
**MIDDLETON CITY COUNCIL
NOVEMBER 3, 2021**

The Middleton City Council meeting on November 3, 2021 was called-to-order at 5:31 p.m. by Mayor Rule.

Roll Call: Mayor Rule, Council President Kiser, Council Members Huggins, O'Meara were all present and Garner. City Attorney Mark Hilty was also present.

Pledge of Allegiance, Invocation: Billy Bebeau gave the invocation

Action Items

A. Approve Agenda

Motion: Motion by Council President Kiser to approve the Agenda as posted November 1, 2021 at 4:45 p.m. Motion seconded by Council Member O'Meara and approved unanimously.

Information Items:

Missing Child Alert—No presentation presenter was ill.

Action Items

1. **Consent Agenda (items of routine administrative business) (Action Items)**
 - a. Consider approving minutes for City Council October 20, 2021 regular meeting.
 - b. Consider ratifying payroll for October 22, 2021 in the amount of \$113,018.13.
 - c. Consider approving accounts payable thru October 29, 2021 in the amount of \$56,411.40.

Mayor Rule called the items. Council President Kiser stated he had gone through the accounts payable. There were no concerns.

Motion: Motion by Council President Kiser to approve Consent Agenda Items 1 a-c. Motion seconded by Council Member O'Meara and approved unanimously.

2. **Consider approving proposal for removal of trees on Boise Street as presented. – Billy Bebeau EXHIBIT A**

Mayor Rule called the item and City Staff, Billy Bebeau, explained the project to remove trees in and along Boise Street. He presented several bids for the project for the project. He met with potential bidders on-site to show the scope of work.

Motion: Motion by Council President Kiser to approve the bid from Jacob's Ladder Tree Service in an amount not to exceed \$43,550.00. Motion seconded by Council Member Garner and approved unanimously.

3. **Consider approving critical spare parts for Water (\$8,082.92) and Wastewater Collections (\$2,217.49) as presented. –Becky Crofts EXHIBIT B**

Mayor Rule called the item and Becky Crofts explained to the council the need to have a stock of critical spare parts for the city's systems to ensure that the city can make any

necessary repairs to the system in a timely manner. This is specifically important during this time where the supply chain can cause delays in delivery of parts.

Council member Huggins commented that the city needs to make this a routine to have items on the shelf for when things go down. To see this become a normal procedure for the city would be beneficial.

Motion: Motion by Council President Kiser to approve the purchase of critical spare parts for the water department in the amount of \$8082.92. Motion seconded by Council Member Huggins and approved unanimously.

4. Consider approving critical spare parts for Wastewater Treatment Plant (\$108,873.00) as presented. EXHIBIT C

Mayor Rule called the item and Becky Crofts explained that the WWTP also needed to have a stock of critical spare parts for the city's systems in order to ensure that the city can make any necessary repairs to the system in a timely manner.

Mayor Rule and Council President Kiser both commented that they appreciate the staff's proactivity in planning for the needs of the city.

Motion: Motion by Council President Kiser to approve the purchase of critical spare parts for the WWTP in the amount of \$108,873.00. Motion seconded by Council Member O'Meara and approved unanimously.

5. Consider approving a proposal from Control Engineers for Well #10 SCADA in the amount of \$10,100.00. EXHIBIT D

Mayor Rule called the item and Becky Crofts explained that Well #10 is located by Rule Steel and is in the Zone 1 of the water system. The city would like to take the action required to bring the well into circulation. This process will take some time testing to make certain that when the well is active it doesn't cause draw downs in adjacent wells.

Motion: Motion by Council President Kiser to approve the proposal from Control Engineers for Well #10 SCADA in an amount not to exceed \$10,100.00. Motion seconded by Council Member Garner and approved unanimously.

6. Consider approving the update to the ISPWC Supplement. EXHIBIT E

Mayor Rule called the item and Becky Crofts presented the ISPWC changes/updates to the council.

Motion: Motion by Council President Kiser to approve the updates to the ISPWC Supplement. Motion seconded by Council Member Huggins and approved unanimously.

-
7. **Consider approving summary of Amended and Restated Ordinance 591 for publication. EXHIBIT F**

Mayor Rule called the item and Becky Crofts explained that the cost of publication of the full ordinance was approximately \$2000. Therefore, she thought it best to have council approve the summary so that publication costs can be drastically reduced to near \$200.

Motion: Motion by Council President Kiser to approve the summary of Amended and Restated Ordinance 591 for publication. Motion seconded by Council Member Garner and approved unanimously.

8. **Consider approving the update to the ISPWC Supplement. Consider adopting Ordinance 657 AN ORDINANCE ENACTED BY THE MIDDLETON CITY COUNCIL AMENDING TITLE 4, CHAPTER 1, SECTION 4-1-1, OF THE MIDDLETON CITY CODE, PERTAINING TO THE GENERAL REQUIREMENTS FOR BUILDING WITHIN THE CITY OF MIDDLETON; PROVIDING FOR AN EFFECTIVE DATE; PROVIDING FOR SEVERABILITY; AND REPEALING ALL ORDINANCES, RESOLUTIONS, ORDERS AND PARTS THEREOF, IN CONFLICT HERewith. EXHIBIT G**

Mayor Rule called the item and Becky Crofts presented the item to council.

Motion: Motion by Council President Kiser to approve Ordinance 657 after being read by Title only. Motion seconded by Council Member Huggins and approved unanimously.

Council President Kiser read the title of Ordinance 657.

Motion: Motion by Council President Kiser to waive the reading rule and pass and adopt Ordinance 657 after being read by title only. Motion was seconded by Council Member O'Meara and approved unanimously by roll call vote.

9. **Consider adopting Ordinance 658 AN ORDINANCE ENACTED BY THE MIDDLETON CITY COUNCIL AMENDING TITLE 7, CHAPTER 2, SECTION 7-2-9, OF THE MIDDLETON CITY CODE, CONCERNING THE REGULATION OF CESSPOOLS, SEPTIC TANKS, AND CARE OF SERVICE LINES; AMENDING TITLE 7, CHAPTER 2, BY THE ADDITION OF A NEW SECTION 7-2-10, TITLED USER RESPONSIBILITIES FOR SERVICE LINES; PROVIDING FOR AN EFFECTIVE DATE; PROVIDING FOR SEVERABILITY; AND REPEALING ALL ORDINANCES, RESOLUTIONS, ORDERS AND PARTS THEREOF, IN CONFLICT HERewith. EXHIBIT H**

Mayor Rule called the item and Becky Crofts presented the item to council.

Motion: Motion by Council President Kiser to approve Ordinance 658 after being read by Title only. Motion seconded by Council Member Huggins and approved unanimously.

Council President Kiser read the title of Ordinance 658.

Motion: Motion by Council President Kiser to waive the reading rule and pass and adopt Ordinance 658 after being read by title only. Motion was seconded by Council Member O'Meara and approved unanimously by roll call vote.

Public Comments, Mayor and Council Comments:

Mike Graefe (1889 Ridge Way) 1. Question regarding the phasing of Well 10 into the system—is this a serious concern of the city could it have an effect on the other parts of the city? Is there a mechanism in place to guard capacity to ensure enough water for population? Becky answered this question that SPF Water is working on the Master Plan currently. She is working on an audit of EDUs and paying close attention to the water supply and assigning values to zones. One home is equals to approximately 1 EDU. 2. Mike commented that walking near the new subdivision Toll Bros is building sprinklers are watering off of a meter attached to a hydrant. He was wanted to make sure that the city was aware and that the water is paid for. Mayor Rule explained that Toll Bros is buying water from the city because irrigation was cut early and they had landscaping that they needed to have water through the fall. The city actually cut them off earlier than they had hoped but the bill was close to \$8000.

Mayor Comments:


- Met with Police Chief and Middleton School District Superintendent to discuss and work on solutions to the traffic issues around the schools.
- Citizens are asking for a crosswalk at the end of 9th Street.
- Public Works Director position has been narrowed down to two finalists. This process is still in the works but the hope is to have someone onboard within the next 60 days.
- Knife River Excavation has dug a large hole. Also working on a proposal for the next pond the excavation of rock and gravel would draw more revenue for the city.

Council Comments:

- Council Member O'Meara kudos to the city for the "mini-bypass" (Cemetery Road). Hopefully this will relieve some of the traffic on Main Street. Congratulation to the council members who were elected.
- Council Member Huggins wanted to notify the Mayor and Council that she will likely be absent on December 15 for the council meeting.

Adjourn: Mayor Rule adjourned the city council meeting at 6:31 PM.

ATTEST:


Rhonda Carpenter, Deputy Clerk
Minutes Approved: November 17, 2021

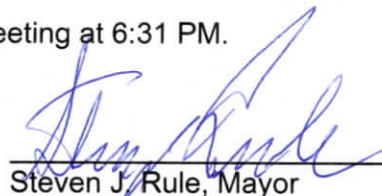

Steven J. Rule, Mayor



EXHIBIT “A”

Jacob's Ladder Tree Tech
9948 Gloria Rd
Middleton, ID 83644
541-401-0884
jacobsladdertreetech@gmail.com



Estimate

ADDRESS

William BeBeau
1103 W. Main ST
Middleton, ID

ESTIMATE

DATE 10/15/2021

DATE	ACTIVITY	QTY	RATE	AMOUNT
01/14/2022	Stump Grind 5@ 4-11 DBH stumps removed	1	250.00	250.00
01/24/2022	12-23" Tree Removal 5 cottonwoods at 4-11 DBH removed, chip all brush.	1	800.00	800.00
01/24/2022	Stump Grind 5 stumps ground 4-8" bellow.	1	300.00	300.00
01/25/2022	Tree Removal 8@4-11 further east of west most trees. Remove tree and chip all brush.	1	1,200.00	1,200.00
01/25/2022	Stump Grind Grind 8 stumps.	1	400.00	400.00
01/26/2022	Tree Removal 2 @ 24" DBH removed, chip all brush	1	1,500.00	1,500.00
01/26/2022	Stump Grind Grind 2 stumps	1	400.00	400.00
01/26/2022	Tree Removal 2@ 4-11" DBH removed	1	300.00	300.00
01/26/2022	Stump Grind 2 stumps at 4-11"	1	100.00	100.00
01/27/2022	Tree Removal 1 @ 24" DBH removed	1	750.00	750.00
01/27/2022	Stump Grind 1 @ 24" stump ground	1	300.00	300.00
01/28/2022	Tree Removal 1 @ 4-11" DBH removed plus stump ground	1	200.00	200.00

DATE	ACTIVITY	QTY	RATE	AMOUNT
01/28/2022	Tree Removal 4 @ 24+ DBH removed, chip all brush.	1	12,000.00	12,000.00
01/28/2022	Tree Removal 2@ 4-11 DBH removed	1	300.00	300.00
01/28/2022	Stump Grind 2@ 4-11 stumps ground	1	100.00	100.00
02/02/2022	Stump Grind 4@ 24+ stumps ground	1	1,600.00	1,600.00
02/03/2022	Tree Removal 4@ 24+ DBH removed, chip all brush.	1	12,000.00	12,000.00
02/11/2022	Stump Grind 4@24+DBH stumps ground	1	1,600.00	1,600.00
02/14/2022	Tree Removal 5@ 4-11 DBH removed	1	750.00	750.00
02/14/2022	Tree Removal 1@ 24++ Removed, chip all brush	1	4,000.00	4,000.00
02/17/2022	Stump Grind 1@ 24++ stump ground	1	500.00	500.00
02/28/2022	Site cleanup 28 Loads of wood removed from site.	1	4,200.00	4,200.00

Chips from the stump grinding will be left on site. If Desired we can haul them off site for and additional \$4200. All brush under 6" will be chipped and hauled off site. Once you decide, a deposit of half will hold the estimated start date.

