiver?) in panels 64 up Hraugh A8 seen to be striggling. Passible rad inst and/or minist problem. Howe research is needed. Also, plants in panels E8-C12 need #Replacement plants needed for the sedum sesongulare replacement plants needed for the sedum sesongulare replaced. #Sedum Voodoo Blaze plants in panels E7-C12 may need do be cut back audor replaced. #Sedum Voodoo Blaze plants in panels E7-C12 may need do be cut back audor replaced. #Sedur Voodoo Blaze plants in panels E7-C12 may need do be cut back audor replaced. #Sedur Voodoo Blaze plants in panels E7-C12 may need do be cut back audor replaced.	

						_					}							
C	(CLE) ACTION(S) TAKEN		None				plant health .	reded. n	een dealt with.	WINTERIZATION	Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).	id fertilizer, and cleaning filters.	· fermanne				<ul> <li>SEDUM BLUE SPRUCE</li> <li>BUFFALO GRASS</li> <li>SEDUM SEXANGULARE</li> <li>SEDUM CZAR'S GOLD</li> </ul>	CONTRACTOR OF CONT OF CONTRACTOR OF CONTRACTON OF CONTRACTON OF CONTRACTON OF CONTRACTON OF CONTACTO
	SERVICE AREA (CIR	Fertigation Irrigation	Pruning   Weeding	Pest Management Structural Other	)	2	muiter the	to from as	tation has b		e of each zone and/	tank levels, refilling liqu	mens).	d, and in what quantity.	mation		A DRAGON'S BLOOD A ANGELINA A JOHN CREECH A VOODOO "BLAZE" 'UFF GRASS	City of Olins of Para
0	CURRENT SETTINGS	N-P-K: Dosatron:	Irrigation Frequency:	Irrigation Duration: Irrigation Time of Day:	میں اور	RECOMMENDATIONS	Continue to	Deadhead an	Aphid mess	FALL	Decrease irrigation tim or frequency.	y (dose rates), checking i	t quantity (e.g. 11 specir	), what has been applied It the gutter.	nd described in detail.	12	SEDUN SEDUN SEDUN SEDUN SEDUN SEDUN	
MENTATION	IME (e.g. 11:00 - 11:15)	2:450	-	eting Windy			re theining, as	and truth grass.	nd moist.		time of each zone	. NPK ratios and frequenc	red (if known) and in wha	being managed (if known exipanels and clearing ou	e areas should be noted a	9 10 11		
NITORING DOCUI	DATE	1 11/2/8		80's 90's 100+ Snowy Hailing/ Sle			kigned plents a	verage?:	y Saturded	SUMMER	Increase irrigation and/ or frequency	to Dosatron settings,	note what was remov	describe what pest is cking the frame and fl	nder the listed service	6 7 8		
VG WALL   MAINTENANCE + MC	ME OF PERSON	mily Bredebaedt	ATHER (CIRCLE)	20's 30's 40's 50's 60's 70's ny Cloudy Partly Cloudy Rainy		SERVATIONS	t Health: Vigor?   Dry?   Chlorotic?: C	Medium: Saturation - dry Panels?   Co	nels seen to be even		ate often for shorter periods of time. <i>ation</i> : Zone run times; any adjust- its?	tigation activities include adjustments	y pruning or weeding activities should	y pest management activitites should or y structural maintenance includes chec	y other actions taken that do not fall u	1 2 3 4 5		
FIVI	NA	Ш	WE	Sun E		80	Plan	Soil	70	SPF	Irri <u>ç</u> Irriç mei	▲ Fe	An An	A Ar	n An	+	V B V	0

ME OF PERSON					
	DATE	TIME (e.g. 11:00 - 11:15)	CURRENT SETTINGS	SERVICE AREA (CI	RCLE) ACTION(S) TAKEN
			N-P-K: Dosatron:	Fertigation Irrigation	
EATHER (CIRCLE)			Irrigation Frequency:	Pruning   Weedin	89
s 20's 30's 40's 50's 60's 70's 8	0's 90's 100+		Irrigation Duration:	Pest Managemen	
nny Cloudy Partly Cloudy Rainy S	nowy Hailing/	Sleeting Windy	Irrigation Time of Day:	Other	
SERVATIONS			RECOMMENDATIONS		
nt Health: Vigor?   Dry?   Chlorotic?:					
<i>Medium</i> : Saturation – dry Panels?   Cove	rage?:				
ING MOBILIZATION⁺	SUMMER		FALL		WINTERIZATION
gate often for shorter periods of time. <i>jation</i> : Zone run times; any adjust- nts?	Increase irrigati and/ or frequer	on time of each zone hcy.	Decrease irrigation time o or frequency.	of each zone and/	Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).
rtigation activities include adjustments to	Dosatron settin	gs, NPK ratios and frequenc	y (dose rates), checking tar	nk levels, refilling liq	uid fertilizer, and cleaning filters.
igation activities relate to changes in free	juency, duration, the what was rem	time of day, as well as gene	ital system assessments (e.	.g. checking lines an	d emitters).
y <i>pest management</i> activities should de ly structural maintenance includes check	scribe what pest ng the frame an	is being managed (if known d flexipanels and clearing ou	i), what has been applied, i it the gutter.	and in what quantity	×
y other actions taken that do not fall un	ler the listed ser	vice areas should be noted a	ind described in detail.	thou	
1 2 3 4 5	6 7 8	1 9 10 11	12		
			SEDUM I     SEDUM I     SEDUM I	DRAGON'S BLOOD ANGELINA OHN CREECH	SEDUM BLUE SPRUCE     BUFFALO GRASS     sedum sevangili ABF
				VOODOO "BLAZE" F GRASS	SEDUM CZAR'S GOLD
			(		
	1000 00000 0000 0000	10 1000 10000 10000 1000 1000 1000 100		ty of line	



