

NOTICE OF PUBLIC MEETING Monday, August 9, 2021

City Council Chambers 680 Park Avenue Idaho Falls, ID 83402 3:00 p.m.

The public is invited to observe City Council Budget Sessions. However, to observe appropriate social distancing guidelines, as recommended by the Centers for Disease Control and Prevention (CDC), the public may view this meeting via livestream on the City's website at https://www.idahofallsidaho.gov/429/Live-Stream. The agenda does not include an opportunity for public interaction.

This meeting may be cancelled or recessed to a later time in accordance with law. If you need communication aids or services or other physical accommodations to participate or access this meeting or program of the City of Idaho Falls, you may contact City Clerk Kathy Hampton at 612-8414 or the ADA Coordinator Lisa Farris at 612-8323 as soon as possible and they will accommodate your needs.

CITY COUNCIL WORK SESSION

Times listed in parentheses are only estimates.

Call to Order and Roll Call

Mayor:

Council:

Human Resources:

Police Department:

Public Works:

DATED this 6th day of August, 2021

-Acceptance and/or Receipt of Minutes
Action Desired: To receive recommendations from the
Planning and Zoning Commission
-Calendars, Announcements, Reports, Coronavirus (COVID-19)
Update, and Legislative Update as needed (15)

-Liaison Reports and Councilmember Concerns (15)

-Council consideration and approval of 2021/2022 Health Insurance Provider (45)

Action Desired: Approve insurance contract with Pacific Source and authorize the Mayor to execute the necessary Documents, or take other action deemed appropriate

-Discussion: Project Underground Donations (20)

-Discussion: Idaho Standards for Public Works Construction and new Design Manual (40) -Discussion: Impact Fees (15)

Kathy Hampton City Clerk

DAHO FALLS

Planning Department

Office (208) 612-8276 Fax (208) 612-8520

Building Department

Office (208) 612-8270 Fax (208) 612-8520

MEMORANDUM

TO: Honorable Mayor and Council

FROM: Brad Cramer, Community Development Services Director

DATE: August 4, 2021

RE: August 3, 2021, Planning Commission Action

Planning Commission took the following action during the August 3, 2021, meeting.

- 1. <u>RZON21-015</u>: Ordinance Amendment for Neighborhood Meeting Code Changes. Amendment of the Subdivision Ordinance, Section 10-1-8 and the Comprehensive Zoning Ordinance, Sections 11-6-2, 11-6-3, 11-6-4, 11-6-8, 11-7-1 outlining a process to require neighborhood meetings as part of the development process for preliminary plats, Planned Unit Developments, Rezoning or Conditional Use Permits. On August 3, 2021, the Planning and Zoning Commission voted to recommend approval of the ordinance amendments to the Mayor and City Council as presented with a vote of 3 to 1.
- 2. <u>RZON21-014</u>: REZONE. Rezone from RMH to R3A for Lots 1-3, Portion of lots 6-7, Block 1, Hodson Addition. North of Lincoln Rd, East of Idaho Canal, South of N Yellowstone Hwy, West of N Woodruff Ave. On August 3, 2021, the Planning and Zoning Commission unanimously voted to recommend approval of the rezone from RMH to R3A to the Mayor and City Council as presented.
- 3. <u>ANNX21-011:</u> ANNEXATION/INITIAL ZONING. Annexation and Initial Zoning of R3A for Lots 6-11, Block 1, and Lots 1-5, Block 6, Hodson Addition, Division No. 1 and adjacent right of way for Woodruff Circle and Hawthorne Street. North of Lincoln Rd, East of Idaho Canal, South of N Yellowstone Hwy, West of N Woodruff Ave. On August 3, 2021, the Planning and Zoning Commission unanimously voted to recommend approval of the annexation and initial zoning of R3A to the Mayor and City Council as presented.
- 4. <u>PLAT21-025:</u> FINAL PLAT. Final Plat for Providence Point Division 1, First Amended. North of E 49th S, East of Providence Point Dr, South of Resilient Ln, West of Stanfield Ln. On August 3, 2021, the Planning and Zoning Commission unanimously voted to recommend approval of the final plat to the Mayor and City Council as presented.
- 5. <u>PLAT21-017:</u> FINAL PLAT. Final Plat for Teton View Estates Division 1. North of Saddle Rock Ln, East of Glen Abby Cir, South of E 65th N, West of N 5th E. On August 3, 2021, the Planning and Zoning Commission voted to recommend approval of the final plat as presented with a vote of 3 to 1.

