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DEPARTMENT OF
WATER RESOURCES

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September 5, 2017

Via Hand Delivery and email

Shelley W. Keen
Water Right Section Manager
Idaho Department of Water Resources
The Idaho Water Center
322 E Front St
Boise, ID 83702
shelley.keen@idwr.idaho.gov

Re: City of Nampa – Water Right No. 63-32835

Dear Shelley:

On behalf of the City of Nampa, I extend thanks to you, Manuel Rauhut, and Erik Boe for meeting with me, Nate Runyan, and Roxanne Brown on July 7, 2017 to discuss the pending licensing of Water Right No. 63-32835.

Let me begin by briefly re-capping the history of this permit. This right is permitted for 5.00 cfs. The Beneficial Use Field Report (which the City is prepared to submit at any time) will show the installed capacity at 4.94 cfs.

As we have discussed, the City has historically operated separate potable (domestic) and non-potable (irrigation) delivery systems for its municipal water right. In 2014, the City began the process of integrating these two systems. This allows, for instance, water from wells historically associated with the potable delivery system to be delivered to the non-potable system for use during the shoulder season and other times when insufficient water is available from ground and surface supplies historically associated with the non-potable system.

This right was permitted in 2009 as a RAFN right (for “reasonably anticipated future needs”) with a 21-year planning horizon ending on December 21, 2030. The future demand was calculated for the City by CH2M Hill based solely on potable system demand.

Subsequently, the City retained Keller Associates to prepare Nampa’s *Water System Master Plan* (Sept. 2014). The *Water System Master Plan* (which covers only the potable system) revised and lowered the future demand projections for the potable system. This reduction was due to a number of factors, most notably, the intervening Great Recession, which significantly pulled down future demand over this relatively short planning horizon.

While the City has ample ground water rights today to serve potable system demand through the year 2030, the City has unmet needs today on its non-potable delivery. Accordingly, the City has been working to provide documentation of demand based on its combined potable and non-potable systems in order to satisfy the licensing requirements in Idaho Code § 42-217 (as described in your memorandum to the file dated Aug. 25, 2016).

On February 21, 2017, the City’s consultant, Roxanne Brown of SPF Water Engineering, sent you an email describing the interconnections made to date. In our meeting on July 7, 2017, you noted that the City needs to document progress toward the interconnection that occurred by the end of the development period (September 28, 2015). I write today to provide that documentation:

- The *Irrigation Master Plan* by Keller Associates dated May 2014 identifies the category “Install Cross Connections” as ID# 1.17 in Appendix C.1 (Capital Improvement Plan Cost Details). It identifies a cost of \$138,000 for this item.
- City Council Minutes dated August 18, 2014 approving the budget for interconnections outlined in the *Irrigation Master Plan*.
- A set of “Cross Connection Concept Drawings” prepared by Keller Associates dated January 2015. These identify and describe multiple interconnections between the City’s potable and non-potable systems.
- City Council Minutes dated September 21, 2015 approving “a request to award the bid and authorize the Mayor to sign contract for irrigation cross-connection materials purchase.”
- A Technical Memo by Keller Associates (from James Bledsoe to Michael Fuss) dated August 21, 2015 states at page 2: “The City is also moving forward with installation of cross-connections with the water system at strategic locations.”

Shelley W. Keen
September 5, 2017
Page 3 of 3

Copies of each of these documents are included as enclosures to this letter. In order to reduce the volume of your file, I am including only the cover page, table of contents, and Exhibit C.1 of the *Irrigation Master Plan*. If you would like the entire document (nearly an inch thick), I would be pleased to provide it.

Although these interconnections were not physically made until 2016 and 2017, the documentation above shows that the City was moving forward and fully committed to the connections by the close of the development period. The City would be pleased to provide further explanation or documentation, as you may require.

In the event the Department determines that this documentation cannot satisfy the requirements for "system capacity" for RAFN licensing, as described in the Department's guidance (*Application Processing No. 74* dated Nov. 13, 2013), the City asks that No. 63-32835 be licensed as a non-RAFN right with a combined use condition to prevent injury.

The City has worked diligently to provide this information within 60 days, as you requested at our meeting of July 7, 2017. Doing so has entailed multiple conferences and communications. I trust this letter satisfies the requirement and deadline set out in the Lapse Notice of July 7, 2017 for the City to seek reinstatement of the permit.

The City looks forward to hearing from you further on this. Again, let me thank you and all of the IDWR staff for your assistance in bringing this licensing process to a successful conclusion.

Sincerely,



Christopher H. Meyer

Encl: Each of the items identified in the bullet points above

cc: Michael J. Fuss, Director, Public Works Department, City of Nampa
Nate W. Runyan, Deputy Director, Public Works Department, City of Nampa
Roxanne Brown, Water Rights Specialist, SPF Water Engineering

City of Nampa, Idaho



Irrigation Master Plan



May 2014 – Final





Irrigation Master Plan



Keller Associates
131 SW 5th Avenue, Suite A
Meridian, Idaho 83642

213051/4/14-110



Signed by:
James Bledsoe, P.E.
Project Manager

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Appendix C

Cost Information

- C.1: Capital Improvement Plan Cost Details
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- C.3: Storage Alternatives
- C.4: 8-Year CIP Summary

C.1:
Capital Improvement
Plan Cost Details

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Capital Improvement Plan

ID#	Item	Cost*
Priority 1 Improvements (2014 - 2017)		
1.1	Phyllis Canal Crossing on Birch Lane	\$ 85,000
1.2A	Southside PRV and Parallel Line	\$ 111,000
1.2B	Happy Valley Supply and Locust 12-inch Pipeline	\$ 1,550,000
1.3	Cherry Pump Station and Pipeline; Idaho Center Pipeline	\$ 1,147,000
1.4	Return Pheasant Hollow Station to Service	\$ 107,000
1.5	Install Greys Lane PRVs (2) and Associated Pipeline	\$ 309,000
1.6	Dooley Lane PRV	\$ 36,000
1.7	Southside PRV	\$ 63,000
1.8	Sunny Ridge PRV and Pipeline	\$ 422,000
1.9	Midland PRV	\$ 63,000
1.10	South Kings Road Pipeline	\$ 289,000
1.11	Greenhurst Pipeline North of Skyview High School	\$ 176,000
1.12	Franklin Road Pipeline	\$ 261,000
1.13	Midland Supply and Transmission Pipeline	\$ 927,000
1.14	Tio Lane Supply and Pipeline; Burk Lane Pipeline	\$ 1,071,000
1.15	Happy Valley Pipeline	\$ 162,000
1.16	14th Ave Railroad Crossing	Currently Under Construction
1.17	Install Cross Connections	\$ 138,000
1.18	Asbury Park/Crestwood and Moss Point Intertie	\$ 58,000
1.19	12 Pump Station Filter Upgrades (>1,500 gpm pumps)	\$ 784,000
1.20	23 Pump Station SCADA Upgrades (>1,000 gpm pumps)	\$ 376,000
Total Priority 1 Improvements		\$ 8,135,000
Priority 2 Improvements (2017 - 2022)		
2.1	Iowa Avenue Supply and Pipeline	\$ 1,103,000
2.2	Upper Zone Intertie; Midland and Greenhurst PRVs	\$ 1,253,000
2.3	Cherry Lane and 11th Avenue Pipeline	\$ 683,000
2.4	Connect North Pressure Zones; Pipeline between Costco & East System	\$ 1,579,000
2.5	Franklin Supply; Linden and Franklin Pipelines	\$ 1,874,000
2.6	Franklin Pipeline	\$ 117,000
2.7	Orchard Ave Pipeline	\$ 353,000
2.8	Flamingo Ave Pipeline	\$ 35,000
2.9	Install Pipeline on Orchard Ave	\$ 45,000
2.10	1st Street Supply	\$ 735,000
2.11	W Locust Ln Pipeline	\$ 407,000
2.12	20 Pump Station SCADA Upgrades (500 - 1,000 gpm pumps)	\$ 327,000
Total Priority 2 Improvements		\$ 8,511,000
Priority 3 Improvements (by 2030)		
3.1	Iowa Ave Supply and Pipeline	\$ 1,148,000
3.2	Cherry Ln Supply and Pipeline	\$ 1,591,000
3.3	14th Ave North Pipeline	\$ 639,000
3.4	Kings Rd Supply and Pipeline	\$ 1,285,000
3.5	Karcher Rd Pipeline	\$ 481,000
3.6	11th Ave North Supply and Pipeline	\$ 1,157,000
3.7	Cherry Lane Pipeline	\$ 667,000
3.8	Franklin Blvd Pipeline	\$ 88,000
3.9	Pipeline Between Happy Valley Rd and Brenan St	\$ 228,000
3.10	Madison Rd Pipeline	\$ 1,415,000
3.11	South Powerline Rd Supply and Pipeline	\$ 1,551,000
3.12	S Midland Blvd Supply and Pipeline	\$ 1,421,000
3.13	Meyers Pump Station Upgrades	\$ 126,000
3.14	Amity Ave Supply and Pipeline	\$ 1,565,000
Total Priority 3 Improvements		\$ 13,362,000

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Priority 4 Improvements (by 2040)		
4.1	Sunnyridge Rd Pipeline North of Greenhurst	\$ 128,000
4.2	Middleton Rd Supply	\$ 826,000
4.3	Karcher Rd Supply	\$ 791,000
4.4	Smith Ave Supply and Pipeline	\$ 824,000
4.5	8th St N Supply	\$ 826,000
4.6	Happy Valley Rd Pipeline	\$ 1,498,000
4.7	Midland Blvd and Locust Ln Pipelines	\$ 727,000
4.8	E Karcher Pipeline	\$ 825,000
4.9	Amity Ave Pipeline and PRV	\$ 570,000
4.10	Locust Lane Supply & Pipeline	\$ 2,116,000
4.11	N Sugar St Pipeline	\$ 311,000
4.12	Chicago St Pipeline	\$ 569,000
4.13	Southside Blvd Pipeline	\$ 567,000
4.14	Greenhurst Rd near 12th Avenue Rd	\$ 291,000
4.15	Sherman Ave and Florence Ct Pipelines	\$ 340,000
4.16	Pipeline between Elder St and Connecticut, and on Sharons Way	\$ 112,000
4.17	W Iowa Ave and 12th Avenue Rd Pipelines	\$ 198,000
4.18	Dewey and S University Blvd Pipelines	\$ 361,000
4.19	Kings Rd Pipeline	\$ 302,000
4.20	Georgia Ave Pipeline near Southside Blvd	\$ 21,000
4.21	Roosevelt Blvd Supply, along Elijah Drain	\$ 761,000
Total Priority 4 Improvements		\$ 12,964,000
Future Pipeline Projects (Costs = 1.5x Upsize Cost)		
N-W	North Map, West Side - 11,200 feet of pipe	\$ 287,925
N-N	North Map, North Side - 32,000 feet of pipe	\$ 528,000
N-E	North Map, East Side - 82,500 feet of pipe	\$ 1,361,250
S-NW	South Map, Northwest Side - 28,500 feet of pipe	\$ 470,250
S-SW	South Map, Southwest Side - 23,300 feet of pipe	\$ 384,450
S-E	South Map, East Side - 42,400 feet of pipe	\$ 699,600
Total Future Improvements		\$ 3,731,000

* All costs in 2014 Dollars. Costs include engineering and contingencies.

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. Keller Associates has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. Keller Associates cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

ITEM	UNIT	UNIT PRICE*
Pipe		
6-inch Pipe - Excavation, Backfill, Valves	LF	\$40
8-inch Pipe - Excavation, Backfill, Valves	LF	\$55
12-inch Pipe - Excavation, Backfill, Valves	LF	\$75
Complex PRV w/ Vault	LS	\$35,000
Simple PRV w/ Vault	LS	\$15,000
Surface Water Supply	LS	\$395,000
Ground Water Supply	LS	\$410,000
Lean Concrete Trench Backfill Under ITD Roadways	LF	\$50
Existing Utility Protection	LF	\$4
Major Canal Crossing	LS	\$25,000
Canal Crossing	EA	\$10,000
Bore Crossing (assumes 24" casing)	LF	\$350
Traffic Control - Without Flagging	LF	\$4
Traffic Control - With Flagging	LF	\$8
Full Lane Pavement Repair	LF	\$35
1/2 Lane Pavement Repair	LF	\$20
HWY Repair	LF	\$65
Miscellaneous Surface Repair	LF	\$5
Permitting	LS	\$4,000
Easement	LF	\$15
Mobilization - Percent of Item Cost Sum	%	6%
Contingency - % of construction costs	%	30%

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Pump Costs		
ITEM	UNIT	UNIT PRICE
Surface Pump		
Pump and Motor	EA	\$ 85,000
Wet Well (incl. excavation, backfill, covers and hatches)	EA	\$ 50,000
Filter (incl. valves, installation, electrical)	EA	\$ 40,000
Intake and Discharge piping	EA	\$ 10,000
Electrical (incl. VFD, harmonic filter, etc)	EA	\$ 65,000
Mechanical Piping/Valving (incl. flowmeter and pressure trans.)	EA	\$ 25,000
HVAC & Associated Electric	EA	\$ 20,000
SCADA	EA	\$ 10,000
Building and Sitework	EA	\$ 80,000
Discharge Piping	EA	\$ 10,000
TOTAL		\$ 395,000
Land Acquisition	LS	\$ 50,000
Permitting	LS	\$ 5,000
Ground Pump		
Vertical Turbine Pump and Motor	EA	\$ 95,000
Well Drilling	EA	\$ 100,000
Electrical (incl. VFD, harmonic filter, etc)	EA	\$ 65,000
Mechanical Piping/Valving (incl. flowmeter and pressure trans.)	EA	\$ 25,000
HVAC & Associated Electric	EA	\$ 25,000
SCADA	EA	\$ 10,000
Building and Sitework	EA	\$ 80,000
Discharge Piping	EA	\$ 10,000
TOTAL		\$ 410,000
Land Acquisition	LS	\$ 50,000
Permitting	LS	\$ 15,000

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Irrigation Capital Improvements Project Phyllis Canal Crossing on Birch Lane

Project Identifier: 1.1

Objective: Construct a 12-inch intertie between separate systems. Connection adds redundancy and allows groundwater supply near Idaho Center to be used west of Phyllis Canal during drought conditions.