C	SETTINGS SERVICE AREA (CIRCLE) ACTION(S) TAKEN	Fertigation Checking Powel Irrigation moisture	equency: Pruning weeding Isimming back day light	me of Day: Structural dead plant mayler Other	NDATIONS	still present, ladybugs still active (see court on	it meeded that dog that grass, upper panels.	WINTERIZATION	igation time of each zone and/ Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).	), checking tank levels, refilling liquid fertilizer, and cleaning filters.	sessments (e.g. checking lines and emitters). g. 11 specimens).	ven applied, and in what quantity.	l in detail. monre information		<ul> <li>SEDUM DRAGON'S BLOOD</li> <li>SEDUM ANGELINA</li> <li>BUFFALO GRASS</li> </ul>	<ul> <li>SEDUM JOHN CREECH</li> <li>SEDUM SEXANGULARE</li> <li>SEDUM VOODOO "BLAZE"</li> <li>SEDUM CZAR'S GOLD</li> </ul>	DOG TUFF GRASS	Fort Collins of the second sec
CUMENTATION	TIME (e.g. 11:00 - 11:15) CURRENT S	10:47a-11:43 Dosatron:		+ / Sleeting Windy	RECOMME	wer corner budgalo back) Hiriung.	water Kowever, water Irin bac	FALL	tion time of each zone Decrease irri	ings, NPK ratios and frequency (dose rates)	n, time of day, as well as general system ass moved (if known) and in what quantity (e.	st is being managed (if known), what has be nd flexipanels and clearing out the gutter.	rvice areas should be noted and described	8 9 10 11 12				
NANCE + MONITORING DC	DATE	west 8/16/17		s 60's 70's 80's 90's 10 budy Rainy Snowy Hailing		I Chlorotic?: Lo living plants. Lo M Panels? I Coverage?: grass	to be getting enough	SUMMER	riods of time. Increase irrig and/ or frequ any adjust-	le adjustments to Dosatron set	o changes in frequency, duratic tivities should note what was r	ivitites should describe what per ie includes checking the frame a	at do not fall under the listed s	4 5 6 7				
LIVING WALL   MAINTER	NAME OF PERSON	Emily Bredel	WEATHER((CIRCLE)	10's 20's 30's 40's 50' Sunny Cloudy Partly Clo	OBSERVATIONS	Plant Health: Vigor?   Dry? L:Htle Jo no chen Soil Medium: Saturation - dr	Most parels seem	SPRING MOBILIZATION*	Irrigate often for shorter pe Irrigation: Zone run times; a ments?	<ul> <li>Fertigation activities inclusion</li> </ul>	<ul> <li>Irrigation activities relate t</li> <li>Any pruning or weeding ac</li> </ul>	A Any pest management acti o Any structural maintenanc	Any other actions taken th	1 2 3	V			

# LIVING WALL | MAINTENANCE + MONITORING DOCUMENTATION

Lady bug cout: - Larra: JHTIAM IAM IAM IAM - Clutch of eggs: [] - Adult : HAT []]

6

		sed				as as		o hand n naîn						E o		THE BALL
	) ACTION(S) TAKEN	One carton of lady bugs relea	onto wall.	@ 8:500		(the as well as f in full as meede Trim/deed head	TERIZATION	n pipes/ blowout and shift to ring (frequency to depend o ste, but plant roots must ren t at all times!).	irtilizer, and cleaning filters.	·/clan			<ul> <li>SEDUM BLUE SPRUCE</li> <li>BUFFALO GRASS</li> </ul>	<ul> <li>SEDUM SEXANGULAF</li> <li>SEDUM CZAR'S GOLD</li> </ul>		DRBAN LAB
	AREA (CIRCLE	ion	(   Weeding	anagement		plant heal .Replant	MIM	ne and/ Drair wate climo mois	refilling liquid fe	at quantity.		24	A A	EECH "BLAZE"		SC Contraction
	S SERVICE	Fertigat	Pruning	y: Pest Mi Structu Other	SNO	observe purletion count o		time of each zo	ng tank levels, ots fe a checki	ecimens). lied, and in wh		formation	UM DRAGON UM ANGELIN	um John CR um Voodoc 5 Tuff Grass	City of	Port Colligent
9	RRENT SETTING	-K: satron:	gation Frequency	gation Duration: gation Time of Da	COMMENDATIC	dybug po	1	crease irrigation t frequency.	ose rates), checki vetem accessmer	antity (e.g. 11 sp hat has been app	e gutter. Jescribed in detal	d maintenance in	• SED	SED DOC		Ò
0	00-11:15) CU	I of Do:			RE	di lant Co di la saturatinge	FAI	zone De	id frequency (di	and in what qu d (if known), w	clearing out th be noted and c	d operations an 11 12				
MENTATION	IME (e.g. 11:(	0:070-1		eting Windy		dimmister		time of each	NPK ratios an	red (if known) being manage	exipanels and e areas should	more detaile				
RING DOCUN	TE TI	5/21/17 10		90's 100+ / Hailing/Sle		to no chi	MMER	ease irrigation / or frequency.	atron settings,	cy, auranon, un hat was remov e what pest is l	ne frame and fluite listed service	ance guide for 7 8				
MONITO	DA	~		70's 80's iny Snowy		C?: Little	SUI	me.	in frontion	ould note w ould note w	i checking th fall under th	/all Mainter 5 6				
ENANCE +		veft		0's 60's J		?   Chloroti	No Troop	eriods of tir any adjust-	ude adjustm	e to cnanges activities shi ctivitites sho	includes that do not	ine Living M 4				
MAINTI	SON	Sredeh	RCLE)	l's 40's 5 y Partly C	VS	ligor?   Dry h. ds st aturation -	ILIZATION*	or shorter p e run times;	tivities inclu	Nittes relate or weeding a	l maintenar ions taken t	t <i>o the</i> Routi 2 3				
NG WALL	ME OF PEF	mily [	ATHÉR (CI	s 20's 30	SERVATION	nt Health: V Ith. Ap Medium: S	RING MOB	gate often fi <i>jation</i> : Zone nts?	rtigation ac	iganon acci w pruning c w pest man	iy structura	lease refer u 1				
LIV1	NA	E	Ŵ	Sun 10	0 B	Pla Soil	SPI	Irrig Irrig mei	I € I		o Ar	4	۲	<u>т</u> с	٥	ш

LIVING WALL | MAINTENANCE + MONITORING DOCUMENTATION Larva: IHT LHT LHT IIII Adult: 15 00 + • I carbon released adybug Count:

C

C	CLE) ACTION(S) TAKEN	Checking on plant	mastre,			regeable with the	is the fur the penels it will keep the soil from	/INTERIZATION	rain pipes/ blowout and shift to hand atering (frequency to depend on imote, but plant roots must remain oist at all times!).	d fertilizer, and cleaning filters. :mitters).				<ul> <li>SEDUM BLUE SPRUCE</li> <li>BUFFALO GRASS</li> <li>SEDUM SEXANGULARE</li> <li>SEDUM CZAR'S GOLD</li> </ul>	MACHINE CARLER CARLER CONTRACT
	SERVICE AREA (CIR	Fertigation Irrigation	Pruning   Weeding	Pest Management Structural Other		reserved but me	ion of ladybur		e of each zone and/	ank levels, refilling liqui e.g. checking lines and (	nens). I, and in what quantity.	mation		I DRAGON'S BLOOD I ANGELINA I JOHN CREECH I VOODOO "BLAZE" JFF GRASS	Cityof Cityof Collins Pars Species Lina
	CURRENT SETTINGS	N-P-K: Dosatron:	Irrigation Frequency:	Irrigation Duration: Irrigation Time of Day:	RECOMMENDATIONS	Aphids still pr	hopefully replay	FAEL O	Decrease irrigation time or frequency.	· (dose rates), checking tr al system assessments (	: quantity (e.g. 11 specirr , what has been applied t the outtor	nd described in detail.	2	SEDUM SEDUM SEDUM SEDUM SEDUM	
	TIME (e.g. 11:00 - 11:15)	10:300- 11:13a		sleeting Windy		Junge in Plant	seen to be		on time of each zone cy.	gs, NPK ratios and frequency time of day, as well as gener	oved (if known) and in what is being managed (if known) Havinghale and clearing out	ice areas should be noted ar	9 10 11 1		
INITORING DOC	DATE	8/23/17		80's 90's 100+ Snowy Hailing/ 9		出したこの	verages: Panels it is shill w	SUMMER	Increase irrigation and/ or frequen	to Dosatron setting equency, duration,	note what was rem fescribe what pest	nder the listed serv	6 7 8		
LIVING WALL   MAINTENANCE + MO	NAME OF PERSON	Emily Bredehoolt	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: L	Soli Medium: Saturation - dry Panels?   Co retaining moisture though	SPRING MOBILIZATION <sup>+</sup>	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustments</li> <li>Irrigation activities relate to changes in fruit</li> </ul>	<ul> <li>Any pruning or weeding activities should</li> <li>Any pest management activitites should c</li> </ul>	a Any other actions taken that do not fall u	1 2 3 4 5		

