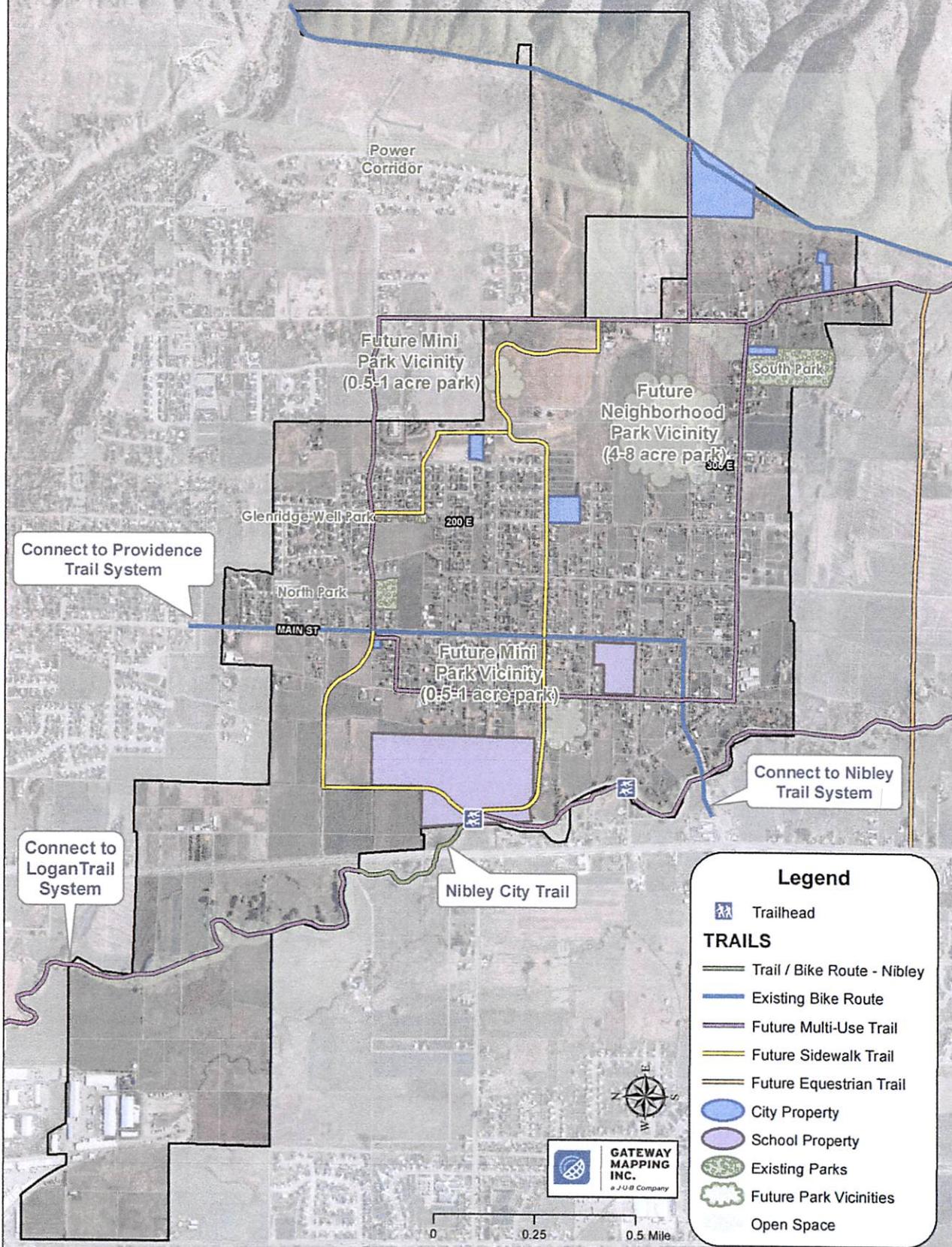




# Millville City

## General Plan Parks and Trails Map Attachment C

Jan. 8, 2016



Connect to Providence Trail System

Connect to Logan Trail System

Connect to Nibley Trail System

Nibley City Trail

### Legend

Trailhead

#### TRAILS

Trail / Bike Route - Nibley

Existing Bike Route

Future Multi-Use Trail

Future Sidewalk Trail

Future Equestrian Trail

City Property

School Property

Existing Parks

Future Park Vicinities

Open Space



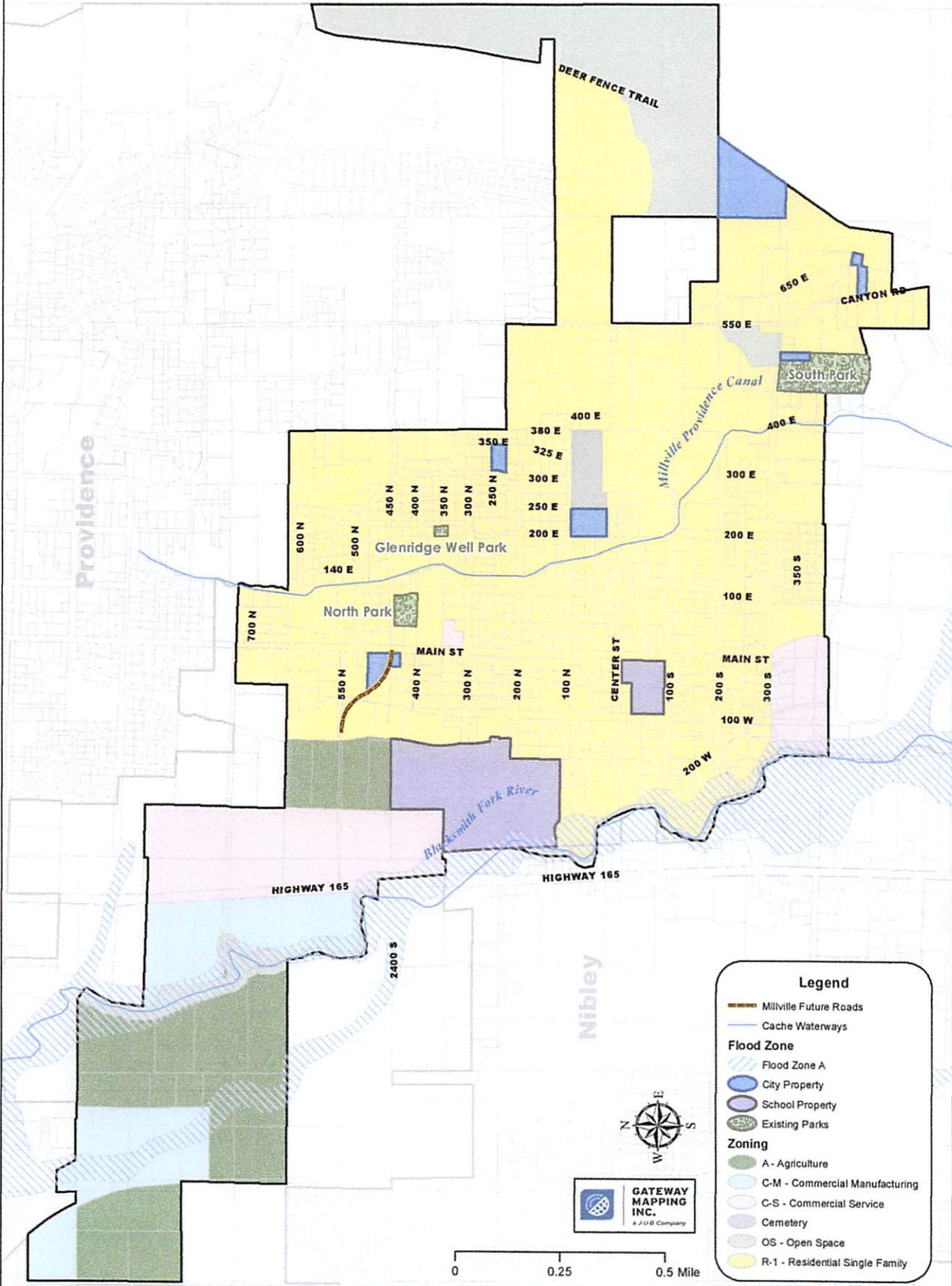
0 0.25 0.5 Mile

# Millville City

## General Plan

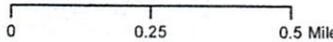
### Current Zoning Map

Attachment B  
Jan. 8, 2016



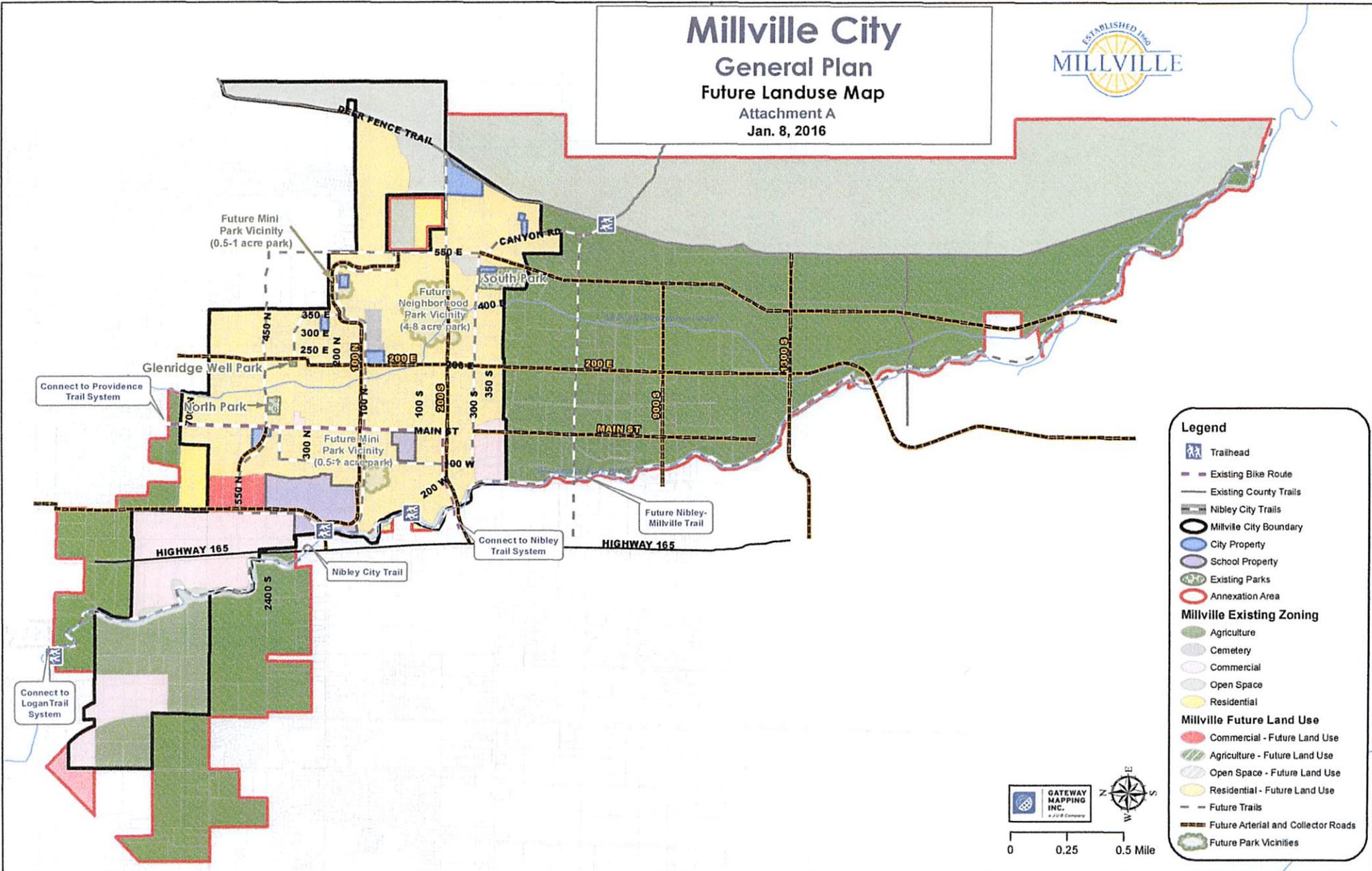
**Legend**

- Millville Future Roads
- Cache Waterways
- Flood Zone**
- Flood Zone A
- City Property
- School Property
- Existing Parks
- Zoning**
- A - Agriculture
- C-M - Commercial Manufacturing
- C-S - Commercial Service
- Cemetery
- OS - Open Space
- R-1 - Residential Single Family



# Millville City General Plan Future Landuse Map

Attachment A  
Jan. 8, 2016



**Legend**

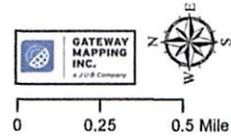
- Trailhead
- Existing Bike Route
- Existing County Trails
- Nibley City Trails
- Millville City Boundary
- City Property
- School Property
- Existing Parks
- Annexation Area

**Millville Existing Zoning**

- Agriculture
- Cemetery
- Commercial
- Open Space
- Residential

**Millville Future Land Use**

- Commercial - Future Land Use
- Agriculture - Future Land Use
- Open Space - Future Land Use
- Residential - Future Land Use
- Future Trails
- Future Arterial and Collector Roads
- Future Park Vicinities



GATEWAY  
MAPPING  
INC.  
A GIS Company

**100 North & 200 North in Millville  
Cost Estimate - Concept Level**

Prepared By: J-U-B Engineers, Inc.

Date 1/7/2016

Proposed Project Scope: Construct sidewalk

Approximate Route Reference Mile Post (BEGIN) =	(END) =
Project Length = 0.000	miles ft
Current FY Year (July-June) =	2016
Assumed Construction FY Year =	2017
Construction Items Inflation Factor =	1.06 1 yrs for inflation
Assumed Yearly Inflation for Engineering Services (PE and CE) (%/yr) =	3.0%
Assumed Yearly Inflation for Right of Way (%/yr) =	3.0%
Items not Estimated (% of Construction) =	20.0%
Preliminary Engineering (% of Construction + Incentives) =	43.0%
Construction Engineering (% of Construction + Incentives) =	43.0%

Construction Items	Cost	Remarks
Public Information Services	\$500	
Roadway and Drainage	\$55,130	
Traffic and Safety	\$840	
Structures	\$0	
Environmental Mitigation	\$10,585	
ITS	\$0	
	Subtotal	\$66,855
	Items not Estimated (20%)	\$13,371
	Construction Subtotal	\$80,226
P.E. Cost	P.E. Subtotal	\$35,357 43%
