



Community Development / Streets and Utilities

MEETING AGENDA

Berryville-Clarke County Government Center
101 Chalmers Court, Second Floor
Main Meeting Room
Regular Session

September 24, 2024

3:30 PM

Item	Page
1. Call to Order - Ryan Tibbens, Chair	
2. Approval of Agenda	
3. Unfinished Business	
Discussion - Park Master Plan including 23 E. Main Street, Bathroom, Livery Stable, and Bridge	2
Update - Crow Street Improvements	
Update - Train Stopping on Tracks	
Discussion - Weeds	
4. New Business	
Update - Battletown / BelVoi - water project	
Discussion - Stormwater Projects - Fy 25-26	
Discussion - Trash Rates	
Discussion - In-town parking	
5. Other	
6. Closed Session	
7. Adjourn	

**Community Development Committee Meeting
24 September 2024**

Item Title: Master Plan for Rose Hill Park and Rixey Moore Parking lot

Prepared By: Jean Petti

Background/History General Information

Rose Hill Park and the immediately adjacent Rixey Moore Parking Lot are the primary hub for gatherings and recreation within the Town limits. Spurred by the need to address the condition of the walking bridge and parking lot lights, staff requests review of the current condition of park amenities and invites comment on ensuring the park meets current and projected needs. This project complements and may influence decisions about the use of the Livery Stable and the features of the proposed restroom.

Topics for discussion include access/walkways/bridges, security/lighting, and landscaping, as well as any proposed by committee members.

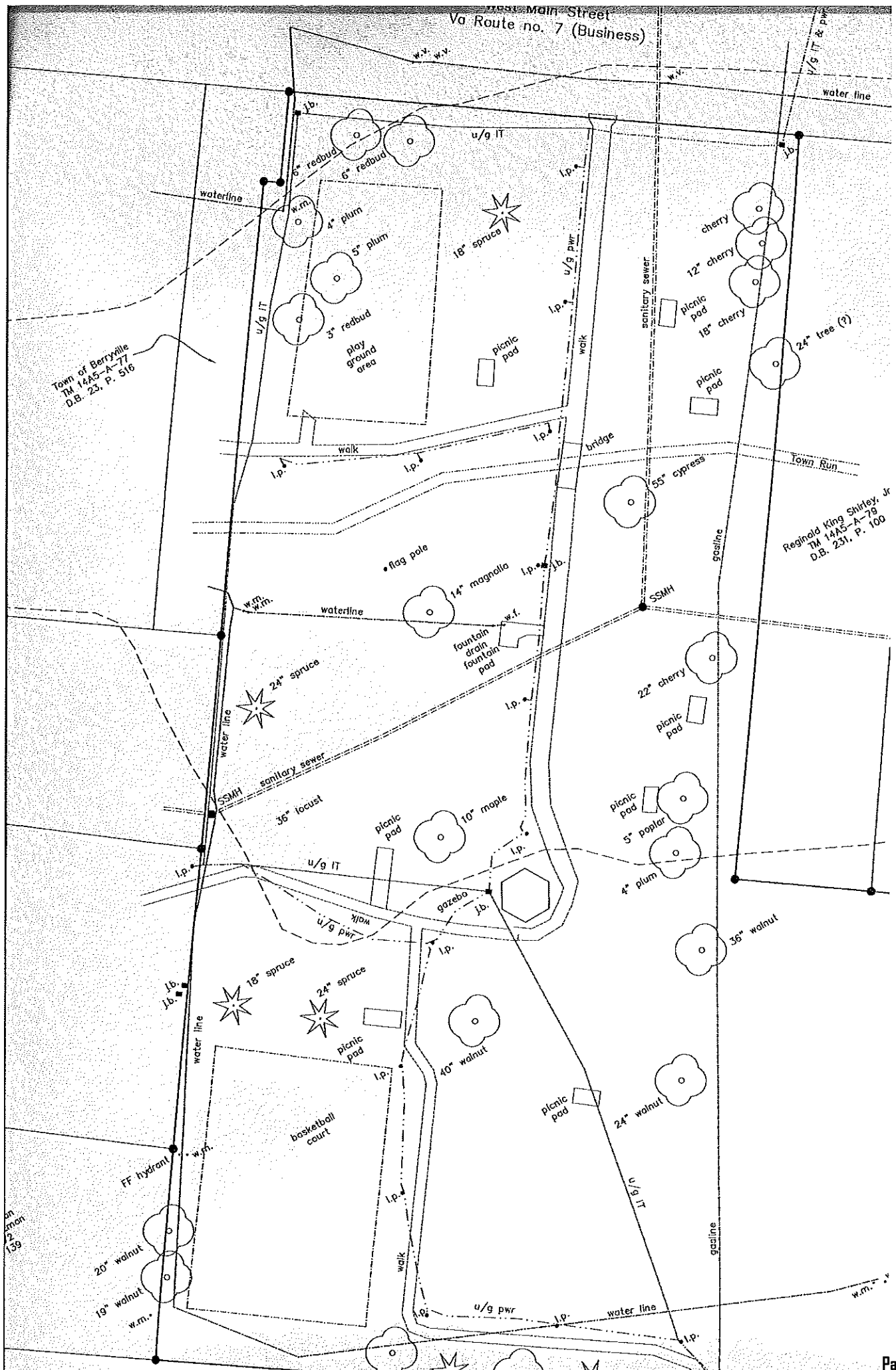
Attachments

Site plan of Park

Proposed restroom

Proposed sketch of Livery stable floor plan

Proposed lighting fixture



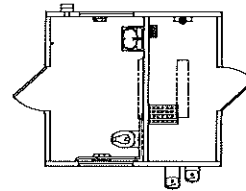
Town of Berryville
 TM 14A5-X-77
 D.B. 23, P. 516

Reginald King Shirley, Jr
 TM 14A5-A-79
 D.B. 231, P. 100

in
 man
 2
 139

OZARK I – 10' 6" x 12'

Ozark I with chase has one single user fully accessible flush restroom. Standard features include simulated barnwood textured walls, simulated cedar shake textured roof, vitreous china fixtures, 4-gallon water heater, interior and exterior lights, off loaded, and set up at site.



		Price Per Unit	
Base Price		\$ 55,622.00	\$ 55,622.00
Added Cost Options			Click to Select
Final Connection to Utilities		\$ 5,000.00	<input type="checkbox"/> 0.00
Optional Wall Texture- <i>choose one</i>	<input type="radio"/> Split Face Block (\$5,500) <input type="radio"/> Stone (\$7,000)	Reset Wall Texture	
Optional Roof Texture	<input type="checkbox"/> Ribbed Metal	\$ 5,500.00	0.00
Insulation and Heater		\$ 19,500.00	<input type="checkbox"/> 0.00
Vitreous China Urinal		\$ 750.00	<input type="checkbox"/> 0.00
Stainless Steel Water Closet & Lavatory		\$ 3,250.00	<input type="checkbox"/> 0.00
Stainless Steel Urinal		\$ 1,500.00	<input type="checkbox"/> 0.00
Electric Hand Dryer		\$ 700.00	<input type="checkbox"/> 0.00
Electronic Flush Valve		\$ 1,500.00	<input type="checkbox"/> 0.00
Electronic Lavatory Faucet		\$ 1,500.00	<input type="checkbox"/> 0.00
Electronic Urinal Flush Valve		\$ 1,500.00	<input type="checkbox"/> 0.00
Paper Towel Dispenser		\$ 350.00	<input type="checkbox"/> 0.00
Toilet Seat Cover Dispenser		\$ 350.00	<input type="checkbox"/> 0.00
Sanitary Napkin Disposal Receptacle		\$ 100.00	<input type="checkbox"/> 0.00
Baby Changing Table		\$ 750.00	<input type="checkbox"/> 0.00
Skylight in Restroom		\$ 1,600.00	<input type="checkbox"/> 0.00
Marine Grade Skylight in Restroom		\$ 2,450.00	<input type="checkbox"/> 0.00
Marine Package (<i>excluding fiberglass doors and frames</i>)		\$ 2,350.00	<input type="checkbox"/> 0.00
Exterior Mounted ADA Drinking Fountain w/Cane Skirt		\$ 5,600.00	<input type="checkbox"/> 0.00
2K Anti-Graffiti Coating		\$ 4,000.00	<input type="checkbox"/> 0.00
Optional Door Closure		\$ 450.00	<input type="checkbox"/> 0.00
Fiberglass Entry and Chase Doors and Frames (each)		\$ 3,300.00	<input type="checkbox"/> 0.00
Timed Electric Lock System (2 doors- does not include chase door) (each)		\$ 1,350.00	<input type="checkbox"/> 0.00
Exterior Frostproof Hose Bib with Box		\$ 1,200.00	<input type="checkbox"/> 0.00
Total for Added Cost Options:		\$	0.00
Custom Options: 2023 VA Installation Surcharge			\$ 4,200.00
Engineering and State Fees:		\$	5,500.00
Estimated One-Way Transportation Costs to Site (quote):		\$	10,600.00
Estimated Tax:		\$	
Total Cost per Unit Placed at Job Site:		\$	75,922.00

Estimated monthly payment on 5 year lease \$1,526.03

This price quote is good for 60 days from date below, and is accurate and complete.

<p>Gregg Zentarsky CXT Sales Representative</p>	<p>Digitally signed by Gregg Zentarsky Date: 2023.05.11 16:07:26 -04'00'</p>
--	--

Date

I accept this quote. Please process this order.