s on Buch ->	ACTION(S) TAKEN Trimmed back the dog tuff grass. Objecked soit medium. Took count of ladybug population	Count of hew many Spring. Keep trimming ERIZATION ERIZATION	ie, but plant roots must remain at all times(). tilizer, and cleaning filters. ters).	<ul> <li>SEDUM BLUE SPRUCE</li> <li>BUFFALO GRASS</li> <li>SEDUM SEXANGULARE</li> <li>SEDUM CZAR'S GOLD</li> <li>SEDUM CZAR'S GOLD</li> <li>URBAN LAB</li> </ul>
Continued Observations	URRENT SETTINGS SERVICE AREA (CIRCLE) -P-K: Fertigation osatron: Irrigation rigation Frequency: Pruning, Weeding rigation Duration: Structural rigation Time of Day: Other	ecommendations antinue do monitor plants take arts need to be replaced the applies as needed. All All Mint requency.	climat dose rates), checking tank levels, refilling liquid fer system assessments (e.g. checking lines and emitt uantity (e.g. 11 specimens). what has been applied, and in what quantity. he gutter. I described in detail.	<ul> <li>SEDUM DRAGON'S BLOOD</li> <li>SEDUM ANGELINA</li> <li>SEDUM JOHN CREECH</li> <li>SEDUM VOODOO "BLAZE"</li> <li>DOG TUFF GRASS</li> <li>DOG TUFF GRASS</li> </ul>
VITORING DOCUMENTATION	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	st Surviving Plants seem to be C Builth on some of the sedum erage?: Secongulare plants on pl ion seems good overall but of Revist. SUMMER Increase irrigation time of each zone Di and or frequency.	<ul> <li>Dosatron settings, NPK ratios and frequency (c</li> <li>Dosatron settings, NPK ratios and frequency (c</li> <li>quency, duration, time of day, as well as general quency, duration, time of day, as well as general scenario of the known), with the frame and flexipanels and clearing out time the listed service areas should be noted and derived or provided operations operations or provided oper</li></ul>	6     7     8     9     10     11     12       8     9     10     11     12     12     12       9     9     9     10     11     12       9     9     9     10     11     12       9     9     9     10     11     12       9     9     9     9     10     11       9     9     9     9     9     10       9     9     9     9     9     10       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9       9     9     9     9     9     9
LIVING WALL   MAINTENANCE + MON	NAME OF PERSON Emily Bredehvedd WEATHER (CIRCLE) 10's 20's 30's 40's 50's 60's 70's 8 sunny Cloudy Partly Cloudy Rainy Si	OBSERVATIONS Plant Health: Vigor?   Dry?   Chlorotic?: Ma in good health. Minimal new gr Soil Medium: Saturation - dry Panels?   Cove Panel Cy Soil medium, Saturati water flaw increased ar: hes shill SPRING MOBILIZATION.	Irrigation: Zone run times; any adjust- ments? • Fertigation activities include adjustments ti • Irrigation activities relate to changes in free = Any pruning or weeding activities should nc Any pest management activitites should de o Any structural maintenance includes check! D Any other actions taken that do not fall und	A     1     2     3     4     5       B     M     M     M     M     M       C     M     M     M     M       D     M     M     M     M       E     M     M     M     M       D     M     M     M     M       D     M     M     M     M       F     M     M     M     M       D     M     M     M     M       D     M     M     M     M       F     M     M     M     M       F     M     M     M     M

visiting the wald. In addition to the ladybugs, there were also jumping Spiders, havester Spiders (also Daddy Longlegs), and lace umg eggs tound. I anticipate that the aphid population has decreased dramatically and is a now a minimal theat to the \* Due to the aphid infestation there has been an increase of beneficial insects LIVING WALL | MAINTENANCE + MONITORING DOCUMENTATION prox. Lady by court : HH 1H1 1H1 1H1 1H1 111 plant health.

C	SERVICE AREA (CIRCLE) ACTION(S) TAKEN	Irrigation Ir ming back the Irrigation Buffall and Deg Tuff	(Pruning) Weeding grasses, Reynov, 7 Rg dead	Pest Management plant material of Servations. Structural Making Observations.	St	manifur and adjust according by. Writy visible, ladybug appear the d.	WINTERIZATION	me of each zone and/ Drain pipes/ blowout and shift to hand watering (frequency to depend on climote, but plant roots must remain moist at all times!).	s tank levels, refilling liquid fertilizer, and cleaning filters.	s (e.g. checking lines and emitters). :imens).	ed, and in what quantity.		ormation.	M DRAGON'S BLOOD • SEDUM BLUE SPRUCE M ANGELINA • BUFFALO GRASS	M JOHN CREECH • SEDUM SEXANGULARE M VOODOO "BLAZE" • SEDUM CZAR'S GOLD	TUFF GRASS	Edit Collins
AENTATION	ME (e.g. 11:00 - 11:15) CURRENT SETTING	$5o_{\alpha} - 10.5o_{\alpha}$	Irrigation Frequency	Irrigation Time of D. eting Windy	RECOMMENDATIC	new growth Continue A. 2003, growth Continue A. No aphid au	FALL	time of each zone Decrease irrigation or frequency.	NPK ratios and frequency (dose rates), checki	ne of day, as well as general system assessmer ed (if known) and in what quantity (e.g. 11 sp	being managed (if known), what has been app exipanels and clearing out the gutter.	areas should be noted and described in deta	<ul><li>more detailed operations and maintenance it</li><li>9 10 11 12</li></ul>	SED	SED		
AONITORING DOCUN	DATE TI	9/13/17 9		s (80's) 90's 100+ Snowy Hailing/ Sle		Some potential. Wall, dog tuff gr Coverage?? the go	SUMMER	. Increase irrigation and/ or frequency.	I losatron settings,	frequency, duration, tin Id note what was remov	d describe what pest is h becking the frame and fli	under the listed service	Maintenance guide for 6 7 8				
LIVING WALL   MAINTENANCE + N	NAME OF PERSON	Emily Bredehvebt	WEATHER (CIRCLE)	10's         20's         30's         40's         50's         60's         70'.           Sunny         Cloudy         Partly Cloudy         Partly Cloudy         Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: on the upper left corver of Soil Medium: Saturation - dry Panels?   C	SPRING MOBILIZATION*	Irrigate often for shorter periods of time Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustmen</li> </ul>	<ul> <li>Irrigation activities relate to changes in</li> <li>Any pruning or weeding activities shoul</li> </ul>	<ul> <li>Any pest management activitites should o Any structural maintenance includes ch</li> </ul>	ם Any other actions taken that do not fall	+ <i>Please refer to the</i> Routine Living Wall 1 2 3 4 5	V			