TOTAL

\$43,550.00

Accepted By

Accepted Date

Treasure Valley Tree Company

13981 Sand Hollow Road
Caldwell, Idaho 83607

ESTIMATE #552

SENT ON:

Oct 21, 2021

RECIPIENT:

Billy Bebeau

Boise St and King Ave
Middleton, Idaho 83644



Phone: 208-861-6254

Email: treasurevalleytree@gmail.com

Website: treasurevalleytreecompany.com

PRODUCT / SERVICE	DESCRIPTION	QTY.	UNIT PRICE	TOTAL
Tree Removal	Remove all trees on public side of the fence from corner of walking path along Boise St to the corner of Murphy St. in Middleton. All debris and wood will be hauled away.	1	\$39,000.00	\$39,000.00
Stump Removal	Grind all stumps and spread stump grindings evenly along roadside. Utilities must be marked prior to stump grinding, Utilities must not be present in the area of grinding. Any sprinkler line damage that may occur while grinding is the customers responsibility.	1	\$10,900.00	\$10,900.00

Total

\$49,900.00

We can start the project on December 16th.

This quote is valid for the next 30 days, after which values may be subject to change.

Signature: _____ Date: _____

Heartwood Tree Care LLC
4911 Heartwood Lane
Caldwell, ID 83607

Estimate

Date

8/23/2021

Phone # (208) 965-6174

heartwood90@gmail.com

www.heartwood-treecare.com

Name / Address

City of Middleton

**HEARTWOOD
TREE CARE LLC**

P.O. No.

Terms

Project

Description of work / Specs

Rate

Total

Right of way tree removal: remove trees along Boise Ave. between road and fence, starting at the corner of Boise and King, down to the corner of Boise.
Grind all stumps below grade.

54,295.00

54,295.00

11,950.00

11,950.00

NOTE: We will not be held responsible for damage to private underground objects (such as pipes or wires) due to the uncertainty of their location. Sprinkler pipes or wires can be repaired using time and material rates as an additional charge, upon request. All work shall be completed in a responsible, workmanlike manner as specified above, and according to industry standards. All agreements are contingent upon accidents or delays beyond our control.

Total

\$66,245.00

BBEBEAU@MiddletonCity.Com



FOREST MANAGEMENT INC.



CERTIFIED ARBORISTS
ON STAFF



TREE SERVICE

922-4347 362-1725 466-7992

KUNA

BOISE

NAMPA/CALDWELL

QUOTE

QUOTE NO. 32409

DATE 10/12/21

P.O. Box 190510

Boise, ID 83719

www.fmtree.com

Email: forestmanagement@speedyquick.net
RCE - 20690

QUOTE SUBMITTED TO: % Billy BEBEAU

WORK TO BE PERFORMED AT:

NAME	City of Middleton	ADDRESS	S. Side of Boise St B/T King & Murphy
ADDRESS	P.O. Box 487	CITY, STATE	Middleton, Id. 83644
CITY, STATE	Middleton, Id. 83644		Corner of Boise St & S King Ave
PHONE NO.	(408) 410-7682	REP.	Pat

We hereby propose to furnish the materials and perform the labor necessary for the completion of

- Remove 30 +/- Cottonwood, 1 Juniper, 1 Russian Olive, 1 Elm, 2 Oak
trees & all brush & bushes & grind all stumps
(S. Side of Boise St B/T King & Murphy)
(B/T Barbwire Fence & Roadway)

* Will need lift & equipment access in pasture S. of trees
Animals in pasture will need to be moved or relocated
on property
* Will need roadway closed B/T King & Murphy

INCLUDES CLEAN-UP & REMOVAL OF ALL MATERIAL.

Material is guaranteed to be as specified, and the work to be performed in accordance with the drawings and specifications submitted for above work
and completed in a substantial workmanlike manner for the sum of:

Dollars (\$ 84,700 -)

with payment due upon completion.

Net Cash - Finance charge 2% per month, APR 24% will be added to all past due accounts past 30 days.

EXHIBIT “B”

13:16:10 OCT 26 2021

Page 1 of 1

FERGUSON WATERWORKS #1701

Price Quotation
Phone: 208-855-2040
Fax: 208-855-2869

Bid No: B226200
Bid Date: 10/20/21
Quoted By: JDA

Cust Phone: 208-585-6611
Terms: NET 10TH PROX

Customer: CITY OF MIDDLETON
PO BOX 487
MIDDLETON, ID 83644

Ship To: CITY OF MIDDLETON
PO BOX 487
MIDDLETON, ID 83644

Cust PO#: QUOTE

Job Name:

Item	Description	Quantity	Net Price	UM	Total
SDR35PP20	4X20 SDR35 PVC GJ SWR PIPE	40	3.195	FT	127.80 <i>ww coil</i>
PEC9BLF100	3/4X100 CTS DR9 HDPE BLUE PIPE	100	29.305	C	29.31 <i>water</i>
FC4466GNL	LF 1-1/2 C44-66-G-NL COUP	12	107.290	EA	1287.48 <i>water</i>
FU4863GNL	LF 1-1/2X3/4 U48-63-G-NL U BRCH	1	124.820	EA	124.82 <i>water</i>
DR18BPX	8 C900 DR18 PVC GJ BLUE PIPE	20	29.521	FT	590.42 <i>water</i>
DR18BPU	6 C900 DR18 PVC GJ BLUE PIPE	20	17.198	FT	343.96 <i>water</i>
PEC9BLJ100	1-1/2X100 CTS DR9 HDPE BLUE PIPE	100	149.819	C	149.82 <i>water</i>
TLB800	1HP DEWTR PUMP	1	535.506	EA	535.51 <i>water/ww coil</i>
A1240200025CE	2X25 GREE SUC HOSE W/ CXE	1	64.877	EA	64.88 <i>" "</i>
MA423LAOLMJRU	5-1/4 A423 HYD 6'0 6 MJ OL L/A RED. <i>hydrant fire</i>	2	2451.705	EA	4903.41 <i>water</i>
G7117	INVERTER GP2200I 2200W <i>generator</i>	1	679.000	EA	679.00 <i>water/ww coil</i>
SP-A1X14-1/2MASTIC	1X14-1/2 MASTIC TAPE	1	14.000	EA	14.00 <i>water</i>
		Net Total:			\$8850.41
		Tax:			\$0.00
		Freight:			\$0.00
		Total:			\$8850.41

767.49 ww collections
8082.92 water

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with "NP" in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=1701&on=46613>

JAMIE J. WINTERS
jamie@ameelectric.com



MIKE S. TENHULZEN
mike@ameelectric.com

IDAHO CONTRACTOR LICENSE # C 2854 OREGON CCB #221860
**PUBLIC WORKS LICENSE # PWC-C-11544-
UNLIMITED-4 (16000, 02500)**
**UL 508A INDUSTRIAL CONTROL PANEL LICENSE # E
312625**
MSHA CERTIFIED - ID NUMBER # N 760
WEB SITE: www.ameelectric.com
October 26, 2021

To: **CITY OF MIDDLETON**

Ref: **SPARE PARTS
A.M.E. PROPOSAL #2021-915**

A.M.E. Electric, Inc. is pleased to present this proposal for your review and consideration.

INCLUDED IN THIS PROPOSAL:

1. Provide two (2) each of the following OPTO PLC Cards
 - a. SNAP-AIMA-4
 - b. SNAP-ODC5R
 - c. SNAP-IDC5

**TOTAL PROPOSAL AS
DETAILED..... \$1,450.00**

A.M.E. Electric, Inc. appreciates this opportunity and we strive to earn your future business.
Should you have any questions, or require any additional information please feel free to contact
us.

Sincerely,

Jamie J. Winters
Owner / Estimator

*also lift stations
collections*

EXHIBIT “C”

WWTP Critical Spare Parts List 2022

	Location	Part	Model Number	Company	Contact	Notes	Quote	Lead Time	Expense Type
1	Headworks	Influent pump		W-Cubed Inc.	W-Cubed in Salt Lake	Rebuild Kit	\$5,368	6 weeks	Maintenance
2	Headworks	Huber Vertical Screen Rebuild kits		Huber	Cedric Anthony 704/990/2408	This was purchased in FY21 budget Huber Tech to service both screens on site. This project will be done in coordination with the Influent wet well rebuild	\$7,566		Capital Expense
3	Headworks	Huber Vertical Screen LABOR/EXPENSES		Huber	Cedric Anthony 704/990/2408	Huber Tech to service both screens on site. This project will be done in coordination with the Influent wet well rebuild	\$9,310		Capital Expense
4	Headworks	Vertical Screen Motor					\$5,000		Capital Expense
5	Grit Building	Lower bearing for classifier		Wes Tech	parts@westech-inc.com	Labor to be done local.	\$10,842		Maintenance
6	SBR	WAS pump	DX-3069.090 2.5"	Xylem	Bill Weymouth 208/401/5237 Email	Rebuild pump and spare on the shelf	\$5,145		Capital Expense
7	SBR	WAS pump Labor		Xylem	Bill Weymouth 208/401/5237 Email		\$2,256		Capital Expense
8	UV Disinfection	Effluent composote sampler	ISCO 5800	Teledyne		Process control and new permit	\$6,948		Capital Expense
16	UV Disinfection	UV Bulbs		Xylem	Bill Weymouth 208/401/5237 Email	complete change (32)	\$10,000		Maintenance
17	UV Disinfection	ph Probe	DPD1P1	HACH		Needed for new permit	\$1,217		Capital Expense
9	Headworks	Influent check valve					\$1,500	6 weeks	Capital Expense
10	Headworks	Wash water solenoids				AnSCO Soleniods-find a distrubuter	\$500		Maintenance
11	Grit Building	Grit pump		Wes Tech	parts@westech-inc.com		\$32,585	18-20 Weeks	Capital Expense
12	Grit Building	Rebuild kit for Grit pump		Wes Tech	parts@westech-inc.com	Labor to be done local.	\$10,218		Maintenance
14	SBR	Dissolved Oxygen Probe Caps		HACH		order 1 more from HACH, DO probe \$1018	\$418		Maintenance
13	Grit Building	Rebuild kit for mixer/gearbox		Wes Tech	parts@westech-inc.com				Maintenance
15	SBR	Decanter actuator motor/gearbox		Xylem	Bill Weymouth 208/401/5237 Email				Capital Expense
							TOTAL	Maintenance	Capital
							\$108,873	\$36,928	\$71,527

EXHIBIT “D”

From: Mike T. Johnson mtjohnson@control-engineers.com
Subject: FW: Well 10 Integration Proposal
Date: Sep 29, 2021 at 11:19:18 AM
To: Terrell Mendive tmendive@middletoncity.com

Hi Terrell,

See below my estimate sent to Bruce for Well 10 Integration into SCADA.