Company Name

Company Representative

Date

Single User

CORTEZ (left) AND DENALI (right)

- 2 single user flush restrooms
- 10'3" x 17' floor plan
- Interior & exterior lights
- 2 ADA toilets
- 2 sinks
- ADA grab bars



OZARK II

- 2 single user flush restrooms
- 10'6" x 18'8" floor plan
- Interior & exterior lights
- 2 ADA toilets
- 2 sinks
- ADA grab bars

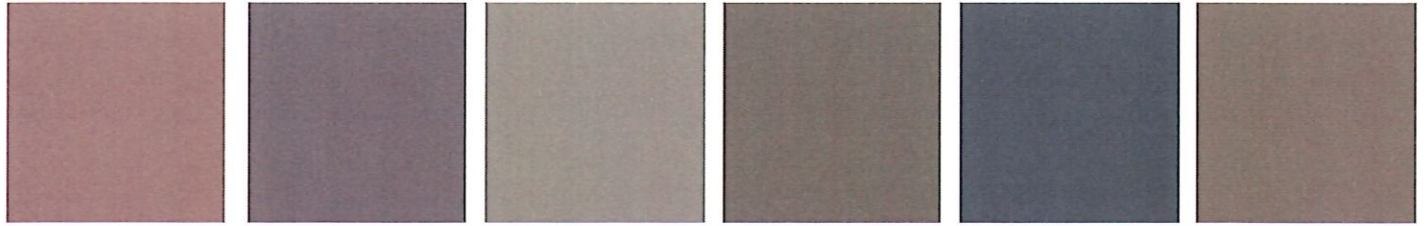


OZARK I

- 1 single user flush restrooms
- 10'6" x 12' floor plan
- Interior & exterior lights
- 1 ADA toilet
- 1 sink
- ADA grab bars



COLOR OPTIONS



Amber Rose

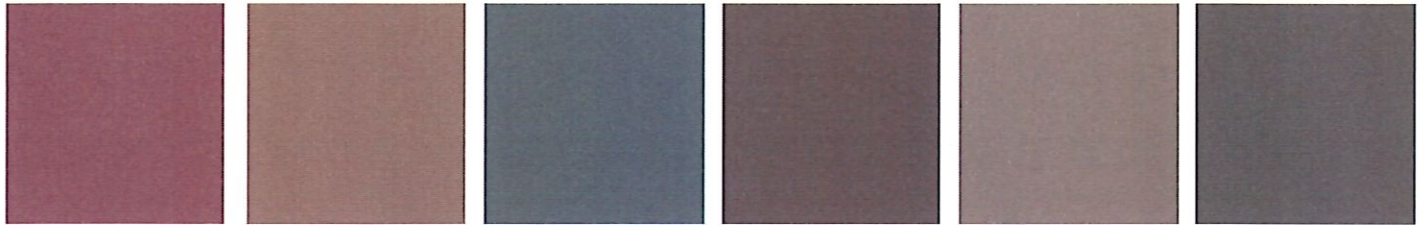
Berry Mauve

Buckskin

Cappuccino Cream

Charcoal Gray

Cocoa Milk



Georgia Brick

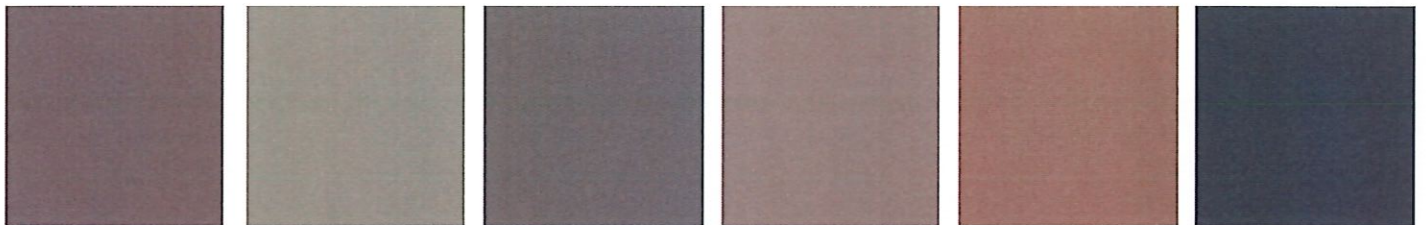
Golden Beige

Granite Rock

Java Brown

Liberty Tan

Malibu Taupe



Mocha Caramel

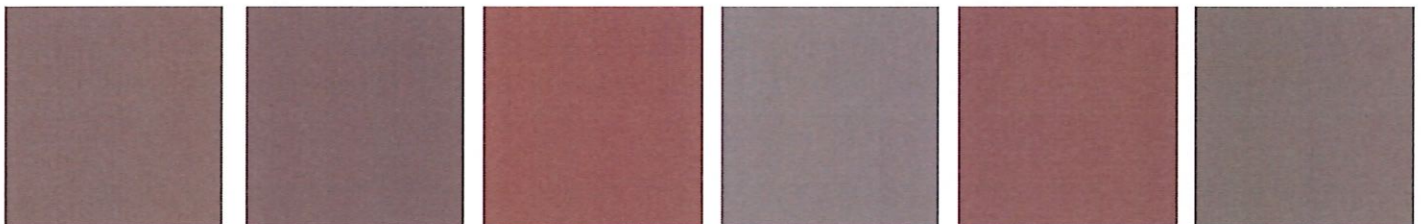
Natural Honey

Nuss Brown

Oatmeal Buff

Pueblo Gold

Raven Black



Rich Earth

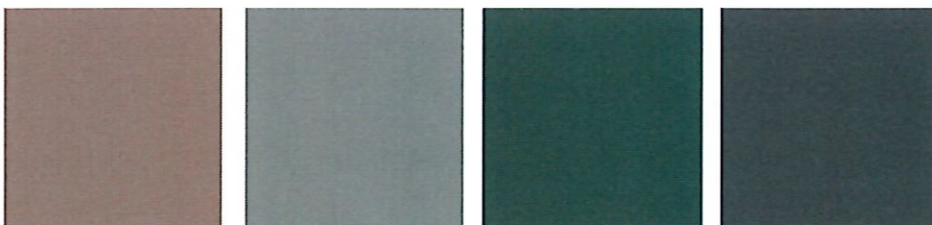
Rosewood

Salsa Red

Sand Beige

Sun Bronze

Toasted Almond



Western Wheat

Sage Green

Evergreen

Hunter Green

DISCLAIMER: The color samples shown are approximations only. Job site-applied colors will vary from this color chart due to printing variances as well as the texture and porosity of the substrate. CXT recommends applying a color sample to an inconspicuous area on the actual substrate to verify color choice.