C.E. Cost	C.E. Subtotal	\$35,357 43%
Right of Way	Right of Way Subtotal	\$0
Utilities	Utilities Subtotal	\$0
Incentives	Incentives Subtotal	\$2,000
Miscellaneous	Miscellaneous Subtotal	\$0

Cost Estimate (ePM screen 505)	2016	2017
P.E.	\$35,000	\$36,000
Right of Way	\$0	\$0
Utilities	\$0	\$0
Environmental Document	\$20,000	\$21,000
Construction	\$80,000	\$84,000
C.E.	\$35,000	\$36,000
Incentives	\$2,000	\$2,000
Aesthetics	0.00% \$0	\$0
Change Order Contingency	9.00% \$7,000	\$7,000
UDOT Oversight	4.00% \$5,000	\$5,000
Miscellaneous	\$0	\$0
<b>TOTAL</b>	<b>\$184,000</b>	<b>\$191,000</b>

<b>PROPOSED COMMISSION REQUEST</b>	<b>TOTAL</b>	<b>\$184,000</b>	<b>TOTAL</b>	<b>\$191,000</b>
------------------------------------	--------------	------------------	--------------	------------------

**Project Assumptions/Risks**

1	8
2	9
3	10
4	11
5	12
6	13
7	14



## OPINION OF PROBABLE COST

**Client:** Millville City  
**Project:** 100 West; 100 North to Center Street  
**Project No.:** 57-15-004-012  
**Date:** January-16

### Construct Concrete Sidewalk

Item #	Description	Unit	Estimated Quantity	Unit Price	Total
<b>General</b>					<b>Subtotal \$ 7,500.00</b>
1	Mobilization	Lump Sum	1	\$ 5,000.00	\$ 5,000.00
2	Traffic Control	Lump Sum	1	\$ 1,000.00	\$ 1,000.00
3	Storm Water Pollution Prevention Plan (SWPPP)	Lump Sum	1	\$ 1,000.00	\$ 1,000.00
4	Site Clearing	Lump Sum	1	\$ 500.00	\$ 500.00
					\$ -
<b>Demolition</b>					<b>Subtotal \$ 2,000.00</b>
5	Remove Concrete Headwall	Lump Sum	1	\$ 2,000.00	\$ 2,000.00
					\$ -
<b>Roadway</b>					<b>Subtotal \$ 27,340.00</b>
6	Roadway Excavation (Plan Quantity)	Cubic Yard	100	\$ 12.00	\$ 1,200.00
7	Over Excavation	Cubic Yard	120	\$ 12.00	\$ 1,440.00
8	Borrow	Cubic Yard	200	\$ 20.00	\$ 4,000.00
9	Concrete Sidewalk	Square Feet	3,100	\$ 4.00	\$ 12,400.00
10	Concrete Headwall	Lump Sum	1	\$ 5,500.00	\$ 5,500.00
11	Pedestrian Access Ramp	Each	2	\$ 1,200.00	\$ 2,400.00
12	Relocate Fence	Lineal Feet	200	\$ 2.00	\$ 400.00
					\$ -
<b>Irrigation</b>					<b>Subtotal \$ 71,000.00</b>
13	36 Inch RCP Irrigation Pipe	Lineal Feet	300	\$ 185.00	\$ 55,500.00
14	Irrigation Box, 6 Ft x 6 Ft	Each	2	\$ 5,000.00	\$ 10,000.00
15	Concrete Headwall	Lump Sum	1	\$ 5,500.00	\$ 5,500.00
					\$ -
<b>Landscaping</b>					<b>Subtotal \$ 11,000.00</b>
16	Reseed	Square Feet	11,000	\$ 0.25	\$ 2,750.00
17	Topsoil	Square Feet	11,000	\$ 0.75	\$ 8,250.00
					\$ -
<b>Construction Subtotal</b>					<b>\$ 118,840.00</b>
Construction Contingency					% Subtotal 15% \$ 17,826.00
<b>Construction Total</b>					<b>\$ 136,666.00</b>
Engineering + Stream Alteration Permitting					% Construction Total 20% \$ 27,333.20
<b>Project Total</b>					<b>\$ 164,000.00</b>