Thanks,
Mike

Mike Johnson
Project Engineer
Control Engineers

From: Mike Johnson
Sent: Thursday, April 22, 2021 12:43 PM
To: 'Bruce Bayne' <bbayne@middletoncity.com>
Subject: Well 10 Integration Proposal

Hi Bruce,

After further review I believe installing a small PLC at Well 10 is the best approach. There will be some cost for an electrician to install which I think would be around half a day (\$500)

Here is our scope for Well 10 equipment, programming & integration:

- PLC programming & startup for automatic well control
- Alarm integration to main SCADA & notification testing
- Trending & historic data storage on main SCADA
- HMI programming for screens & controls on main SCADA
- Startup support & coordination w/electricians & operators

Services Cost: \$8,250

Provide PLC for installation by electrician.

Equipment Cost: \$1350

Installation Cost: \$500 (electrician)

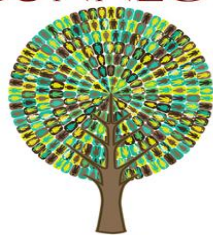
EXHIBIT “E”

THE CITY OF MIDDLETON

Supplement to the
Idaho Standards for Public Works Construction



MIDDLETON
CONNECTS



ART
HISTORY
PARKS
PATHWAYS &
TECHNOLOGY

TABLE OF CONTENTS

Introduction	3
Water	4
Sanitary Sewer	9
Storm Water Management	12
Pressurized Irrigation	17
Street	18
Driveways	25
Access	25
Project Inspection	28
 Appendix A	 32
Sanitary Sewer Lift Station Standards	
 Appendix B	 37
Miscellaneous Drawings, Check Lists, Applications, and Requirements	

INTRODUCTION

The City of Middleton has adopted the most current edition of the Idaho Standards for Public Works Construction (ISPWC). Prior to any work or construction being accepted by the City for use by the public, the work must be completed in conformance with the ISPWC. The City has also developed construction standards in conjunction with the current edition of the ISPWC.

City standards include acceptable materials, construction practices, and other specific requirements which may not be covered under the ISPWC standards or may be supplemental to the ISPWC.

The intent of the Middleton Supplement to the ISPWC is not to conflict with the ISPWC but rather to supplement and specify construction methods, materials, sizes, and practices specific to the City of Middleton.

WATER

1. General:

All materials, construction, testing, and inspection shall be in accordance with the current ISPWC. Final construction plans and specifications shall be submitted to the City for review and approval prior to construction.

2. Fire Flow requirements:

The water distribution system is required to draft the following minimum fire flows for new development in the City:

Residential zones	1500 gpm ¹ for 2 hour duration
Other zones	Determined on an individual basis per International Fire Code

The City Engineer shall review the existing water system, operations and conditions, review the layout of the water infrastructure proposed for the development, and then make recommendations to the City as to the water main line size (minimum 8-inches), any additional water source needed, and/or water storage requirements.

3. Fire Hydrants:

A. Spacing:

1. Hydrant spacing shall be a maximum of 600 feet in the residential zone, and shall be reviewed and approved by City staff and Middleton Rural Fire District.
2. Hydrant spacing in zones other than residential shall be determined on a case by case basis.
3. All water mains installed on cul-de-sacs or similar dead end streets shall have a hydrant located at the end of the water line;

B. Materials:

1. All fire hydrants shall be a "compression type" and shall conform to the latest edition of ANSI/AWWA C 502 Specifications. Hydrants shall have a 5 foot setting; minimum 5-1/4 inch diameter valve opening; 150 psi working

¹58.01.08 Idaho Rules for Public Drinking Water Systems

552.01.b.i. Any public water system shall be capable of providing sufficient water during maximum day demand conditions, including fire flow where provided, to maintain a minimum pressure of twenty (20) psi throughout the distribution system, at ground level, as measured at the service connection or along the property line adjacent to the consumer's premises.

pressure; one 4-1/2 inch diameter National Standard Thread pumper nozzle (equipped with a Storz fitting); and two 2-1/2 inch diameter National Standard Thread fire hose nozzles. The valve operator shall open left (counterclockwise) and be so indicated on the top casting. The hydrant shall be equipped with a breakaway traffic flange just above the ground level, a drain that automatically opens when the hydrant is closed, a 6-inch diameter supply pipe, an oil reservoir, a weather shield and nut and a bronze-to-bronze seat and ring. Manufacturer shall be Mueller, no exceptions, and painted with two coats of fire safety color red hydrant enamel.

2. Fire hydrants shall be Mueller Centurion, no exception, and painted with two coats of fire safety color red hydrant enamel.
3. Flushing hydrants or blow-offs shall be 4" if permanent, 2" if temporary and manufactured by Kupferle or equivalent per ISPWC SD-405 and approved by the City. Post hydrants are not allowed.

4. Water Pipe, Fittings and Valves:

A. Materials: All Water Pipe, Fittings, and Valves shall be in accordance with current edition of the ISPWC. Water pipe, fittings and valves shall meet the following:

1. Water Pipe:
 - a. Class 52 cement-lined ductile iron pipe meeting ANSI/AWWA C151 for diameters of 6" to 64";
 - b. AWWA C900 - 07 PVC DR 18 pipe for diameters up to 12";
 - c. AWWA C909 - 07 PVC DR 18 for diameters larger than 12".
2. Fittings: ductile iron compact fitting ANSI/AWWA C153.
3. Valves:
 - a. Ductile iron valves ANSI/AWWA C509 or C515 - Mueller brand only.
 - b. Tracer wire at all valves shall be located on the outside of the valve box and pass between the valve box and the slip top. The wire is not allowed to come into the valve box from the bottom. The Developer shall test for continuity after installation. Test to be

observed by the City.

- c. Domestic manufactured valves are required to be installed unless otherwise specifically approved by the City. Water valves manufactured by Clow are not acceptable for installation in the City's water system.
- d. Valves that are connected to the City main lines become City property. Valves shall only be operated by City personnel, per City code.

B. Testing: The Developer shall test water mains for pressure and absence of bacteria prior to permitting the water mains to be open to the City distribution system. City personnel shall be present during all water main testing. Failure to have City personnel present for testing is sufficient reason for requirement to re-test. Developer's engineer shall coordinate and observe testing and provide certification of testing and testing results to the City.

- 1. Pressure Testing: Water mains shall be pressure tested according to the specifications set forth in the current edition of the ISPWC. Exceptions to the ISPWC are as follows:
 - If pressure during testing drops five (5) psi or more, the test is considered to have failed even if leakage is below allowable.
 - All valves shall be exposed prior to any testing and verified by the City to be open or closed.
 - The results of the test reported to the City is gallons of leakage.
- 2. Trench Compaction Testing: Developer shall test trench compaction and testing shall be by an independent materials testing laboratory, once every 300 feet of trench with a minimum of two test locations.
- 3. Each hydrant shall be sampled for absence of bacteria or as otherwise approved by the City.

4. Sample station to be cold weather type and free draining.

C. Location: All water line locations will be approved by the City. In cases where water pipe crosses a non-potable water line, IDAPA 58.01.08.542.07 shall be strictly observed.

- D. **Size:** Water main sizes shall be the following except when otherwise recommended by the City Engineer for fire flows or other system conditions.
 - 1. Minimum size is 8" in diameter.
 - 2. 12" diameter lines shall be placed when water mains are placed on or adjacent to section lines roads or quarter section line roads or as required in the Facility Plan.
- E. Valve configuration shall be as follows:
 - 1. Tees shall have a valve on each branch.
 - 2. Crosses shall have valves on all legs.
- F. **Cover:** Water mains shall have a minimum of 42" cover and a maximum cover of 60". Cover greater than 60" may be allowed where obstructions occur, but must be specifically approved by the City.
- G. **Dead-end Water Mains:**
 - 1. Dead end mains are to be avoided whenever possible and only permitted when phased development is approved.
 - 2. Dead-end water mains to be extended shall terminate with a valve followed by at least 10 feet of water line with an end cap and thrust block.
 - 3. Dead end water mains shall have a fire hydrant or blow off within 10 feet of the termination of the main unless otherwise permitted by the City.
- H. Contractors working in the City are not to open, close, or tamper with any valve per City code. The contractor shall notify the City when a valve needs to be opened or closed.

5. Water Services:

- A. **Service Lines:** Service lines may be polyethylene (SDR9 copper tube size (cts) or Class K copper pipe from water meter to water main with minimum three-quarter inch (3/4") diameter for single service and a minimum of one and one half inch (1 ½") diameter for double services. No splices in service line.
- B. **Fittings:** All fittings, connections, compression connections, bushings, adapters, setters and any miscellaneous materials are to be manufactured by Mueller or Ford. Galvanized or yellow brass fittings are prohibited.
- C. **Double Water Meter Branch:** The double water meter branch connection shall be

used for double services. The double water meter branch shall be a compression fitting (to service line) by MIP (male iron pipe).

- D. Service Saddle: Saddles for water mains shall be ROMAC (single stainless steel strap) for water main less than 12" in diameter OR ROMAC (double stainless steel strap) for water main greater than or equal to 12" diameter. Saddle shall be FIP (female iron pipe) thread connection.
- E. Corporation Stop: Corporation stops shall be three-quarter inch (3/4") for a single service line and one and one-half inch (1 1/2") for a double service line. Corporation stop is required at all main-line connections. Corporation stop shall be set so the valve is accessible from the side. Corporation stop shall be MIP (to saddle) by compression connection (to service line).
- F. Curb Stop: Curb stops shall be ball valve type or City approved equivalent. Curb stop shall be FIP by FIP. A curb stop is required at the base of the meter setter on the water main side.
- G. Meter Setter Connection: Meter setter connection shall be multi-purpose thread (to meter yoke) by MIP.
- H. Meter Setter: Meter setters shall be an 18" minimum Mueller #B-2404-2, three-quarter inch by three-quarter inch (3/4" x 3/4") and have a dual vertical check valve. Connections shall be multi-purpose thread. Meter setter shall be centered in the meter vault.
- I. Customer Connection: A meter setter connection (multi-purpose thread by compression connection) and a five (5) foot section of service line pipe shall be extended on the customer side of the meter vault with a temporary plug. A water-tight plug is required in high ground water areas.
- J. Meter Vaults: Single Meters: Meter vaults shall be made of 18" smooth interior corrugated HDPE pipe, ADS N-12. Use Nicor 12.50 Type LCX water lid-Nicor Read Right lid 12.50 top, 11.25 bottom, 0.50 top thickness, Worm Gear, threaded for two (2) Zenner adapters and including two (2) Zenner adapters. Part # 12.5PWBLKWATdZ2-TypeLCX. Lid ring will be Tyler type 615, 45016303121.
- K. Meter Vaults: Double Meters: Meter vaults shall be made of 24" smooth interior

corrugated HDPE pipe, ADS N-12. Meter vault lids shall be Tyler type 6150 with single knockouts in place.

- L. Location: Water services shall be located outside of right of way with the center of the can approximately 24 inches behind the property line unless otherwise approved by the City. The elevation of the meter lid shall be 0.2 ft above back of sidewalk.
- M. Where water service is in concrete slab area or driveway, a 20-in Nicor meter box ring, part #NCUL21.75x16.375 and 16-in Nicor MB solid water lid, Worm Gear, threaded and equipped with 2 Zenner adapters part #NCUL16.0 pwith
- N. The developer or property owner shall provide and install all materials for water services except the water meter. Water meter will be provided and installed by the City.
- O. City public works does not inspect the service line past the meter service.

SANITARY SEWER:

1. General:

All materials, construction, testing, and inspection shall be in accordance to the current edition of the ISPWC.