STONE COLORS



Mountain Blend



Basalt



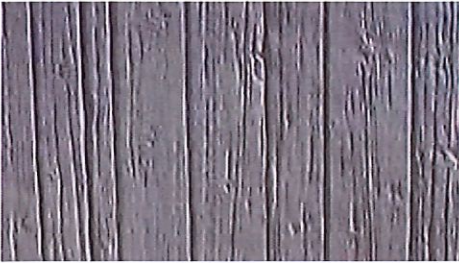
Natural Grey



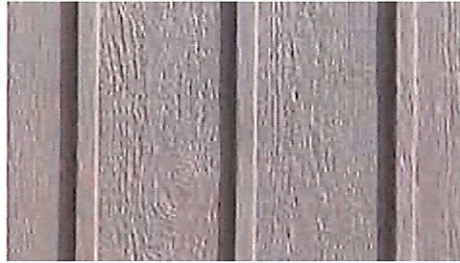
Romana

TEXTURES

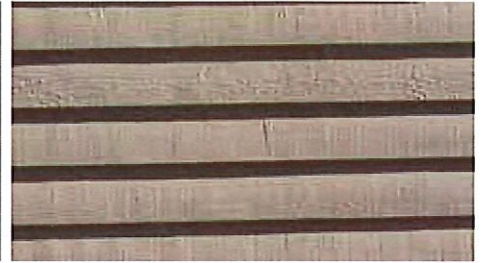
Wall



Barnwood



Board & Batt



Horizontal Lap



Stucco



Exposed Aggregate



Split Face Block



Flagstone

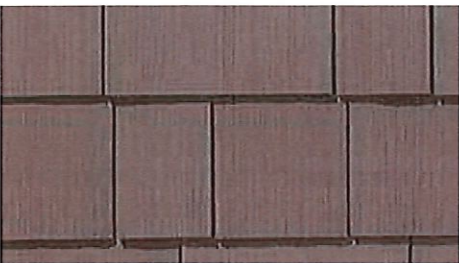


Napa Valley



River Rock

Roof



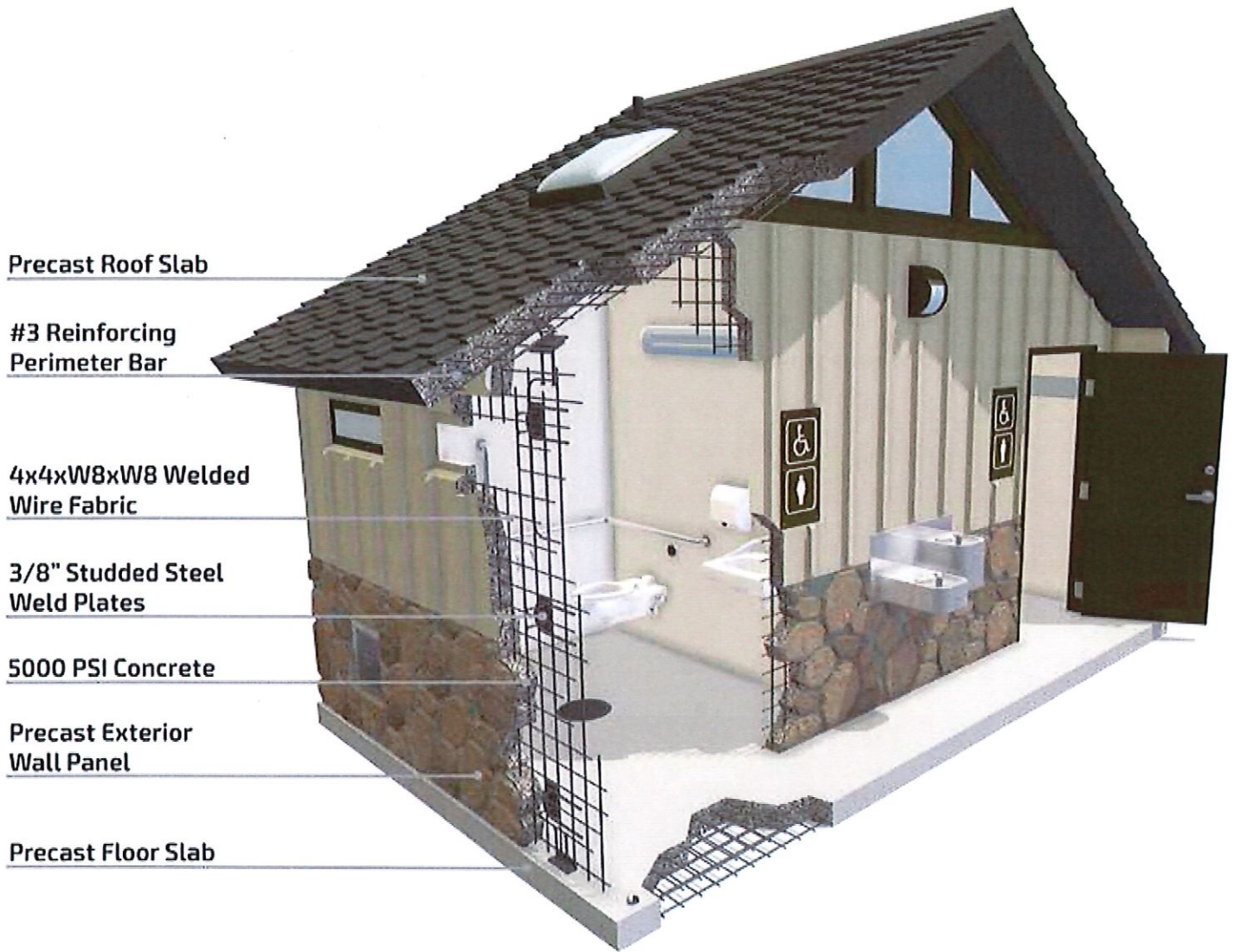
Cedar Shake



Ribbed Metal

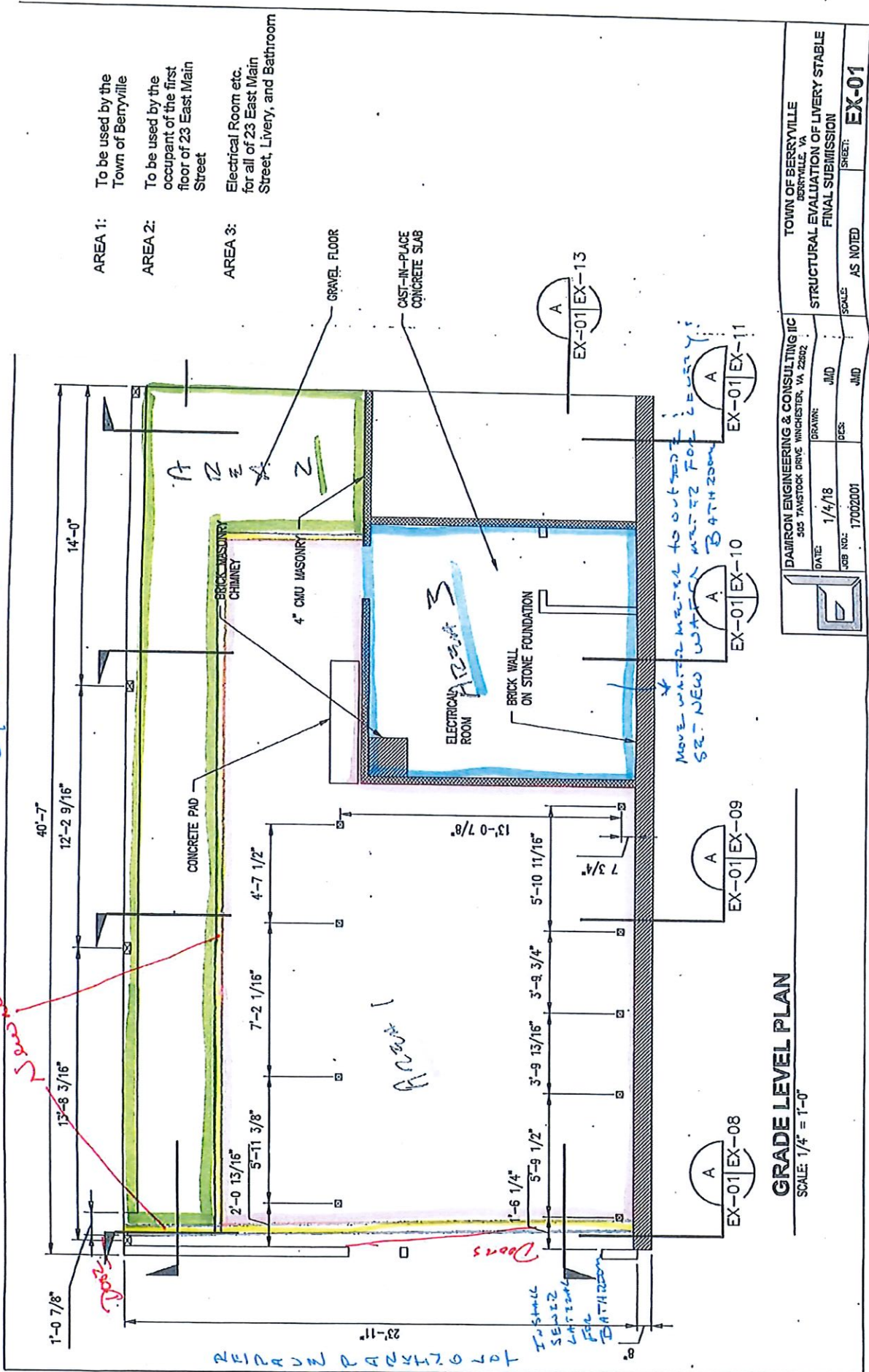


Exposed Aggregate



OPTION 1

11" CONC



- AREA 1: To be used by the Town of Berryville
- AREA 2: To be used by the occupant of the first floor of 23 East Main Street
- AREA 3: Electrical Room etc. for all of 23 East Main Street, Livery, and Bathroom

DARRON ENGINEERING & CONSULTING LLC 505 TANSTOCK DRIVE WINCHESTER, VA 22602		TOWN OF BERRYVILLE BERRYVILLE, VA
DATE: 1/4/18	DRAWN: JMD	STRUCTURAL EVALUATION OF LIVERY STABLE
JOB NO.: 17002001	DES: JMD	FINAL SUBMISSION
SCALE: AS NOTED		SHEET: EX-01

GRADE LEVEL PLAN
SCALE: 1/4" = 1'-0"

Livery Stable

Overview:

The Town of Berryville owns a 19th century livery stable that is located behind the former Town Office located at 23 East Main Street.

The former Town Office, which was constructed in 1936, is currently leased to Berryville Main Street. The first floor of the leased space is used for retail sales and the second floor is used for Berryville Main Street offices and business incubation.

The following improvements that support the former Town Office are located within the livery stable envelope:

- first and second floor bathrooms,
- electrical breaker boxes,
- water meter,
- hot water heater, and
- furnace and air conditioning unit (and associated above-ground oil storage tank).

In 2018, the Town commissioned an evaluation of the livery structure. The reviewing engineer concluded that the structure should be stabilized within approximately 5 years and that the estimated cost of the stabilization was \$150,000. The Town Council has been setting aside funds since 2018 to fund the stabilization project.

While the Council has discussed the stabilization in detail, the eventual use of the structure has not been determined.

The proposed FY2025 budget includes funding for the following interrelated projects:

- stabilization of the livery stable at 23 East Main Street (\$255,000),
 - o The original budget estimate for the livery stabilization was \$150,000. Because this was a 2018 estimate, it was increased by \$35,000 (added \$5K each year for years 2019 - 2025). To that \$185,000 stabilization budget, \$70,000 was added to address costs associated with yet to be determined improvements to the building and site above and beyond the stabilization of the structure.
- HVAC improvements at 23 East Main Street (\$30,000), and
- purchase and siting of a public bathroom on 23 East Main Street (\$105,000).