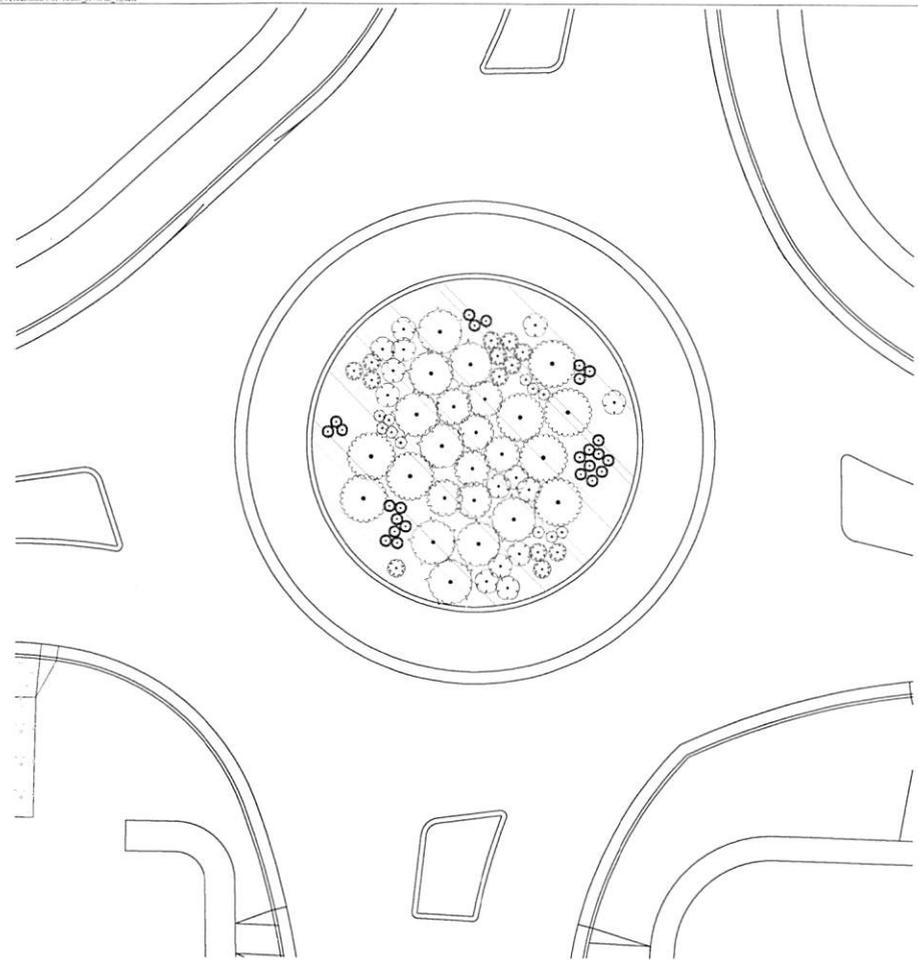


## OPINION OF PROBABLE COST

**Client:** Millville City  
**Project:** 100 West; Center Street to 100 South  
**Project No.:** 57-15-004-012  
**Date:** January-16

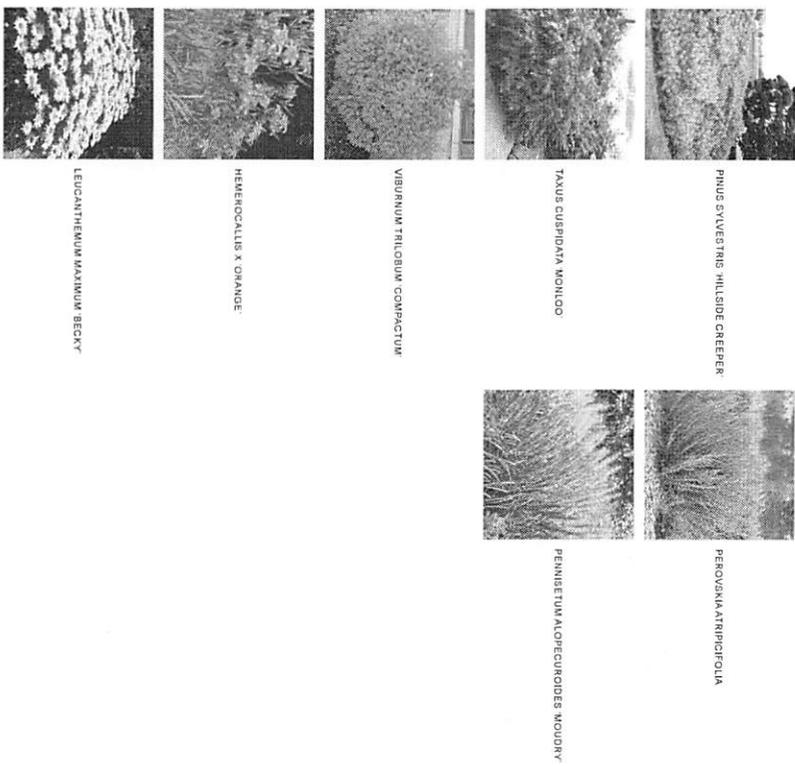
### Construct Concrete Sidewalk

Item #	Description	Unit	Estimated Quantity	Unit Price	Total	
<b>General</b>					<b>Subtotal</b>	<b>\$ 6,500.00</b>
1	Mobilization	Lump Sum	1	\$ 4,000.00	\$ 4,000.00	
2	Traffic Control	Lump Sum	1	\$ 1,000.00	\$ 1,000.00	
3	Storm Water Pollution Prevention Plan (SWPPP)	Lump Sum	1	\$ 1,000.00	\$ 1,000.00	
4	Site Clearing	Lump Sum	1	\$ 500.00	\$ 500.00	
					\$ -	
<b>Demolition</b>					<b>Subtotal</b>	<b>\$ 1,200.00</b>
5	Remove Tree	Each	3	\$ 400.00	\$ 1,200.00	
					\$ -	
<b>Roadway</b>					<b>Subtotal</b>	<b>\$ 17,040.00</b>
6	Roadway Excavation (Plan Quantity)	Cubic Yard	70	\$ 12.00	\$ 840.00	
7	Borrow	Cubic Yard	70	\$ 20.00	\$ 1,400.00	
8	Concrete Sidewalk	Square Feet	3,100	\$ 4.00	\$ 12,400.00	
9	Pedestrian Access Ramp	Each	2	\$ 1,200.00	\$ 2,400.00	
					\$ -	
<b>Landscaping</b>					<b>Subtotal</b>	<b>\$ 3,700.00</b>
10	Reseed	Square Feet	3,700	\$ 0.25	\$ 925.00	
11	Topsoil	Square Feet	3,700	\$ 0.75	\$ 2,775.00	
					\$ -	
<b>Construction Subtotal</b>					<b>\$ 28,440.00</b>	
<b>Construction Contingency</b>		<b>% Subtotal</b>		<b>15%</b>	<b>\$ 4,266.00</b>	
<b>Construction Total</b>					<b>\$ 32,706.00</b>	
<b>Preliminary Engineering</b>		<b>% Construction Total</b>		<b>20%</b>	<b>\$ 6,541.20</b>	
<b>Project Total</b>					<b>\$ 40,000.00</b>	