Potential Issues:

- Canal crossing spans two irrigation districts (Coordination with irrigation districts required)
- Attach pipeline to bridge or construct parallel to bridge to avoid bore costs
- Easements may be required if pipeline placed outside of right-of-way

Project Location: Birch Ln, west of N Idaho Center Blvd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	200	\$ 15,000
Existing Utility Protection	LF	\$ 4	200	\$ 800
Traffic Control - With Flagging	LF	\$ 8	200	\$ 1,600
1/2 Lane Pavement Repair	LF	\$ 20	150	\$ 3,000
Major Canal Crossing	LS	\$ 25,000	1	\$ 25,000
Subtotal				\$ 45,400
Mobilization - Percent of Item Cost Sum	%	6%		\$ 2,724
Contingency - % of construction costs	%	30%		\$ 13,620
Total Construction Costs				\$ 61,744
Permitting	LS	\$ 4,000	1	\$ 4,000
Engineering and CMS - % of construction costs	%	30%		\$ 18,523
Total Project Cost (rounded)				\$85,000

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Irrigation Capital Improvements Project Southside PRV and Parallel Line

Project Identifier: 1.2A

Objective: Install a PRV and pipeline and transfer Oakhurst station from the upper zone to the lower zone. Doing so will alleviate low pressures (<35 psi) in the low zone.

Potential Issues:

- This project needs to be coordinated with the addition of more supply capacity into the upper zone (e.g. Project 1.2B)
- Pipeline creates parallel pipelines in low and high pressure zones
- Two canal crossings (Elijah Drain & South Nampa Lateral)

Project Location: Intersection of E Greenhurst Rd and Southside Blvd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	375	\$ 28,125
Existing Utility Protection	LF	\$ 4	375	\$ 1,500
Miscellaneous Surface Repair	LF	\$ 5	275	\$ 1,375
Bore Crossing (assumes 24" casing)	LF	\$ 350	100	\$ 35,000
Simple PRV w/ Vault	LS	\$ 15,000	1	\$ 15,000
Subtotal				\$ 81,000
Mobilization - Percent of Item Cost Sum	%	6%		\$ 4,860
Contingency - % of construction costs	%	30%		\$ 24,300
Total Construction Costs				\$ 110,160
Permitting	EA	\$6,000	1	\$ 6,000
Engineering and CMS - % of construction costs	%	30%		\$ 33,048
Total Project Cost (rounded)				\$150,000

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. Keller Associates has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. Keller Associates cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.

Irrigation Capital Improvements Project
Happy Valley Supply and Locust Ln
12-inch Pipeline

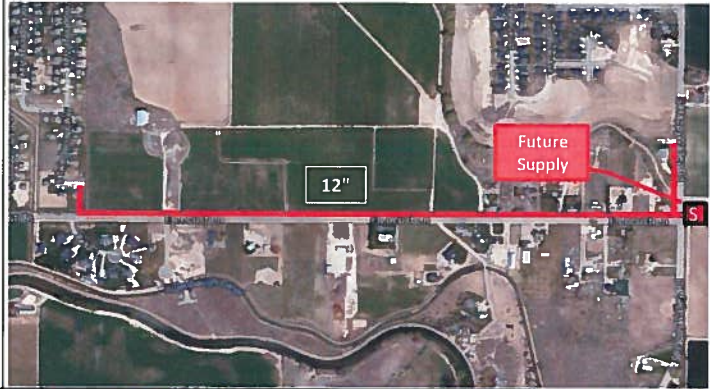
Project Identifier: 1.2B

Objective: Install a 1,500+ gpm surface water supply and 12-inch pipe to connect the subdivisions on Happy Valley Road and Locust Lane. This improvement will increase supply and to provide needed pressures (>35 psi) and allow Oakhurst pump station to divert to lower pressure zone. Pipeline on Locust also mitigates high velocities (>8 fps) by improving distribution.

Potential Issues:

- Water rights / entitlements
- Could be coordinated with development
- Pipeline potentially could be located in shoulder for cost savings

Project Location:
Locust Lane and S Happy Valley Rd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	4900	\$ 367,500
Surface Water Supply	LS	\$ 395,000	1	\$ 395,000
Existing Utility Protection	LF	\$ 4	4900	\$ 19,600
Traffic Control - With Flagging	LF	\$ 8	650	\$ 5,200
1/2 Lane Pavement Repair	LF	\$ 20	4650	\$ 93,000
Traffic Control - Without Flagging	LF	\$ 4	4000	\$ 16,000
Miscellaneous Surface Repair	LF	\$ 5	250	\$ 1,250
Canal Crossing	EA	\$ 10,000	1	\$ 10,000
Subtotal				\$ 907,550
Mobilization - Percent of Item Cost Sum	%	6%		\$ 54,453
Contingency - % of construction costs	%	30%		\$ 272,265
Total Construction Costs				\$ 1,234,268
Land Acquisition	LS	\$ 50,000	1	\$ 50,000
Permitting	LS	\$ 15,000	1	\$ 15,000
Engineering and CMS - % of construction costs	%	20%		\$ 246,854
Total Project Cost (rounded)				\$1,550,000

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. Keller Associates has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. Keller Associates cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.

Irrigation Capital Improvements Project
Cherry Pump Station and Pipeline; Idaho
Center Pipeline

Project Identifier: 1.3

Objective: Install a 1,500+ gpm ground water supply and 12-inch pipeline along Cherry Lane and Idaho Center Blvd. This improvement will improve redundancy in the north system, and mitigate drought conditions (<20 psi under average day demands).

Potential Issues:

- Water rights and permitting
- Supply site located adjacent to two irrigation districts. Could potentially be considered for surface supply, however another groundwater source is recommended in this region.
- Coordinate pipeline on Idaho Center Blvd with roadwork project that could happen in 2015.

Project Location:
Cherry Ln and Idaho Center Blvd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	2250	\$ 168,750
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000
Traffic Control - With Flagging	LF	\$ 8	2200	\$ 17,600
1/2 Lane Pavement Repair	LF	\$ 20	2200	\$ 44,000
Canal Crossing	EA	\$ 10,000	2	\$ 20,000
Subtotal				\$ 660,350
Mobilization - Percent of Item Cost Sum	%	6%		\$ 39,621
Contingency - % of construction costs	%	30%		\$ 198,105
Total Construction Costs				\$ 898,076
Land Acquisition	LS	\$ 50,000	1	\$ 50,000
Permitting	LS	\$ 19,000	1	\$ 19,000
Engineering and CMS - % of construction costs	%	20%		\$ 179,615
Total Project Cost (rounded)				\$1,147,000

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Irrigation Capital Improvements Project
Return Pheasant Hollow Station to Service

Project Identifier: 1.4

Objective: Return Pheasant Hollow pump to service, which would mitigate drought conditions and high velocities (>8 fps).

Potential Issues:

- City wants to test pump before putting into service
- Motor & pump need to be replaced

Project Location:
Near intersection of E Greenhurst Rd and S Marcum Way



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
Test Pump	EA	\$ 10,000	1	\$ 10,000
Pump & Motor (30 hp)	EA	\$ 45,000	1	\$ 45,000
SCADA	EA	\$ 10,000	1	\$ 10,000
Subtotal				\$ 65,000
Mobilization - Percent of Item Cost Sum	%	6%		\$ 3,900
Contingency - % of construction costs	%	30%		\$ 19,500
Total Construction Costs				\$ 88,400
Engineering and CMS - % of construction costs	%	20%		\$ 17,680
Total Project Cost (rounded)				\$107,000

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Irrigation Capital Improvements Project Install Greys Lane PRVs (2) and Associated Pipeline

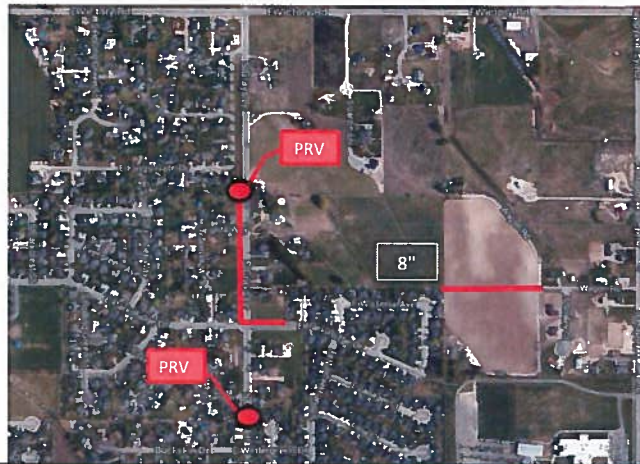
Project Identifier: 1.5

Objective: Install two PRVs to expand upper pressure zone and isolate pressure zone. Install 8-inch pipelines. Doing so will alleviate low pressures (<35 psi). Note that improvements require that Amity pump station be dedicated to upper pressure zone with supply subsidizing lower pressure zone via PRV during peak demand periods.

Potential Issues:

- Obtaining easement on existing farmland

Project Location: S Greys Ln, with pipelines shown



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	1850	\$ 101,750
Simple PRV w/ Vault	LS	\$ 15,000	1	\$ 15,000
Complex PRV w/ Vault	LS	\$ 35,000	1	\$ 35,000
Existing Utility Protection	LF	\$ 4	1175	\$ 4,700
Traffic Control - With Flagging	LF	\$ 8	1175	\$ 9,400
1/2 Lane Pavement Repair	LS	\$ 20	1175	\$ 2,000
Miscellaneous Surface Repair	LF	\$ 5	675	\$ 3,375
Easement	LF	\$ 15	675	\$ 10,125
Subtotal				\$ 181,350
Mobilization - Percent of Item Cost Sum	%	6%		\$ 10,881
Contingency - % of construction costs	%	30%		\$ 54,405
Total Construction Costs				\$ 246,636
Engineering and CMS - % of construction costs	%	25%		\$ 61,659
Total Project Cost (rounded)				\$309,000

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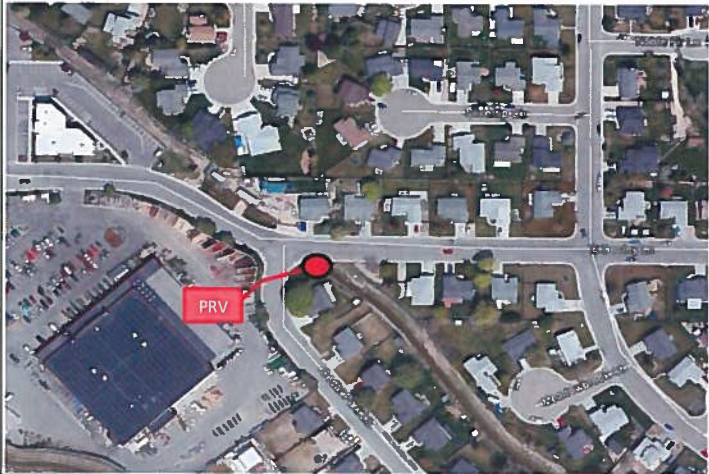
Irrigation Capital Improvements Project Dooley Lane PRV

Project Identifier: 1.6

Objective: Install a PRV on E Dooley Lane. Doing so will alleviate low pressures (<35 psi), better control pipeline pressures, and differentiate between pressure zones.

Potential Issues:

Project Location: E Dooley Ln and Meadowbrook Dr.



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
Simple PRV w/ Vault	LS	\$ 15,000	1	\$ 15,000
Traffic Control - With Flagging	LS	\$ 1,500	1	\$ 1,500
1/2 Lane Pavement Repair	LS	\$ 2,000	1	\$ 2,000
Subtotal				\$ 18,500
Mobilization - Percent of Item Cost Sum	%	6%		\$ 1,110
Contingency - % of construction costs	%	30%		\$ 5,550
Total Construction Costs				\$ 25,160
Engineering and CMS - % of construction costs	%	40%		\$ 10,064
Total Project Cost (rounded)				\$36,000

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Irrigation Capital Improvements Project Southside PRV

Project Identifier: 1.7

Objective: Install a PRV on Southside Blvd. Doing so will alleviate low pressures (<35 psi), better control pipeline pressures, and differentiate between pressure zones.