Attachments:

- Livery stable evaluation report from 2018
- Sketches (Options 1 and 2 for division of the first floor of the livery) offered as discussion starters

Request:

The Committee is asked to review this matter and make recommendations to the Council concerning the stabilization, improvement, and use of the livery stable.

- e) NDS, "National Design Specification for Wood Construction," 2001 Edition

Materials

- a) Cast-in-place Concrete, NLWT, $F'_c = 4000$ psi
- b) Timber, Mixed Oak, NELMA No. 1, $F_b = 825$ psi

Loads

- a) Dead Load: self-weight +superimposed = actual+10 psf
- b) Floor Live Load: light storage = 50 psf
- c) Snow Load: ground snow load = 30 psf
- d) Wind Load: basic wind speed = 110 mph

Repair Recommendations

Typically, we place repairs in three categories, immediate, near term, and far term. Immediate repairs are those required to maintain structural stability and protect human life. Near term repairs can be categorized as routine maintenance items required to maintain the functional aspects of the facility. Far term repairs are those that would be required to change the occupancy or improve the visual aesthetics of the facility. Based on our observations we consider the Stable to be in stable condition and repairs required fall into the near or far term category as described in this section.

Near Term Repairs

Roof System

The primary concern with the roof system is to replace elements that have been in service beyond their useful life and to provide closure to the system. To accomplish this we recommend replacing the roof panels and providing new flashing and guttering to match the system. This will ensure protection from the elements and improve the prevention of pests from entering the building.

The replacement will involve removing the existing metal panels, flashing, and trim pieces and replacing them with a new standing seam roof system. Additionally, the eaves and end overhangs will be enhanced with soffit that matches the period. The existing gutters are assumed to be in usable condition, they will be removed and re-installed with hangers below the roof panels. While this study found no evidence of damaged roof purlins, the cost estimate and documents provide for an allowance of replacing 5% of the purlins.

Floor System

In order to carry minimum design loads required by code for the second floor we recommend replacing the flat 2-inch by 8-inch boards and columns with a traditional beam system. These beams would utilize rough sawn timbers, 8-inch by 12-in at the floor transition and 6-inch by 10-inch offset from the east wall. Each beam would be supported by solid sawn 6-inch square columns. The beams would be joined to the columns by mortice joints and be equipped with knee braces for lateral support. We propose that the columns be offset from each end to allow for economy of member sizing while maintaining as much open space as possible within the



room. The columns would bear on spread footings cast such that the top of footing would be flush with the top of the existing gravel floor.

For the beam with a section removed, we recommend attaching a member of similar size to the existing for support. This attached member would but cut so it extends 16-inches beyond each side of the section removed. It would be attached with twelve 16d nails, six on each face.

Walls Systems

The most challenging repairs required for the Stable involve the brick restoration of the east wall. This will require complete replacement of the interior wythe in some locations and reparging the entire interior surface once the repairs are completed. To accomplish the repairs it will be necessary to support the roof and floor gravity loads as well as providing lateral bracing of the exterior wythe to prevent out of plumb movement of the brick during repairs. We anticipate the contractor using scaffolding for the full height of the wall to accomplish this. Once the elements are shored, the contractor will remove bricks as necessary and replace loose bricks to the floor level. We do not anticipate removal of any brick above the floor level. Once this is completed the contractor will remove the parging on the upper level and any remaining on the at-grade level and provide a new ½" thick coating to the entire exposed surface of brick. It should be noted that for this repair the existing fuel tank will have to be relocated temporarily in order to complete the repairs.

Timber repairs to the south and west walls include the following. Replace the existing wood siding below the false roof line of the south gable end. Additionally, for the area on the west wall that is not covered by metal panels, we recommend the existing timbers be removed and replaced closing any gaps that would allow for pests to enter the building. Finally, along the west wall below the column supporting the second interior bent, the wood sill will be replaced in kind with like material. The column and girts will have to be shored to accomplish this task.

Foundations

Prior to repairing the interior wythe of brick on the east wall, and after the wall has been shored, we recommend the foundation stones be cleaned of any debris from the brick wall, loose stones be repositioned and secured with mortar. While this is going on, any burrow holes found should be filled with soil and terminated.

We recommend the condensate drain on the west side of the building be extended to drain into the drain pipes carrying rainwater from the gutters away from the site.

Far Term Restorations

There is currently no plan for the future use of the Stable. Once a program has been established there are repairs to consider that bring the building more in line with its historic character. As these are more substantial restoration efforts, construction details have not been provided, but are reflected for budget purposes. First would be to remove the metal panel siding on the south and west walls and replace it with a more traditional board and batten system that would be typical of the period. At this point you would also restore the west and south wall framing to its original condition. This would entail removal of all the miscellaneous



bracing members and splice the existing members so that they function as originally intended without the need for multiple members.

As the occupancy is determined, in order to meet performance requirements, the concrete stem wall on the west elevation will have to bear below frost. In order to do this, we would recommend installing helical piers on the inside of the Stable attached to the bottom of the stem wall to provide the support needed. Once this has been completed we recommend evaluating grade around the Stable and regrade as necessary to provide positive drainage away from the foundations to prevent water intrusion issues.

Cost Estimate Data

All of the repairs recommended above would be categorized as near term restorations or items that repair damage and maintain structural stability. Based on the repairs recommended it is logical to break the cost data up into three categories: masonry restoration, roof restoration, and timber restoration. The cost for each category are summarized below.

Category	Cost
Masonry Restoration	\$71,311.11
Roof Restoration	\$58,034.42
Timber Restoration	\$20,981.77

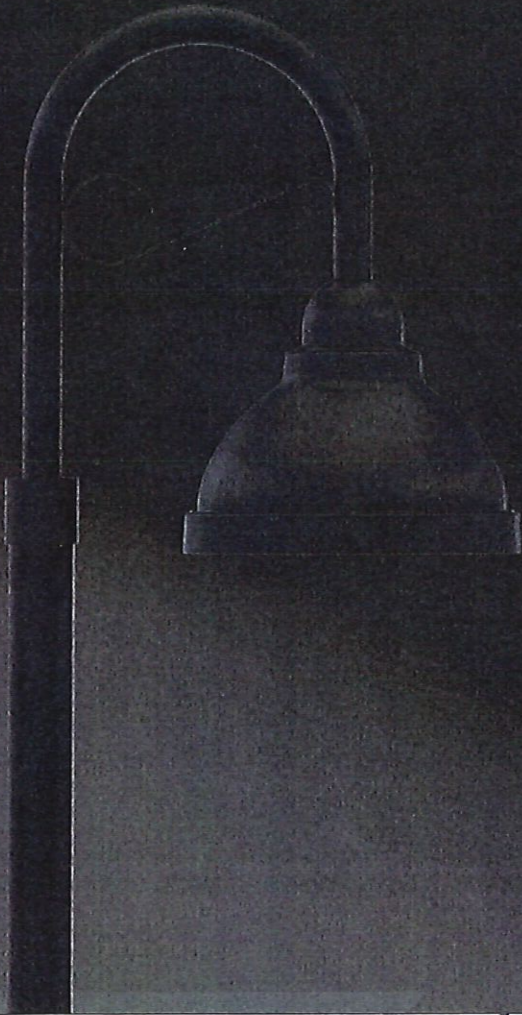
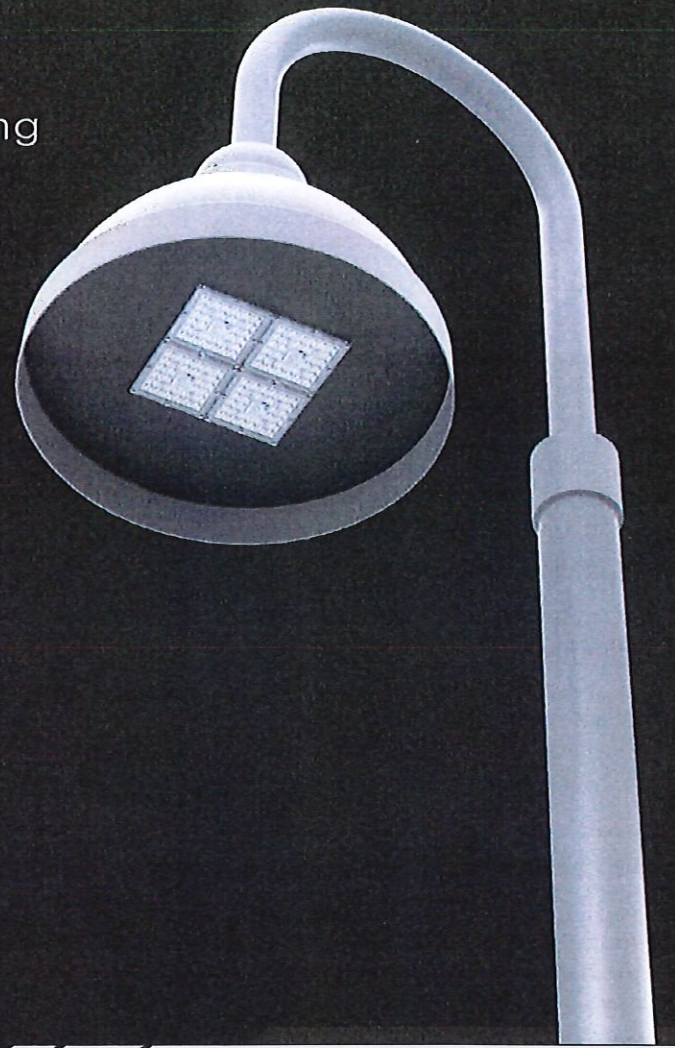
Far term repairs would take on the duties of bringing the structure entirely back to a specific time period condition with items such as removing the metal panel siding and replacing it with traditional board and baton siding. At this time, you would undertake a complete restoration of the west and south gable walls removing members not in kind and rebuilding. The next item could be to demolish the finished space on the second floor and reconstruct Bent 2 and the north gable end to their original condition. The far term items would require substantial design effort and would be estimated at \$304,692 including design and administration fees.