**PLANT SCHEDULE**

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CONT.	QTY
	TR1	Pinus strobus 'Hillock Creeper'	Hillock Creeper Scotch Pine	5 gal	8
	TR2	Taxus canadensis 'Nana'	Emerald Sentinel Japanese Yew	5 gal	9
	TR3	Viburnum bicolor 'Chimkanan'	Chimkanan American Cranberry Viburnum	5 gal	7
	TR4	Hemerocallis 'Orange'	Orange Day Lily	1 gal	12
	TR5	Leucanthemum maximum 'Becky'	Becky Daisy	1 gal	11
	TR6	Perovskia atrorubra	Russian Sage	1 gal	14
	TR7	Perovskia atrorubra	Russian Sage	1 gal	14
	TR8	Perovskia atrorubra	Russian Sage	1 gal	14
	TR9	Perovskia atrorubra	Russian Sage	1 gal	14
	TR10	Perovskia atrorubra	Russian Sage	1 gal	14
	TR11	Perovskia atrorubra	Russian Sage	1 gal	14
	TR12	Perovskia atrorubra	Russian Sage	1 gal	14
	TR13	Perovskia atrorubra	Russian Sage	1 gal	14
	TR14	Perovskia atrorubra	Russian Sage	1 gal	14
	TR15	Perovskia atrorubra	Russian Sage	1 gal	14
	TR16	Perovskia atrorubra	Russian Sage	1 gal	14
	TR17	Perovskia atrorubra	Russian Sage	1 gal	14
	TR18	Perovskia atrorubra	Russian Sage	1 gal	14
	TR19	Perovskia atrorubra	Russian Sage	1 gal	14
	TR20	Perovskia atrorubra	Russian Sage	1 gal	14
	TR21	Perovskia atrorubra	Russian Sage	1 gal	14
	TR22	Perovskia atrorubra	Russian Sage	1 gal	14
	TR23	Perovskia atrorubra	Russian Sage	1 gal	14
	TR24	Perovskia atrorubra	Russian Sage	1 gal	14
	TR25	Perovskia atrorubra	Russian Sage	1 gal	14
	TR26	Perovskia atrorubra	Russian Sage	1 gal	14
	TR27	Perovskia atrorubra	Russian Sage	1 gal	14
	TR28	Perovskia atrorubra	Russian Sage	1 gal	14
	TR29	Perovskia atrorubra	Russian Sage	1 gal	14
	TR30	Perovskia atrorubra	Russian Sage	1 gal	14
	TR31	Perovskia atrorubra	Russian Sage	1 gal	14
	TR32	Perovskia atrorubra	Russian Sage	1 gal	14
	TR33	Perovskia atrorubra	Russian Sage	1 gal	14
	TR34	Perovskia atrorubra	Russian Sage	1 gal	14
	TR35	Perovskia atrorubra	Russian Sage	1 gal	14
	TR36	Perovskia atrorubra	Russian Sage	1 gal	14
	TR37	Perovskia atrorubra	Russian Sage	1 gal	14
	TR38	Perovskia atrorubra	Russian Sage	1 gal	14
	TR39	Perovskia atrorubra	Russian Sage	1 gal	14
	TR40	Perovskia atrorubra	Russian Sage	1 gal	14
	TR41	Perovskia atrorubra	Russian Sage	1 gal	14
	TR42	Perovskia atrorubra	Russian Sage	1 gal	14
	TR43	Perovskia atrorubra	Russian Sage	1 gal	14
	TR44	Perovskia atrorubra	Russian Sage	1 gal	14
	TR45	Perovskia atrorubra	Russian Sage	1 gal	14
	TR46	Perovskia atrorubra	Russian Sage	1 gal	14
	TR47	Perovskia atrorubra	Russian Sage	1 gal	14
	TR48	Perovskia atrorubra	Russian Sage	1 gal	14
	TR49	Perovskia atrorubra	Russian Sage	1 gal	14
	TR50	Perovskia atrorubra	Russian Sage	1 gal	14
	TR51	Perovskia atrorubra	Russian Sage	1 gal	14
	TR52	Perovskia atrorubra	Russian Sage	1 gal	14
	TR53	Perovskia atrorubra	Russian Sage	1 gal	14
	TR54	Perovskia atrorubra	Russian Sage	1 gal	14
	TR55	Perovskia atrorubra	Russian Sage	1 gal	14
	TR56	Perovskia atrorubra	Russian Sage	1 gal	14
	TR57	Perovskia atrorubra	Russian Sage	1 gal	14
	TR58	Perovskia atrorubra	Russian Sage	1 gal	14
	TR59	Perovskia atrorubra	Russian Sage	1 gal	14
	TR60	Perovskia atrorubra	Russian Sage	1 gal	14
	TR61	Perovskia atrorubra	Russian Sage	1 gal	14
	TR62	Perovskia atrorubra	Russian Sage	1 gal	14
	TR63	Perovskia atrorubra	Russian Sage	1 gal	14
	TR64	Perovskia atrorubra	Russian Sage	1 gal	14
	TR65	Perovskia atrorubra	Russian Sage	1 gal	14
	TR66	Perovskia atrorubra	Russian Sage	1 gal	14
	TR67	Perovskia atrorubra	Russian Sage	1 gal	14
	TR68	Perovskia atrorubra	Russian Sage	1 gal	14
	TR69	Perovskia atrorubra	Russian Sage	1 gal	14
	TR70	Perovskia atrorubra	Russian Sage	1 gal	14
	TR71	Perovskia atrorubra	Russian Sage	1 gal	14
	TR72	Perovskia atrorubra	Russian Sage	1 gal	14
	TR73	Perovskia atrorubra	Russian Sage	1 gal	14
	TR74	Perovskia atrorubra	Russian Sage	1 gal	14
	TR75	Perovskia atrorubra	Russian Sage	1 gal	14
	TR76	Perovskia atrorubra	Russian Sage	1 gal	14
	TR77	Perovskia atrorubra	Russian Sage	1 gal	14
	TR78	Perovskia atrorubra	Russian Sage	1 gal	14
	TR79	Perovskia atrorubra	Russian Sage	1 gal	14
	TR80	Perovskia atrorubra	Russian Sage	1 gal	14
	TR81	Perovskia atrorubra	Russian Sage	1 gal	14
	TR82	Perovskia atrorubra	Russian Sage	1 gal	14
	TR83	Perovskia atrorubra	Russian Sage	1 gal	14
	TR84	Perovskia atrorubra	Russian Sage	1 gal	14
	TR85	Perovskia atrorubra	Russian Sage	1 gal	14
	TR86	Perovskia atrorubra	Russian Sage	1 gal	14
	TR87	Perovskia atrorubra	Russian Sage	1 gal	14
	TR88	Perovskia atrorubra	Russian Sage	1 gal	14
	TR89	Perovskia atrorubra	Russian Sage	1 gal	14
	TR90	Perovskia atrorubra	Russian Sage	1 gal	14
	TR91	Perovskia atrorubra	Russian Sage	1 gal	14
	TR92	Perovskia atrorubra	Russian Sage	1 gal	14
	TR93	Perovskia atrorubra	Russian Sage	1 gal	14
	TR94	Perovskia atrorubra	Russian Sage	1 gal	14
	TR95	Perovskia atrorubra	Russian Sage	1 gal	14
	TR96	Perovskia atrorubra	Russian Sage	1 gal	14
	TR97	Perovskia atrorubra	Russian Sage	1 gal	14
	TR98	Perovskia atrorubra	Russian Sage	1 gal	14
	TR99	Perovskia atrorubra	Russian Sage	1 gal	14
	TR100	Perovskia atrorubra	Russian Sage	1 gal	14



450 N. 550 N. REALIGNMENT  
 MILVILLE, UTAH

450 N. 550 N. REALIGNMENT  
 MILVILLE, UTAH

PLANTING CONCEPT 1

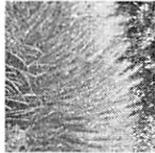
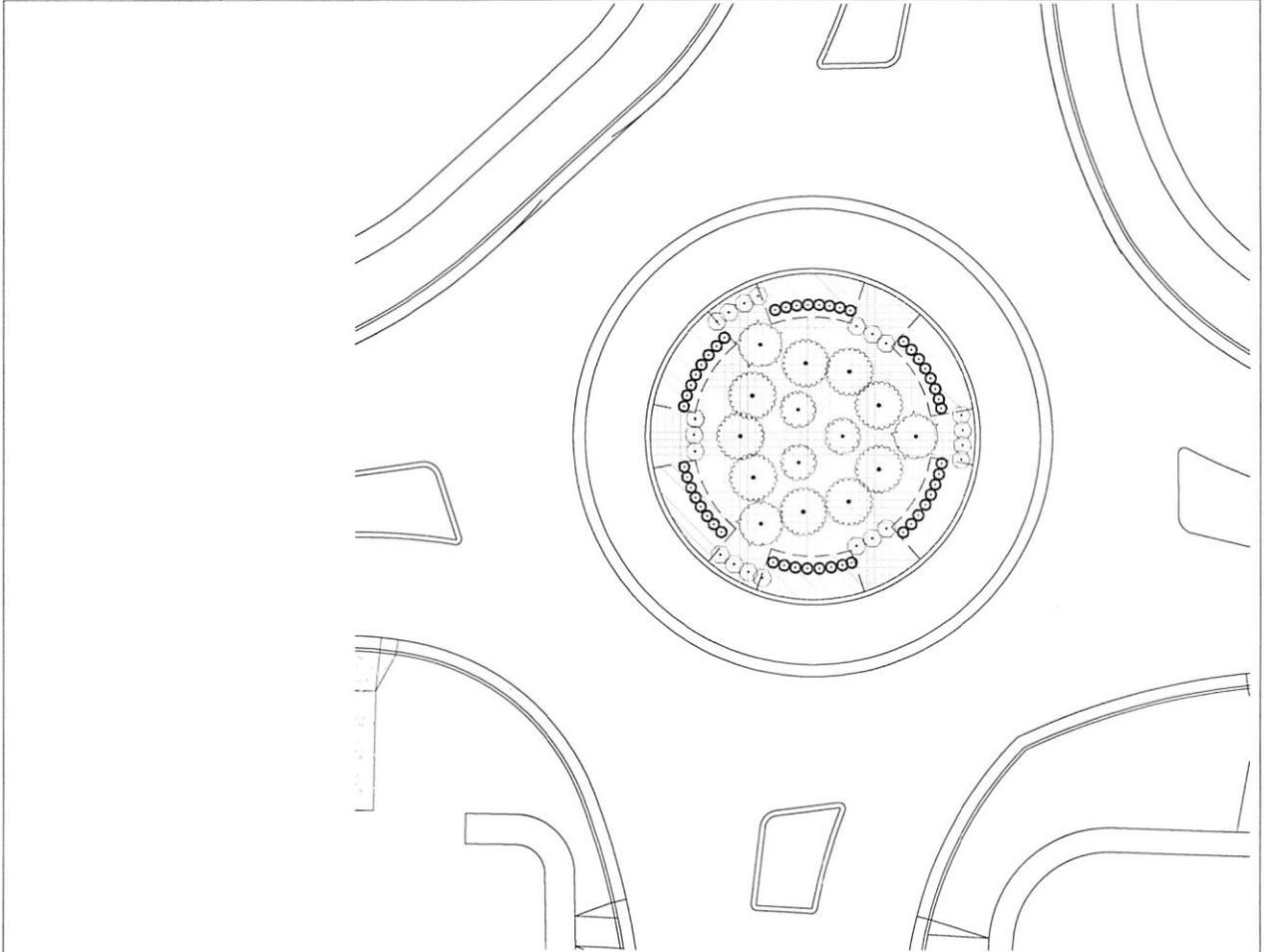
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 Fax: 435.713.9503  
 www.jub.com