Potential Issues:

- High traffic roadway. Try to located PRV outside of travel lane.

Project Location: Southside Blvd and Commanche St



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
Complex PRV w/ Vault	LS	\$ 35,000	1	\$ 35,000
Traffic Control - With Flagging	LS	\$ 1,500	1	\$ 1,500
1/2 Lane Pavement Repair	LS	\$ 2,000	1	\$ 2,000
Subtotal				\$ 38,500
Mobilization - Percent of Item Cost Sum	%	6%		\$ 2,310
Contingency - % of construction costs	%	30%		\$ 11,550
Total Construction Costs				\$ 52,360
Engineering and CMS - % of construction costs	%	20%		\$ 10,472
Total Project Cost (rounded)				\$63,000

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Irrigation Capital Improvements Project Sunnyridge PRV and Pipeline

Project Identifier: 1.8

Objective: Install 12-inch pipeline and PRV. Doing so will help keep pressure zones isolated, while allowing the excess capacity at the Sunny Ridge pump station to service the lower pressure zone during periods of high demands (maintain >35 psi). Pipeline also can provide service for adjacent development.

Potential Issues:

- Rock
- High traffic roadway. Try to locate PRV outside of travel lane
- Coordinate with pavement management program and new development for potential cost savings

Project Location: Sunny Ridge Rd, south of E Greenhurst Rd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	1900	\$ 142,500
Complex PRV w/ Vault	LS	\$ 35,000	1	\$ 35,000
Existing Utility Protection	LF	\$ 4	1900	\$ 7,600
Traffic Control - With Flagging	LF	\$ 8	1900	\$ 15,200
1/2 Lane Pavement Repair	LF	\$ 20	1900	\$ 38,000
Rock Costs	LF	\$ 40	500	\$ 20,000
Subtotal				\$ 258,300
Mobilization - Percent of Item Cost Sum	%	6%		\$ 15,498
Contingency - % of construction costs	%	30%		\$ 77,490
Total Construction Costs				\$ 351,288
Engineering and CMS - % of construction costs	%	20%		\$ 70,258
Total Project Cost (rounded)				\$422,000

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Irrigation Capital Improvements Project Midland PRV

Project Identifier: 1.9

Objective: Install a PRV on S Midland Blvd to better control pressures, while allowing excess capacity of the upper pressure zone to supplement demands in the lower pressure zone (maintain >35 psi).

Potential Issues:

- High traffic Area. Try to locate PRV outside of travel lane

Project Location: S Midland Blvd, north of W Maryland Ave



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
Complex PRV w/ Vault	LS	\$ 35,000	1	\$ 35,000
Traffic Control - With Flagging	LS	\$ 1,500	1	\$ 1,500
Full Lane Pavement Repair	LS	\$ 2,000	1	\$ 2,000
Subtotal				\$ 38,500
Mobilization - Percent of Item Cost Sum	%	6%		\$ 2,310
Contingency - % of construction costs	%	30%		\$ 11,550
Total Construction Costs				\$ 52,360
Engineering and CMS - % of construction costs	%	20%		\$ 10,472
Total Project Cost (rounded)				\$63,000

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Irrigation Capital Improvements Project South Kings Road Pipeline

Project Identifier: 1.10

Objective: Install 12-inch pipe on E Victory Road and South Kings Road to alleviate low pressures (<35 psi) to the west.

Potential Issues:

- Coordinate with pavement management work and new development for potential cost savings

Project Location: E Victory Rd and South Kings Road



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	1650	\$ 123,750
Existing Utility Protection	LF	\$ 4	1650	\$ 6,600
Traffic Control - With Flagging	LF	\$ 8	1650	\$ 13,200
1/2 Lane Pavement Repair	LF	\$ 20	1650	\$ 33,000
Subtotal				\$ 176,550
Mobilization - Percent of Item Cost Sum	%	6%		\$ 10,593
Contingency - % of construction costs	%	30%		\$ 52,965
Total Construction Costs				\$ 240,108
Engineering and CMS - % of construction costs	%	20%		\$ 48,022
Total Project Cost (rounded)				\$289,000

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Irrigation Capital Improvements Project
Greenhurst Pipeline North of Skyview High School

Project Identifier: 1.11

Objective: Install 8-inch pipe on E Greenhurst Road to alleviate low pressures (<35 psi).

Potential Issues:

- Coordinate with pavement management work for potential cost savings
- Complete work during summer months to minimize disruption to high school

Project Location:
E Greenhurst Rd and S Powerline Rd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	950	\$ 52,250
Existing Utility Protection	LF	\$ 4	950	\$ 3,800
Traffic Control - With Flagging	LF	\$ 8	950	\$ 7,600
1/2 Lane Pavement Repair	LF	\$ 20	950	\$ 19,000
Subtotal				\$ 82,650
Mobilization - Percent of Item Cost Sum	%	6%		\$ 4,959
Contingency - % of construction costs	%	30%		\$ 24,795
Total Construction Costs				\$ 112,404
Engineering and CMS - % of construction costs	%	20%		\$ 22,481
Total Project Cost (rounded)				\$135,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project
Franklin Road Piping

Project Identifier: 1.12

Objective: Install 12-inch pipe on Franklin Road to alleviate low pressures (<20 psi with any pump offline under max day) and high velocities (>8 fps).

Potential Issues:

- Coordinate with pavement management program and new development for potential cost savings

Project Location:
Franklin Rd near Cherry Ln



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	1400	\$ 105,000
Existing Utility Protection	LF	\$ 4	1400	\$ 5,600
Traffic Control - With Flagging	LF	\$ 8	1400	\$ 11,200
1/2 Lane Pavement Repair	LF	\$ 20	1400	\$ 28,000
Canal Crossing	EA	\$ 10,000	1	\$ 10,000
Subtotal				\$ 159,800
Mobilization - Percent of Item Cost Sum	%	6%		\$ 9,588
Contingency - % of construction costs	%	30%		\$ 47,940
Total Construction Costs				\$ 217,328
Engineering and CMS - % of construction costs	%	20%		\$ 43,466
Total Project Cost (rounded)				\$261,000

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Irrigation Capital Improvements Project Midland Supply and Transmission Pipeline

Project Identifier: 1.13

Objective: Install a 1,500+ gpm ground water supply and 12-inch pipe on S Midland Blvd. This improvement will increase supply and mitigate low pressures during drought conditions (<20 psi under average day demands).

Potential Issues:

- Flexibility in location of well; should evaluate with computer modeling.
- Coordinate with pavement management program and new development for potential savings

Project Location: S Midland Blvd, north of W Iowa Ave



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	1100	\$ 82,500
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000
Existing Utility Protection	LF	\$ 4	1100	\$ 4,400
Traffic Control - With Flagging	LF	\$ 8	1100	\$ 8,800
1/2 Lane Pavement Repair	LF	\$ 20	1100	\$ 22,000
Subtotal				\$ 527,700
Mobilization - Percent of Item Cost Sum	%	6%		\$ 31,662
Contingency - % of construction costs	%	30%		\$ 158,310
Total Construction Costs				\$ 717,672
Land Acquisition	LS	\$ 50,000	1	\$ 50,000
Permitting	LS	\$ 15,000	1	\$ 15,000
Engineering and CMS - % of construction costs	%	20%		\$ 143,534
Total Project Cost (rounded)				\$927,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

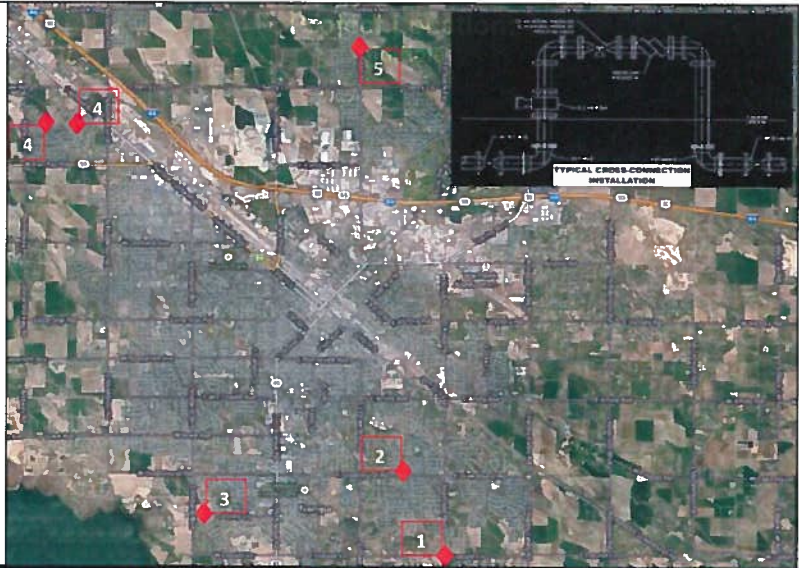
Irrigation Capital Improvements Project

Install Cross Connections

Project Identifier: 1.17

Objective: Install cross connections in multiple locations throughout the pressure irrigation system. Doing so will mitigate drought conditions.

Potential Issues:



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
1- Southside and Alma Lane	LS	\$ 14,000	1	\$ 14,000
2- Greenhurst near Nampa to Stoddard Trail	LS	\$ 14,000	1	\$ 14,000
3- Dooley and Raintree Drive	LS	\$ 14,000	1	\$ 14,000
4- Moss Lane & Asbury Park	EA	\$ 14,000	2	\$ 28,000
5- Franklin near Judith Avenue	LS	\$ 14,000	1	\$ 14,000
Subtotal				\$ 84,000
Mobilization - Percent of Item Cost Sum	%	6%		\$ 5,040
Contingency - % of construction costs	%	30%		\$ 25,200
Total Construction Costs				\$ 114,240
Engineering and CMS - % of construction costs	%	20%		\$ 22,848
Total Project Cost (rounded)				\$138,000

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Irrigation Capital Improvements Project Iowa Avenue Supply and Pipeline

Project Identifier: 2.1

Objective: Install a 1,500+ gpm ground water supply and 12-inch pipe on Iowa Avenue. This improvement will increase supply and mitigate low pressures during drought conditions (<20 psi under average day demands) for projected 2020 demands.

Potential Issues:

- Coordinate with pavement management program and new development for potential cost savings

Project Location: Iowa Ave, west of S Middleton Rd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	2000	\$ 150,000
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000
Existing Utility Protection	LF	\$ 4	2000	\$ 8,000
Traffic Control - Without Flagging	LF	\$ 4	2000	\$ 8,000
1/2 Lane Pavement Repair	LF	\$ 20	2000	\$ 40,000
Canal Crossing	EA	\$ 10,000	1	\$ 10,000
Subtotal				\$ 626,000
Mobilization - Percent of Item Cost Sum	%	6%		\$ 37,560
Contingency - % of construction costs	%	30%		\$ 187,800.00
Total Construction Costs				\$ 851,360
Land Acquisition	LS	\$ 50,000	1	\$ 50,000
Permitting	LS	\$ 15,000	1	\$ 15,000
Engineering and CMS - % of construction costs	%	20%		\$ 170,272
Total Project Cost (rounded)				\$1,087,000

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Irrigation Capital Improvements Project Upper Zone Intertie; Midland and Greenhurst PRVs

Project Identifier: 2.2

Objective: Install two PRVs to intertie the upper and lower pressure zones and install a 12-inch pipeline to connect the isolated portions of the upper pressure zone. Doing so will alleviate low pressures (<35 psi) and improve redundancy for projected 2020 demands.

Potential Issues:

- Potential to coordinate portion of pipeline with new development along Greenhurst
- Coordinate with pavement management program and new development for potential cost savings

Project Location: **S Middleton Rd and W Greenhurst Rd**



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	7000	\$ 525,000
Simple PRV w/ Vault	LS	\$ 15,000	2	\$ 30,000
Existing Utility Protection	LF	\$ 4	3000	\$ 12,000
Traffic Control - With Flagging	LF	\$ 8	3100	\$ 24,800
Traffic Control - Without Flagging	LF	\$ 4	3900	\$ 15,600
1/2 Lane Pavement Repair	LF	\$ 20	7000	\$ 140,000
Canal Crossing	EA	\$ 10,000	2	\$ 20,000
Subtotal				\$ 767,400
Mobilization - Percent of Item Cost Sum	%	6%		\$ 46,044
Contingency - % of construction costs	%	30%		\$ 230,220
Total Construction Costs				\$ 1,043,664
Engineering and CMS - % of construction costs	%	20%		\$ 208,733
Total Project Cost (rounded)				\$1,253,000

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. Keller Associates has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. Keller Associates cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project
Cherry Lane and 11th Avenue Pipeline

Project Identifier: 2.3

Objective: Install 12-inch pipeline on Cherry Lane and 11th Avenue N Extension to alleviate low pressures (<35 psi) for projected 2020 demands.