Conclusion

Damron Engineering and Consulting llc has performed a comprehensive survey of the existing Livery Stable behind 23 East Main Street in Berryville, Virginia. Based on our observations we consider the Stable overall to be in stable condition with a few areas of concern. We have identified near term repairs required to maintain the integrity of the facility. Once these near term repairs have been completed we are confident that the facility can accommodate any program requirements the Town may assign to it.

WILLstudio™ **GVX**

Decorative • Architectural LED Lighting



Proudly engineered and manufactured in Wisconsin, USA – our WILLstudio™ family of LED lighting products combines 50 years of manufacturing expertise with premium components and top-notch Midwestern workmanship. With state-of-the-art rendering capabilities, an eye for design, and nimble production flow, the experts at WILL create cutting-edge lighting with an enhanced aesthetic.

WILL | WISCONSIN
LIGHTING
LAB®

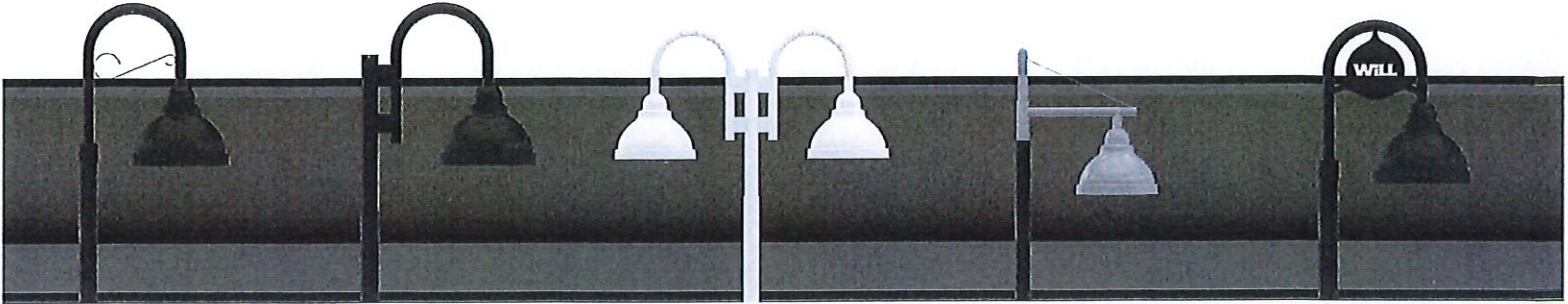
WILLstudio™ GVX ARCHITECTURAL PENDANT LIGHTING



Catalog # _____

Project _____

Comments _____



■ Highlights

- Designed, engineered, and manufactured in Wisconsin, USA from premium domestic and imported components
- PPG® Commercial Performance Coatings custom color matching of RAL codes and architectural colors
- IES files, photometric reports, and lighting simulations available from factory design team
- Proprietary heat sink design with low drive current resulting in reported L90 LED life over 100,000 hours
- Easy driver and LED module access for technology upgrades and maintenance
- Flexible mounting options with custom adapters available
- Output options over 20,000 lumens

■ Applications

- Area and site lighting
- Roadways and streets
- Park lighting and walkways
- Schools and hospitals
- Retail stores and commercial buildings
- Amber and turtle applications

■ Construction & Finish

- High-grade aluminum enclosure for superior corrosion resistance, strength, and thermal management
- Architectural grade powder coat enclosure and black anodized heat sink
- High-grade stainless steel hardware for superior strength and corrosion resistance
- Driver components are fully encased in potting material for moisture and vibration resistance

■ Light Poles & Arms

- WILL offers one of the most comprehensive light pole, bracket, and arm catalogs in the industry
- Aluminum, steel, fiberglass, and concrete materials
- Straight, tapered, and decorative designs
- Custom fabrication, finishing, and accessories available
- Dedicated light pole application support team

■ Standards & Warranty

- ETL Certification for UL STD 1598 & CSA STD C22.2 # 250.0 for wet locations
- Meets Buy American Act requirements
- Standard 5-year limited warranty with extended factory warranties available
- Turtle and wildlife compliance options (consult factory)

■ Light Engine & Electrical

- Premium tier 1 LED chips for extreme efficiency and high-quality color rendering for a broad range of applications
- Optical assembly constructed of UV stabilized polycarbonate with silicone seal
- -40°C to +45°C ambient operating temperature
- Standard AC input voltage of 120-277V 50/60 Hz; up to 480V available
- Isolated 1-10V PWM/3-timer-modes dimmable (standard) and dim-to-off with standby power ≤ 0.5W (optional)
- Power factor of 0.90 min
- Total harmonic distortion of 20% max
- Drivers include integral input Surge Protection of Differential Mode 6kV, Common Mode 10kV per EN 61000-4-5
- Thermally protected secondary 10kA surge suppression available (optional)
- Always-on auxiliary power: 12VDC, 200mA (optional)
- Local specifying engineer recommended for product selection and local compliance
- Licensed electrician required for installation

■ Control Options

- Integral passive infrared Bluetooth® sensor for motion, photo, dimming, and daylight harvesting control
- Wireless mesh network for large-scale control of zones, dimming, schedules, and sensors
- DMX control options available from factory

EPA Chart

Base Model	0° Tilt
WD-GVX	1.8


Specifications & Typical Lumen Output (WHITE LED)

Base Model	Weight (lb)	System Watts (W)	Engine Qty	Drive Current (A)	Typical HID Replacement	Distribution	3000K, 70 CRI				4000K, 70 CRI				5000K, 70 CRI						
							Lumens	B	U	G	lm/W	Lumens	B	U	G	lm/W	Lumens	B	U	G	lm/W
WD-GVX-40	18	38	4	0.11	100-150W	1S = Type I Short	6,132	2	0	2	161	6,493	2	0	2	171	6,493	2	0	2	171
						2M = Type II Medium	6,132	2	0	2	161	6,493	2	0	2	171	6,493	2	0	2	171
						3M = Type III Medium	6,059	1	0	1	159	6,415	1	0	1	169	6,415	1	0	1	169
						3W = Type III Wide	5,913	2	0	2	156	6,261	2	0	2	165	6,261	2	0	2	165
						4M = Type IV Medium	6,278	2	0	2	165	6,647	2	0	2	175	6,647	2	0	2	175
						5W = 150° Type V Square	6,497	3	0	1	171	6,879	3	0	1	181	6,879	3	0	1	181
						5M = 90° Type V Medium	6,570	3	0	1	173	6,956	3	0	1	183	6,956	3	0	1	183
						5N = 70° Type V Narrow	6,424	3	0	1	169	6,802	3	0	1	179	6,802	3	0	1	179
						5VN = 30° Type V Very Narrow	5,183	3	0	1	136	5,488	3	0	1	144	5,488	3	0	1	144
WD-GVX-80	18	76	4	0.22	150-250W	1S = Type I Short	10,962	3	0	3	144	11,607	3	0	3	153	11,607	3	0	3	153
						2M = Type II Medium	10,962	3	0	3	144	11,607	3	0	3	153	11,607	3	0	3	153
						3M = Type III Medium	10,832	2	0	2	143	11,468	2	0	2	151	11,468	2	0	2	151
						3W = Type III Wide	10,571	3	0	3	139	11,192	3	0	3	147	11,192	3	0	3	147
						4M = Type IV Medium	11,223	2	0	3	148	11,883	2	0	3	156	11,883	2	0	3	156
						5W = 150° Type V Square	11,615	4	0	2	153	12,297	4	0	2	162	12,297	4	0	2	162
						5M = 90° Type V Medium	11,745	3	0	1	155	12,436	3	0	1	164	12,436	3	0	1	164
						5N = 70° Type V Narrow	11,484	4	0	1	151	12,159	4	0	1	160	12,159	4	0	1	160
						5VN = 30° Type V Very Narrow	9,266	4	0	1	122	9,810	4	0	1	129	9,810	4	0	1	129
WD-GVX-115	18	115	4	0.33	250-320W	1S = Type I Short	15,489	3	0	3	135	16,400	3	0	3	143	16,400	3	0	3	143
						2M = Type II Medium	15,489	3	0	3	135	16,400	3	0	3	143	16,400	3	0	3	143
						3M = Type III Medium	15,305	3	0	3	133	16,205	3	0	3	141	16,205	3	0	3	141
						3W = Type III Wide	14,936	3	0	4	130	15,814	3	0	4	138	15,814	3	0	4	138
						4M = Type IV Medium	15,858	3	0	4	138	16,790	3	0	4	146	16,790	3	0	4	146
						5W = 150° Type V Square	16,411	4	0	3	143	17,376	4	0	3	151	17,376	4	0	3	151
						5M = 90° Type V Medium	16,595	4	0	1	144	17,571	4	0	1	153	17,571	4	0	1	153
						5N = 70° Type V Narrow	16,227	4	0	1	141	17,181	4	0	1	149	17,181	4	0	1	149
						5VN = 30° Type V Very Narrow	13,092	5	0	1	114	13,862	5	0	1	121	13,862	5	0	1	121
WD-GVX-155	18	155	4	0.44	320-400W	1S = Type I Short	19,865	4	0	4	128	21,033	4	0	4	136	21,033	4	0	4	136
						2M = Type II Medium	19,865	3	0	3	128	21,033	3	0	3	136	21,033	3	0	3	136
						3M = Type III Medium	19,629	3	0	3	127	20,783	3	0	3	134	20,783	3	0	3	134
						3W = Type III Wide	19,156	3	0	4	124	20,282	3	0	4	131	20,282	3	0	4	131
						4M = Type IV Medium	20,338	3	0	5	131	21,534	3	0	5	139	21,534	3	0	5	139
						5W = 150° Type V Square	21,047	5	0	3	136	22,285	5	0	3	144	22,285	5	0	3	144
						5M = 90° Type V Medium	21,284	4	0	1	137	22,535	4	0	1	145	22,535	4	0	1	145
						5N = 70° Type V Narrow	20,811	5	0	1	134	22,035	5	0	1	142	22,035	5	0	1	142
						5VN = 30° Type V Very Narrow	16,791	5	0	2	108	17,778	5	0	2	115	17,778	5	0	2	115