2. Sanitary Sewer Pipe:

- A. Materials: Sewer pipe shall be ASTM 3034 SDR 35 PVC pipe or City approved equivalent. Trench backfill shall be Type A backfill according to the specifications set forth in the current edition of the ISPWC.
- B. Testing: Sanitary Sewer Mains shall be pressure tested and grade tested by the Developer prior to the sewer main being accepted by the City. City personnel shall be present during sewer main testing. Failure to have City personnel present during all testing is sufficient reason for requirement to retest. Developer's engineer shall provide certification of testing and testing results to the City.
 - 1. Pressure Testing: Sanitary Sewer mains shall be pressure tested according to the specifications set forth in the current edition of the ISPWC.
 - 2. Visual Test: The Developer shall provide CCTV (closed caption television) of all sections of sewer mains to the City. All visible leaks shall be repaired, even

if the leakage may be below allowable limits. All repairs shall be made and shall be inspected by the City prior to backfilling. In no case shall pavement be placed without the CCTV approved by the City.

3. Standing Water: If standing water is observed due to grade defects, the following table shows the allowable standing water depth in relationship to slope of the pipe.

Pipe Slope (ft/ft)	Allowable Standing Water Depth (in)
$G < 0.001$	$\leq 5/8$
$0.001 \leq G < 0.003$	$\leq 1/2$
$0.003 \leq G < 0.005$	$\leq 3/8$
$0.005 \leq G < 0.007$	$\leq 1/4$
$0.007 \leq G < 0.009$	$\leq 1/8$
$G > 0.009$	No standing water

4. Trench Compaction Testing: Trench compaction testing by the Developer shall be by an independent testing laboratory and once every 300 feet, with a minimum of two test locations. Testing and retesting shall be in accordance with the specifications set forth in the current edition of the ISPWC.

3. Manholes

- A. Testing: The Developer shall test sanitary sewer manholes prior to the sewer manhole being accepted into the collection system. Testing shall be in accordance to current edition of the ISPWC. City personnel shall be present during testing. Failure to have City personnel present during all testing is sufficient reason for requirement to retest. Developer's engineer shall provide certification of testing and testing results to the City.
- B. Grade rings: In conformance with ISPWC. The grade rings shall not exceed 12 inches in height. "Whirligig" is acceptable for installation.
- C. Manholes 20 feet deep or greater shall be 60 inch with 30 inch ring and cover..
- D. Drop manholes not allowed except in special circumstances where other sewer options are not workable.

- E. External sealing system: All manholes shall be water tight. An external sealing system shall be required to be installed on the outside of the manhole at the barrel joints in addition to the joint sealing system specified in the current edition of the ISPWC. The external sealing system shall be Infi-Shield manufactured by Sealing Systems Inc., EZ Exterior Joint Wrap, or City approved equivalent.
- F. Connection into an existing manhole or construction of a drop manhole or special manhole shall not be accepted without full time inspection by City staff or the City Engineer.

G. Manholes to be grouted. Connection of sewer lines to manholes shall be grouted after the vacuum test is successfully completed.

G.H. Standard manhole cover and frame per ISPWC SD-507 only.

4. Pressure Sewer Pipes:

- A. Materials: All pressure sewer pipe shall be in accordance with the current edition of the ISPWC. Pressure sewer pipe shall be the following:
 - 1. Class 52 cement-lined ductile iron pipe with a fused calcium aluminate cement mortar lining (H₂Sewer Safe) as manufactured by Griffin Pipe Products meeting ANSI/AWWA standards.
 - 2. AWWA C900 PVC DR 18 or AWWA C909 PVC DR 18.
- B. Testing: Testing by the Developer shall be in accordance to current edition of the ISPWC. Sanitary sewer pressure mains shall be tested prior to such sewer main being accepted by the City. City personnel shall be present during testing. Failure to have City personnel present during all testing is sufficient reason for requirement to retest. Developer's engineer shall observe testing and provide certification of testing and testing results to the City. Trench compaction testing shall be completed by an independent testing laboratory and once every 300 feet with a minimum of two test locations.
- C. Locating Wire Boxes: Shall be in accordance current edition of the ISPWC. Locating wire boxes shall be installed on pressure sewer mains at a maximum spacing of 1000 feet and/or at every angle.
- D. Cover: Pressure sewer mains shall have a minimum of 42" cover and a maximum cover of 60". Cover greater than 60" may be allowed where obstructions occur, but

must be approved by the City.

5. Sewer Services:

- A. Connection to Mains: Service wyes or tees shall be used on new main installations. Saddles are not acceptable. All sewer services discharge to the sewer main. If a service is approved to discharge to a manhole, the service flow direction shall be pointed down stream and at an angle of less than 45 degrees to the direction of flow. Inserta-tee are allowable only in cases specifically and individually approved by Public Works.
- B. Service lines shall be installed at least 6 feet apart at the main and at least 6 feet from a manhole.
- C. Sewer service installations per SD-511 Type C are not allowed unless specifically approved by the City.
- D. Service Markers: In addition to requirements set forth in the current edition of the ISPWC, sewer services shall be marked with a green, steel, 6 ft Tee post (instead of 2x4) and a 3" permanent wet set stamp in the concrete sidewalk.

6. Septic Tanks

Installations and properties that utilize individual, on site septic systems for sewer service are required to have the septic tank pumped every six (6) years minimum. Evidence of septic tank pumping to be provided to the City.

7. Sewer Lift Stations:

Standard Specifications and Drawings: See "City of Middleton, Idaho Sanitary Sewer Lift Station Standards" in Appendix A.

STORM WATER MANAGEMENT

1. General:

All materials, construction, testing, and inspection shall be in accordance to the current edition of the ISPWC. A plan for stormwater management must be approved by the City. All stormwater is to be treated and managed on-site. In certain, site specific cases, the City may approve discharge into canals or drains (or other) at pre-development levels. If storm water is to be discharged off site, it must be treated to quality and standards identified prior to project development, and as required by the jurisdiction of the receiving water. Permission from the jurisdiction receiving the treated pre-development flow must be

documented and any required permits must be in place (National Pollutant Discharge Elimination System (NPDES), license agreement, or other) prior to City approval. Review and approval of offsite storm water discharge at pre-development flow rate will be made on a case-by-case basis. In no case will stormwater from public rights of way be discharged offsite. Illicit discharge of storm water is prohibited by the City and the Environmental Protection Agency (EPA).

a. Calculations shall use the rational method.

b. C values shall be as follows:

1. With frontages greater than or equal to 65-feet, $C=0.60$
2. With frontages less than 65-feet, $C=0.75$
3. 0.95 for all portions within the right-of-way.
4. A composite C value shall be calculated for each catchment and/or sub-catchment. Catchments shall include at least half the residential lot depth unless site grading can justify otherwise.

c. The storm intensity shall be 1.15 inches-per-hour. This correlates to a 100-year, 1-hour storm.

2. Best Management Practices:

Retention basins are required for management of stormwater from public rights of way. Other BMPs may be approved in special circumstances and on a case by case basis where site specific conditions preclude the use of retention basins. Stormwater from non public contributing areas may utilize other management BMPs to be approved by the City. All developments shall use the appropriate "Best Management Practice" (BMP) mitigation measures as defined in the "Catalog of Storm Water Best Management Practices for Idaho Cities and Counties" by Idaho Division of Environmental Quality (IDEQ). Design and construction of BMP and other means of water quality improvements must meet all requirements of the storm water discharge permit for the development (if any) and must be approved by the City Engineer.

3. Collection Piping and Catch Basins:

A. Materials: All storm sewer pipe and catch basins shall be in accordance with current edition of the ISPWC. Storm sewer pipe and catch basins shall be City approved equivalent or the following:

1. All storm drainage pipe shall be at least ASTM 3034 SDR 35 PVC pipe.
 2. ADS N-12 by Hancor, C900 or equivalent may be approved by the City.
 3. Trench shall include nonmetallic tape identifying the storm sewer pipe.
 4. Minimum size of storm drain pipe shall be 12-inches.
 5. Catch basins shall be Type IV for rolled curb and Type 1 for vertical curb. Catch basins shall have a one (1) foot sump.
- B. Testing: The Developer shall test the storm sewer system prior to acceptance by the City, including street crossings and manholes. City personnel shall be present during storm sewer main testing. Failure to have City personnel present during all testing is sufficient reason for requirement to retest. Developer's engineer shall provide certification of testing and testing results to the City. Testing shall be in accordance with current edition of the ISPWC. Trench compaction testing shall be by an independent testing laboratory and once every 300 feet of trench with a minimum of two test locations.
- C. If storm sewer collection pipe discharges into natural drains, sloughs, or canals, the following shall be installed:
1. A corrugated metal pipe shall be placed at the end of the pipe with a minimum of ten feet (10') of bury into the bank.
 2. Wingwall or other concrete structure to protect the outfall pipe. To be approved by City Engineer during construction plan review.
 3. Riprap of proper size shall be placed around the drain pipe. Riprap size shall be approved by City Engineer during construction plan review.
 4. A heavy-duty, flap gate valve shall be placed at the end of the discharge pipe. Waterman or City approved equivalent.
- D. Stormdrain manhole spacing shall be maximum 400 feet.
- E. Retention and detention basins shall be designed according to Best Management Practices and the ISPWC.
- F. The storm drain system shall be designed to be free draining. There shall be no standing water in catch basins after construction is complete. All water shall dissipate from detention facilities within 24 hours.

4. Swales: Roadside swales along local roads are prohibited for stormwater management. This does not include borrow ditches for collector and arterial roads.
5. Swale Management
 - A. When swales are existing in the City, they function as the primary component of the stormwater management and disposal system for the roads in the subdivision. The swales are located in the City of Middleton road right-of-way and are owned by the City of Middleton, or are in a City of Middleton easement and monitored by the City according to the City's NPDES permit (National Pollutant Discharge Elimination System) by the EPA.
 - B. The swales are engineered to collect stormwater runoff from the streets, provide filtration and treatment, then hold the water until it dissipates by percolation into the area soils. Each component of the swale is specifically designed to facilitate the treatment and disposal of stormwater. Therefore, preserving swale geometry and constructed components (sandy bottom, etc. for drainage) is a requirement for proper function and maintenance.
 - C. Homeowners typically enjoy the use of the swale area in front of their homes and like to control its appearance, including ground-cover, frequency of irrigation and mowing, and turf health. For this reason, the City allows homeowners to assume the operation and maintenance of the swale area fronting their properties, provided the swales are appropriately maintained to continue their primary function of stormwater management.
 - D. The following list of protocols should be observed when maintaining a swale:
 1. The sand window in the bottom of the swale should be open and free of grass, weeds, trash, and cobble. The homeowner should rake the sand window at least two (2) times per year to loosen the top sand layer, remove any collected debris, and make sure the sand is in a condition to filter stormwater.
 2. If sediment, trash or cobble collects on the sand window, it should be removed by the homeowner as soon as possible.
 3. The existing driveway shall not be enlarged or otherwise reduce the footprint of the swale area available for infiltration.
 4. The swale should be fully grassed in the side slope area down to, but not over, the sand filter.