Potential Issues:

- Canal crossing permitting
- Coordinate with pavement management program and new development for potential cost savings

Project Location:
Cherry Ln and 11th Ave N Extension



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	4000	\$ 300,000
Traffic Control - Without Flagging	LF	\$ 4	4000	\$ 16,000
1/2 Lane Pavement Repair	LF	\$ 20	4000	\$ 80,000
Canal Crossing	EA	\$ 10,000	2	\$ 20,000
<i>Subtotal</i>				\$ 416,000
Mobilization - Percent of Item Cost Sum	%	6%		\$ 24,960
Contingency - % of construction costs	%	30%		\$ 124,800
<i>Total Construction Costs</i>				\$ 565,760
Permitting	LS	\$4,000		\$ 4,000
Engineering and CMS - % of construction costs	%	20%		\$ 113,152
Total Project Cost (rounded)				\$683,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project Connect North Pressure Zones; Piping between Costco & East System Project Identifier: 2.4 Objective: Install 12-inch pipeline on Cherry Lane to improve redundancy. This project connects the isolated service areas located north of the interstate. Potential Issues: - Canal Crossings - Railroad crossing - Coordinate with pavement management program and new development for potential savings	Project Location: Cherry Ln, between Midland Blvd and Franklin Blvd 
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General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	9000	\$ 675,000
Traffic Control - Without Flagging	LF	\$ 4	9000	\$ 36,000
1/2 Lane Pavement Repair	LF	\$ 20	8920	\$ 178,400
Canal Crossing	EA	\$ 10,000	4	\$ 40,000
Bore Crossing (assumes 24" casing)	LF	\$ 350	80	\$ 28,000
Subtotal				\$ 957,400
Mobilization - Percent of Item Cost Sum	%	6%		\$ 57,444
Contingency - % of construction costs	%	30%		\$ 287,220
Total Construction Costs				\$ 1,302,064
Permitting	LS	\$ 16,000	1	\$ 16,000
Engineering and CMS - % of construction costs	%	20%		\$ 260,413
Total Project Cost (rounded)				\$1,579,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project
Franklin Rd Supply; Linden Rd
and Franklin Rd Pipelines

Project Identifier: 2.5

Objective: Install a 1,500+ gpm surface water supply and 12-inch pipe near Linden Road and Franklin Road. This improvement will increase supply and alleviate low pressures (<35 psi).

Potential Issues:

- Coordinate with pavement management program and new development for potential savings

Project Location:
Linden Rd and Franklin Rd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	6600	\$ 495,000
Surface Water Supply	LS	\$ 395,000	1	\$ 395,000
Traffic Control - Without Flagging	LF	\$ 4	6600	\$ 26,400
1/2 Lane Pavement Repair	LF	\$ 20	6600	\$ 132,000
Canal Crossing	EA	\$ 10,000	6	\$ 60,000
<i>Subtotal</i>				\$ 1,108,400
Mobilization - Percent of Item Cost Sum	%	6%		\$ 66,504
Contingency - % of construction costs	%	30%		\$ 332,520
<i>Total Construction Costs</i>				\$ 1,507,424
Land Acquisition	LS	\$ 50,000	1	\$ 50,000
Permitting	LS	\$ 15,000	1	\$ 15,000
Engineering and CMS - % of construction costs	%	20%		\$ 301,485
Total Project Cost (rounded)				\$1,874,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project Franklin Rd Pipeline Project Identifier: 2.6 Objective: Install 12-inch pipeline to Franklin Road to improve redundancy and an existing bottleneck. Potential Issues: - Coordinate with pavement management program and new development for potential cost savings	Project Location: Franklin Rd, north of Cherry Ln 
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General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	670	\$ 50,250
Existing Utility Protection	LF	\$ 4	670	\$ 2,680
Traffic Control - With Flagging	LF	\$ 8	670	\$ 5,360
1/2 Lane Pavement Repair	LF	\$ 20	670	\$ 13,400
<i>Subtotal</i>				\$ 71,690
Mobilization - Percent of Item Cost Sum	%	6%		\$ 4,301
Contingency - % of construction costs	%	30%		\$ 21,507
<i>Total Construction Costs</i>				\$ 97,498
Engineering and CMS - % of construction costs	%	20%		\$ 19,500
Total Project Cost (rounded)				\$117,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project
Orchard Ave Pipeline

Project Identifier: 2.7

Objective: Install 12-inch pipeline to Orchard Avenue to improve redundancy.

Potential Issues:

- Coordinate with pavement management program and new development for potential cost savings

Project Location:
W Orchard Ave, near N Middleton Rd



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	1950	\$ 146,250
Existing Utility Protection	LF	\$ 4	1950	\$ 7,800
Traffic Control - With Flagging	LF	\$ 8	650	\$ 5,200
Traffic Control - Without Flagging	LF	\$ 4	1300	\$ 5,200
1/2 Lane Pavement Repair	LF	\$ 20	1950	\$ 39,000
Canal Crossing	EA	\$ 10,000	1	\$ 10,000
<i>Subtotal</i>				\$ 213,450
Mobilization - Percent of Item Cost Sum	%	6%		\$ 12,807
Contingency - % of construction costs	%	30%		\$ 64,035.00
<i>Total Construction Costs</i>				\$ 290,292
Permitting	LS	\$4,000	1	\$ 4,000
Engineering and CMS - % of construction costs	%	20%		\$ 58,058
Total Project Cost (rounded)				\$353,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project Flamingo Ave Pipeline Project Identifier: 2.8 Objective: Install 12-inch pipeline to Flamingo Road to improve redundancy. Potential Issues: - Coordinate with pavement management program for potential cost savings	Project Location: W Flamingo Ave, near N Middleton Rd 
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General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	200	\$ 15,000
Existing Utility Protection	LF	\$ 4	200	\$ 800
Traffic Control - With Flagging	LS	\$ 1,500	1	\$ 1,500
1/2 Lane Pavement Repair	LS	\$ 2,000	1	\$ 2,000
Subtotal				\$ 19,300
Mobilization - Percent of Item Cost Sum	%	6%		\$ 1,158
Contingency - % of construction costs	%	30%		\$ 5,790
Total Construction Costs				\$ 26,248
Engineering and CMS - % of construction costs	%	35%		\$ 9,187
Total Project Cost (rounded)				\$36,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project
Install Piping

Project Identifier: 2.9

Objective: Install 12-inch piping to Flamingo Road to improve redundancy and operations.

Potential Issues:

- Coordinate with pavement management program for potential cost savings

Project Location:
Orchard Ave, near Sterling Dr



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	300	\$ 22,500
Existing Utility Protection	LF	\$ 4	300	\$ 1,200
Traffic Control - With Flagging	LF	\$ 1,500	1	\$ 1,500
1/2 Lane Pavement Repair	LF	\$ 2,000	1	\$ 2,000
<i>Subtotal</i>				\$ 27,200
Mobilization - Percent of Item Cost Sum	%	6%		\$ 1,632
Contingency - % of construction costs	%	30%		\$ 8,160
<i>Total Construction Costs</i>				\$ 36,992
Engineering and CMS - % of construction costs	%	35%		\$ 12,947
<i>Total Project Cost (rounded)</i>				\$50,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project
1st Street Supply

Project Identifier: 2.10

Objective: Install a 1,500+ gpm ground water supply near 14th Avenue and 1st Street N. This improvement will increase supply and mitigate low pressures during drought conditions (<20 psi under average day demands).

Potential Issues:

- Consider retrofit or reconditioning 14th Ave N well.

Project Location:
14th Ave N, within projects P1.16 and P3.3



General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000
<i>Subtotal</i>				\$ 410,000
Mobilization - Percent of Item Cost Sum	%	6%		\$ 24,600
Contingency - % of construction costs	%	30%		\$ 123,000
<i>Total Construction Costs</i>				\$ 557,600
Land Acquisition	LS	\$ 50,000	1	\$ 50,000
Permitting	LS	\$ 15,000	1	\$ 15,000
Engineering and CMS - % of construction costs	%	20%		\$ 111,520
Total Project Cost (rounded)				\$735,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Irrigation Capital Improvements Project W Locust Ln Pipeline Project Identifier: 2.11 Objective: Install a 12-inch pipeline on W Locust to improve redundancy and east-west transmission in upper pressure zone. Potential Issues: - Highway bore - Coordinate with pavement management program and new development for potential cost savings	Project Location: W Locust Lane near 12th Avenue Road 
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General Line Items	Unit	Unit Price	Estimated Quantity	2014 Cost
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	2080	\$ 156,000
Bore Crossing (assumes 24" casing)	LF	\$ 350	80	\$ 28,000
Canal Crossing	EA	\$ 10,000	2	\$ 20,000
1/2 Lane Pavement Repair	LF	\$ 20	2020	\$ 40,400
<i>Subtotal</i>				\$ 244,400
Mobilization - Percent of Item Cost Sum	%	6%		\$ 14,664
Contingency - % of construction costs	%	30%		\$ 73,320
<i>Total Construction Costs</i>				\$ 332,384
Permitting	LS	\$8,000	1	\$ 8,000
Engineering and CMS - % of construction costs	%	20%		\$ 66,477
Total Project Cost (rounded)				\$407,000

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Irrigation Master Plan: Capital Improvement Project Details

Item	Unit	Unit Price	Estimated Quantity	Item Cost (Rounded)	Total Cost (Rounded)
Priority 3					
Iowa Ave Supply and Pipeline					
					3.1
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	2,460	\$ 184,500	
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000	
Traffic Control - Without Flagging	LF	\$ 4	2,460	\$ 9,840	
1/2 Lane Pavement Repair	LF	\$ 20	2,460	\$ 49,200	
Canal Crossing	LS	\$ 10,000	1	\$ 10,000	
Subtotal					\$663,540
Mobilization - Percent of Item Cost Sum	%	6%		\$ 39,812	
Contingency - % of construction costs	%	30%		\$ 199,062	
Subtotal					\$902,414
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 15,000	1	\$ 15,000	
Engineering and CMS - % of construction costs	%	20%		\$ 180,483	
Total Project Cost (rounded)					\$1,148,000
Cherry Ln Supply and Pipeline					
					3.2
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	5,200	\$ 390,000	
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000	
Traffic Control - Without Flagging	LF	\$ 4	5,200	\$ 20,800	
1/2 Lane Pavement Repair	LF	\$ 20	5,200	\$ 104,000	
Canal Crossing	LS	\$ 10,000	1	\$ 10,000	
Subtotal					\$934,800
Mobilization - Percent of Item Cost Sum	%	6%		\$ 56,088	
Contingency - % of construction costs	%	30%		\$ 280,440	
Subtotal					\$1,271,328
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 15,000	1	\$ 15,000	
Engineering and CMS - % of construction costs	%	20%		\$ 254,266	
Total Project Cost (rounded)					\$1,591,000
14th Ave North Pipeline					
					3.3
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	3,550	\$ 266,250	
6-inch Pipe - Excavation, Backfill, Valves	LF	\$ 40	400	\$ 16,000	
Existing Utility Protection	LF	\$ 4	3,550	\$ 14,200	
Traffic Control - Without Flagging	LF	\$ 4	1,100	\$ 4,400	
Traffic Control - With Flagging	LF	\$ 8	2,450	\$ 19,600	
1/2 Lane Pavement Repair	LF	\$ 20	3,550	\$ 71,000	
Subtotal					\$391,450
Mobilization - Percent of Item Cost Sum	%	6%		\$ 23,487	
Contingency - % of construction costs	%	30%		\$ 117,435	
Subtotal					\$532,372
Engineering and CMS - % of construction costs	%	20%		\$ 106,474	
Total Project Cost (rounded)					\$639,000
Kings Rd Supply and Pipeline					
					3.4
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	3,160	\$ 237,000	
Surface Water Supply	LS	\$ 395,000	1	\$ 395,000	
Existing Utility Protection	LF	\$ 4	3,160	\$ 12,640	
Traffic Control - With Flagging	LF	\$ 8	3,160	\$ 25,280	
1/2 Lane Pavement Repair	LF	\$ 20	3,160	\$ 63,200	
Mason Creek Crossing	LS	\$ 20,000	1	\$ 20,000	
Subtotal					\$753,120
Mobilization - Percent of Item Cost Sum	%	6%		\$ 45,187	
Contingency - % of construction costs	%	30%		\$ 225,936	
Subtotal					\$1,024,243
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 5,000	1	\$ 5,000	
Engineering and CMS - % of construction costs	%	20%		\$ 204,849	
Total Project Cost (rounded)					\$1,285,000
Karcher Rd Pipeline					
					3.5
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	2,700	\$ 202,500	
Miscellaneous Surface Repair	LF	\$ 5	2,600	\$ 13,000	
Bore Crossing (assumes 24" casing) - this includes 2 crossings	LF	\$ 350	100	\$ 35,000	
Traffic Control - With Flagging	LF	\$ 8	2,700	\$ 21,600	
Easement	LS	\$ 20,000	1	\$ 20,000	
Subtotal					\$292,100
Mobilization - Percent of Item Cost Sum	%	6%		\$ 17,526	
Contingency - % of construction costs	%	30%		\$ 87,630	
Subtotal					\$397,256
Permitting	LS	\$ 4,000	1	\$ 4,000	
Engineering and CMS - % of construction costs	%	20%		\$ 79,451	
Total Project Cost (rounded)					\$481,000