LP-101



PENNISETUM ALOPECUROIDES MOUDRY



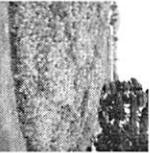
VIBURNUM TRILOBUM COMPACTUM



TAXUS CUSPIDATA MONICO



ROSA X CHAMPLAIN



PINUS SYLVESTRIS HILLSIDE CREENER

**PLANT SCHEDULE**

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	P01	Pinus sylvestris 'Hillside Creener'	Hillside Creener Scotch Pine	5 gal	8
	R01	Rosa x Champlain	Champlain Hybrid Rugosa Rose	5 gal	21
	T01	Taxus cuspidata 'Moulton'	Emerald Spreader Japanese Yew	5 gal	3
	V01	Viburnum trilobum 'Compactum'	Compact American Cranberry Viburnum	5 gal	3
	P02	Pennisetum alopecuroides 'Moudry'	Oxford Fountain Grass	1 gal	48
	GC	GROUND COVER	GROUND COVER	3' Deep	1,628 sq ft
	1/4"	1/4\"/>		3' Deep	
	2"	2\"/>		3' Deep	691 sq ft

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PLANTING CONCEPT 2

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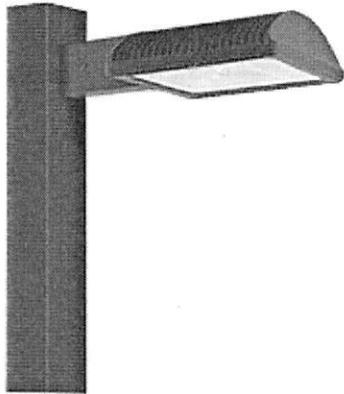


LP-101





# ALED2T78/480/PCS4



Specification Grade Area lights available in IES Type II distributions. For use in parking lots, roadways, pathways and general area lighting. Mounts to 4" square steel poles at 15-25'. Designed to replace 250W Metal Halide Area Lights. Patent Pending thermal management system. 5 Year Warranty.

Color: Bronze

Weight: 32.0 lbs

Project:

Type:

Prepared By:

Date:

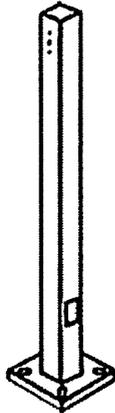
### Driver Info

Type: Constant Current  
120V: N/A  
208V: N/A  
240V: N/A  
277V: N/A  
Input Watts: 79W  
Efficiency: 99%

### LED Info

Watts: 78W  
Color Temp: 5100K (Cool)  
Color Accuracy: 67 CRI  
L70 Lifespan: 100,000  
Lumens: 7,355  
Efficacy: 93 LPW

Approximately \$1,400 for pole and fixture. Price doesn't include foundation and installation costs.



Square steel poles drilled for 2 Area Lights at 180°. Designed for ground mounting. Poles are stocked nationwide for quick shipment. Protective packaging ensures poles arrive at the job site good as new.

Color: Bronze

Weight: 168.0 lbs

<b>Project:</b>	<b>Type:</b>
<b>Prepared By:</b>	<b>Date:</b>

Lamp Info		Ballast Info	
Type:	N/A	Type:	N/A
Watts:	0W	120V:	N/A
Shape/Size:	N/A	208V:	N/A
Base:	N/A	240V:	N/A
ANSI:	N/A	277V:	N/A
Hours:	N/A	Input Watts:	0W
Lamp Lumens:	N/A		
Efficacy:	N/A		

**Technical Specifications**

**Listings**

**CSA Listed:**

Suitable for wet locations.

**Construction**

**Shaft:**

46,000 p.s.i. minimum yield.

**Hand Holes:**

Reinforced with grounding lug and removable cover.

**Base Plates:**

36,000 p.s.i. minimum yield.

**Shipping Protection:**

All poles are shipped in individual corrugated cartons to prevent finish damage.

**Color:**

Bronze powder coating.

**Height:**

25 FT.

**Weight:**

168 lbs.

**Gauge:**

11

**Wall Thickness:**

1/8".

**Shaft Size:**

4".

**Hand Hole Dimensions:**

3" x 5".

**Bolt Circle:**

8 1/2".

**Base Dimension:**

8".

**Anchor Bolt:**

Galvanized anchor bolts and galvanized hardware and anchor bolt template. All bolts have a 3" hook.

**Anchor Bolt Templates:**

WARNING Template must be printed on 11" x 17" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available .

**Pre-Shipped Anchor Bolts:**

Bolts can be pre-shipped upon request for additional freight charge.

**MaxEPA's/Max Weights:**

70MPH 4.5 ft\_/135 lb

80MPH 2.3 ft\_/80 lb

90MPH 0.8 ft\_/35 lb.

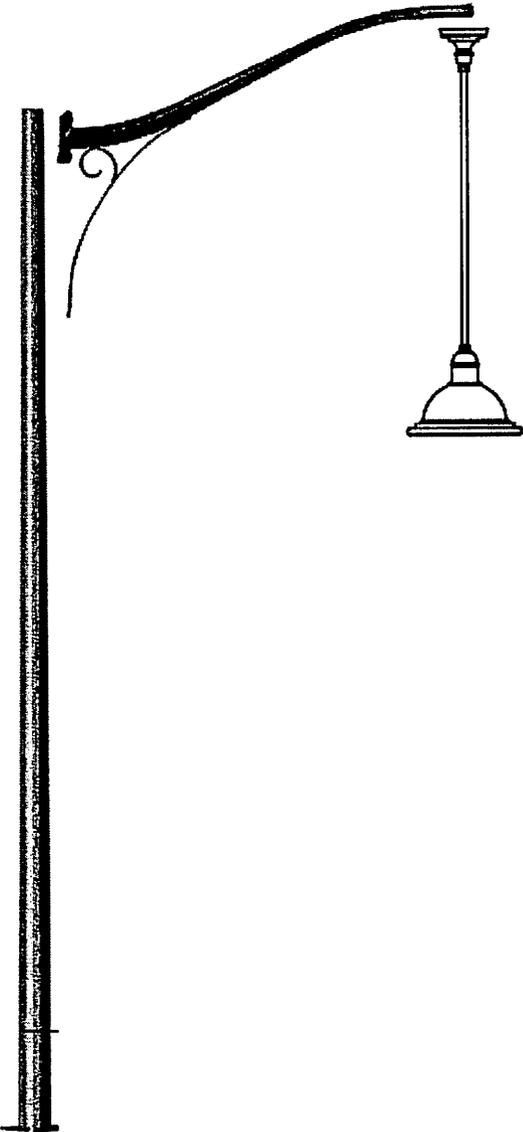
**Other**

**Terms of Sale:**

Pole Terms of Sale is available .

Lights on access to Ridgeline High School

Approximate Assembly Cost (Pole and fixture): \$4,500



# Approximate Cost of Pole & Fixture \$3,500

AGENCY: Steven Sales

PROJECT:

QUOTE#:

### POLE

Model: XF45

Top Dia: 4.5"

Taper: .2"/ft

Construction: Fiberglass Composite Inner Core wound using alternating 89° Hoops & 18° Helicals.