Note: Typical lumen values are based on lab and simulated photometric tests. Actual performance may differ resulting from optical configuration, color temp and CRI, glare management, owner environment, and application.

Note: Data based on 25°C ambient operating temperature.

■ **Specifications & Typical Lumen Output (AMBER LED)**

Base Model	Weight (lb)	System Watts (W)	Engine Qty	Drive Current (A)	LED Source	Lumens
 WD-GVX-CW100-TA	18	104.0	4	0.4	True Amber (593 nm)	3,572
WD-GVX-CW160-PCA	18	158.0	4	0.45	Phosphor Converted Amber (590 nm)	12,376

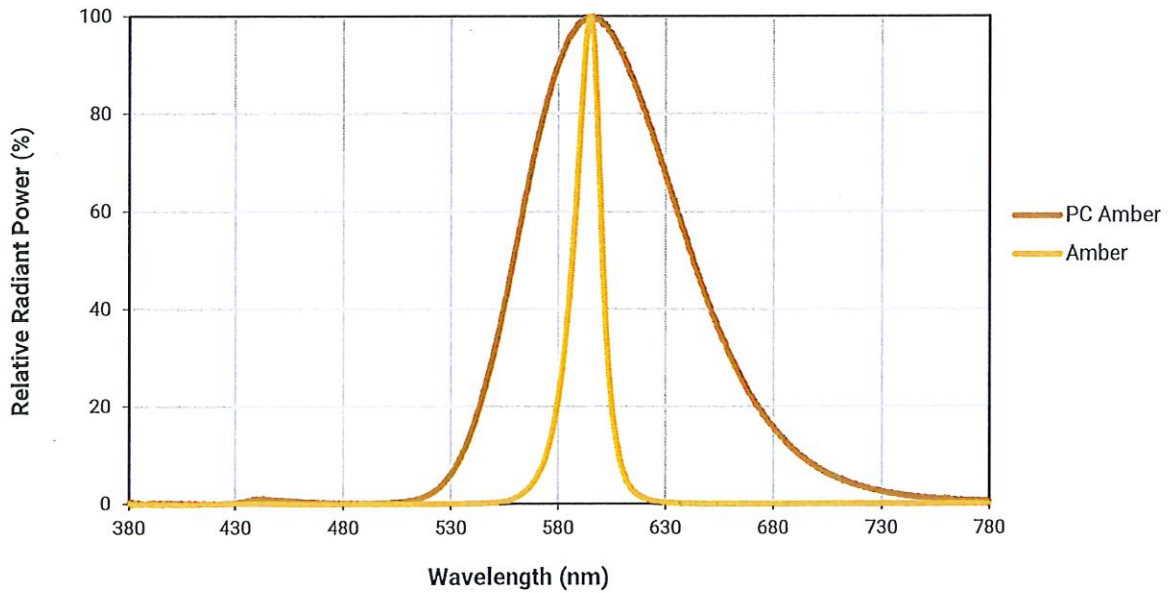
■ **Lumen Multiplier & Maintenance (WHITE LED)**

Ambient Temperature	Lumen Multiplier	TM-21 Lumen Maintenance (50,000 hr)	Reported L90 (hr)	Reported L70 (hr)
0°C / 32°F	1.039	98.01	>102,000	>102,000
10°C / 50°F	1.023	98.1	>102,000	>102,000
25°C / 77°F	1.000	98.2	>102,000	>102,000
30°C / 86°F	0.992	97.95	>102,000	>102,000
35°C / 95°F	0.984	97.86	>102,000	>102,000
40°C / 104°F	0.977	97.75	>102,000	>102,000
45°C / 113°F	0.969	97.62	>102,000	>102,000

Voltage (V)	Current (A)			
	40W	80W	115W	155W
Input Current @ 120V (A)	0.32	0.63	0.96	1.29
Input Current @ 208V (A)	0.18	0.37	0.55	0.75
Input Current @ 240V (A)	0.16	0.32	0.48	0.65
Input Current @ 277V (A)	0.14	0.27	0.42	0.56
Input Current @ 347V (A)	0.11	0.22	0.33	0.45
Input Current @ 480V (A)	0.08	0.16	0.24	0.32

Note: Values calculated according to IESNA TM-21-11 methodology.

■ **LED Chip Wavelengths**

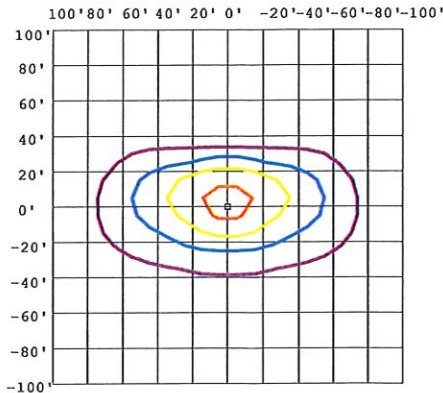


Photometric Diagrams

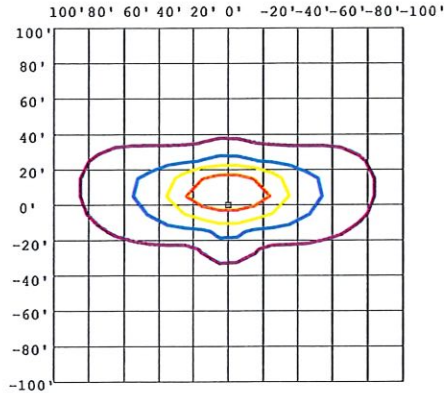
LEGEND

0.5 fc 2.0 fc 5.0 fc 10 fc 25 fc

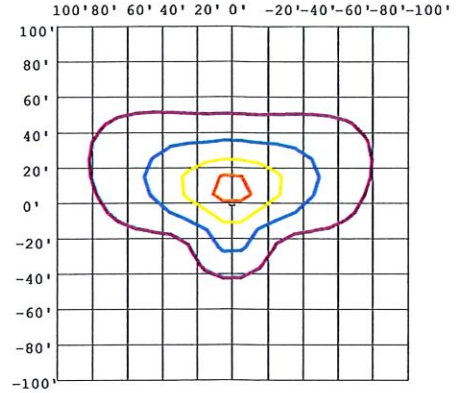
Simulated per IESNA LM-63-1995



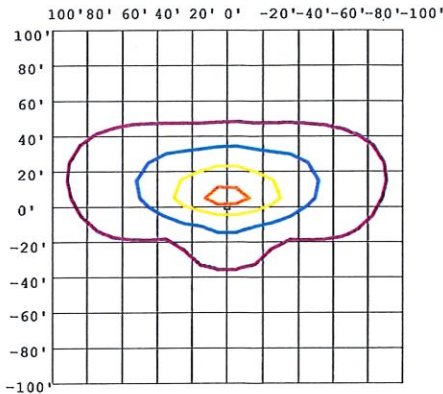
90W GVX
(1S) Type I Short
15' Height @ 0°



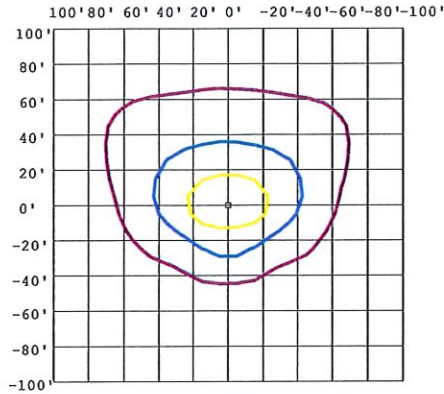
90W GVX
(2M) Type II Medium
15' Height @ 0°



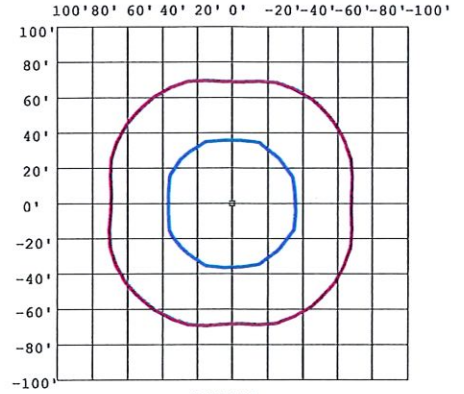
90W GVX
(3M) Type III Medium
15' Height @ 0°