	E) ACTION(S) TAKEN Removal of clead plant matherial. Testing Soil moisture. Trimming back grasses.	be caused by the drip line. , but the sedum Nevil r seems to be coming back	NTERIZATION in pipes/ blowout and shift to hand tering (frequency to depend on nate, but plant roots must remain ist at all times!).	initiers). initers). Other Observations Shave dispersed, SEDUM BLUE SPRUCE BUFFALO GRASS SEDUM SEXANGULARE SEDUM SEXANGULARE SEDUM SEXANGULARE SEDUM SEXANGULARE SEDUM CZAR'S GOLD
	URRENT SETTINGS SERVICE AREA (CIRCLI 4-P-K: Fertigation Dosatron: Irrigation rigation Frequency: Pruning  Weeding rigation Duration: Structural rigation Time of Day: Other	RECOMMENDATIONS FUnever water distribution could mever hales in the prigation More observations are needed that was planted earlier this yea	ALL WIR becrease irrigation time of each zone and/ Wir brain frequency.	<ul> <li>(dose rates), checking tank levels, refiling liquid f l system assessments (e.g. checking lines and em quantity (e.g. 11 specimens).</li> <li>what has been applied, and in what quantity. the gutter.</li> <li>* Aphi d active d described in detail.</li> <li>* SEDUM DRAGON'S BLOOD</li> <li>* SEDUM JOHN CREECH</li> <li>* SEDUM VOODOO "BLAZE"</li> <li>* DOG TUFF GRASS</li> </ul>
UTORING DOCUMENTATION	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	edy granth of established #	SUMMER FI Increase irrigation time of each zone D and/ or frequency.	o Dosatron settings, NPK ratios and frequency ( quency, duration, time of day, as well as general ote what was removed (if known) and in what q scribe what pest is being managed (if known), v ing the frame and flexipanels and clearing out t der the listed service areas should be noted and intenance guide for more detailed operations o 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 8 9 10 11 12 6 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IVING WALL   MAINTENANCE + MON	NAME OF PERSON Emily Bred elweft WEATHER (CIRCLE) 10's 20's 30's 40's 50's 60's 70's 81 Sunny Cloudy Partly Cloudy Rainy Sn	OBSERVATIONS Plant Health: Vigor?   Dry?   Chlorotic?: Ste Plants, Some possible new gros Soil Medium: Saturation - dry Panels?   Cover Unever Saturation - dry Panels?   Cover	SPRING MOBILIZATION* Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	Fertigation activities include adjustments to Irrigation activities relate to changes in freq Any <i>pruning or weeding</i> activities should de: Any structural maintenance includes checkin Any other actions taken that do not fall und Any other actions taken that do not fall und Please refer to the Routine Living Wall Mai 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5

		areal	
С	ICLE) ACTION(S) TAKEN Removal of clead Plant mujerial. Checking soil muisture contect.	Werng. News and upper Erner John WINTERIZATION WINTERIZATION Drain pipes/ blowout and shift to hand watering (frequency to depend on watering (frequency to depend on climate, but plant roots must remain moist at all times().	id fertilizer, and cleaning filters. emitters). e SEDUM BLUE SPRUCE BUFFALO GRASS e SEDUM SEXANGULARE SEDUM SEXANGULARE SEDUM CZAR'S GOLD SEDUM CZAR'S GOLD
	SERVICE AREA (CIF Fertigation Irrigation Pruning   Weeding Pest Management Structural Other	/Observetions eased: edum Still Plo with an Sedum or curner Buffe of each zone and/	e.g. checking lines and tens). , and in what quantity. , and in what quantity. , and in what Quantity. , and in what Quantity. , and in what Quantity. ANGELINA JOHN CREECH VOODOOO "BLAZE" JFF GRASS
	URRENT SETTINGS -P-K: osatron: rigation Frequency: rigation Duration: rigation Time of Day:	ECOMMENDATIONS regention decr fold creech se what new gro uppalo grass, clur all	dose rates), checking ta laystem assessments (e uantity (e.g. 11 specim what has been applied, he gutter. I described in detail. <i>Ind maintenance inform</i> SEDUM SEDUM SEDUM SEDUM
G DOCUMENTATION	TIME         (e.g. 11:00 - 11:15)         C           N         N         N         N           IO         -         2         D         D           100+         100+         Irr         Irr         Irr           ailing/ Steeting         Windy         Irr         Irr	1. Some new growth II M R R R R R R R R R R R R R R R R R R	n settings, NPK ratios and frequency ( rration, time of day, as well as general was removed (if known) and in what q at pest is being managed (if known), v at pest is being managed (if known), v at pest is being managed (if known), v at pest is being managed (if nown), v at pest is pering managed (if nown), v at pest is pest
MONITORING	DATE           0/29           0's         80's           1y         Snowy	7: Stable, w Coverage?: ibution. SUMME ne. Increase and/or	ents to Dosatror In frequency, du uld note what wh checking the fra- checking the list all under the list all Maintenance b b c c c c c c c c c c c c c c c c c
LIVING WALL   MAINTENANCE +	NAME OF PERSON Emily Bredehoedd WEATHER (CIRCLE) 10's 20's 30's 40's 50's 60's 71 Sunny (Cloudy) Partly Cloudy Rair	OBSERVATIONS Plant Health: Vigor?   Dry?   Chlorotic w. the vicible plants, Soil Medium: Saturation - dry Panels? Uneven woisture old Panels? Uneven woisture dry Panels? Ineven woisture of the often for shorter periods of tim Irrigate often for shorter periods of tim Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustm</li> <li>Irrigation activities relate to changes</li> <li>Any pruning or weeding activities sho</li> <li>Any pest management activities sho</li> <li>Any other actions taken that do not fi</li> <li>Please refer to the Routine Living Wi</li> <li>1 2 3 4 1</li> <li>1 1 2 3 4 1</li> <li>1 2 3 4 1</li> <li>1 1 1 1 1 1</li> <li>1 1 1</li></ul>