Elastomeric Urethane Outer Shell

Tenon: Customer to specify

Hand Hole: 2"x5" @ 14" above grade

Anchor Base: Plate-1/2" Hot Rolled Steel

ASTM A36 Slots for 3/4" bolts

Tube- 6.25" OD Carbon Mech Steel

1/4" wall 8" length ASTM A513

Anchor Bolts: 3/4-10x21"x3" Galvanized

Bolt Circle: 10"

Paint: UV & Cleaning chemical resistant

Color: Standard

Pole Weight: 90 lbs approx

MAX Fixture Weight: 100 lbs

MAX EPA for Attachments: 10.7 @ 90 mph

### BASE COVER

Model: D6M/2

Material: Elastomeric Urethane

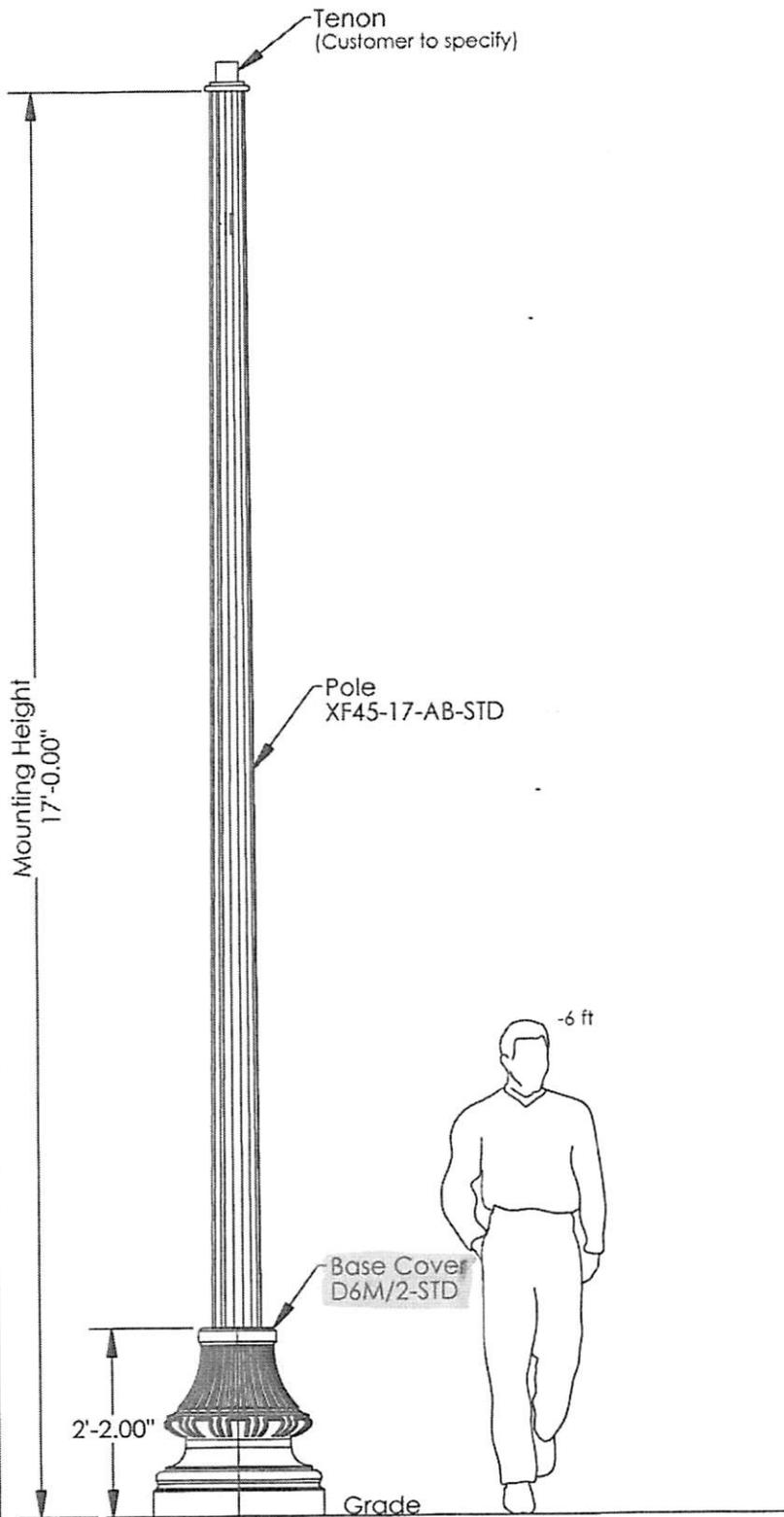
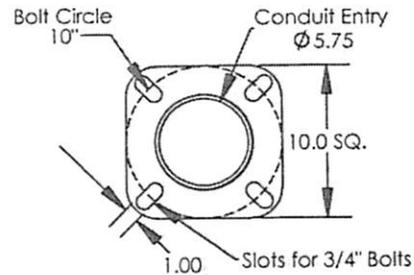
Color: Black

Height: 26"

Width: 23"

Weight: 31.5 lbs approx

### ANCHOR PLATE DETAIL



**WHATLEY, INC.** A Valmont Company

3550 Odessa Way, STE A

Aurora, CO., 80011

phone: (877) 959-7678

fax: (303) 286-7272

web: www.whatley.com

REV	DESCRIPTION	DATE

PART NO. XF45-D6M/2-17-AB-STD-xx-xx- DESCRIPTION: Pole Assembly

SCALE: 1:24 SIZE: A REV.

MATERIAL: Noted

FINISH: Smooth

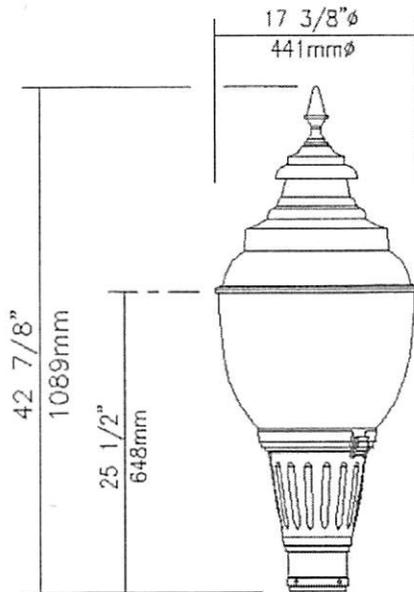
DOCUMENTATION	INITIAL	DATE
DRAWN	JTC	9/20/13
QUOTE REQUEST		
TOOLING REQUEST		
FIRST ARTICLE REQUEST		
FIRST ARTICLE INSPECTION		
PRODUCTION RELEASE		

UNLESS OTHERWISE NOTED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES:  
DECIMAL .XX ± .03  
DECIMAL .XXX ± .010  
ANGLE ± 1/2

**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WHATLEY, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WHATLEY, INC. IS PROHIBITED.

**DO NOT SCALE DRAWING**

## Specification



EPA: 2.4 sq ft / weight: 60 lb (27.3 kg)  
Note: 3D image may not represent color or option selected.  
Logos above include link, click to access.

Qty	2	Luminaire	S55-55W48LED4K-R-ACDR-LE3-VOLT-SFX-FN10-BE2
-----	---	-----------	---

### Description of Components:

**Finial:** Decorative cast 356 aluminum, mechanically assembled.

**Hood:** Spun aluminum 1100-0 dome, permanently assembled to the globe.

**Access-Mechanism:** A cast A360.1 aluminum technical ring with latch and hinge. The mechanism shall offer toolfree access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofness.

**Globe:** (ACDR), One-piece, seamless, injected-moulded impact-resistant (DR) acrylic globe having an inner prismatic surface with semi-prismatic house side shield and glare softening prisms on the street side. The smooth external finish offers self-cleaning properties. The globe is permanently sealed onto the access-mechanism.

**Lamp:** (Included), Lamp type Philips Lumileds Luxeon R. Composed of 48 high-performance white LEDs, 55w lamp wattage. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan based on TM21 extrapolation to get results after which 50% of LEDs still emits over 70% (L70) of its original lumen output. Use of metal core board insures greater heat transfer and longer lifespan of the light engine. The LED circuit board is included with a connector, (no connection wire required for ease of replacement).

**Optical System:** (LE3), IES type III (asymmetrical). Composed of high-performance optical grade PMMA acrylic refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumen and a perfect lighting uniformity. Optical system is rated IP66. Performance shall be tested per LM63 and LM79 and TM15 (IESNA) certifying its photometric performance. Street side indicated.

**Heat Sink:** Made of cast aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with



# Radio Read Meters

Terry Smith, RWAU Circuit Rider

Over time, water systems grow into big, gnarly beasts that require a lot of our time, money and attention (thinking about it, aside from the attention part, I've got a teenage boy that also fits that description).

While there are a lucky few, not many water operators can clock out on Friday and not think about the system again until Monday morning. And, as systems age, as with most things, stuff tends to wear out and require frequent repairs or replacing. It might be just me, but it seems that most of the time water breaks that require immediate attention occur at inconvenient times - late at night, on the weekend, etc.

Because of the increasing demands upon our time, plus the fact that local governments are

always seeking a way to run more efficiently in order to stretch budgets further and further, in the last few years a popular step toward this goal has been to install water meters equipped with radios that can be read remotely - either by a drive-by system installed in a vehicle, or from a central antenna located within the system (This is typically well received by operators, since very few rate reading meters very high on the "fun things to do" list).

With the drive-by system, an operator must drive the streets, coming within a

close enough proximity to each meter that the signal can be received in order to gather the meter reading. As it is received, the data is stored in either a handheld or laptop computer. However, some systems are sold as a "walk-by" system, which requires the operator to walk up to each meter in order to get the reading. I have talked to a few systems who thought they were getting a "drive-by", only to find out later on that it was a "walk-by". So, if you find yourself purchasing a system, make sure this point is crystal-clear and in writing.