5. The grass on side slopes should be irrigated only as needed to preserve the turf health. Overwatering is prohibited.
 6. The grass on the side slopes should be mowed at least every two (2) weeks and the grass clippings collected and disposed. Do not mulch the swale side areas.
 7. Runoff into the swale from the driveway, excess irrigation water, and water from activities such as car washing, is prohibited.
6. Storm Water Construction Site Discharge Program. In compliance with the City of Middleton Storm Water Management Program requirements, as contained in NPDES Permit No IDS-028100, the City of Middleton will limit and reduce, to the maximum extent practicable, the discharge of pollutants from construction sites in the City of Middleton through its authority to issue building permits, occupancy permits, or otherwise authorize construction. Discharge of storm water into the City MS4 stormwater system is prohibited without specific and written approval by the City
- A. Any applicant or application for development in the City of Middleton which will disturb one acre (43,560 square feet) or more of area is required to prepare a Stormwater Pollution Prevention Plan (SWPP) and file a Notice of Intent (NOI) with EPA. Copies of the SWPP and NOI must be furnished to the City prior to any permit approval.
 - B. Any applicant/application for development in the City of Middleton which disturbs less than one acre or otherwise does not require filing a SWPP and NOI, shall submit to the City an Erosion and Sediment Control (ESC) Plan.
 1. The ESC plan must be prepared and signed by a Plan Designer. The plan shall describe the proposed construction activity or land disturbing activity and the proposed BMPs to be employed to prevent and control any impact to storm water quality during and after construction.
 2. The ESC plan shall identify BMPs, as applicable to the site, for control of sediment, flow conveyance, tracking, non-stormwater management, waste management, final site stabilization, protection of adjoining property, and maintenance, inspection, and repair of controls. Provisions for material containment and pollution spill prevention must also be included. The ESC plan preparation and elements should follow the industry accepted standards.

3. The ESC plan should be submitted in conjunction with a building permit application, development application, or application to work in the public right of way.

PRESSURIZED IRRIGATION

1. General:

All materials, construction, testing, and inspection shall be in accordance to the current edition of the ISPMC Divisions. **No cross connection between City water system and pressure irrigation water shall occur.**

2. Irrigation Mains:

- A. Testing: The Developer shall test pressure irrigation mains in accordance to current edition of the ISPMC. Trench compaction testing by an independent laboratory shall be once every 300 feet of trench in the rights of way with a minimum of two test locations. Developer's engineer shall provide certification of testing and testing results to the City.
- B. A valve shall be installed adjacent to and outside of the road right of way, each side, where an irrigation line crosses a public street.

3. Irrigation Services:

- A. Valve Box: All irrigation services shall have a fiberglass valve box installed level and straight with the surrounding ground surface.
- B. **Irrigation Service: In addition to the valve box, the service shall provide one (1) hose bib for residential irrigation use. Each service line shall be a minimum of one inch (1") in diameter.**
- C. Pressure Irrigation Design: All irrigation shares shall be used for the development.
- D. Service Pressure: The design of the irrigation system shall be to provide every residential building lot a service with a minimum pressure of 25 psi.
- E. Service Flow: The design of the irrigation system shall be to provide every lot with a minimum of six gallons per minute (6 gpm) flow. The design can allow for alternating irrigation schedules, (one miners inch = 9 gpm = 1 share.)
- F. City water shall not be used for pressure testing or temporary irrigation.

4. Pressure irrigation pumping station shall have an improved dedicated access to the station.

5. Nuisance Water

With the availability irrigation water, overwatering of landscape is a common problem in the City of Middleton. Irrigation runoff from overwatering flows to the street and into the stormwater system where it impacts roadway safety, diminished the roadway service life, increases maintenance responsibilities, saturates the system, creates mud and ponding in borrow ditches, swales and low spots, and decreases the capacity and function of the system. Nuisance flows from overwatering are also a source of pollutants to the storm drain system. It is the responsibility of property owners, HOA's and businesses to adjust their water use and irrigation system operations as needed to maintain landscaping, conserve water and PREVENT irrigation water from flowing to the public street and stormwater system.

STREETS

1. General:

All materials, construction, testing, and inspection shall be in accordance to the current edition of the ISPWC Divisions, City of Middleton Supplemental Construction Standards, and the Highway Standards and Development Procedures for the Association of Canyon County Highway Districts.

2. Rights of Way at Intersections:

The rights of way at section line and quarter section line road intersections shall be configured to dedicate a triangle of area to be used for intersection control improvements. The triangle shall be formed by measuring from the intersection at the edges of the rights of way, 150 feet along each right of way, then connecting the two points with a line. Please see diagram, Appendix B.

3. Widths:

A. Rights of Way Widths

1. All section-line and quarter section-line roads shall be 100 ft (50 ft each side) minimum right of way width.
2. Roads listed below shall have the following right-of-way widths:

<u>Arterials and Collectors</u>	<u>Half-Road Width</u>	<u>Total Road Width</u>
Emmett Road	50 feet	100 feet
Hartley Lane	50 feet	100 feet
Cemetery Road	50 feet	100 feet

Middleton Road	50 feet	100 feet
Duff Lane	50 feet	100 feet
Lansing Lane	50 feet	100 feet
Kingsbury Road	50 feet	100 feet
Blessinger Road	50 feet	100 feet
Can-Ada Road	50 feet	100 feet
9 th Street	50 feet	100 feet
Willis Road	50 feet	100 feet
Meadow Park Street	50 feet	100 feet
Purple Sage Road	50 feet	100 feet
Cornell Street	50 feet	100 feet
River Street	50 feet	100 feet
Landruff Lane	50 feet	100 feet
Canyon Road	50 feet	100 feet
Freezout Road	50 feet	100 feet
El Paso Road	50 feet	100 feet
Lincoln Road	50 feet	100 feet
Peel Street	50 feet	100 feet
KCID Road	50 feet	100 feet
Wood Avenue	50 feet	100 feet
Bass Lane	40 feet	80 feet

The City may approve reduced right-of-way along section and quarter-section line roads if sidewalks are detached and in an easement outside of street right-of-way. All other roads in the City are considered local roads and shall have a half-road right-of-way width of twenty-five (25) feet and a total right-of-way width of fifty (50) feet.

- B. **Improved Section:** All improved sections classified as local roads shall have widths from back-of-curb to back-of-curb of thirty-eight (38) feet. Developments that submit improved sections different from the standard may be evaluated and approved on a case-by-case basis.
 - 1. Collector and arterial roadways are to be cut back to centerline and improved for the full half section unless specifically approved by the City otherwise.
- C. The City of Middleton supports street design wherein storm water management and disposal of stormwater utilizes storage and treatment without adversely impacting water quality or water bodies of the United States. The City may allow bioswales or other proven disposal methods that incorporate natural treatment in the construction methods. If an alternative section or stormwater treatment method is to be submitted, the developer shall include a narrative and supporting

engineering data that would aid in the review process. Each design submittal will be reviewed based on the specific merits of the design and other factors such as treatment utilized, proximity to water bodies, multi function and use, and comprehensive storm water disposal design.

- D. There shall be no new utility poles, transmission structures or substations located within sixty (60) feet of the centerline of section line and quarter section line roads or within the site triangle unless individually and specifically approved by the City in a license agreement.

4. Private Lane:

- A. A private lane may be constructed to access up to four (4) single-family residences. Private lanes will be reviewed on a case-by-case basis and specifically approved by the City. Private lanes will not be allowed to access more than four (4) single-family residences.

5. Street Section Properties:

- A. Materials: All streets shall be constructed in accordance the current edition of the ISPWC and this Middleton Supplement to the ISPWC.
 - 1. Structural sections to conform with urban road section standard drawings in Appendix B.
 - 2. Asphalt: Plant mix design shall be submitted two weeks prior to asphalt placement and shall meet the requirements of a Class III mix or better.
- B. Testing. The Developer shall test the roadway materials and placement per ISPWC. Storm drain facilities to be tested by the developer and functionality verified by the City. Contact the City for testing protocol for storm drain facilities. Developer's engineer shall provide certification of testing and testing results to the City.
 - 1. Testing shall be by an independent testing laboratory and completed once every 300 linear feet with a minimum of two tests.
 - 2. Asphalt: Density tests shall be performed by an independent testing laboratory and once every 8,000 square feet with a minimum of two tests. Core samples verifying thickness of asphalt shall be provided to the City.

6. Curb & Gutter:

- A. Materials: All curb & gutter shall be constructed in accordance with the current

edition of the ISPWC and shall have a minimum 28 day compressive strength of 4000 psi. ***Fiber mesh shall be included in all concrete construction.*** The Developer shall provide concrete testing per the ISPWC.

B. Expansion Joints:

1. Shall be required in non-extruded curb and gutter at the beginning and end of all points of curvature.
2. Shall be required at all joints between new concrete and existing concrete.

C. Type of Curb:

1. Residential streets interior to subdivisions: Standard 3" rolled curb and gutter.
2. Exterior streets and Collector streets: Standard 6" vertical curb and gutter.

D. Valley Gutters: Valley gutters shall be a minimum of 10" thick and 4'-0" wide with #4 rebar longitudinal at 12" on center and #4 rebar on both ends and in the middle. Valley gutter base shall be a minimum of 6" thick of three-quarter inch (3/4") crushed aggregate gravel placed as specified in Section 802 ISPWC.

E. Base for curb, gutter and sidewalk is required to be tested every 300 lf.

7. Sidewalks:

A. Materials: All sidewalks are concrete and shall have a minimum 28 day compressive strength of 4000 psi. ***Fiber mesh shall be included in ALL concrete*** The Developer shall provide concrete testing per the ISPWC.

B. Sidewalks shall be completely within street right-of-way or completely within an easement outside of street right-of-way, and shall not be partly in right-of-way and partly in an easement.

C. Width:

1. Sidewalks along both sides of local roads shall be minimum of five feet (5').
Sidewalks, trails or pathways along both sides of section and quarter-section line roads shall be eight feet (8') wide . Other pathways shall be ten (10) feet wide.

D. Trees may only be planted in public rights of way with a license agreement.

1. No trees are allowed to be planted in the forty foot (40') sight triangle.
2. No vegetation, fences, berms or other obstruction taller than three feet are allowed within the sight triangle.

3. Tree planting of any type is prohibited within ten feet (10') of any seepage bed or sand filter facility, structure, piping system, fire hydrant or utility box.
 4. Class I, Class II, and Class III trees (listed in Appendix A) may be planted a minimum of five feet (5') away from sidewalk. All other trees not listed shall be planted at least fifteen (15') feet behind the back of the sidewalk.
 - E. Bore or channeling under a sidewalk is not allowed for any reason including water service, sewer service or irrigation system installation. Sleeves may be installed with approval from the City.
 - F. Base for curb, gutter and sidewalk is required to be tested every 300 lf, each street side as applicable
8. Vertical Alignment
- A. Any variation from grade which causes localized ponding will not be allowable.
 - B. Minimum Slope: Minimum slope of curb and gutter, measured parallel to the street centerline, shall be at least 0.40%.
 - C. Vertical grade change of 1.5% or greater requires a vertical curve.
9. Miscellaneous:
- A. Street Cuts or Closures: The City shall be notified in writing at least two (2) City business days before any street cuts or street closures for utility or street work.
 - B. Vandalized Concrete: Any concrete vandalized during construction shall be repaired to new condition or replaced solely at the contractor's expense.
 - C. Prior to pouring valley gutter, curb & gutter and sidewalk a representative for the City shall approve compaction test results of the subbase material.
 - D. No trees or bushes shall be planted in the public right of way or in the utility easement running parallel and adjacent to the public right of way.
 - E. A box is required on each side of the right of way for gravity irrigation crossings.
 - F. The minimum Level of Service for intersection operation in the City of Middleton is Level C.
 - G. If a street is cut and repaired (for any reason) prior to being dedicated to the City the street will be chip sealed by the developer as a condition of acceptance.
 - H. Whenever the existing use of a parcel, building or structure changes to a new use or an increase in intensity of the use, frontage improvements for the road(s)

bordering the parcel will be required unless specifically waived by City Council.