C	CIRCLE) ACTION(S) TAKEN Hand watering ing	o be dormant for the	WINTERIZATION Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times().	iquid fertilizer, and cleaning filters. Ind emitters). Ity.
	CURRENT SETTINGS SERVICE AREA (I N-P-K: Fertigation Dosatron: Irrigation Irrigation Frequency: Pruning   Weedi Irrigation Duration: Pest Managemei Irrigation Time of Day: Other	RECOMMENDATIONS/Observet	FALL Decrease irrigation time of each zone and/ or frequency.	<ul> <li>(dose rates), checking tank levels, refilting lines a tquantity (e.g. 11 specimens).</li> <li>I, what has been applied, and in what quantit the gutter.</li> <li>Ind described in detail.</li> <li>Ind described in detail.</li> <li>Ind maintenance information.</li> <li>Ind maintenance inform</li></ul>
VITORING DOCUMENTATION	DATE TIME (e.g. 11:00-11:15)  O/ U//[7] $ 2P - 1PB0's 90's 100+S00y Hailing/ Sleeting Windy$	ving plants seen to be erright, no new grouth.	SUMMER Increase irrigation time of each zone and/ or frequency.	o Dosatron settings, NPK ratios and frequency quency, duration, time of day, as well as gener ote what was removed (if known) and in what sscribe what pest is being managed (if known) ing the frame and flexipanels and clearing out der the listed service areas should be noted al aintenance guide for more detailed operations intenance guide for more detailed operations for 7 8 9 10 11 1 for 8 10 10 11 1 for 9 10 11 10 11 10 10 11 10 10 10 10 10 10
LIVING WALL   MAINTENANCE + MON	NAME OF PERSON Emily Bredehoeff WEATHER (CIRCLE) 10's 20's 30's 40's 50's 60's 70's 8 Sunny Cloudy Partly Cloudy Rainy S	OBSERVATIONS Plant Health: Vigor?   Dry?   Chlorotic?: Li 5fable. Muss plants are de soil Medium: Saturation - dry Panels?   Cove Panels / Soil slightly dry b	SPRING MOBILIZATION <sup>*</sup> Irrigate often for shorter periods of time. <i>Irrigation</i> : Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustments t</li> <li>Irrigation activities relate to changes in fre</li> <li>Any pruning or weeding activities should dc</li> <li>Any structural maintenance includes check</li> <li>Any other actions taken that do not fall un</li> <li>Please refer to the Routine Living Wall Ms</li> <li>1 2 3 4 5</li> <li>C 2 2 3 4 5</li> <li>C 3 4 5</li> <li>C 4 2 3 4 5</li> <li>C 5 2 3 4 5</li> <li>C 5 2 3 4 5</li> <li>C 6 2 2 3 4 5</li> <li>C 7 2 3 4 5</li> <li>C 7 2 3 4 5</li> <li>C 8 2 2 3 4 5</li> <li>C 8 2 3 4 5</li> <li>C 9 2 5</li> <li>C 9 2 5</li> <li>C 9 2 5</li> <li>C 9 2 6</li> <li>C 9 2 6</li> <li>C 9 2 7</li> <li>C 9 2 7</li></ul>

C,	CIRCLE) ACTION(S) TAKEN		ne Marchwatering	ž			WINTERIZATION	Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).	<ul> <li>quid fertilizer, and cleaning filters.</li> <li>and emitters).</li> <li>bt/</li> <li>bt/</li> <li>sEDUM BLUE SPRUCE</li> <li>BUFFALO GRASS</li> <li>SEDUM SEXANGULARE</li> <li>SEDUM SEXANGULARE</li> <li>SEDUM CZAR'S GOLD</li> </ul>
	SERVICE AREA (	Fertigation Irrigation	Pruning   Weedi	Pest Managemei Structural Other	SV			me of each zone and/	g tank levels, refilling li s (e.g. checking lines a cimens). ed, and in what quanti ed, and in what quanti m DRAGON'S BLOOO IM ANGELINA IM JOHN CREECH IM JOHN CREECH IM VOODOO "BLAZE TUFF GRASS
	CURRENT SETTINGS	N-P-K: Dosatron:	Irrigation Frequency:	Irrigation Duration: Irrigation Time of Day	RECOMMENDATION	Ŷ	FALL	Decrease irrigation tir or frequency.	y (dose rates), checking it quantity (e.g. 11 spec I), what has been applii it the gutter. and described in detail. 12 12 12 12 12 12 12 12 12 12 12 12 12
RING DOCUMENTATION	TE TIME (e.g. 11:00 - 11:15)	0/18/17 18-2P		90's 100+ / Hailing/Sleeting Windy		selson. selson. Laterage with minual	MMER	ease irrigation time of each zone	<ul> <li>satron settings, NPK ratios and frequency, duration, time of day, as well as generihat was removed (if known) and in what e what pest is being managed (if known).</li> <li>e what pest is being managed (if known).</li> <li>e frame and flexipanels and clearing ou re listed service areas should be noted a nance guide for more detailed operation.</li> <li>7 8 9 10 11 3</li> <li>7 8 9 10 11 3</li> <li>9 10 11 3</li> <li>9 10 11 3</li> <li>10 11 3</li> <li>10 11 3</li> <li>10 11 3</li> <li>10 11 3</li> <li>11 13</li> <li>11 14</li> <li>11 15</li> <li>11 10</li> <li>11 13</li> <li>1</li></ul>
LIVING WALL   MAINTENANCE + MONITC	NAME OF PERSON	Emily Bredehveld 10	WEATHER (CIRCLE)	10's         20's         30's         40's         50's         60's         70's         80's           Sunny         Cloudy         Partly Cloudy         Partly Cloudy         Snow	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: No n. Plants gong dor want for the soil Medium: Saturgition - dry Panels?   Coverage drus oid the ist work of and Entry of	SPRING MOBILIZATION <sup>+</sup> 0 SU	Irrigate often for shorter periods of time. Inc Irrigation: Zone run times; any adjust- ments?	<i>Fertigation</i> activities include adjustments to Do <i>Irrigation</i> activities relate to changes in frequer Any <i>pruning or weeding</i> activities should note v Any structural maintenance includes checking t Any other actions taken that do not fall under t Any other actions taken that do not fall under t <i>Please refer to the</i> <b>Routine Living Wall Mainte</b> 1 2 3 4 5 6 1 2 3 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TE TIME (e.g. 11:00 - 11:15) CURRENT SETTINGS SERVICE AREA (CIRCLE) ACTION(S) TAKEN	25/17 N-P-K: Fertigation Handwatering	Irrigation Frequency: Pruning   Weeding	90's 100+ / Hailing/ Steeting Windy Windy Other Other	RECOMMENDATIONS	ver coverge curtinue to monitur.	MMER FALL WINTERIZATION	rease irrigation time of each zone Decrease irrigation time of each zone and/ Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times/).
DATE TIME (e.g.	10/25/17		60's) 90's 100+ Snowy Hailing/ Steeting Wi		Inever Coverage lerage?:	SUMMER	Increase irrigation time of ear and/ or frequency.
NAME OF PERSON	Emily Bredehue At-	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's Sunny) Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: Soil Medium: Saturation - dry Panels?   Cov	SPRING MOBILIZATION <sup>+</sup>	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?