As convenient and timing as these two systems may be, central antenna setup is much more. This allows the meters to be read from the office computer by simply running the associated software program. Typically the program is run once a month, a week or so before billing, in order to gather the readings. However, a real plus with this system is that any meter can be read at any time, as the need arises. A list of the benefits I've noticed over the years goes as such:

**Pros:**

- Reduced labor costs in getting meter readings
- More accurate readings / fewer re-reads
- Usage history—many brands of meters store 30 days or more of water usage history
- The lids stay locked down—less chance of someone falling into a meter box where the lid has not

*(Continued on page 20)*

Very few operators rate reading meters high on their "fun things to do" list.



**VAL KOTTER**

OWNER

PHONE  
(435) 734-9598

MOBILE  
(435) 720-0237

FAX  
(435) 734-9870

- Sewer Cleaning (6"-24") - Cleaning (24" & Up) No Bypass Pumping Required  
 Specialized Equipment • TV Inspection • NASSCO PACP Certified  
 • Leak Sealing (8"-36") Manhole Leak Repair  
 Link Pipe Spot Repair • Ultraliner (PVC Alloy Pipeliner 6" - 30")  
 • Trolining (36" - 120")  
 • Permacast MH Lining (w/Con<sup>SM</sup>Shield) • BackhoeWork • Dump Truck

1035 WEST FOREST, BRIGHAM CITY, UTAH 84302  
 Website: [www.valkotterandsons.com](http://www.valkotterandsons.com) • Email: [pearl@valkotterandsons.com](mailto:pearl@valkotterandsons.com)

(Continued from page 19)

- been locked down properly after it was read
- Confined space entry challenges are eliminated when operators no longer need to climb down into vaults to read the meter
- Suspected leak flag—i.e., if a meter runs continuously for more than twenty-four hours, it will report that a leak within the customers system may exist. This allows leaks to be caught much earlier, reducing the amount of water waste
- The ability to read meters all year long—including those hidden by the snow

So, with all of the apparent benefits that radio-read meters offer, why would a water system hesitate to install them? In my conversations about these meters with a lot of systems, I've picked up a few cons that you might consider before making the leap:

**Cons:**

- Initial expense—Typically a meter runs around \$180 for a 5/8 x 3/4 size, plus labor costs to install.
- Battery life—Around 15 to 20 years. Can the battery be replaced? Or will the meter need to be scrapped?
- How are your current meters? Are a significant portion of them in good shape and thus don't need replacing?
- Keeping track of the location of the meter. I'll bet you've got a lot of them that are tough to find; under bushes, covered in grass or dirt, etc. Just think how difficult they'll be to find when no one has seen them

in over 10 years! Might be a customer relations nightmare if they call needing the meter shut off in a hurry because of a broken line.

- Leaks—When reading meters, it was common to find several every reading cycle; either inside the box itself, or on the line from the meter to the main. These may not be discovered when reading the meter remotely, until damage appears from settling.
- Systems report that they find meters that need replacing each reading cycle—usually because the radio is not communicating. While the dealer will often warranty these (typically a full replacement up to 10 years, prorated after that), I have yet to hear of any dealer that will come out and physically replace them for you.
- In order to recoup meter investments, you should have the justification to read/bill for water usage each month—no skipping the winter months.
- Proprietary hardware/software—you are now locked in to that brand of meter.

So are they a good deal for you? That's for each system to decide based upon their current costs, condition of their meters, etc. Some questions to be considered:

- Because of the expected battery life, you should factor in that you'll be replacing most of these meters (or batteries) within the 15 - 20 year time period of installation.
- Will the cost savings/benefits justify doing so in that time period?
- How long is the typical life of your current meters?
- What about the yearly cost of technical support for software, hardware, etc.?
- The technology in this area has changed a lot over the last 10 years: will what you're buying today be supported in another 10 years?

There are a lot of tough questions to be considered when making this financial commitment. If you'd like some help, either in crunching the numbers or references to other systems that are using the meter system you're considering, give us a call.

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MAINTENANCE CO., INC.**

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YOUR AREA!**

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Wet	In Service Cleaning	Relocation	Elevated
Dry	Paint	Erectors	Underground
ROV (Robotic)	Insulation API	Dismantles Mixing System	Ground Storage

ROV Inspections can be viewed on TV console during inspection & DVD provided. All inspections include bound reports, recommendations and cost estimates.

**Hugh McGee**  
**270-826-9000 Ext. 330**  
**www.watertank.com**

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will change forever.**

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Meter Box Company is ready for 2014  
and can help you make the transition to  
no-lead brass.**

**FORD** [www.fordmeterbox.com](http://www.fordmeterbox.com)

1600 Alabama Highway 229  
Tallasse, AL 36078

Prices Valid Until: \_\_\_\_\_

Quote Provided by: **MeterWorks**

## PRICE QUOTATION

**Customer**

Company: Millville City  
 Address: \_\_\_\_\_  
 Attn: Gary Larsen  
 Phone: 435 757-6898  
 Email: \_\_\_\_\_

**Project**

Job/City: Millville City  
 Bid Number: \_\_\_\_\_  
 Bid Date: \_\_\_\_\_

Quantity	Product Description	Unit Price	Total
	<b>Neptune Package Deal</b>		
100	5/8" x 3/4" T-10 Meters w/ R900i Integrated Radio and 6' Antenna	\$ 230.72	\$ 23,072.00
100	1" T-10 Meters w/ R900i Integrated Radio and 6' Antenna	\$ 326.55	\$ 32,655.00
	<b>All Meters Quoted are Lead Free Brass Made In USA</b>		
	<b>Neptune Reading Equipment</b>		
1	Android Tablet w/ Ngo App	Free	
1	Neptune Belt Clip Receiver	Free	
1	ARB N-Sight Host Software	Free	
1	ARB N-Sight Training and Implementation	Free	
1	MRX 920 Mobile Data Collector <u>Including Laptop</u>	\$ 5,000.00	\$ 5,000.00
<b>TOTAL</b>			<b>\$ 60,727.00</b>

**Notes**

~~This is a complete meter reading package. The only item that is required is a transfer file between the billing system and our reading software. This is required for any meter reading system you purchase.~~

FOB Millville

TERMS NET 30

DELIVERY Meters are approx. 2-3 weeks and Reading equipment is approx 6-8 weeks.

**MeterWorks**

Name Dave White  
 Title Sales Representative  
 Address 1199 West 850 North  
Centerville, UT. 84014  
 Phone (801) 721-6252  
 Email \_\_\_\_\_

WE APPRECIATE THE OPPORTUNITY  
TO PROVIDE PRICING ON THE  
PRODUCTS LISTED AND LOOK  
FORWARD TO SERVING YOU

Meterworks Services

Pricing For Millville City

Install 600 5/8" or 1" T-10 R900i Meters (Install Price is based on 1 time mobilization)	\$28.50 Each	\$17,100.00
Incremental Install	\$31.00 Each	\$18,600.00
New Lid w/ recessed (Price From Meterworks)	\$13.50	8,100
Install New Lids and Take Away Old	\$2.00	1,200
Cut Lids	\$7.00	4,200

Meter must be accessible w/ 1 person installation

Meter box and meter must be dug out

Shut off valve must be operable

2016 City Staff Installation  
Cost Estimate 600 meters

	<u>Unit</u>	<u>Total</u>
400 5/8" x 3/4" meters	230 <sup>72</sup>	\$ 92,288
200 1" meters	326 <sup>55</sup>	\$ 65,310
Data Collector - Laptop		\$ 5,000
Cut Lids	5 <sup>00</sup>	\$ 3,000
		<hr/> \$ 165,598
? Transfer Data - Casselle		?
? 7 - 2" meters		?
Retrofit repairs needed (Estimated)		\$ 10,000

## Background of Vender / Contractor

Neptune Technology Group has been the leading manufacturer of water meters since 1892. Located in Tallassee, Alabama, Neptune's 300,000 square foot manufacturing facility includes an onsite NSF61 lead free foundry. The pioneer in automatic metering reading, Neptune Technology Group, introduced its ARB (Automatic Reading and Billing) system for water utilities in 1964, and has been expanding the systems capabilities to include backflow, no flow, intermittent leaks, continuous leaks, 96 day data logging, all bundled in a high power integrated radio read system.

Ken Sheffield, with MeterWorks, is the local customer support representative. Ken has over 13 years experience with Neptune Water Meters and Neptune Meter Reading Systems in Utah. He is the Neptune trainer for Utah and specializes in cleaning up databases and knowing procedures within billing systems. By doing this, we can guarantee the Meter Upgrade to be successful and smooth. Other trainers usually won't work with the database of the billing system, they will only train on their software and it is up to the city to work on their database. This has made it possible for Ken to take your process from beginning to end and show you exactly what needs to be done to make the system work seamlessly.

MeterWorks is very unique in how it works. We are the only company that can do your entire project, in house. MeterWorks does its own meter change outs, cuts its own holes in lids, supplies water meters and meter reading systems, does their own training, and gives continuous local support. All other meter distributors must use third parties to complete your project. There is a value when it comes to a one-stop-shop. If you have any problems, there is no finger pointing, because Neptune manufactures the entire Meter Reading System. It has to be our problem and we guarantee we will fix it. But in most cases, because we do everything from beginning to end, we eliminate most problems from ever happening.