10. Street Lights

- A. Street lights shall be installed at intersections, cul-de-sacs and at a maximum of 400 foot intervals, or as sufficient to support safety for all users, including pedestrians and non-motorized users.
- B. Lighting layouts shall be submitted to the City Engineer for review and approval. Street lights are required to be furnished and installed per ISPWC Section 1102

11. Street Signs. Posts shall be type E-1 as shown in SD-1 130 of the ISPWC with 14 gauge wall thickness. Street signs shall be in conformance with Manual on Uniform Traffic Control Devices and shall be a nine-inch (9") blank, six-inch (6") all capital lettering, no border, with retro-reflective, high intensity background, with the street type superscript (upper right). Submit a shop drawing to the City for approval. Speed limit signs shall be installed by the developer - 20 mph for subdivision roads.

12. Fiber Optics. The City requires a fiber-optic based network be available in subdivisions so each roof top has access to fiber-speeds and fiber-volumes for data transfer. Fiber speeds/volume shall be delivered to each roof top or a blank conduit installed in joint trench or co-located in the front 10 foot utility easement.

Developer shall install conduit and boxes for fiber optics in all local collector, collector and arterial street rights-of-way on or abutting the property being developed and to-and-through the project limits. Conduit shall be two (2) PVC 2 ½ inch conduit with brackets every 5 feet or less and locate wire. Pipe shall be Schedule 40, 24" bury (min) and sand bedded and installed in the rights of way. Conduit shall be installed with a fiberglass locate stake at every terminus and junction box or pull box at every intersection and bends of 90° and greater. Junction box(es) to be telecom vault (Larken or approved equal) 350 gallon, with cast iron ring and telecom lid. A conduit placement plan shall be submitted to the City for review. The plan shall detail the location, size and number of conduit and may be included or shown on utility plan sheets.

13. Traffic Impact Analysis. Per Middleton City Code, all subdivisions with more than 25 residential lots shall provide a traffic impact analysis. A traffic impact analysis may also be required by the City on a case by case basis. The traffic impact analysis shall consider at least the following:

- Obtain new AM and PM peak hour turning movement counts at study intersections identified by the City of Middleton.
- Coordinate with COMPASS to determine the most current background traffic forecasts.
- Estimate site traffic.
- Evaluate study intersections operations and recommend improvements to mitigate the AM and PM peak hour traffic impacts for the following traffic conditions:
 - Existing traffic
 - Horizon year (5 years beyond build out year) background traffic
 - Horizon year (5 years beyond build out year) site plus background traffic
- Assess the need for exclusive turn lanes and intersection control at study intersections and the proposed site access intersections for all traffic conditions described above. The City may include additional conditions to be evaluated.
- Evaluate traffic operations at the proposed site access intersections.
- Estimate the site traffic portion and percentage of the total entering traffic for each study intersection.
- Summarize the results.

14. Monuments Disturbed by Construction Activities. Idaho Code 55-1613 shall be observed in the City of Middleton. IC 55-1613 partially reads:

All monuments, accessories to corners, benchmarks and points set in control surveys that are lost or disturbed by construction shall be reestablished and remonumented, at the expense of the agency or person causing their loss or disturbance, at their original location or by setting of a witness corner or reference point or a replacement benchmark or control point, by or under the direction of a professional land surveyor. Please see Idaho Code 55-1613.

15. Preconstruction Meeting. The NOI must be filed and all necessary approvals, including City of Middleton, DEQ, highway district, Idaho Transportation Department (ITD) or others shall be in place prior to scheduling a preconstruction meeting. Joint trench design is required to be furnished to the City 48 hours in advance of the preconstruction meeting and a construction schedule developed at the preconstruction meeting.

DRIVEWAYS:

Individual driveway approaches onto public roads are established at building permits issuance, per the site plan submitted. If the approved driveway needs modified, or an additional driveway or driving strips are requested, an application for an approach permit application is required to be submitted to the City. Upon receipt of the application, the City will evaluate the request per standards for site distance, lot coverage, impacts to stormwater facilities and other applicable items. If there are swales for stormwater treatment, the City may require installation of a partially-perforated culvert, perforations facing downward, with trash-racks on each end underneath the additional driveway or drive strips.

On collector roads, residential driveways shall be restricted to a maximum width of 20-feet. These driveways may be constructed as curb cut type driveways.

Driveway Design Requirements on Local Roads

1. The width of the driveway abutting the public street shall match the width of the garage.
2. Gravel driveway, where approved, are to be paved at least 30-feet into the site from the edge of pavement of the adjacent road.
3. If a driveway taking access to a public road is to be gated, the gate or keypad (whichever is closer to the road) shall be located a minimum of 50 feet from the adjacent road so the accessing vehicle is fully out of the traffic lane. An on-site turnaround shall be provided.

ACCESS

Local Roads

1. Residences having a three (3) car garage shall have a driveway width at least equal to the three (3) car garage that extends from the garage to the abutting public street.
2. The primary function of a local road is to serve adjacent property. Adjacent property will usually have unrestricted access to the road, except near intersections, and Average Daily Traffic will be less than 2,000. Direct lot access to local roads from adjacent property is

permissible.

3. Driveway Spacing Near Intersections. Driveways on local roads shall be located a minimum of 75 feet (measured centerline of road to centerline driveway) from the nearest road intersection. This is not applicable for single family dwelling units with lot sizes less than 75 feet in width.
4. Successive Driveways Away from intersections, there is no minimum spacing requirements for access points along a local road, but the City does encourage shared access points where appropriate.

Roads Other than Local

1. With the exception of collector roads located approximately one-half mile from adjacent arterial intersections, all new access, public or private, collector, local collector, section-line or quarter-section line road, will be restricted to right-in/right-out access. The right-in /right-out access will include construction of a median type, to be approved by the city. Access onto arterial is prohibited.
2. Direct access from roads other than local roads is permitted only when reasonable access cannot be obtained otherwise, as determined at the sole discretion of the city.
3. Additional access is not permitted upon the splitting or dividing of parcels of lands or contiguous parcels under the same ownership. The City may approve shared access or cross access may be permitted internally from the existing access.
4. Access near intersections is restricted and must be a minimum of 660 feet from the intersection and outside the functional area of the intersection in cases where the functional area may extend beyond the minimum distance.

PARKING LOT DIMENSIONAL STANDARDS: See attached drawing

PROJECT INSPECTION:

1. On Site Inspection:

- A. The developers licensed engineer must supervise or conduct construction observation and inspection for all construction. See “Project Log” at paragraph 1.E below.
- B. The City shall be informed of the inspector's name, office location, phone number, and emergency telephone numbers if different from the developers licensed engineer.
- C. No water, sewer, street, or drainage construction shall take place without inspection.
- D. Periodic inspection shall be conducted by the City and/or the City Engineer, at no charge to the Developer, as detailed below

WATER SYSTEM

- 1. Connection to existing main
- 2. Thrust block installation (to be batched concrete).
- 3. Potable and non-potable line crossings
- 4. Verify bedding, finder wire, valve configuration and metallic tape placement
- 5. Service installation. **City to verify materials and installation on first services installed.**

SEWER SYSTEM

- 1. Connect to existing main or manhole
- 2. Verify pipe bedding
- 3. Manhole EZ Wrap
- 4. Drop manhole or special manhole construction
- 5. Verify with contractor top cone placement for 12-inch grade rings

FIBER OPTICS CONDUIT

- 1. Verify placement generally per plan

PRESSURIZED IRRIGATION

- 1. Valves each side of right of way crossings
- 2. Verify bedding and depth in right-of-way

STREETS

1. Subgrade
 2. Stormdrain installation. Seepage beds/swales to free draining or other to be determined (TBD).
 3. Sidewalk and valley gutter – top of base course
 4. Fiber mesh in concrete
 5. Rebar in valley gutter
 6. Valley gutter 10 inches deep
 7. Placement of road base
 8. Paving
 9. Concrete collars
- E. Project Log: The on-site project inspector shall keep a written and photographic log detailing the daily activities of the project. The written and photographic log shall consist of the following (minimum):
1. Written: A written description of the daily activities including materials used and construction completed. Notes should also include day, time, weather conditions and any activity out of the ordinary.
 2. Photographic: Inspector shall keep a photographic journal detailing connections to **existing City utilities, pipe intersections (thrust blocks), valves, and manhole connections**. Photos to be identified by stations or other location as represented on the plans and date.
- F. Prior to any work within the City streets and rights-of-way, a permit to work in the public right of way shall be obtained from the City.
- G. The City is required to inspect or observe the following. The developers engineer is responsible for contacting the City to observe:
1. Water main pressure test per ISPWC
 2. Sewer main pressure test per ISPWC
 3. Sewer main CCTV and mandrel test per ISPWC
 4. Sewer manhole vacuum test per ISPWC
 5. Stormwater mainline pressure test per ISPWC
 6. Pressure irrigation system pressure test per ISPWC

7. Subgrade inspection after water, sewer and joint trench and prior to hauling sub-base material.
8. Stormwater facilities installation, i.e. – seepage beds or swales.
9. Water bacteria testing (two tests – at least 24 hours apart).
10. Water system continuity test
11. Irrigation pump station functional

2. Project Completion Packet:

The project completion packet consists of the items below compiled in a packet and submitted to the City. At the completion of construction, before the release of any security posted with the City, and before the City issues occupancy permits or signs the final plat, the City shall receive:

1. A copy of the inspection log;
2. A copy of the photographic journal including thrust blocks as installed
3. Three (3) copies of legible Record Drawings and a digital copy of the record drawings in CADD as specified by the City
4. A digital copy of the final plat including the installed location of the water mains, valves, sanitary sewer mains, manholes, cleanouts, and storm sewer infrastructure including mains, inlets, containment areas and O/S boxes. Digital copy shall be in CADD and state plane coordinates or as requested by the City;
5. All test results shall be certified to the City by the developer's licensed Engineer.
6. All testing per ISPWC and Middleton Supplemental to be complete and added to the completion packet including water tests, pressure irrigation, compaction, etc. A graphic or plan sheet correlating the location of every project compaction test shall be included.
7. Irrigation as-built drawings shall be supplied to the city and the home owners association

3. Final Inspection:

- A. The Developer's project engineer shall do the initial final inspection.
- B. After the project engineer completes the walkthrough, he/she will submit a

statement certifying a final walkthrough has been completed by him/her and the project has been constructed in accordance with the ISPWC and City of Middleton Supplemental Specifications and is generally in conformance with the record drawing submitted and certify to the City that the project is ready for final inspection. The City will then schedule a final inspection.