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Item	Unit	Unit Price	Estimated Quantity	Item Cost (Rounded)	Total Cost (Rounded)
11th Ave North Supply and Pipeline					3.6
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	2,700	\$ 202,500	
Surface Water Supply	LS	\$ 395,000	1	\$ 395,000	
Traffic Control - Without Flagging	LF	\$ 4	2,700	\$ 10,800	
1/2 Lane Pavement Repair	LF	\$ 20	2,700	\$ 54,000	
Canal Crossing	EA	\$ 10,000	1	\$ 10,000	
<i>Subtotal</i>					<i>\$672,300</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$ 40,338	
Contingency - % of construction costs	%	30%		\$ 201,690	
<i>Subtotal</i>					<i>\$914,328</i>
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 9,000	1	\$ 9,000	
Engineering and CMS - % of construction costs	%	20%		\$ 182,866	
Total Project Cost (rounded)					\$1,157,000
Cherry Lane Pipeline					3.7
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	4,000	\$ 300,000	
Traffic Control - Without Flagging	LF	\$ 4	4,000	\$ 16,000	
1/2 Lane Pavement Repair	LF	\$ 20	4,000	\$ 80,000	
Canal Crossing	LS	\$ 10,000	1	\$ 10,000	
<i>Subtotal</i>					<i>\$406,000</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$ 24,360	
Contingency - % of construction costs	%	30%		\$ 121,800	
<i>Subtotal</i>					<i>\$552,160</i>
Permitting	LS	\$ 4,000	1	\$ 4,000	
Engineering and CMS - % of construction costs	%	20%		\$ 110,432	
Total Project Cost (rounded)					\$667,000
Franklin Blvd Pipeline					3.8
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	500	\$ 37,500	
Traffic Control - With Flagging	LF	\$ 8	500	\$ 4,000	
1/2 Lane Pavement Repair	LF	\$ 20	500	\$ 10,000	
<i>Subtotal</i>					<i>\$51,500</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$ 3,090	
Contingency - % of construction costs	%	30%		\$ 15,450	
<i>Subtotal</i>					<i>\$70,040</i>
Engineering and CMS - % of construction costs	%	25%		\$ 17,510	
Total Project Cost (rounded)					\$88,000
Pipeline Between Happy Valley Rd and Brenan St					3.9
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	1,650	\$ 90,750	
Canal Crossing	EA	\$ 10,000	1	\$ 10,000	
Easement	LF	\$ 15	1,650	\$ 24,750	
Miscellaneous Surface Repair	LF	\$ 5	1,650	\$ 8,250	
Full Lane Pavement Repair	LF	\$ 35	100	\$ 3,500	
<i>Subtotal</i>					<i>\$137,250</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$ 8,235	
Contingency - % of construction costs	%	30%		\$ 41,175	
<i>Subtotal</i>					<i>\$186,660</i>
Permitting	LS	\$4,000	1	\$ 4,000	
Engineering and CMS - % of construction costs	%	20%		\$ 37,332	
Total Project Cost (rounded)					\$228,000
Madison Rd Pipeline					3.10
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	8,250	\$ 618,750	
Canal Crossing	EA	\$ 10,000	4	\$ 40,000	
Traffic Control - Without Flagging	LF	\$ 4	8,250	\$ 33,000	
1/2 Lane Pavement Repair	LF	\$ 20	8,250	\$ 165,000	
<i>Subtotal</i>					<i>\$856,750</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$ 51,405	
Contingency - % of construction costs	%	30%		\$ 257,025	
<i>Subtotal</i>					<i>\$1,165,180</i>
Permitting	LS	\$ 16,000	1	\$ 16,000	
Engineering and CMS - % of construction costs	%	20%		\$ 233,036	
Total Project Cost (rounded)					\$1,415,000

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Item	Unit	Unit Price	Estimated Quantity	Item Cost (Rounded)	Total Cost (Rounded)
South Powerline Rd Supply and Pipeline					3.11
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	4,500	\$ 337,500	
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000	
Traffic Control - Without Flagging	LF	\$ 4	4,150	\$ 16,600	
Miscellaneous Surface Repair	LF	\$ 5	350	\$ 1,750	
1/2 Lane Pavement Repair	LF	\$ 20	4,050	\$ 81,000	
Existing Utility Protection	LF	\$ 4	4,500	\$ 18,000	
Easement	LF	\$ 15	350	\$ 5,250	
Bore Crossing (assumes 24" casing)	LF	\$ 350	100	\$ 35,000	
Subtotal					\$905,100
Mobilization - Percent of Item Cost Sum	%	6%		\$ 54,306	
Contingency - % of construction costs	%	30%		\$ 271,530	
Subtotal					\$1,230,936
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 23,000	1	\$ 23,000	
Engineering and CMS - % of construction costs	%	20%		\$ 246,187	
Total Project Cost (rounded)					\$1,551,000
S Midland Blvd Supply and Pipeline					3.12
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	4,400	\$ 330,000	
Surface Water Supply	LS	\$ 395,000	1	\$ 395,000	
Existing Utility Protection	LF	\$ 4	1,500	\$ 6,000	
Traffic Control - Without Flagging	LF	\$ 4	4,400	\$ 17,600	
1/2 Lane Pavement Repair	LF	\$ 20	4,400	\$ 88,000	
Subtotal					\$836,600
Mobilization - Percent of Item Cost Sum	%	6%		\$ 50,196	
Contingency - % of construction costs	%	30%		\$ 250,980	
Subtotal					\$1,137,776
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 5,000	1	\$ 5,000	
Engineering and CMS - % of construction costs	%	20%		\$ 227,555	
Total Project Cost (rounded)					\$1,421,000
Meyers Pump Station Upgrades					3.13
Test Pump	EA	\$ 10,000	1	\$ 10,000	
Pump & Motor (30 hp)	EA	\$ 40,000	1	\$ 40,000	
Electrical (incl VFD, harmonic filter, etc)	EA	\$ 20,000	1	\$ 20,000	
Flow Meter & Pressure Transducer	EA	\$ 7,000	1	\$ 7,000	
Subtotal					\$77,000
Mobilization - Percent of Item Cost Sum	%	6%		\$ 4,620	
Contingency - % of construction costs	%	30%		\$ 23,100	
Subtotal					\$104,720
Engineering and CMS - % of construction costs	%	20%		\$ 20,944	
Total Project Cost (rounded)					\$126,000
Amity Ave Supply and Pipeline					3.14
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	5,100	\$ 382,500	
Surface Water Supply	LS	\$ 395,000	1	\$ 395,000	
Canal Crossing	EA	\$ 10,000	2	\$ 20,000	
Traffic Control - Without Flagging	LF	\$ 4	5,100	\$ 20,400	
1/2 Lane Pavement Repair	LF	\$ 20	5,100	\$ 102,000	
Subtotal					\$919,900
Mobilization - Percent of Item Cost Sum	%	6%		\$ 55,194	
Contingency - % of construction costs	%	30%		\$ 275,970	
Subtotal					\$1,251,064
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 13,000	1	\$ 13,000	
Engineering and CMS - % of construction costs	%	20%		\$ 250,213	
Total Project Cost (rounded)					\$1,565,000
Total Priority 3 Cost (rounded):					\$13,362,000

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City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Item	Unit	Unit Price	Estimated Quantity	Item Cost (Rounded)	Total Cost (Rounded)
Priority 4					
Sunnyridge Rd Pipeline North of Greenhurst					
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	900	\$ 49,500	4.1
Existing Utility Protection	LF	\$ 4	900	\$ 3,600	
Traffic Control - With Flagging	LF	\$ 8	900	\$ 7,200	
1/2 Lane Pavement Repair	LF	\$ 20	900	\$ 18,000	
Subtotal					\$78,300
Mobilization - Percent of Item Cost Sum	%	6%		\$4,698	
Contingency - % of construction costs	%	30%		\$23,490	
Subtotal					\$106,488
Engineering and CMS - % of construction costs	%	20%		\$21,298	
Total Project Cost (rounded)					\$128,000
Middleton Rd Supply					
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000	4.2
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	500	\$ 37,500	
Subtotal					\$447,500
Mobilization - Percent of Item Cost Sum	%	6%		\$ 26,850	
Contingency - % of construction costs	%	30%		\$ 134,250	
Subtotal					\$608,600
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 15,000	1	\$ 15,000	
Engineering and CMS - % of construction costs	%	25%		\$ 152,150	
Total Project Cost (rounded)					\$826,000
Karcher Rd Supply					
Surface Water Supply	LS	\$ 395,000	1	\$ 395,000	4.3
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	500	\$ 37,500	
Subtotal					\$432,500
Mobilization - Percent of Item Cost Sum	%	6%		\$ 25,950	
Contingency - % of construction costs	%	30%		\$ 129,750	
Subtotal					\$588,200
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 5,000	1	\$ 5,000	
Engineering and CMS - % of construction costs	%	25%		\$ 147,050	
Total Project Cost (rounded)					\$791,000
Smith Ave Supply and Pipeline					
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000	4.4
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	720	\$ 54,000	
Traffic Control - With Flagging	LF	\$ 8	720	\$ 5,760	
1/2 Lane Pavement Repair	LF	\$ 20	720	\$ 14,400	
Subtotal					\$484,160
Mobilization - Percent of Item Cost Sum	%	6%		\$29,050	
Contingency - % of construction costs	%	30%		\$145,248	
Subtotal					\$658,458
Engineering and CMS - % of construction costs	%	25%		\$164,614	
Total Project Cost (rounded)					\$824,000
8th St N Supply					
Ground Water Supply	LS	\$ 410,000	1	\$ 410,000	4.5
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	500	\$ 37,500	
Subtotal					\$447,500
Mobilization - Percent of Item Cost Sum	%	6%		\$ 26,850	
Contingency - % of construction costs	%	30%		\$ 134,250	
Subtotal					\$608,600
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 15,000	1	\$ 15,000	
Engineering and CMS - % of construction costs	%	25%		\$ 152,150	
Total Project Cost (rounded)					\$826,000

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Item	Unit	Unit Price	Estimated Quantity	Item Cost (Rounded)	Total Cost (Rounded)
Happy Valley Rd Pipeline					4.6
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	8,300	\$ 622,500	
Mason Creek Crossing	LS	\$ 20,000	1	\$ 20,000	
Traffic Control - With Flagging	LF	\$ 8	8,300	\$ 66,400	
1/2 Lane Pavement Repair	LF	\$ 20	8,300	\$ 166,000	
Rock Excavation	LF	\$ 40	1,000	\$ 40,000	
<i>Subtotal</i>					<i>\$914,900</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$54,894	
Contingency - % of construction costs	%	30%		\$274,470	
<i>Subtotal</i>					<i>\$1,244,264</i>
Permitting	LS	\$4,000	1	\$4,000	
Engineering and CMS - % of construction costs	%	20%		\$248,853	
Total Project Cost (rounded)					\$1,498,000
Midland Blvd and Locust Ln Pipelines					4.7
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	4,270	\$ 320,250	
Canal Crossing	EA	\$ 10,000	2	\$ 20,000	
Traffic Control - Without Flagging	LF	\$ 4	4,270	\$ 17,080	
1/2 Lane Pavement Repair	LF	\$ 20	4,270	\$ 85,400	
<i>Subtotal</i>					<i>\$442,730</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$26,563.80	
Contingency - % of construction costs	%	30%		\$132,819	
<i>Subtotal</i>					<i>\$602,113</i>
Permitting	LS	\$4,000	1	\$4,000	
Engineering and CMS - % of construction costs	%	20%		\$120,423	
Total Project Cost (rounded)					\$727,000
E Karcher Pipeline					4.8
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	3,650	\$ 273,750	
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	1,100	\$ 60,500	
Traffic Control - With Flagging	LF	\$ 8	4,750	\$ 38,000	
1/2 Lane Pavement Repair	LF	\$ 20	4,650	\$ 93,000	
Bore Crossing (assumes 24" casing)	LF	\$ 350	100	\$ 35,000	
<i>Subtotal</i>					<i>\$500,250</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$30,015	
Contingency - % of construction costs	%	30%		\$150,075	
<i>Subtotal</i>					<i>\$680,340</i>
Permitting	LS	\$8,000	1	\$ 8,000	
Engineering and CMS - % of construction costs	%	20%		\$136,068	
Total Project Cost (rounded)					\$825,000
Amity Ave Pipeline and PRV					4.9
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	3,050	\$ 228,750	
Complex PRV w/ Vault	LS	\$ 35,000	1	\$ 35,000	
Traffic Control - With Flagging	LF	\$ 8	3,050	\$ 24,400	
1/2 Lane Pavement Repair	LF	\$ 20	3,050	\$ 61,000	
<i>Subtotal</i>					<i>\$349,150</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$20,949	
Contingency - % of construction costs	%	30%		\$104,745	
<i>Subtotal</i>					<i>\$474,844</i>
Engineering and CMS - % of construction costs	%	20%		\$94,969	
Total Project Cost (rounded)					\$570,000
Locust Lane Supply & Pipeline					4.10
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	8,750	\$ 656,250	
Simple PRV w/ Vault	LS	\$ 15,000	1	\$ 15,000	
Traffic Control - Without Flagging	LF	\$ 4	8,750	\$ 35,000	
1/2 Lane Pavement Repair	LF	\$ 20	8,750	\$ 175,000	
Ground Water Supply	LS	\$ 320,000	1	\$ 320,000	
Canal Crossing	EA	\$ 10,000	5	\$ 50,000	
<i>Subtotal</i>					<i>\$1,251,250</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$75,075	
Contingency - % of construction costs	%	30%		\$375,375	
<i>Subtotal</i>					<i>\$1,701,700</i>
Permitting	LS	\$23,000	1	\$ 23,000	
Land Acquisition	LS	\$50,000	1	\$ 50,000	
Engineering and CMS - % of construction costs	%	20%		\$340,340	
Total Project Cost (rounded)					\$2,116,000