C	EN back the prass. an aphid 	ater, and	d shift to hand fepend on must remain	g filters. SPRUCE \SS NGULARE 'S GOLD
	CLE) ACTION(S) TAK Trimming clog tubb checking infestation General ob	ing for the wi	WINTERIZATION Drain pipes/ blowout an watering (frequency to c climate, but plant roots, moist at all times!).	emitters). emitters). emitters). e SEDUM BLUE e BUFFALO GRA e SEDUM SEXAI o SEDUM CZAR
	SERVICE AREA (CIR Fertigation Irrigation Pruning Weeding Pest Management Structural Other	s/observations a to be actuality kever applieds and	le of each zone and/	tank levels, refilting liqu (e.g. checking lines and mens). d, and in what quantity. d, and in what quantity. d, and in what quantity. d and ELINA d JOHN CREECH d JOHN CREECH d VOODOO "BLAZE" UFF GRASS
	CURRENT SETTINGS N-P-K: Dosatron: Irrigation Frequency: Irrigation Duration: Irrigation Time of Day:	RECOMMENDATIONS Lodybugs seen 4 signated, how	FALL Decrease irrigation tim or frequency.	y (dose rates), checking ral system assessments t quantity (e.g. 11 speci ), what has been applies it the gutter. I2 I2 I2 SEDUN SEDUN SEDUN SEDUN SEDUN
ENTATION	AE (e.g. 11:00 - 11:15) A- 11 A ing Windy	a stable, no new left buffalo	me of each zone	IPK ratios and frequencies of day, as well as gene d (if known) and in wha aing managed (if known cipanels and clearing ou areas should be noted a areas should be noted a areas should be moted a areas are
NITORING DOCUM	DATE         TIN           DATE         TIN           BO'S         90'S         100+           Snowy         Hailing/Sleet	riving plants seen rough in upper verage?: grass,	SUMMER Increase irrigation ti and/ or frequency.	to Dosatron settings, N equency, duration, time note what was remover lescribe what pest is be king the frame and flex der the listed service a alintenance guide for n 6 7 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
INTENANCE + MO	delivered t	Dry?   Chlorotic?: L. 1. Possible new gr on - dry Panels?   Colo Juder Pluw st	ON⁺ ter periods of time. mes; any adjust-	include adjustments elate to changes in fre <i>ling</i> activities should r and activities should d enance includes chec ken that do not fall ur coutine Living Wall M a a a a b a b a b a b a b a b a b a b
LIVING WALL   MA	NAME OF PERSON	OBSERVATIONS Plant Health: Vigor? 1 dife off found Soil Medium: Saturati	SPRING MOBILIZATI Irrigate often for shor <i>Irrigation</i> : Zone run ti ments?	<ul> <li>Fertigation activities r</li> <li>Irrigation activities r</li> <li>Any pert manageme</li> <li>Any structural maint</li> <li>Any other actions tal</li> <li>Any other actions tal</li> <li>1 2</li> <li>1 3</li> <li>2 4</li> <li>1 4</li> <li>1 5</li> <li>1 7</li> <li>2 4</li> <li>1 1 2</li> <li>2 4</li> <li>2 5</li> <li>2 5</li> <li>2 5</li> <li>2 6</li> <li>2 7</li> <li>2 7</li> <li>2 7</li> <li>2 8</li> <li>2 7</li> <li>2 8</li> <li>3 8</li> <li>3 9</li> <li>3 9</li></ul>

C	CIRCLE) ACTION(S) TAKEN		Handwartring				WINTERIZATION	Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plont roots must remain moist at all times/).	quid fertilizer, and cleaning filters.         nd emitters).         ty.         b.         e       SEDUM BLUE SPRUCE         e       BUFFALO GRASS         e       SEDUM SEVANGULARE         e       SEDUM SEXANGULARE         e       SEDUM SEXANGULARE         model       SEDUM SEXANGULARE
	ENT SETTINGS SERVICE AREA (C	: Fertigation ron:	ion Frequency: Pruning   Weedin	ion Duration: Pest Managemen ion Time of Day: Structural Other	MMENDATIONS	three to manifar,		ase irrigation time of each zone and/ quency.	<ul> <li>rates), checking tank levels, refilling licent assessments (e.g. checking lines artity (e.g. 11 specimens).</li> <li>thas been applied, and in what quantit utter.</li> <li>thas been applied, and in what quantit utter.</li> <li>sEDUM DRAGON'S BLOOC</li> <li>SEDUM DRAGON'S BLOOC</li> <li>SEDUM ANGELINA</li> <li>SEDUM VOODOOO "BLAZE"</li> <li>DOG TUFF GRASS</li> </ul>
	TIME (e.g. 11:00 - 11:15) CURRI	1:30p - 2:30p	Irrigati	+ Sleeting Windy	RECO	without living Con Is are very of Con	FALL	tion time of each zone Decrea	ngs, NPK ratios and frequency (dose n, time of day, as well as general system moved (if known) and in what quant tis being managed (if known), what d flexipanels and clearing out the given rvice areas should be noted and des integrations and m g g 10 11 12 g m m m m m m m m m m m m m m m
NCE + MONITORING DO	DATE	- 11/9/11		60's 70's 80's 90's 100. Rainy Snowy Hailing/		norotic?: Parels anels?) ( Coverage?: Plan	SUMMER	is of time. Increase irrigat adjust-	djustments to Dosatron setti nanges in frequency, duratior ties should note what was re- tes should note what was re- tes should describe what pes do not fall under the frame ar cludes checking the frame ar ich on tall Maintenance guid b b c c c c c c c c c c c c c c c c c
LIVING WALL   MAINTENA	NAME OF PERSON	Emily Bredehoeft	WEATHER (CIRCLE)	10's 20's 30's 40's 50's Sunny Cloudy Partly Cloudy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Ch Soil Medium: Saturation (dry P:	SPRING MOBILIZATION*	Irrigate often for shorter period Irrigation: Zone run times; any : ments?	<ul> <li>Fertigation activities include a</li> <li>Irrigation activities relate to cf</li> <li>Any pruning or weeding activiti</li> <li>Any pest management activiti</li> <li>Any other actions taken that d</li> <li>Please refer to the Routine Li</li> <li>1 2 3 4</li> <li>2 3 4</li> <li>6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</li></ul>