- C. The project completion packet shall be filed with the City and deemed complete prior to request for final inspection.
- D. Final project inspection shall be by the City Engineer or a representative of the City Engineer.
- E. Final inspections shall be requested by the developer's engineer and scheduled with the City Engineer at least two (2) City working days in advance.
- F. Punch List:
 - 1. The City Engineer will develop a "punch-list" of items.
 - 2. When all items contained on the City's punchlist are completed and confirmed completed by the City, the City will issue a certificate of completion at which time the warranty period will start. Please see Appendix B for certificate of completion.
- G. A one year warranty walkthrough will be performed by the City. A list of any infrastructure found to be defective, failing, or damaged will be provided to the developer. Repairs to items identified in the warranty walkthrough shall be verified complete by the City in 45 days or less.

APPENDIX A
STANDARD SPECIFICATIONS AND DETAILS
for
SANITARY SEWER LIFT STATIONS

1. INTRODUCTION: The following sewage lift station specifications provide minimum design requirements for proposed lift stations in the City of Middleton.

2. GENERAL REQUIREMENTS:

1. City Review and Acceptance:

- A. All sewer lift stations shall be reviewed by the City prior to final plat submittal.
- B. The City shall approve the selected sanitary sewer lift station mechanical components, electrical components, and construction materials used in the proposed lift station prior to final plat approval.
- C. The developer's engineer shall provide the City with a complete operation and maintenance manual for the lift station prior to final walkthrough.
- D. The developer's engineer shall provide for the City's staff operation training prior to final walkthrough.
- E. All lift stations shall be duplex type and National Electrical Manufacturers Association (NEMA) rated as applicable.

2. Wet Well:

- A. Wet wells shall have a minimum diameter of six feet (6), and made of precast concrete or City approved equivalent.
- B. Wet well volume requirements shall be determined using "The Ten States Standards" and the appropriate design parameters and service area as defined by the City.
- C. Wet well shall have a watertight outer coating [and inner coating, coating shall be Raven or equivalent.](#)
- D. Wet well shall have an access cover for the pumps. The cover shall be one size larger than required by the pumps, but not less than 36" x 48". The access hatch shall be aluminum and traffic rated and lockable.

E. Wet well vents shall be no less than four inches (4") in diameter and be covered with a screen and capped.

F. Wet wells shall be configured to reduce turbulence in wet well. The pipe shall be drop pipe or shall be properly placed to mitigate turbulence.

G. Wet wells shall be equipped with a duplex pump system with surface bypass pumping capabilities.

H. Wet well shall have two additional stainless steel hooks for floats.

I. Wet well piping shall be painted green. (Submittal to be approved by City)

G.J.

3. Valve Vault:

A. A valve vault is required.

B. Vault shall meet DEQ and City of Middleton requirements.

C. Valve vault shall have a floor drain to drain accumulated water back to the wet well.

D. The minimum valve vault depth shall be at least 78 inches.

E. Access cover in valve vault shall have dimensions not less than 36"x 48" and the opening location approved by the City. The access cover shall be made of aluminum and be lockable. The cover shall be traffic-rated.

4. Pumps:

A. As a minimum, the station shall be sized for a duplex pumping system and a spare pump shall be furnished. Three pumps total – two for service, one for spare

B. Pumps shall be designed for a minimum solids handling capacity of three inches (3").

C. Impeller may be a non-clog or grinder type impeller with adjustable wear plate as determined by the City of Middleton. Pumps shall be ABS or City-approved equivalent.

D. Stainless steel guide rails with a minimum diameter of two inches (2").

E. Stainless steel lifting cable, 5/16" dia, and shall have a stainless steel clevis hook at the connection to the pump. The steel lifting cable shall be

equipped with 1 foot diameter stainless steel ring (D ring or approved other) at no more than [15](#) foot intervals measured up from the pump. At the ring and clevis, the lifting cable shall be connected by a 1-foot loop - each side. Submit shop drawing for City review and approval.

- F. Stainless steel anchor bolts.
- G. Stainless steel bolt packs with full face gaskets inside the wet well.
- H. Explosion proof pumps, wiring and J-boxes
- I. Pipe and cam lock fitting to allow for bypass pumping.
- J. Variable frequency drives with harmonic filters shall be installed for pumps five horse power (5 hp) and larger
- K. All pumps shall be soft start pumps.

[L.](#) Pump controls to be pressure transducer based and have redundant float installation.

[L.M.](#) [Digital amperage gauges are required for each pump.](#)

5. Station Piping and Valves:

- A. Piping into and out of the lift station and valve vault shall be ductile iron for a minimum of 10 feet.
- B. Valves shall be resilient ball valves or resilient swing check valves. Manufacturer to be approved by City of Middleton. Isolation valves shall be one-quarter (1/4) turn resilient wedge plug valves, Mueller or City approved equivalent.
- C. Piping and valving shall be designed so there is positive drainage into the wetwell.
- D. Piping shall be Class 52 cement-lined ductile iron pipe with a fused calcium aluminate cement mortar lining (H₂Sewer Safe) as manufactured by Griffin Pipe Products meeting ANSI/AWWA standards

6. Site Requirements:

- A. A yard light with motion detector.
- B. A four inch (4") base of three-quarter inch (3/4") gravel compacted to ninety-five percent (95%).
- C. Site may be required to install [buffering](#) landscaping.

D. A fire hydrant within 50 feet and on the same street side of the lift station building.

D.E. A frost free hydrant shall be located at and adjacent to the wet well.

E.F. Control building if installed and as required, shall meet the following:

1. Pre manufactured or built in place construction; a concrete foundation with 2ft stem wall.
2. Minimum interior dimension of twelve feet by twelve feet (12'x12');
3. An interior light door light and an exterior motion light;
4. Adjustable and on/off interior heating
5. SCADA System antenna mounting supports.
6. Supports and mounts for the control system of the lift station.
7. Exterior walls shall be rock, brick or other fascia to four feet above grade to prevent staining and degradation of the building exterior walls.

F. Lift station slab shall be four inch (4") thick continuous fiber-mesh reinforced concrete slab.

G. A street light shall be provided adjacent to the access road to the lift station, as required and as applicable.

H. Access shall be surfaced with four inches (4") of three-quarter inch (3/4") gravel 15 feet wide

K. A post in concrete with stainless steel embedded socket as a anchor to attach a safety harness to while maintenance is being performed.

L. Yard shall be fenced using six foot (6') chain-link with privacy slats and topped with three strands of taught barbed wire as approved by the City. Two access gates shall be provided, one three foot (3') wide gate for people and one 14 foot wide vehicle gate, at locations approved by the City.

7. Controls:

- A. Control panel shall have a dead front enclosure.
- B. Submerged transducers with a sounding tube and suited for sewage,

supported with removable stainless steel cable system.

- C. Two floats. One float for emergency high level and one float for pump shutoff high level/low level.
- D. Programmable level control.
- E. Hands, off, and auto switches provided for each pump.
- F. Flow meters for each pump with flow display continuous.
- G. Accessible junction box above-ground with removable seal located on all cables entering the wet wells.
- H. Manual transfer switch with generator receptacle.
- I. 500 watt heater with thermostat in panel.
- J. High level / low level alarm light with manual reset.
- K. Outside alarm beacon illuminated when high level alarms occur.
- L. Auto - dialer with six (6) hour battery back-up.
- M. Underwriters Laboratory (UL) listed control panel matching pump manufacturer with full electronic read-out and gasketed cover on outer door.
- N. Laminated schematic on inside of front door with panel serial number.
- O. Night light for panel repair at site.
- P. Lift station shall be remote radio and City SCADA system control compatible.
- Q. Seal fail indication on each pump.

8. Spares Parts:

- A. Five (5) each spare fuses of each size.
- B. One (1) each spare relay of each size.
- C. One (1) each spare transducer and controller with cable.
- D. One (1) each spare pump matching exactly the pumps installed in the lift station

9. Local Service & Warranty:

Five (5) year pro-rated warranty on pumps and one (1) year on control panel.
Local factory authorized warranty repair facility within 50 miles of station location.

3. BACK-UP GENERATOR:

- A. A back-up generator shall be required and installed for all lift station to be dedicated to the City. For lift stations not owned and operated by the City, it is acceptable to provide a gas powered by-pass pump with the appropriate plumbing for a complete system.

APPENDIX B

Miscellaneous Drawings, Check Lists, Applications, and Requirements

City of Middleton
Pre-Construction Submittal Checklist

General Submittal Category	Submittal Sub-Category	Yes	No	NA
Water	Fire Hydrants			
	Flushing Hydrants			
	Blow-Offs			
	Pipe			
	Pipe Fittings			
	Pipe Valves and Boxes			
	Locating Wire			
	Service Lines			
	Service Saddles			
	Corporation Stops			
	Curb Stops			
	Meter Setter and Appurtenances			
	Meter Lids (single knockout)			
	Meter Vaults			
Gravity Sanitary Sewer	Pipe			
	MH Base, Section, and Cone			
	MH Ring and Cover			
	MH Boot			
	MH Joint Sealant Between Barrels and Cone (mastic, gasket, or con seal)			
	MH Joint Sealant Exterior Sealant (Vulkem 116)			
	Manhole Joint Exterior Wrap (EZ Wrap)			
	Marking Tape			
	Pipe			
	Fittings			

Pressure Sanitary Sewer	Locating Wire			
	Clean-Out			
Sewer Services	Service Line			
	Service Connection (tee or wye)			
Stormwater	BMPs			
	Pipe			
	MH Base, Section, and Cone			
	MH Ring and Cover			
	MH Boot			
	MH Joint Sealant Between Barrels and Cone (mastic, gasket, or con seal)			
	MH Joint Sealant Exterior Sealant (Vulkem 116)			
	Manhole Joint Exterior Wrap (EZ Wrap)			
	Geotextiles			
	Sand and Grease Trap			
	Catch basins			
Pressure Irrigation System	Irrigation Design			
	Pipe and Fittings			
	Service Pipe and Fittings			
	Valve Box			
	Irrigation Entity Approval Letter			
Street	Concrete Mix (fiber)			
	Asphalt Mix			
	Base Materials - 3/4"			
	Subbase Materials - Pitrun			
	Thermoplastics			
	Street Lights (LED)			
	Fiber Optic			
	Street Signs and Posts			

**City of Middleton
Post-Construction Submittal Checklist**

General Submittal Category	Submittal Sub-Category	Complete		
		Yes	No	NA
Water	Pressure Test			
	Bacteria Test			
	Continuity Test			
	Thrust Blocks Documentation			
	Trench Compaction Test			
Gravity Sanitary Sewer	TV Inspection (CD and Notes)			
	Air Test			
	Manhole Test			
	Trench Compaction Test			
Pressure Sanitary Sewer Pipe	Pressure Test			
	Continuity Test			
	Trench Compaction Test			
Sewer Services	Air Test (part of Gravity Sewer)			
Stormwater	TV Inspection (CD and Notes)			
	Air Test			
	Manhole Test			
	Trench Compaction Test			
Pressure Irrigation System	Pressure Test per ISPWC			
Street	Subgrade Compaction Test			
	Sub-base and Base Compaction Test			
	Curb Compaction Test			
	Sidewalk Compaction Test			
	Construction Notes/Logs			
	Construction Photos			

	Concrete Testing per ISPWC			
	Asphalt testing and cores			
Additional Documents	As-Built Drawings in CADD(3 copies)			
	Pressure Irrigation As-Built Drawings			
	Digital Plat			

CERTIFICATE OF COMPLETION

DATE OF ISSUANCE:

Project:

Development Owner:

Design Engineer:

The Work to which this Certificate applies has been received by a representative of the City of Middleton, and Work is hereby declared to be complete in accordance with the requirements set forth by the City and the City Engineer:

ITEMS REMAINING TO BE COMPLETED:

DATE OF COMPLETION

The City of Middleton recognizes this project as complete and all warranties shall start as of the above date of completion.