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Item	Unit	Unit Price	Estimated Quantity	Item Cost (Rounded)	Total Cost (Rounded)
N Sugar St Pipeline					4.11
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	1,500	\$ 82,500	
Miscellaneous Surface Repair	LF	\$ 5	1,500	\$ 7,500	
Easement	LF	\$ 15	825	\$ 12,375	
Existing Utility Protection	LF	\$ 4	675	\$ 2,700	
Traffic Control - Without Flagging	LF	\$ 4	675	\$ 2,700	
Bore Crossing (assumes 24" casing)	LF	\$ 350	235	\$ 82,250	
<i>Subtotal</i>					<i>\$190,025</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$11,402	
Contingency - % of construction costs	%	30%		\$57,008	
<i>Subtotal</i>					<i>\$258,434</i>
Engineering and CMS - % of construction costs	%	20%		\$51,687	
Total Project Cost (rounded)					\$311,000
Chicago St Pipeline					4.12
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	3,900	\$ 214,500	
Canal Crossing	EA	\$ 10,000	2	\$ 20,000	
Existing Utility Protection	LF	\$ 4	3,900	\$ 15,600	
Traffic Control - Without Flagging	LF	\$ 4	3,900	\$ 15,600	
1/2 Lane Pavement Repair	LF	\$ 20	3,900	\$ 78,000	
<i>Subtotal</i>					<i>\$343,700</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$ 20,622	
Contingency - % of construction costs	%	30%		\$ 103,110	
<i>Subtotal</i>					<i>\$467,432</i>
Permitting	LS	\$8,000	1	\$ 8,000	
Engineering and CMS - % of construction costs	%	20%		\$ 93,486	
Total Project Cost (rounded)					\$569,000
Southside Pipeline					4.13
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	3,150	\$ 236,250	
Existing Utility Protection	LF	\$ 4	3,150	\$ 12,600	
Traffic Control - With Flagging	LF	\$ 8	3,150	\$ 25,200	
1/2 Lane Pavement Repair	LF	\$ 20	3,150	\$ 63,000	
Canal Crossing	EA	\$ 10,000	1	\$ 10,000	
<i>Subtotal</i>					<i>\$347,050</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$20,823	
Contingency - % of construction costs	%	30%		\$104,115	
<i>Subtotal</i>					<i>\$471,988</i>
Engineering and CMS - % of construction costs	%	20%		\$94,398	
Total Project Cost (rounded)					\$567,000
Greenhurst Rd near 12th Avenue Rd					4.14
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	900	\$ 67,500	
Traffic Control - With Flagging	LF	\$ 8	900	\$ 7,200	
Existing Utility Protection	LS	\$ 4	900	\$ 10,000	
Bore Crossing (assumes 24" casing)	LF	\$ 350	220	\$ 77,000	
1/2 Lane Pavement Repair	LF	\$ 20	680	\$ 13,600	
<i>Subtotal</i>					<i>\$175,300</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$10,518	
Contingency - % of construction costs	%	30%		\$52,590	
<i>Subtotal</i>					<i>\$238,408</i>
Permitting	LS	\$4,000	1	\$ 4,000	
Engineering and CMS - % of construction costs	%	20%		\$47,682	
Total Project Cost (rounded)					\$291,000
Sherman Ave and Florence Ct Pipelines					4.15
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	1,500	\$ 112,500	
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	600	\$ 33,000	
Existing Utility Protection	LF	\$ 4	2,100	\$ 8,400	
Traffic Control - Without Flagging	LF	\$ 8	1,500	\$ 12,000	
1/2 Lane Pavement Repair	LF	\$ 20	2,100	\$ 42,000	
<i>Subtotal</i>					<i>\$207,900</i>
Mobilization - Percent of Item Cost Sum	%	6%		\$12,474	
Contingency - % of construction costs	%	30%		\$62,370	
<i>Subtotal</i>					<i>\$282,744</i>
Engineering and CMS - % of construction costs	%	20%		\$56,549	
Total Project Cost (rounded)					\$340,000

City of Nampa, Idaho
Irrigation Master Plan: Capital Improvement Project Details

Item	Unit	Unit Price	Estimated Quantity	Item Cost (Rounded)	Total Cost (Rounded)
Pipeline between Elder St and Connecticut, and on Sharons Way					4.16
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	840	\$ 46,200	
Existing Utility Protection	LF	\$ 4	840	\$ 3,360	
Traffic Control - Without Flagging	LS	\$ 8	90	\$ 1,500	
1/2 Lane Pavement Repair	LS	\$ 20	90	\$ 2,000	
Miscellaneous Surface Repair	LF	\$ 5	750	\$ 3,750	
Easement	LF	\$ 15	750	\$ 11,250	
<i>Subtotal</i>					\$68,060
Mobilization - Percent of Item Cost Sum	%	6%		\$ 4,084	
Contingency - % of construction costs	%	30%		\$ 20,418	
<i>Subtotal</i>					\$92,562
Engineering and CMS - % of construction costs	%	20%		\$ 18,512	
Total Project Cost (rounded)					\$112,000
W Iowa Ave and 12th Avenue Rd Pipelines					4.17
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	950	\$ 52,250	
Existing Utility Protection	LF	\$ 4	715	\$ 2,860	
Traffic Control - With Flagging	LF	\$ 8	715	\$ 5,720	
1/2 Lane Pavement Repair	LF	\$ 20	775	\$ 15,500	
Bore Crossing (assumes 24" casing)	LF	\$ 350	120	\$ 42,000	
<i>Subtotal</i>					\$118,330
Mobilization - Percent of Item Cost Sum	%	6%		\$7,100	
Contingency - % of construction costs	%	30%		\$35,499	
<i>Subtotal</i>					\$160,929
Permitting	LS	\$4,000	1	\$ 4,000	
Engineering and CMS - % of construction costs	%	20%		\$32,186	
Total Project Cost (rounded)					\$198,000
Dewey and S University Blvd Pipelines					4.18
8-inch Pipe - Excavation, Backfill, Valves	LF	\$ 55	2,130	\$ 117,150	
Existing Utility Protection	LF	\$ 4	2,130	\$ 8,520	
Traffic Control - With Flagging	LF	\$ 8	2,130	\$ 17,040	
1/2 Lane Pavement Repair	LF	\$ 20	2,030	\$ 40,600	
Bore Crossing (assumes 24" casing)	LF	\$ 350	100	\$ 35,000	
<i>Subtotal</i>					\$218,310
Mobilization - Percent of Item Cost Sum	%	6%		\$13,099	
Contingency - % of construction costs	%	30%		\$65,493	
<i>Subtotal</i>					\$296,902
Permitting	LS	\$4,000	1	\$ 4,000	
Engineering and CMS - % of construction costs	%	20%		\$59,380	
Total Project Cost (rounded)					\$361,000
Kings Rd Pipeline					4.19
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	1,800	\$ 135,000	
Miscellaneous Surface Repair	LF	\$ 5	840	\$ 4,200	
Easement	LF	\$ 15	840	\$ 12,600	
Existing Utility Protection	LF	\$ 4	1,800	\$ 7,200	
Traffic Control - With Flagging	LF	\$ 8	960	\$ 7,680	
1/2 Lane Pavement Repair	LF	\$ 20	910	\$ 18,200	
<i>Subtotal</i>					\$184,880
Mobilization - Percent of Item Cost Sum	%	6%		\$11,093	
Contingency - % of construction costs	%	30%		\$55,464	
<i>Subtotal</i>					\$251,437
Engineering and CMS - % of construction costs	%	20%		\$50,287	
Total Project Cost (rounded)					\$302,000

Irrigation Master Plan: Capital Improvement Project Details

Item	Unit	Unit Price	Estimated Quantity	Item Cost (Rounded)	Total Cost (Rounded)
Georgia Ave Pipeline near Southside Blvd					
					4.20
6-inch Pipe - Excavation, Backfill, Valves	LF	\$ 40	110	\$ 4,400	
Miscellaneous Surface Repair	LF	\$ 5	110	\$ 550	
Easement	LF	\$ 15	110	\$ 1,650	
Traffic Control - With Flagging	LS	\$ 8	25	\$ 1,500	
1/2 Lane Pavement Repair	LS	\$ 2,000	1	\$ 2,000	
<i>Subtotal</i>					\$10,100
Mobilization - Percent of Item Cost Sum	%	6%		\$606	
Contingency - % of construction costs	%	30%		\$3,030	
<i>Subtotal</i>					\$13,736
Engineering and CMS - % of construction costs	%	50%		\$6,868	
Total Project Cost (rounded)					\$21,000
Roosevelt Blvd Supply, along Elijah Drain					
					4.21
Surface Water Supply	LS	\$ 395,000	1	\$ 395,000	
12-inch Pipe - Excavation, Backfill, Valves	LF	\$ 75	500	\$ 37,500	
<i>Subtotal</i>					\$432,500
Mobilization - Percent of Item Cost Sum	%	6%		\$ 25,950	
Contingency - % of construction costs	%	30%		\$ 129,750	
<i>Subtotal</i>					\$588,200
Land Acquisition	LS	\$ 50,000	1	\$ 50,000	
Permitting	LS	\$ 5,000	1	\$ 5,000	
Engineering and CMS - % of construction costs	%	20%		\$ 117,640	
Total Project Cost (rounded)					\$761,000
Total Priority 4 Cost (rounded)					\$12,964,000

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. Keller Associates has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. Keller Associates cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.

Regular Council
August 18, 2014

The following Ordinance was read by title only:

AN ORDINANCE APPROPRIATING FUNDS FOR A TWELVE MONTH PERIOD FROM THE FIRST DAY OF OCTOBER 2014 TO AND INCLUSIVE OF THE THIRTIETH DAY OF SEPTEMBER, 2015 FOR THE FOLLOWING FUNDS AND DEPARTMENTS: CITY CLERK, CIVIC CENTER, CODE ENFORCEMENT, ENGINEERING, FACILITIES DEVELOPMENT, FINANCE, FIRE, GENERAL GOVERNMENT, HUMAN RESOURCES, INFORMATION TECHNOLOGY, LEGAL, MAYOR/CITY COUNCIL, PARKS, POLICE, 911 FEES, PUBLIC WORKS, RECREATION, FLEET MANAGEMENT, AIRPORT, CEMETERY, DEVELOPMENT SERVICES, ECONOMIC & COMMUNITY DEVELOPMENT, IDAHO CENTER, LIBRARY, RECREATION CENTER, GOLF, SANITATION COLLECTION, STREET, UTILITY BILLING, WASTEWATER, WATER, FEDERAL, STATE AND LOCAL GRANTS, DEVELOPMENT IMPACT FEES, CAPITAL PROJECTS, LIBRARY MAJOR CAPITAL CAMPAIGN, AND GO BOND DEBT SERVICE; REFERENCING SOURCES AND USES OF FUNDS AND APPROPRIATING MONIES; SPECIFYING A PROCESS FOR EXPENDITURE OF FUNDS; AND ESTABLISHING AN EFFECTIVE DATE.