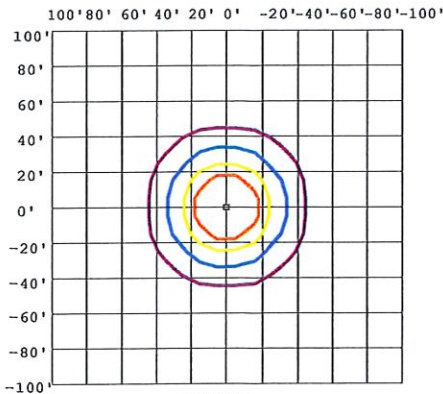
90W GVX
(3W) Type III Wide
15' Height @ 0°



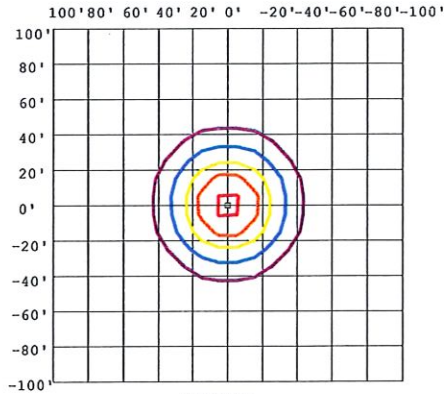
90W GVX
(4M) Type IV Medium
15' Height @ 0°



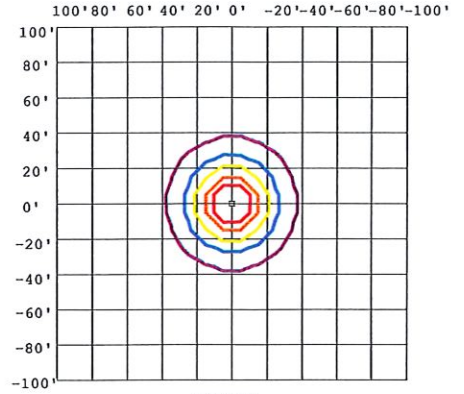
90W GVX
(5W) 150° Type V Square
15' Height @ 0°



90W GVX
(5M) 90° Type V Medium
15' Height @ 0°

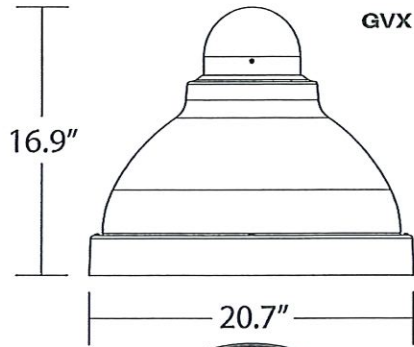


90W GVX
(5N) 70° Type V Narrow
15' Height @ 0°

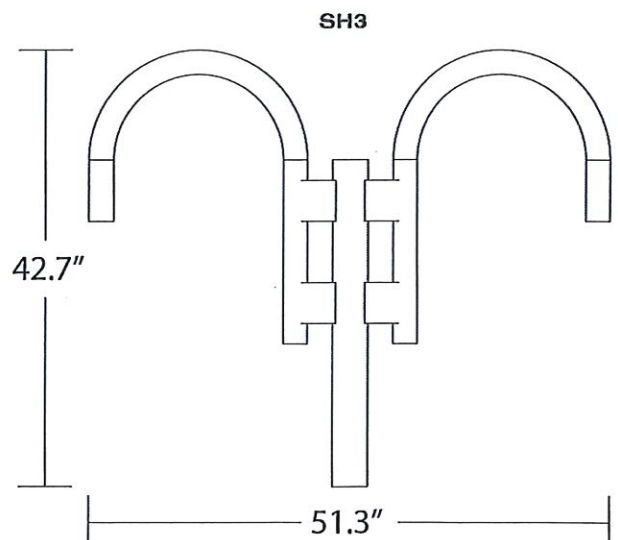
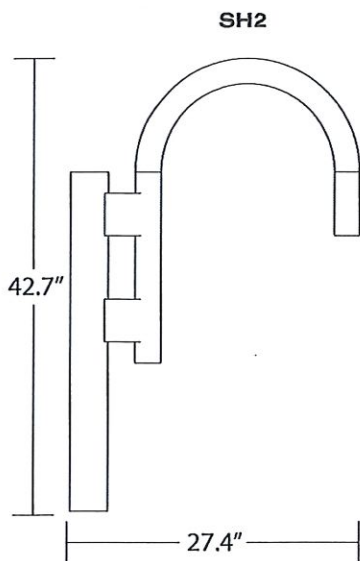
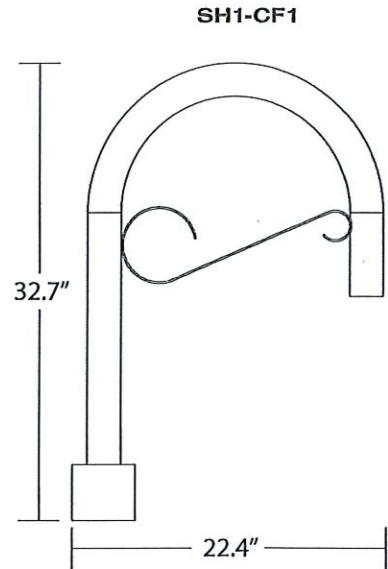
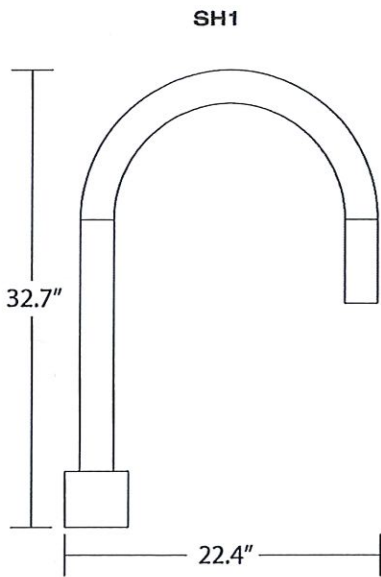
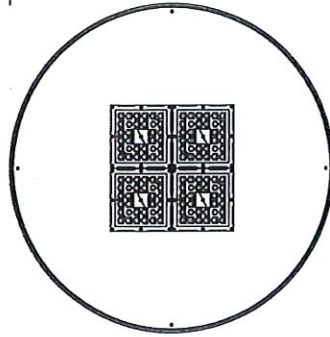


90W GVX
(5VN) 30° Type V Very Narrow
15' Height @ 0°

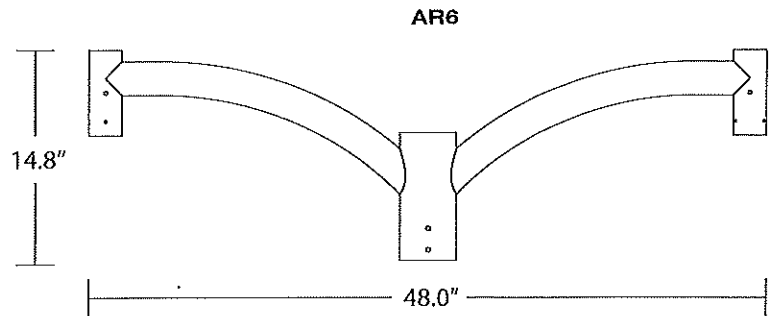
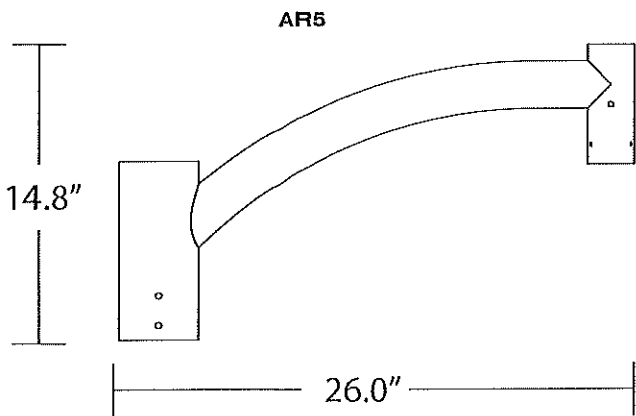
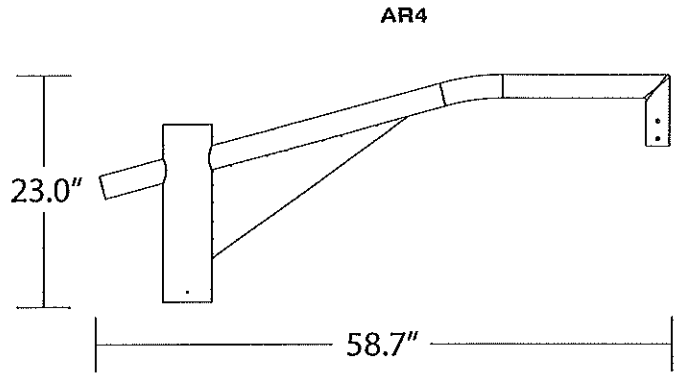
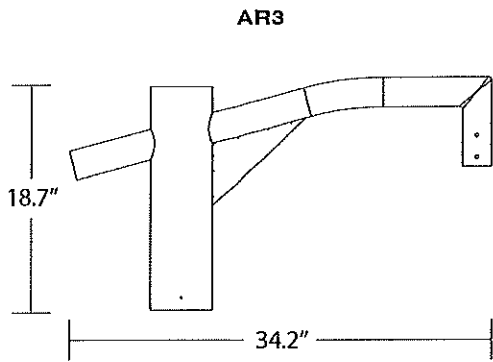
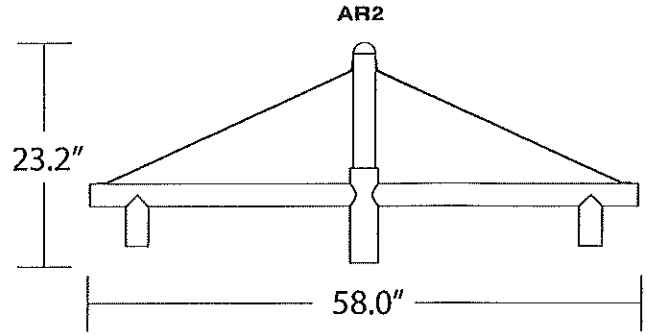
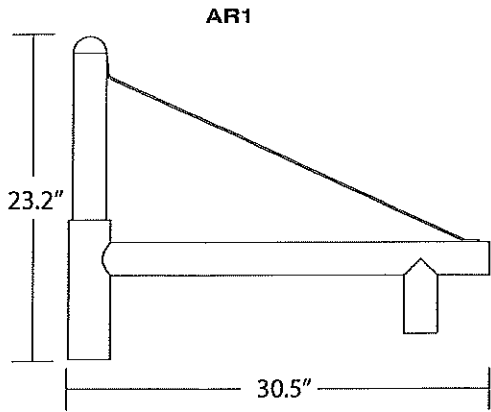
Dimensional Diagrams