C	IRCLE) ACTION(S) TAKEN		B Handwestering .	t I muste per parel = 60 musts				WINTERIZATION	Drain pipes/ blowout and shift to hand watering (frequency to depend on climote, but plant roots must remain moist at all times!).	quid fertilizer, and cleaning filters.	id emitters).	X				<ul> <li>BUFFALO GRASS</li> </ul>	<ul> <li>SEDUM SEXANGULARE</li> <li>SEDUM CZAR'S GOLD</li> </ul>				
	T SETTINGS SERVICE AREA (CI	Fertigation	Frequency: Pruning   Weedin	Duration: Pest Managemen Time of Day: Structural Other	AENDATIONS	true to monitar			irrigation time of each zone and/ ncy.	es), checking tank levels, refilling liq	assessments (e.g. checking lines an	(e.g. 11 specimens). s been applied, and in what quantit	jî. A detecil	eu III detail. itenance information.		<ul> <li>SEDUM DRAGON'S BLOOD</li> <li>SEDUM ANGELINA</li> </ul>	<ul> <li>SEDUM JOHN CREECH</li> <li>SEDUM VOODOO "BLAZE"</li> </ul>	DOG TUFF GRASS	Othod	Fort Collins	
0	s) CURRENT	N-P-K: Dosatron:	Irrigation I	Irrigation [ Irrigation ]	RECOMIN	cont		FALL	Decrease i or frequer	ency (dose rate	eneral system	what quantity ( own), what has	g out the gutter	eu and uescriut tions and main	12						
ITORING DOCUMENTATION	DATE TIME (e.g. 11:00 - 11:15	11/15/17 1:10p-2:10p		0's 90's 100+ nowy Hailing/Sleeting Windy		ing plants are dorment. No rabe?		SUMMER	Increase irrigation time of each zone and/ or frequency.	o Dosatron settings, NPK ratios and freque	quency, duration, time of day, as well as ge	ote what was removed (it known) and in w scribe what pest is being managed (if kno	ing the frame and flexipanels and clearing	uer the listed service areas should be hole intenance guide for more detailed operati	6 7 8 9 10 11						
LIVING WALL   MAINTENANCE + MON	NAME OF PERSON	Emily Bredehveft	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's 8 Sunny Cloudy Partly Cloudy Rainy S	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: L. Other visible changes Soil Medium: Saturation - dry Panels?   Cove	low long and	SPRING MOBILIZATION*	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustments to</li> </ul>	<ul> <li>Irrigation activities relate to changes in free</li> </ul>	Any pruning or weeding activities should nu Any pest management activitites should de	o Any structural maintenance includes check	<ul> <li>Any other actions taken that do not rall unit</li> <li>Please refer to the Routine Living Wall Ma</li> </ul>	1 2 3 4 5	A					

C	() TAKEN	weterng :	omel O				be removed		out and shift to hand to to depend on roots must remain y.	leaning filters.						BLUE SPRUCE O GRASS	SEXANGULARE CZAR'S GOLD			AN LAB CONSTANT
	CIRCLE) ACTION(S	Hand	me tmm				I need to b	WINTERIZATION	Drain pipes/ blow watering (frequen climate, but plant moist at all times/	quid fertilizer, and c	nd emitters).	ty.				D SEDUM BUFFAL	<ul> <li>SEDUM</li> <li>SEDUM</li> </ul>			Contracto Contracto Interview Annual Contracto
	SERVICE AREA (C	Fertigation	Prunting-1-Weedi	Pest Managemer Structural Other		montar	matter will	1	e of each zone and/	ank levels, refilling li	e.g. checking lines a	nens). I, and in what quanti		mation		1 DRAGON'S BLOOI 1 ANGELINA	1 JOHN CREECH	UFF GRASS		Ort Collins Dereson Services
	URRENT SETTINGS	-P-K: osatron:	rigation Frequency:	rigation Duration: rigation Time of Day:	ECOMMENDATIONS	Continue to	Dead plant		ecrease irrigation time frequency.	dose rates), checking t	system assessments (	uantity (e.g. 11 specir what has been applied he gutter.	described in detail.	nd maintenance infor				DOG TI	(	
OCUMENTATION	TIME (e.g. 11:00 - 11:15)	7 1:11p-2:11p		Ir 10+ 16/ Steeting Windy/Brezer		churges.			gation time of each zone D uency.	ttings, NPK ratios and frequency (	on, time of day, as well as general	removed (if known) and in what q est is being managed (if known), v and flexioanels and clearing out t	service areas should be noted and	ide for more detailed operations a	8 9 10 11 12					
IONITORING D	DATE	1/22/11		s 80's 90's 10 Snowy Hailin		No visible	Coverage?:	SUMMER	. Increase irrig and/ or freq	its to Dosatron sei	frequency, durati	d note what was d describe what p ecking the frame	under the listed s	Maintenance gui	6 7					
IVING WALL   MAINTENANCE + M	NAME OF PERSON	Emily Bredehorft	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?:	Soil Medium: Saturation - dry Panets?   C Parhially	SPRING MOBILIZATION	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	Fertigation activities include adjustment	Irrigation activities relate to changes in	Any <i>pruning or weeding</i> activities shoull. Any <i>pest management</i> activitites should Any structural maintenance includes che	Any other actions taken that do not fall	· Please refer to the Routine Living Wall	1 2 3 4 5					

С	RCLE) ACTION(S) TAKEN E Handwatenny t Imin/ponel	WINTERIZATION Drain pipes/ blowout and shift to hand watering (frequency to depend on climots or but plont roots must remain mots or all times I).	<ul> <li>d emitters).</li> <li>d emitters).</li> <li>SEDUM BLUE SPRUCE</li> <li>BUFFALO GRASS</li> <li>BUFFALO GRASS</li> <li>SEDUM SEXANGULARE</li> <li>SEDUM CZAR'S GOLD</li> <li>SEDUM CZAR'S GOLD</li> </ul>
	SERVICE AREA (CI Fertigation Irrigation Pruning   Weedin Pest Managemen Structural Other	of each zone and/	ink levels, refilting lid .g. checking lines an ens), and in what quantit and in what quantit DRAGON'S BLOODD DRAGON'S BLOODD ANGELINA JOHN CREECH VOODDOO "BLAZE" FF GRASS
	RRENT SETTINGS -K: atron: atron Frequency: ation Duration: ation Time of Day:	COMMENDATIONS	se rates), checking ta stern assessments (e antity (e.g. 11 specimi tat has been applied, escribed in detail. • SEDUM • SEDUM • DOG TU
0	N-P Dos	S C C C	equency (do as general s; known), wh known), wh ing out the aring aring out the aring aring arin
ATION	e.e. 11:00- : p - 2:3	change. plants,	atios and france and france and france and france and and managed (if managed (if managed (if and a should be should be a should be should be a should
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G WALL	AF OF PER THER (CIR 20'S 30'	ERVATION Health: Vi Medium: Sa Medium: Sa Maring NG MOBII NG MOBII te often fo the often fo sign: Zone	tigation activity potton activity potton activity pest manu vistructural vistructural 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LIVIN	NAN C n Sunn	OBS Plan Soil 1 Perd SPRI Irrige	<ul> <li>Ferri</li> <li>Anny</li>     &lt;</ul>