NOW, THEREFORE, BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE CITY OF NAMPA, IDAHO:

Section 1. That the following general fund total and enterprise/special revenue fund amounts or so much thereof as may be necessary, are hereby appropriated out of any money in the City Treasury for the purpose of maintaining a government for the City of Nampa, Idaho for the fiscal year beginning with the first day of October, 2014 to and inclusive of the thirtieth day of September, 2015 as follows:

ENTERPRISE & SPECIAL REVENUE FUNDS			
City Clerk	\$244,314	911 Fees	\$ 885,983
Code Enforcement	\$369,191	Airport	581,302
Economic Development	\$470,865	Cemetery	289,146
Engineering	\$1,693,627	Civic Center	1,079,895
Facilities Development	\$948,778	Development Services	1,753,188
Finance	\$702,795	Electric Franchise Fees	75,406
Fire	\$11,860,211	Family Justice Center	244,742
General Government	\$937,579	Idaho Center	5,018,201
Transfer to Family Justice Center	\$222,670	Library	2,640,544
Transfer to Civic Center	\$348,595	Nampa Recreation Center	3,867,605
Transfer to Idaho Center	\$978,870	Parks & Recreation	2,987,047
Transfer to Parks & Rec	\$595,103	Golf	2,396,014
Human Resource	\$312,221	Sanitation Collection	8,038,000
Information Technology	\$1,132,295	Street	9,575,682

City of

IRRIGATION CROSS CONNECTION

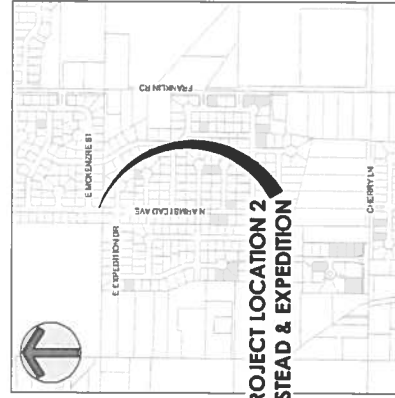
JANURARY, 2015

PROJECT LOCATION 1

HUNT & ONEIDA



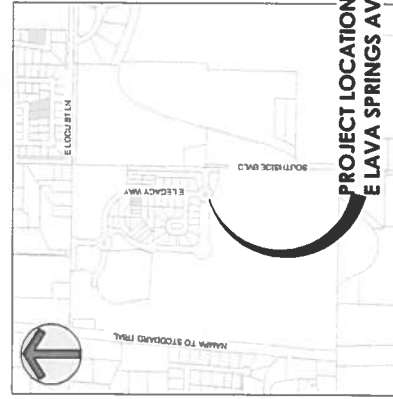
PROJECT LOCATION 2



**PROJECT LOCATION 3
DOOLEY LN**



PROJECT LOCATION 4
E GREENHURST RD



SHEET INDEX

C-001 - COVER SHEET
C-101 - IRRIGATION CROSS CONNECTION SCHEMATICS
C-102 - DETAILS

OWNER
CITY OF NAIMPA
411 3rd ST. S
NAIMPA, MT 80651
CONTACT: MARK DAVID, P.E.
PHONE: 208-468-5424
EMAIL: davidm@cityofnampa.us

CIVIL ENGINEER
KELLER ASSOCIATES, INC.
131 SW 5TH AVE STE A
MERIDIAN, ID 83642
CONTACT: ROLAND ROCHA, PE
PHONE: 208-268-1992
EMAIL: rochape@kellerinc.com



Know what's below.
Call before you dig.
 800.342.1588

CROSS CONNECTION CONCEPT DRAWINGS		 KELLER associates 13100 N. HAZARD BLVD. SUITE 200 MIDWINTER, IDAHO 83402 (208) 798-1007		 CITY OF NAMPA, IDAHO		2015 IRRIGATION IMPROVEMENTS		PROJECT NO: 213041-005	
DRAWN: _____		DESIGNED: _____		APPROVED: _____		SHEET NO: C-001		COVER SHEET	
BY _____		DATE _____		SCALE: Based on 3/4" = 1'-0"					
This document or any part thereof in whole or in part is not to be used for any purpose other than that for which it was prepared. It is the responsibility of the user to verify the accuracy of the information contained herein and to obtain the necessary permits for its use. The user shall indemnify and hold the engineer harmless from all claims, damages, and expenses, including reasonable attorneys' fees, arising out of or from the use of this document or any part thereof.									

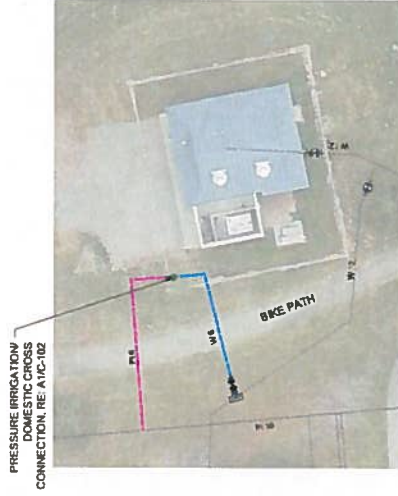


GENERAL SHEET NOTES

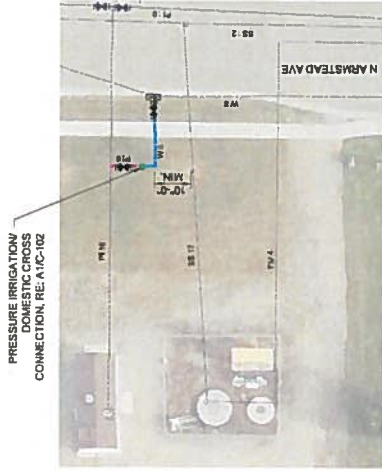
1. LOCATIONS SHOWN ARE SKETCHES IN NATURE. FINAL LOCATIONS AND PIPELINE ALIGNMENTS TO BE REFINED BASED ON ACTUAL FIELD UTILITY LOCATIONS AND SITE CONSTRAINTS.
2. MAINTAIN HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS FOR POTABLE/ NON POTABLE PIPELINES PER IDAPA XXXX CROSS CONNECTIONS TO CONFORM TO CITY OF NAMPA XXX.
3. RESTORE SURFACE CONDITIONS TO PRE CONSTRUCTION CONDITIONS

LEGEND

	PROPOSED WATER
	PROPOSED IRRIGATION
	PROPOSED VALVE
	EXIST WATER
	EXIST IRRIGATION
	EXIST SANITARY SEWER
	EXIST VALVE



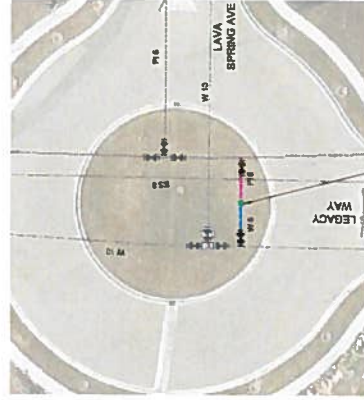
WELL 11 - CROSS CONNECTION 3
GREENHURST



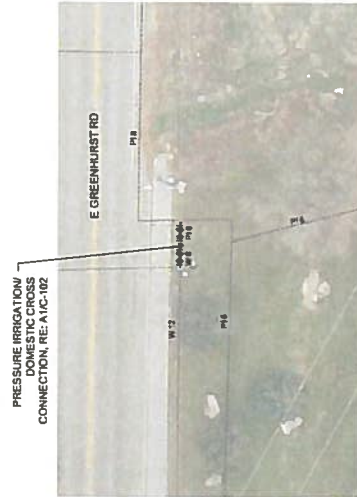
ASTORIA PARK CROSS CONNECTION 2
ARMSTEAD & EXPEDITION DR



HUNT & ONIEDA AVE CROSS CONNECTION 1



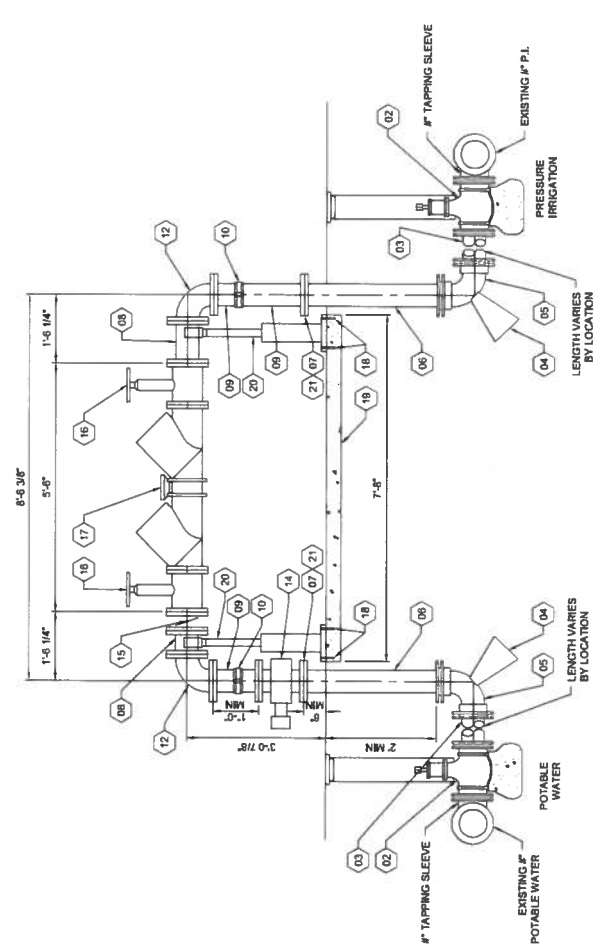
LAVA SPRINGS CROSS CONNECTION 5
SOUTHSIDE & LOCUST



DOOLY LANE - CROSS CONNECTION 4

2015 IRRIGATION IMPROVEMENTS IRRIGATION CROSS CONNECTION SCHEMATICS		CITY OF NAMPA, IDAHO		CROSS CONNECTION CONCEPT DRAWINGS		PROJECT NO. 213041-005	
KELLER associates 13100 E. 10th Ave. Suite 100 Denver, CO 80231 303.755.5200		CROSS CONNECTION CONCEPT DRAWINGS		CROSS CONNECTION CONCEPT DRAWINGS		PROJECT NO. 213041-005	
DRAWN BY: [blank]		CHECKED BY: [blank]		DATE: [blank]		SHEET NO. C-101	
DESIGNED BY: [blank]		APPROVED BY: [blank]		SCALE: [blank]			
CALCULATED BY: [blank]		AS NOTED					

KEYNOTES	
02	6" TAPPING VALVE FLG&U/RE. NAMP&A STD DETAIL N-407
03	6" DUCTILE IRON PIPE PE&P&E
04	CONCRETE THRUST BLOCK 36"x36"x36"
05	6" DUCTILE IRON ELBOW W/HAU WITH RESTRAINED JOINT GLANDS
06	6" DUCTILE IRON PIPE PE&FLG
07	6" DUCTILE IRON FLANGE
08	6" DUCTILE IRON SPOOL, FLG&FLG
09	6" DUCTILE IRON PIPE FLG&GROOVE
10	6" STYLE 31 VICTAULIC COUPLING
12	6" DUCTILE IRON PIPE ELBOW, FLG&FLG
14	6" TURBINE METER, NEPTUNE ET40RH25G52, FLG&FLG
15	6" PRESSURE REDUCING/ PRESSURE SUSTAINING VALVE CL&A-VAL 682G-01B
16	6" GATE VALVE OS & Y FLG&FLG
17	6" BACKFLOW PREVENTER WATTS LPM09, FLG&FLG
18	8 3/8" CONCRETE EXPANSION ANCHORS
19	2'x7'-6"x4" CONCRETE PAD
20	STEEL SADDLE PIPE SUPPORT
21	SPARE DUCTILE IRON BLIND FLANGE (TO PROTECT OPENING WHEN CROSS CONNECTION ASSEMBLY IS REMOVED)



A1 6" PRESSURE IRRIGATION / DOMESTIC CROSS CONNECTION
3/4" = 1'-0"

KELLER Associates 10000 W. Sunset Blvd., Suite 1000 Los Angeles, CA 90068 (310) 351-1000 CITY OF NAMP&A, IDAHO		CITY OF NAMP&A, IDAHO 2015 IRRIGATION IMPROVEMENTS DETAILS		PROJECT # 213041-005 SHEET NO C-102
KELLER Associates 10000 W. Sunset Blvd., Suite 1000 Los Angeles, CA 90068 (310) 351-1000 CITY OF NAMP&A, IDAHO		CITY OF NAMP&A, IDAHO 2015 IRRIGATION IMPROVEMENTS DETAILS		PROJECT # 213041-005 SHEET NO C-102
KELLER Associates 10000 W. Sunset Blvd., Suite 1000 Los Angeles, CA 90068 (310) 351-1000 CITY OF NAMP&A, IDAHO		CITY OF NAMP&A, IDAHO 2015 IRRIGATION IMPROVEMENTS DETAILS		PROJECT # 213041-005 SHEET NO C-102

Regular Council
September 21, 2015

The Construction Engineering and Inspection is consistent with the Project Management and Quality Control/Assurance Plan proposed for the Purdam Schedule C project.

Engineering has reviewed the Scope of Work and recommends authorization of the Task Order.

MOVED by Skaug and **SECONDED** by Kren to **authorized** the Mayor to **sign** the Task Order with JUB Engineers for the 11th Avenue North Rebuild (Birch Lane to Cherry Lane) in the amount of \$125,961 (NTE). The Mayor asked for a roll call vote with all councilmembers present voting YES. The Mayor declared the

MOTION CARRIED

Mayor Henry presented a request to **authorize** the Mayor to **sign** the **Crystal Cove Subdivision Home Owners Association Encroachment Agreement**.