**MeterWorks is also unique in that all we do is Water Meter Reading Systems. We spend 100% of our time working with Water Meters. This makes it possible for us to spend more time with your system to make sure the transition of the Meter Upgrade is done correctly and smoothly. We then can continue to give you superior local support. All other meter distributors do other things that take the focus off of your system. Meters are actually a very small part of their business. With MeterWorks, Meters is all we do, it is 100% of our business. So we will never lose focus of what we need to do to make sure your Meter Upgrade is successful.**

Section 3.2. Deposit of Bond Proceeds. The proceeds from the sale of the Series 2006 Bonds shall be deposited upon delivery in the Escrow Account and shall be disbursed pursuant to the provisions of the Escrow Agreement. All monies deposited in the Escrow Account shall be used solely for the purpose of defraying all or a portion of the costs of the Project including the payment of costs of issuance of the Series 2006 Bonds. Any unexpended balance remaining in the Escrow Account after completion of the Project shall be paid immediately into the "Millville City, Utah Water and Sewer Revenue Bond Account," hereinafter referred to as the "Bond Account" established under the Series 2001 Bond Resolution and reaffirmed hereunder, and shall be used only for the prepayment of the Series 2006 Bonds on a pro rata basis based on original principal amount. Principal last to become due shall be prepaid first, and in the event less than all of the principal amount of the Series 2006 Bonds maturing on the last due date are to be redeemed, the Issuer shall by lot select those Series 2006 Bonds to be prepaid. Proceeds from the sale of the Series 2006 Bonds on deposit in the Escrow Account, may at the discretion of the Issuer, be invested by the Escrow Agent as provided in the Escrow Agreement. Following the transfer of unexpended funds from the Escrow Account to the Bond Account, the Escrow Account will be closed.

Section 3.3. The Series 2006 Bonds Constitute Special Limited Obligations. Notwithstanding anything in this Bond Resolution elsewhere contained, the principal and interest on the Series 2006 Bonds shall be payable out of 100% of the Net Revenues, and in no event shall the Series 2006 Bonds be deemed or construed to be a general indebtedness of the Issuer or payable from any funds of the Issuer other than those derived from the operation of the System or from proceeds of the Series 2006 Bonds.

The Issuer may, in its sole discretion, but without obligation and subject to the Constitution, laws, and budgetary requirements of the State of Utah, make available properly budgeted and legally available funds to defray any insufficiency of Revenues to pay the Series 2006 Bonds; provided however, the Issuer has not covenanted and cannot covenant to make said funds available and has not pledged any of such funds for such purpose.

Section 3.4. Creation of Replacement Fund. The Issuer shall establish a capital facilities replacement account (the "Replacement Fund") to be held by the Issuer and shall annually deposit therein (prior to the end of each Sinking Fund Year commencing with the Issuer's 2006 fiscal year) an amount equal to 5% of the Issuer's annual operating budget for the System, including debt service and depreciation, and must continue said annual deposits until the Series 2006 Bonds are redeemed. The Replacement Fund shall not serve as security for the payment of principal on the Series 2006 Bonds. The Issuer shall limit the use of moneys on deposit in the Replacement Fund to the construction of Capital Facilities (as herein defined) for its System. No disbursements shall be made from said Fund unless and until the Issuer has given at least 31 days' advance written notice to the Drinking Water Board specifying the amount of the proposed disbursement and the purpose for which said disbursement will be made. The Issuer shall not, however, be required to obtain the consent of the Drinking Water Board prior to making any disbursement from said Fund. For purposes of this Section 3.4, "Capital Facilities" means the replacement of obsolete equipment or facilities whose useful life has expired,

extensions, or additions to the Issuer's System, and other capital improvements necessary to keep the System in good operational condition.

Section 3.5. Flow of Funds. From and after the delivery date of the Series 2006 Bonds, and until all the Series 2006 Bonds have been fully paid, the Revenues shall be set aside into the Millville City, Utah, Water and Sewer Revenue Fund referred to herein as "Revenue Fund," established under the Series 2001 Bond Resolution and reaffirmed hereunder, to be held by the Depository Bank.

Section 3.6. The Issuer will thereafter make monthly accounting allocations of the funds deposited in said Revenue Fund for the following purposes and in the following priority:

(a) From the amounts in the Revenue Fund there shall first be paid all Operation and Maintenance Expenses of the System. For this purpose the Issuer has established on its books pursuant to the Series 2001 Bond Resolution and reaffirmed hereunder an account known as the "Expense Account" to which shall be allocated monthly, on or before the tenth day of each month, such portion of the Revenue Fund as is estimated to be required for Operation and Maintenance Expenses of the System for the following month. There shall be allocated to the Expense Account from time to time during the month such additional amounts as may be required to make payments of Operation and Maintenance Expenses for which the amounts theretofore allocated to the Expense Account are insufficient. At the end of each Sinking Fund Year all amounts in the Expense Account in excess of that required to pay Operation and Maintenance Expenses then due shall be transferred to the Bond Account established as hereinafter provided.

(b) All amounts in the Revenue Fund not allocated to the Expense Account shall be allocated to the Bond Account.

(i) Of the amounts allocated to the Bond Account there shall be allocated such amounts as will assure, to the extent of the availability of Net Revenues from the System, the prompt payment of the principal and interest on the Series 2001 Bonds and the Series 2006 Bonds as shall become due. (A) The monthly amount to be so set aside with respect to the Series 2001 Bonds shall be the amount required by the Series 2001 Resolution. (B) The amount to be so set aside with respect to the Series 2006 Bonds shall, as nearly as may be practicable, be set aside and allocated to the Bond Account monthly, on or before the tenth day of each month, beginning the month following the date of issuance of the Series 2006 Bonds, and shall equal 1/12 of the principal and/or interest payments becoming due and payable on the next succeeding payment date. Amounts allocated to the Bond Account shall be used solely for the purpose of paying principal and interest on the Series 2001 Bonds and the Series 2006 Bonds and shall not be reallocated, transferred or paid out for any other purpose. (In the event insufficient moneys are available to make full allocation for the Series 2001 Bonds and the Series 2006 Bonds, the

CITY OF MILLVILLE  
STATEMENT OF NET POSITION -  
PROPRIETARY FUNDS  
June 30, 2015

	<u>Water and Sewer Fund</u>	<u>Storm Water Fund</u>	<u>Total Business- Type Activities</u>
<u>Assets</u>			
Pooled cash and cash equivalents	\$ 71,187	20,134	91,321
Restricted cash and cash equivalents	398,645	-	398,645
Accounts receivable, net	21,802	1,890	23,692
Due from other governments	13,000	-	13,000
Land and improvements	73,252	-	73,252
Water shares	113,575	-	113,575
Furniture, fixtures and equipment	32,107	-	32,107
Sewer improvements	1,040,407	-	1,040,407
Water improvements	4,074,008	-	4,074,008
Construction in process	73,475	-	73,475
Accumulated depreciation	<u>(1,594,107)</u>	<u>-</u>	<u>(1,594,107)</u>
Total assets	<u>\$ 4,317,351</u>	<u>22,024</u>	<u>4,339,375</u>
<u>Deferred Outflows of Resources</u>			
Pensions	<u>5,133</u>	<u>-</u>	<u>5,133</u>
Total deferred outflows of resources	<u>5,133</u>	<u>-</u>	<u>5,133</u>
<u>Liabilities</u>			
Accounts payable	\$ 21,856	1,539	23,395
Deposits	10,575	-	10,575
Current portion of long-term liabilities	126,000	-	126,000
Noncurrent liabilities:			
Accrued interest	131,979	-	131,979
Long-term liabilities, less current portion	2,387,580	-	2,387,580
Net pension liability	<u>24,296</u>	<u>-</u>	<u>24,296</u>
Total liabilities	<u>2,702,286</u>	<u>1,539</u>	<u>2,703,825</u>
<u>Deferred Inflows of Resources</u>			
Pensions	<u>3,082</u>	<u>-</u>	<u>3,082</u>
Total deferred inflows of resources	<u>3,082</u>	<u>-</u>	<u>3,082</u>
<u>Net Position</u>			
Net investment in capital assets	1,172,522	-	1,172,522
Restricted	398,645	5,000	403,645
Unrestricted	<u>45,949</u>	<u>15,485</u>	<u>61,434</u>
Total net position	<u>\$ 1,617,116</u>	<u>20,485</u>	<u>1,637,601</u>

The accompanying notes are an integral part of these financial statements.



## **Councilmember Reports**

### **January 14, 2016**

Sign into Millville – Mayor Johnson/Councilmember Duffin  
Fees in Lieu of Water Rights – Gary Larsen/Bob Fotheringham  
Review of Group Residential Facilities – Coordinator Harry Meadows  
Volunteerism Always Pays (VAP) Projects provided by Wal-Mart – Mayor Johnson  
City Artifacts – Councilmember Callahan  
Old Mill Day Committee – Councilmember Duffin  
CERT Training Program – Councilmember Cummings  
Water Rights Recommendation from Planning Commission – Mayor Johnson  
High School – Councilmember Duffin  
**Schedule for Newsletter Article** – February – Councilmember Cummings, March –  
Councilmember Duffin; April, Councilmember Williams; May, Councilmember  
Zollinger; June, – Mayor Johnson; July – Councilmember Callahan. (To be turned in by  
the 6<sup>th</sup> of each month)