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	ACTION(S) TAKEN	8 11	Hand water			as ofter a		ERIZATION	pipes/ blowout and sting <i>(frequency to depe</i> ing <i>(frequency to depe</i> ie, but plant roots mus at all times!).	tilizer, and cleaning fill ers).				<ul> <li>SEDUM BLUE SPF</li> <li>BUFFALO GRASS</li> <li>SEDUM SEXANGI</li> <li>SEDUM CZAR'S G</li> </ul>	
	REA (CIRCLE)	-	Weeding	agement		G Water	wollin	WINT	and/ Drain wateri	filling liquid fert lines and emitt	quantity.			BLOOD CH BLAZE"	Contraction of the second seco
	SERVICE A	Fertigation	Pruning	Pest Mana Structural Other	5	e monita	i thoms a		ie of each zone	tank levels, rei le.g. checking	imens). d, and in what		rmation.	M DRAGON'S M ANGELINA M JOHN CREE M VOODOO " TUFF GRASS	City of Colling Parson Serverson
	ENT SETTINGS	:uc	on Frequency:	on Duration: on Time of Day:	MENDATION	true t	ther care		se irrigation tim uency.	rates), checking m assessments	ty (e.g. 11 speci has been applie	tter. ribed in detail.	aintenance info	<ul> <li>SEDUI</li> <li>SEDUI</li> <li>SEDUI</li> <li>SEDUI</li> <li>SEDUI</li> </ul>	
0	5) CURRE	N-P-K: Dosatro	] Irrigatio	Irrigatio	RECON	Cer	weat	FALL	Decrea or freq	ency (dose i	vhat quanti wn), what l	out the guid	ions and m 12		
TION	g. 11:00 - 11:15	39		Windy		e changes	er.		each zone	ios and freque v. as well as ge	iown) and in w anaged (if kno	s and clearing hould be note	etailed operat 10 11		
CUMENTA	TIME (e.	20-02		Sleeting		vis,ble	mtor		ion time of ncy.	igs, NPK rat time of da	noved (if kn t is being m	d flexipanel vice areas s	for more di 3 9		
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WALL	OF PERSI	W Br	/ Her (circ	20's 30's Cloudy	IVATIONS	<i><b>Health: Vig.</b></i>	Partia	G MOBILI	e often for on: Zone r	nation activit	runing or 1 est manag	tructural n ther action	se refer to		
DNINI	NAME	Emi.	WEATI	10's Sunny	OBSFR	Plant h	Soil Me	SPRIN	Irrigate Irrigati ments	<ul> <li>Fertig</li> <li>Irrian</li> </ul>	= Any p	o Any si a Any o	+ Pleas	< m U	<u>مەمەھە</u> مەمەھ

	IRCLE) ACTION(S) TAKEN	Handwodenty				d water as needed.		WINTERIZATION	Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).	Juid fertilizer, and cleaning filters.	d eminters).			<ul> <li>SEDUM BLUE SPRUCE</li> <li>BUFFALO GRASS</li> </ul>	<ul> <li>SEDUM SEXANGULARE</li> <li>SEDUM CZAR'S GOLD</li> </ul>			
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	CURRENT SETTINGS	N-P-K: Dosatron: Irrization Frequency:	million or a damage of	Irrigation Duration: Irrigation Time of Day:	RECOMMENDATIONS	Continue to		FALL	Decrease irrigation tim or frequency.	(dose rates), checking t	et system assessments : quantity (e.g. 11 specir what has hean annliar	the gutter. described in detail.	and maintenance infor .2		SEDUN     SEDUN	DOG DOG T		
	TIME (e.g. 11:00 - 11:15)	1:30p-2:30p		Sleeting Windy		hanges.	l parets without		on time of each zone cy.	gs, NPK ratios and frequency	ume or day, as well as gener loved (if known) and in what ic heine managed (if bnown)	fifexipanels and clearing out tice areas should be noted ar	for more detailed operations 9 10 11 1					
ONITORING DOC	DATE	12/13/17		80's 90's 100+ Snowy Halling/ 9		No visible c	overages: not complet	SUMMER	Increase irrigati and/ or frequen	s to Dosatron setting	requency, auranon, I note what was rem describe what sect	the frame and service the listed service servi	Maintenance guide J 6 7 8					
LIVING WALL   MAINTENANCE + MI	NAME OF PERSON	Emily Bredehveft	WEATHER (CIRCLE)	10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?:	soil Medium: Saturation - dry Panels?   CC Slightly dry but	SPRING MOBILIZATION+	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustment</li> </ul>	<ul> <li>Irrigation activities relate to changes in t</li> <li>Any pruning or weeding activities should</li> </ul>	<ul> <li>Any structural maintenance includes che o Any structural maintenance includes che d'Any other actions taken that do not fall u</li> </ul>	+ <i>Please refer to the</i> <b>Routine Living Wall 1</b> 1 2 3 4 5	A 1000 0000 0000 0000 0000				

C	RCLE) ACTION(S) TAKEN	Hudwatenny	2		ter as weather allows.	arrow (12/21) *	WINTERIZATION	Drain pipes/ blowout and shift to hand watering (frequency to depend on climate, but plant roots must remain moist at all times!).	uid fertilizer, and cleaning filters. d emitters).				<ul> <li>SEDUM BLUE SPRUCE</li> <li>BUFFALO GRASS</li> <li>SEDUM SEXANGULARE</li> <li>SEDUM CZAR'S GOLD</li> </ul>	Oberton Oberto
	SERVICE AREA (CI	Fertigation Irrigation Pruning   Weedin	Pest Management Structural Other		manitar, Wa	ed bar tam	00	of each zone and/	ank levels, refilling liq. e.g. checking lines and	iens). and in what quantity		nation.	DRAGON'S BLOOD ANGELINA JOHN CREECH VOODOO "BLAZE" IFF GRASS	Dirt Collins
	URRENT SETTINGS	-P-K: osatron: igation Frequency:	igation Duration: igation Time of Day:	ECOMMENDATIONS	ion time to	Snow expected possible list w	ALL	ecrease irrigation time frequency.	dose rates), checking ta system assessments (e	uantity (e.g. 11 specim what has been applied,	he gutter. described in detail.	nd maintenance inforn		
5 DOCUMENTATION	TIME (e.g. 11:00 - 11:15) C	N/17 1:40p - 2:40p	100+ 1100 Nindy Irr	R	e changes, living plants (	t plants dry. *	R	Irrigation time of each zone Do requency.	i settings, NPK ratios and frequency ( ration. time of day, as well as general	as removed (if known) and in what q at pest is being managed (if known), v	me and flexipanels and clearing out t ed service areas should be noted and	guide for more detailed operations a 8 9 10 11 12		
ONITORING	DATE	12/20	80's 90's Snowy Ha		vo visible	overage?: 5 with ou	SUMME	Increase and/ or f	s to Dosatror requency. du	l note what w describe what	scking the fra under the list	Maintenance 6 7		
LIVING WALL   MAINTENANCE + MC	NAME OF PERSON	Emily Bredehaeft	10's 20's 30's 40's 50's 60's 70's Sunny Cloudy Partly Cloudy Rainy	OBSERVATIONS	Plant Health: Vigor?   Dry?   Chlorotic?: /	Soil Medium: Saturation - dry Panels? I Cr Uneven Souther Din, panel:	SPRING MOBILIZATION*	Irrigate often for shorter periods of time. Irrigation: Zone run times; any adjust- ments?	<ul> <li>Fertigation activities include adjustment</li> <li>Irrigation activities relate to changes in fi</li> </ul>	<ul> <li>Any pest management activities should</li> </ul>	o Any structural maintenance includes che D Any other actions taken that do not fall u	+ <i>Please refer to the</i> <b>Routine Living Wall P</b> 1 2 3 4 5		