Arm	EPA	Weight (lb)
SH1	0.9	8.5
SH2	1.5	13.5
SH3	2.4	21.0
AR1	0.9	8.2
AR2	1.4	12.5
AR3	1.2	10.9
AR4	2.1	14.8
AR5	0.7	6.0
AR6	1.15	9.5



Dimensional Diagrams



Ordering Information

Ex: WD-GVX-80-30-MV-5W-BK-PM-SRG27710

Product Family	Design	Performance (Watts = Nominal Lumens)	Color Temp	Voltage	Distribution	Finish Color
WD = WillStudio	GVX = Medium Housing	40 = 6,000	30 = 3000K, 70 CRI	MV = 120-277V	1S = Type I Short	BK = Black (Standard)
	CH = Custom	80 = 12,000	40 = 4000K, 70 CRI	HV = 277-480V	2M = Type II Medium	DB = Dark Bronze
		115 = 18,000	50 = 5000K, 70 CRI	CV = Custom	3M = Type III Medium	WH = White
		155 = 22,000	PCA = PC Amber (590 nm)		3W = Type III Wide	NA = Nat Alum Silver
		CW = Custom & Amber	TA = True Amber (593 nm)		4M = Type IV Medium	LG = Light Gray
			CT = Custom		5W = 150° Type V Square	SG = Slate Gray
					5M = 90° Type V Medium	DG = Dark Green
				5N = 70° Type V Narrow	DP = Dark Platinum	
				CD = Custom	GM = Graphite Metallic	
					RAL = Custom RAL Match	

Options & Accessories (Add as Suffix)				
Mounting	Arm	Options	Options	Accessories
PM = Pendant Mount	SH1 = Single Shepherds Hook	CF1 = Center Shepherds Hook Decorative Feature	WHP3NP = 2' Cord w/o Plug, Stripped Pigtail	HSS-GVX = House Side Shield
CM = Custom	SH2 = Single Side Shepherds Hook	CF2 = Center Shepherds Hook Brand/Logo/City Round Feature	WHP7NP = 6' Cord w/o Plug, Stripped Pigtail	GFX = Wireless DMX Lighting Control System (Consult Factory)
	SH3 = 2@180 Side Shepherds Hook	CF = Custom	WHP11NP = 10' Cord w/o Plug, Stripped Pigtail	GFM = Wireless Mesh Lighting Control System (Consult Factory)
	AR1 = Single Suspension Arm		SRG27710 = 10kA Surge Suppressor (Field Replaceable), 120-277V	
	AR2 = 2@180 Suspension Arm		SRG48010 = 10kA Surge Suppressor (Field Replaceable), 347-480V	
	AR3 = Short Hub Mast Arm w/ Gusset		BPC1 = Button Photocontrol, 120-277V	
	AR4 = Medium Hub Mast Arm w/ Gusset		BPC3 = Button Photocontrol, 347V	
	AR5 = Short Upsweep Arm No Gusset		BPC4 = Button Photocontrol, 480V	
	AR6 = 2@180 Upsweep Arm No Gusset		MPS = Programmable Motion Sensor w/ ON/OFF + Dimming + Photocontrol, Bluetooth Settings Adjustable, maximum coverage of 100' diameter from 40' mounting height	
	CA = Custom			

Note: Custom products, configurations, options, and accessories available from factory.
 Note: Drawings, IES files, and product renderings available from factory.

Custom Arms & Brackets Available:

Length | Color | Design



Quotation Details

Job Name: Decorative Pole Assembly Date Created: 8/29/23
Quote #: 988424 **Exp. Date: 9/27/23**

Contact Information

Prepared By: Donovan Schreifels Contact Name: Jean Petti Petti
Phone #: (866) 308-9455 Phone #: 5409551099
E-Mail: customer.quotes@willbrands.com Email: deputytownmanager@berryvilleva.gov
Fax: 920-921-0781 Fax:

Address Information

Bill To Name: Jean Petti (1444019) Ship To Name:
Bill To: Ship To:

Standard Products

Qty	Product	Sale Price	Ext. Price
1	[PART#] NP-RSAA-14-4040-C-LAB-CB-FP [DESCRIPTION] 14' Tall x 4.0" OD x 0.125" Thick, Round Straight Aluminum, Anchor Base Light Pole, Custom Base Plate & Base Cover, Wiring Hand Hole & Cover, Standard Fixture Mounting & Finish Color, USA Engineered & Manufactured (Less 5/8" Anchor Bolts)	\$1,253.00	\$1,253.00
1	[PART#] NP-BK [DESCRIPTION] Rugged Architectural Grade, Black Painted Finish	\$0.00	\$0.00
1	[PART#] NP-PD-4R [DESCRIPTION] Light Fixture Mounting, 3" OD X 3" Long, Tenon Top	\$0.00	\$0.00
2	[PART#] WD-GVX [DESCRIPTION] Willstudio™ GVX Architectural Pendant Lighting [COMMENTS] 80W, Willstudio GVX Architectural Pendant LED Light Fixture, 12000 Lumens - 4000K	\$1,075.00	\$2,150.00
1	[PART#] WD-BKT [DESCRIPTION] Willstudio™ Custom Bracket/Arm [COMMENTS] SH3 - Dual Offset Pendant Bracket	\$685.00	\$685.00

- Pricing includes delivery within the contiguous USA unless otherwise noted and is based on an order release within 30 days.
- Preshipped anchor bolts at CUSTOMER'S expense.
- Sales tax calculation (if applicable) will be finalized at order entry (OE).
- If order quantity & quote quantity are different, pricing is subject to change.
- Quote is subject to Wisconsin Lighting Lab's standard terms and conditions. See website for complete details.

Grand Total: \$4,088.00
Estimated Lead Time: 6-8 Weeks

Important Notes

- Light Poles & Brackets: [6] to [8] weeks estimated production lead time.
- LED Fixtures: [6] to [8] weeks estimated production lead time.
- Lightning strikes and voltage surges can cause LED fixture damage; additional surge protection available upon request.
- Non-Standard specifications may add to the production lead time.
- Customer responsible for unloading at time of delivery; line items may ship at different times during production cycle.
- Commercial shipping location with receiving dock can be provided to void limited access delivery charges.
- Quoted Lead time is an estimate and is subject to change as business conditions change.

IMPORTANT: Do you require vibration dampeners? We recommend vibration dampeners be used when (1) light poles are being installed on a parking ramp, deck, bridge, pier, airport, train or subway hub/terminal or known problem area (2) a load of 0.75 EPA or smaller is going on the light poles and (3) light poles are being used as camera supports and/or will have non-standard appendages attached to them.

IMPORTANT: Wisconsin Lighting Lab and its vendors are not responsible for the structural adequacy of new and/or existing light pole footing designs and anchor bolts. Estimated loading capacity values and wind zone ratings are based on standard commercial design and engineering criteria, and they do not account for additional loadings from objects such as (but not limited to) signs, banners, cameras, solar panels and flags. Our light pole warranty does not cover vibration induced fatigue failure.

IMPORTANT: Wisconsin Lighting Lab and its vendors consider these quoted products as produced and supplied according to the customer's dimensional, material and/or electrical specifications. To ensure proper selection of the light pole, luminaire, accessories and/or foundation, we recommend the customer consult a qualified local engineer to analyze the loading, design and project criteria for the specific application.



P: 866-308-9455
customer.quotes@willbrands.com

308 North Brooke Street
Fond du Lac, WI 54935
US