Michael Fuss presented a staff report explaining that the Crystal Cove Home Owners Association has requested (see Exhibit A) they be allowed to place a permanent sign within the 25-foot common lot, Lot 1 Block 2, designated as a blanket landscape, general utility, drainage and irrigation easement adjacent to West Locust Lane.

The general utility easement is typically used by Idaho Power, Intermountain Gas, Century Link, and Cable One. These utilities do not appear to be in conflict with the proposed sign location.

The drainage facilities located in the lot do not appear to be in conflict with the proposed sign location. The proposed sign location will not be within the vision triangle and not obstruct vision for traffic turning onto Locust Lane from South Raintree Drive (see Exhibits B, C & D).

Engineering does not oppose granting the requested encroachment agreement.

MOVED by Bills and **SECONDED** by Skaug to **authorize** the Mayor to **sign** the **Crystal Cove Subdivision Home Owners Association Encroachment Agreement**. The Mayor asked for a roll call vote with all councilmembers present voting YES. The Mayor declared the

MOTION CARRIED

Mayor Henry presented a request to award the bid and authorize the Mayor to sign contract for irrigation cross-connection materials purchase.

Michael Fuss presented a staff report explaining that the Irrigation Master Plan has identified five (5) locations where the pressure irrigation system can be connected to the potable water system for a supplemental supply source.

The materials were budgeted for in FY15 Irrigation Construction (Pipelines).



KELLER
associates

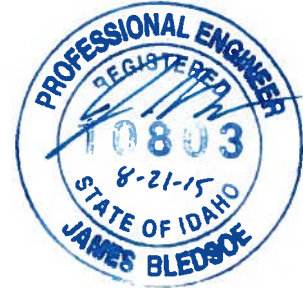
Technical Memo

TO: Michael Fuss, PE, Public Works Director
City of Nampa

FROM: James Bledsoe, P.E

DATE: August 21, 2015

RE: Pressure Irrigation Capital Improvement Plan Update



Background

The City of Nampa Irrigation Master Plan was adopted by the City Council in December 2014. The master plan included an 8-year capital improvement plan, which was prepared prior to the completion of a user rate analysis. At the request of City staff, Keller Associates revised the capital improvement plan to postpone some identified improvements and to more gradually implement the City's pipeline replacement program. The purpose of this technical memorandum is to document the updated capital improvement plan and identify potential implications associated with postponing some previously identified priority improvements.

Approach Overview

Keller Associates met with City staff to review the City's pressure irrigation capital improvement plan, identify which projects had been completed to date, review projects currently budgeted for the next fiscal year, and discuss the purpose and potential phasing of previously identified priority projects. Keller Associates then prepared a revised capital improvement plan for fiscal years 2015-2030.

Providing additional water supply sources will be critical in staying ahead of the demands of new growth. Therefore, in modifying the implementation schedule of improvements identified in the capital improvement plan, priority was given to water supply projects over water pipeline improvements and other system improvements that were intended to improve the current level of service.

Keller Associates also completed computer modeling of the anticipated 2020 scenario for north Nampa to evaluate the impacts of and explore mitigating measures for delaying a new water supply project near CanAda Road and Cherry Lane, referred to as project P1.3 in the master plan. This option is presented below in the Cherry Pump Station Evaluation.

FY 2015 Completed and Anticipated FY 2016 Capital Improvements

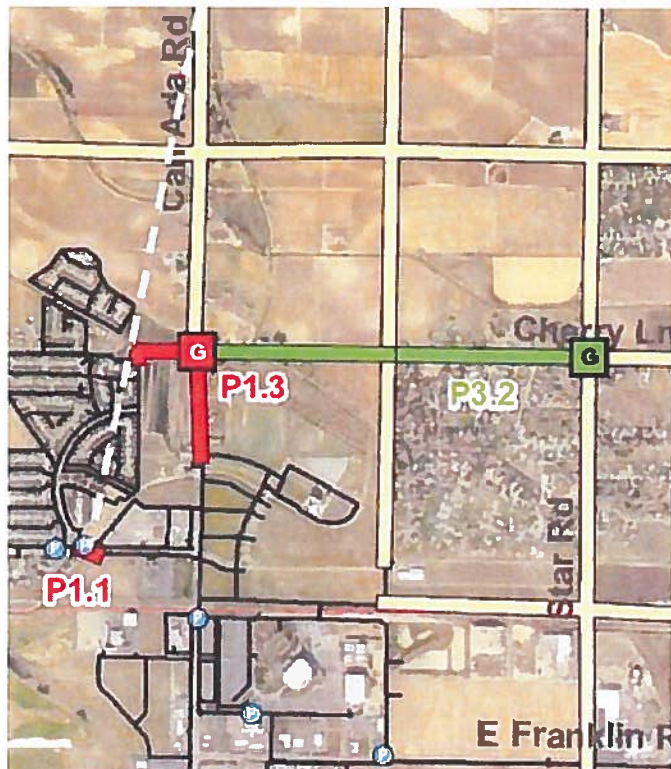
As of August 2015, several pipeline projects (identified as P1.12, P1.18, and P2.6) have been constructed and are now active parts of Nampa's pressure irrigation system located

north of the interstate. Additional pressure reducing valves (identified as P1.6, P1.7, and P1.9) and Pheasant Hollow pump station improvements (P1.4) were completed in south Nampa. The City is also moving forward with installation of cross-connections with the water system at strategic locations.

For FY 2016, Keller Associates recommends that the City move forward with the intertie across Phyllis Canal (Project P1.1) and the Sunny Ridge PRV and pipeline project (Project P1.8), and begin the multi-year process of implementing filter and SCADA upgrades that will improve the pressure irrigation system level of service.

Cherry Pump Station Evaluation

Project P1.3 consists of 12-inch diameter pressure irrigation pipelines on CanAda Road and Cherry Lane and a new 1,500 gpm ground water pressure irrigation source. An additional analysis has been completed to determine the timing of P1.3.



Project P1.3. Excerpt from Figure 4, Appendix A, 2014 Irrigation Master Plan

For this analysis, the pressure irrigation model was updated to reflect the addition of the completed irrigation projects and the soon to be completed P1.1. The population and growth assumptions from the master plan were also applied for the year 2020.

The model results showed that, without P1.3, peak hour demand pressures north of Interstate 84 drop to 10 psi in the year 2020. With P1.3, the pressures will be in the 55-60

psi range which is slightly better than current conditions. The location of the additional supply point is currently shown at the intersection of Cherry Lane and CanAda Road. While this location is ideal, the supply point can be located anywhere in this northeast section of the pressure irrigation system as long as it is connected to a 12-inch diameter pipeline or a networked equivalent grouping of pipelines.

As a mitigating measure to allow the City to delay the implementation of P1.3 until after 2020, Keller Associates also evaluated the use of an additional intertie with the potable water system near the location of P1.3. It was determined that excess potable water supply (with the completion of Well 20 near the new Vallivue High School) could be used to offset irrigation demands and allow P1.3 to be postponed until 2020+, as shown in the revised capital improvement plan attached.

Updated Capital Improvement Plan

Attached are two versions of the revised capital improvement plan for 2015-2030. The first table shows the schedule of improvements in 2014 dollars as presented in the master plan, and the second table shows the schedule of improvements with costs inflated at 2.3% per year.

City of Nampa
Pressure Irrigation CIP (FY2015-2030)

[illegible]

Items in blue text reflect water supply projects which generally have been given priority over transmission projects.
Items with crossed out costs represent completed projects.

City of Nampa

Pressure Irrigation CIP (FY2015-2030)

AUGUST 2015 UPDATE

Fiscal Year Ending September of... (Costs inflated at 2.3% per year)

ID#	Project Description	Asset Management Focus Zone	Cost (2014 dollars)	Asset Zone	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1.1	Phyllis Canal Crossing on Birch Lane		\$ 85,000	B2	\$10,200	\$78,241														
1.2A	Southside PRV and Parallel Line		\$ 111,000	C2			\$118,659													
1.2B	Happy Valley Supply and Locust 12 inch Pipeline		\$ 1,550,000	C2		\$34,267	\$1,621,930													
1.3	Cherry Pump Station and Pipeline; Idaho Center Pipeline		\$ 1,147,000	B2						\$569,000	\$580,500		\$177,429							
1.4	Return Pheasant Hollow Station to Service		\$ 107,000	C2	\$403,000															
1.5	Install Grey Lane PRVs (2) and Associated Pipeline		\$ 309,000	B2								\$43,903	\$328,207							
1.6	Doolley Lane PRV		\$ 36,000	D2	\$46,000															
1.7	Southside PRV		\$ 61,000	C2	\$63,000															
1.8	Sunny Ridge PRV and Pipeline		\$ 472,000	D2	\$50,640	\$388,443														
1.9	Midland PRV		\$ 63,000	E2	\$63,000															
1.10	Midland PRV		\$ 289,000	B2								\$41,061	\$306,964							
1.11	Greenhurst Pipeline North of Skyview High School		\$ 176,000	D2																
1.12	Franklin Road Pipeline		\$ 261,000	A2	\$443,000															
1.13	Midland Supply and Transmission Pipeline		\$ 927,000	E2			\$196,560	\$832,905												
1.14	Tio Line Supply and Pipeline; Burk Lane Pipeline		\$ 1,071,000	D2			\$192,420	\$972,972												
1.15	Happy Valley Pipeline		\$ 162,000	C2									\$73,464	\$175,349						
1.16	14th Ave Railroad Crossing		NA	S0																
1.17	Install Cross Connections		\$ 138,000	Various	\$438,000															
1.18	Albany Park/Crestwood and Moss Point Intertie		\$ 58,000	G2	\$66,000															
1.19	17 Pump Station Filter Upgrades (>1,500 gpm pumps)		\$ 784,000	Various		\$125,520	\$273,120	\$352,944												
1.2	23 Pump Station SCADA Upgrades (>1,000 gpm pumps)		\$ 376,000	Various		\$56,185	\$57,421	\$58,656	\$59,891	\$183,381										
2.1	Iowa Avenue Supply and Pipeline		\$ 1,103,000	E2				\$240,895	\$983,876											
2.2	Upper Zone Intertie; Midland and Greenhurst PRVs		\$ 1,293,000	E2																
2.3	Cherry Lane and 11th Avenue Pipeline		\$ 683,000	A2							\$95,156	\$711,631								
2.4	Connect North Pressure Zones; Pipeline between Costco & East System		\$ 1,579,000	G2									\$246,135	\$1,836,845						
2.5	Franklin Supply; Linden and Franklin Pipelines		\$ 1,874,000	A2										\$619,357	\$1,890,398					
2.6	Franklin Pipeline		\$ 117,000	A2	\$443,000															
2.7	Orchard Ave Pipeline		\$ 353,000	F2					\$47,231	\$353,508										
2.8	Flam 180 Ave Pipeline		\$ 35,000	G2							\$40,635									
2.9	Install Pipeline on Orchard Ave		\$ 45,000	F2						\$51,210										
2.11	1st Street Supply		\$ 735,000	A1						\$204,840	\$644,355									
2.12	20 Pump Station SCADA Upgrades (500 - 1,000 gpm pumps)		\$ 407,000	D2										\$60,073	\$448,774					
3.1	Iowa Ave Supply and Pipeline		\$ 337,000	Various						\$372,126										
3.2	Cherry Ln Supply and Pipeline		\$ 1,148,000	E2										\$60,073	\$448,774					
3.3	Cherry Ln Supply and Pipeline		\$ 1,591,000	B2/A2									\$230,440	\$1,722,098						
3.4	14th Ave North Pipeline		\$ 695,000	C1/A1								\$226,973		\$550,179						
3.5	Kings Rd Supply and Pipeline		\$ 1,285,000	B1								\$304,288	\$1,240,796							
3.6	Kearster Rd Pipeline		\$ 481,000	G2													\$74,978	\$559,576		
3.7	11th Ave North Supply and Pipeline		\$ 1,157,000	A2							\$268,655	\$1,095,910								
3.8	Cherry Lane Pipeline		\$ 667,000	A2																
3.9	Franklin Blvd Pipeline		\$ 80,000	A2																
3.10	Pipeline Between Happy Valley Rd and Brennan St		\$ 228,000	B2/C2								\$104,192								
3.11	Madison Rd Pipeline		\$ 1,415,000	A2								\$32,394	\$243,172							
3.12	South Powerline Rd Supply and Pipeline		\$ 1,551,000	F1/C2																
3.13	S Midland Blvd Supply and Pipeline		\$ 1,421,000	D2																
3.14	Meyers Pump Station Upgrades		\$ 176,000	NA																
3.15	Amity Ave Supply and Pipeline		\$ 1,565,000	B2							\$146,286									
3.16	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.17	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.18	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.19	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.20	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.21	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.22	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.23	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.24	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.25	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.26	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.27	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.28	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.29	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.30	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.31	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.32	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.33	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.34	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.35	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.36	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.37	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
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3.39	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.40	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.41	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.42	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.43	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.44	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.45	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.46	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.47	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
3.48	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																
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3.68	Amity Ave Supply and Pipeline		\$ 1,565,000	B2																