ACCEPTANCE OF THIS CERTIFICATE OF COMPLETION:

City of Middleton:

City Engineer: Civil Dynamics PC

By _____

Date

1103 W Main St.
Middleton ID 83644
(208) 585-3133

By _____

Date:

EXHIBIT “F”

**ORDINANCES OF THE CITY OF MIDDLETON
NOTICE OF ADOPTION AND SUMMARY OF
AMENDED AND RESTATED ORDINANCE NO 591**

AN ORDINANCE ENACTED BY THE MIDDLETON CITY COUNCIL AMENDING TITLE 1 OF THE MIDDLETON CITY CODE BY THE ADDITION OF A NEW CHAPTER, CHAPTER 20, SECTIONS 1-20-1 THROUGH 1-20-12, ADOPTING A TRANSPORTATION IMPACT FEE FOR THE CITY OF MIDDLETON; PROVIDING FOR AN EFFECTIVE DATE; PROVIDING FOR SEVERABILITY; AND REPEALING ALL ORDINANCES, RESOLUTIONS, ORDERS AND PARTS THEREOF, IN CONFLICT HERewith.

BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE CITY OF MIDDLETON, COUNTY OF CANYON, STATE OF IDAHO:

Section 1. Formally codify and make minor clerical edits to that previously adopted Ordinance No. 591 of the City of Middleton, which ordinance established traffic impact fees for the City of Middleton; and codifies the new traffic impact fee schedule by use category, which schedule was previously authorized and duly adopted by the City Council of the City of Middleton.

Sections 2 through 4. Provides that this ordinance shall be in full force and effect from and after its passage, approval, and publication, according to law; provides for severability; repeals conflicting ordinances, resolutions, and orders.

Amended and Restated Ordinance No. 591 provides an effective date, which shall be on the 20th day of October, 2021. Ordinance No. 591 was passed by the Council and approved by the Mayor on the 20th day of October, 2021. The full text of the Ordinance is available at Middleton City Hall, 1103 W Main St, Middleton, ID 83644. The Mayor and City Council approved the foregoing summary on the 3rd day of November, 2021, for publication on the 4th day of November, 2021, pursuant to Idaho Code § 50-901A.

Mayor Steve Rule

ATTEST: Becky Crofts, City Clerk

STATEMENT OF LEGAL ADVISOR

I have reviewed the foregoing summary and believe that it provides a true and complete summary of Amended and Restated Ordinance No. 591 and provides adequate notice to the public as to the contents of such ordinance.

DATED this 3rd day of November, 2021.

Douglas Waterman, Attorney for City of Middleton

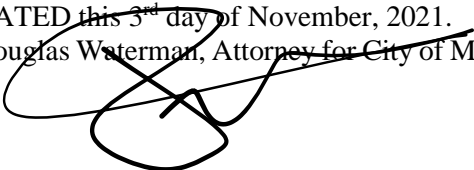


EXHIBIT “G”

ORDINANCE NO. 657

AN ORDINANCE ENACTED BY THE MIDDLETON CITY COUNCIL AMENDING TITLE 4, CHAPTER 1, SECTION 4-1-1, OF THE MIDDLETON CITY CODE, PERTAINING TO THE GENERAL REQUIREMENTS FOR BUILDING WITHIN THE CITY OF MIDDLETON; PROVIDING FOR AN EFFECTIVE DATE; PROVIDING FOR SEVERABILITY; AND REPEALING ALL ORDINANCES, RESOLUTIONS, ORDERS AND PARTS THEREOF, IN CONFLICT HEREWITH.

BE IT ORDAINED by the Mayor and Council of the City of Middleton, County of Canyon, State of Idaho:

Section 1. That Title 4, Chapter 1, Section 4-1-1 of the Middleton City Code is hereby amended as follows:

4-1-1: GENERAL REQUIREMENTS:

...

B. Certificate Of Occupancy: The building official shall not issue a certificate of occupancy for a building until all necessary subdivision infrastructure improvements have been constructed and accepted by the City, and debris has been removed from subdivision vacant lots. A certificate of occupancy ~~will~~ shall not be issued until any damage to public improvements or property by a contractor, subcontractor, owner, or builder has been ~~homebuilder is repaired at the home builder's~~ expense thereof. A contractor shall be responsible for damage caused by said contractor's subcontractor. A building/property owner shall be responsible for damage caused by said building/property owner's contractor.

...

Section 2. This ordinance shall be in full force and effect from and after its passage, approval, and publication, according to law.

Section 3. This ordinance is hereby declared to be severable. If any portion of this ordinance is declared invalid by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect and shall be read to carry out the purposes of the ordinance before the declaration of partial invalidity.

Section 4. All ordinances, resolutions, orders and parts thereof in conflict herewith are repealed.

PASSED BY THE COUNCIL OF THE CITY OF MIDDLETON, IDAHO, this ____ day of _____, 2021.

APPROVED BY THE MAYOR OF THE CITY OF MIDDLETON, IDAHO, this
____ day of _____, 2021.

ATTEST:

Steve Rule, Mayor

City Clerk (or Deputy)

EXHIBIT “H”

ORDINANCE NO. ~~_____~~**658**

AN ORDINANCE ENACTED BY THE MIDDLETON CITY COUNCIL AMENDING TITLE 7, CHAPTER 2, SECTION 7-2-9, OF THE MIDDLETON CITY CODE, CONCERNING THE REGULATION OF CESSPOOLS, SEPTIC TANKS, AND CARE OF SERVICE LINES; AMENDING TITLE 7, CHAPTER 2, BY THE ADDITION OF A NEW SECTION 7-2-10, TITLED USER RESPONSIBILITIES FOR SERVICE LINES; PROVIDING FOR AN EFFECTIVE DATE; PROVIDING FOR SEVERABILITY; AND REPEALING ALL ORDINANCES, RESOLUTIONS, ORDERS AND PARTS THEREOF, IN CONFLICT HEREWITH.

BE IT ORDAINED by the Mayor and Council of the City of Middleton, County of Canyon, State of Idaho:

Section 1. That Title 7, Chapter 2, Section 7-2-9 of the Middleton City Code is hereby amended as follows:

7-2-9: CESSPOOLS, SEPTIC TANKS PROHIBITED, ~~CARE OF SERVICE LINES:~~

A. Cesspools and septic tanks shall not be constructed upon property within three hundred feet (300') of any sanitary sewer line and old cesspools and septic tanks shall be discontinued and abandoned per health district specifications.

B. Privies, also known as outhouses, are expressly prohibited within the corporate limits of the City.

~~C. All service lines connected to the public sewer shall be maintained in good condition. The City shall have reasonable access for inspection to determine compliance with this provision. Upon notice of noncompliance, the legal owner of the premises concerned shall have one week to correct the deficiency, unless an extension is granted by the City.~~

Section 2. That Title 7, Chapter 2, of the Middleton City Code is hereby amended by the addition of a new section 7-2-10, USER RESPONSIBILITIES FOR SERVICE LINES, as follows:

7-2-10: USER RESPONSIBILITIES FOR SERVICE LINES:

A. Installation: The owner of any property connecting to the City sewer system is responsible for the installation, expense and risk associated with the construction and operation of the private service line. The private service line extends from the City owned sewer main line to and through the service line limits. The owner is also responsible for the installation, expense and risk of all other wastewater pipes, machinery, plumbing fixtures and apparatus within the property, which may be required for collecting, treating and discharging wastewater from the premises.

1. All work in the public right of way is to be done by a public works licensed contractor.

~~A.2.~~ The homeowner must secure a right of way permit from the City before any work in the public right of way.

B. Maintenance:

1. The owner shall be responsible, at owner's expense, for:
 - a. The cleaning, unstopping, maintenance and repair of the ~~private~~-service line, and shall keep the ~~private~~-service line, as well as all pipes, fixtures, appliances and apparatus on the property, watertight and in good working order to prevent discharge of combined wastewater or prohibited substances into the public sewer;
 - b. The replacement of any portion of the private service line which, in the opinion of the City Engineer, has become so damaged or disintegrated as to be unfit for further use, or is in such condition as to permit infiltration into the wastewater system or exfiltration of wastewater into the surrounding soil; and
 - c. The cleaning, unstopping and maintenance of ~~the public portion of the~~ private service line to remove rocks, roots and debris that originated from private property and settled into the private service line or the public service City sewer main line. ~~Repair of the public service line will be the responsibility of the City.~~
 2. All repairs shall be completed within thirty (30) days after the need for repair is known or written notification from the City. If the owner fails or refuses to complete repairs required by the department, the department may cause the repairs to be completed and charge the owner for the costs of such repairs. If the costs of the repairs are not paid by the owner they may be treated as any other delinquent service fees owed to the City.
- C. Liability: The City is not responsible for any loss or damage caused by negligence or want of care on the part of the owner, or the contractor of the owner, in installing, maintaining, using or operating private service lines, wastewater pipes, fixtures, appliances and apparatus. The owner shall hold the City harmless from any loss or damage that may be directly, or indirectly, occasioned by the installation or malfunction of any private service line or private appurtenances.
- D. Compliance: All users shall comply with the limitations and prohibitions placed on the discharge of wastewater from their premises by standards set by, or incorporated by reference in, this chapter, as well as all other requirements of this chapter. No user shall make, or permit another person to make, a connection to such user's private service line which would allow the discharge of wastewater from property not otherwise served by the City sewer system.
- E. Inspections and Authority: The City may inspect the equipment and facilities of any users at any reasonable time to ascertain compliance with applicable ordinances, rules and regulations. Persons or occupants of premises where wastewater is created or discharged shall allow department personnel ready access to the premises for the purposes of inspection, sampling, records examination and copying, and performance of their duties. The department shall have the right to set upon the user's property such devices as are necessary to conduct sampling, inspection, compliance monitoring and/or metering operations. Where a user has security measures in force which would require proper identification and clearance before entry into its premises, the user shall make the necessary arrangements with the security guards so that, upon presentation of suitable identification, department personnel will be permitted to enter without delay for the purposes of performing their specific responsibilities. While performing the necessary work on private property, department personnel shall observe all security and safety rules applicable to the premises, as established by the user.
- F. Refusal To Admit: If a duly authorized representative of the City is refused admission to a user's premises, the department may discontinue sewer service to the premises until the

department has been afforded reasonable access to the premises and private sewer system, so as to accomplish the inspection or sampling.

Section 3. This ordinance shall be in full force and effect on January 1, 2022, after its passage, approval, and publication, according to applicable law, including Idaho Code 50-203.

Section 4. This ordinance is hereby declared to be severable. If any portion of this ordinance is declared invalid by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect and shall be read to carry out the purposes of the ordinance before the declaration of partial invalidity.

Section 5. All ordinances, resolutions, orders and parts thereof in conflict herewith are repealed.

PASSED BY THE COUNCIL OF THE CITY OF MIDDLETON, IDAHO, this ____ day of _____, 2021.

APPROVED BY THE MAYOR OF THE CITY OF MIDDLETON, IDAHO, this ____ day of _____, 2021.

ATTEST:

Steve Rule, Mayor

City Clerk (or Deputy)