RECOMMENDED COUNCIL ACTION: To receive recommendation(s) from the Planning and Zoning Commission pursuant to the Local Land Use Planning Act (LLUPA).

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Digital Intelligence, Inc. 17165 West Glendale Drive New Berlin, WI 53151

Voice: (262) 782-3332 Fax: (262) 782-3331 Email: sales@digitalintelligence.com

Request for Quote

 Date
 Quote #

 6/30/2021
 Q20210630B

Customer
Idaho Falls Police Dept
Kyle Christopherson
Tel: 208-612-8644
kchristopherson@idahofallsidaho.gov

Item Description	Quantity	Unit Cost	Total
K6000 Forensic Recovery of Evidence Data Cent (FREDC) consisting of:	er 1	97,845.00	97,845.00
F6230 Forensic File Server (4U)	1		
Dual(2) Intel® Xeon® 4110 CPUs, (8 Core) 2 GHz/3.0 GHz, 11MB Cache [T1342]	.1		
128 GB(4x32GB) PC4-21300 DDR4 2666 MHz ECC Memory [T2326]			
100 TB Internal RAID Array (80 TB RAID6, 1 TB Drives)	0 X 10		
1 x 500 GB 7200 RPM SATA Hard Drive in rem drive bay - Disaster Recovery Drive	ovable		
4 port (16 channel) 12Gb/s SAS controller	card		
<pre>Detailed System Specifications: 4U Rackmount Enclosure (10 Bays) 1200 Watt Modular Power Supply Dual Intel® Socket P (LGA 3647) Motherboar Intel® Xeon® Scalable Processors Family Intel® C621 Chipset 12 DIMM Slots supporting DDR4 2666/2400 Registered ECC (RDIMM, LR-DIMM) Memory - 768 GB 7 PCI-Express 3.0(x16)Slots 8 ports Intel® 6 Gb/s SATA Controller 2 ports ASMedia® 6 Gb/s SATA Controller 4 x U.2 connector 1 x M.2 Socket 3, with M Key 2 Intel® I210-AT Gigabit LAN RJ45 ports Realtek® S1220A 7.1-Channel High Def Audio 1 x Optical S/PDIF out 1 x 8-channel Audio I/O 1 PS/2 Ports (Keyboard & Mouse Combo) Intel® X550-T2 10GbE LAN controller - 2 po 4 USB 2.0 Ports - 2 Back, 2 Front Mounted 10 USB 3.1 Gen 1 ports - Back Mounted 1 USB 3.1 Gen 2 port - Back Mounted</pre>	d for (205W) up to CODEC rt		



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 Date
 Qu

 6/30/2021
 Q2022

Quote #

	<pre>4 x 2.5" SATA Drive Chassis with external access 2 x RAID Chassis with 5 removable drive bays each (10 total) BD-R/BD-RE/DVD±RW/CD±RW Blu-ray Burner Dual-Layer Combo Drive</pre>		
S1601	Operating System Software - SUSE Linux Enterprise Server Operating System	1	
S1615	Xming X Server Software for FREDC	1	
S1616	Eltima USB Network Gate Software for FREDC	1	
S1626	FREDC Backup Software - NetVault	1	
T5538	<pre>Master Unit - 240 Terabyte RAID Array Module (220 Terabyte RAID6) (4U) 24 Bay, 4U Rackmount RAID Enclosure (Multilane SAS Attached) 24 x 10 TB, 7200 RPM Hard Drives in Hotswap removable drive trays</pre>	1	
<mark>T5539</mark>	JBOD Unit - 240 Terabyte Array Module (220 TB RAID6) 24 Bay, 4U Rackmount RAID Enclosure (Multilane SAS Attached) 24 x 10 TB 7200 RPM Hard Drives	1	
T6018	LTO-8 Ultrium Robotic Tape Library (2U) LTO-8 Ultrium Drive, 24 Slot Library, SAS interface	1	
T6015	LTO-8 Media Set Qty 11 x Data Media (12 TB/30 TB capacity) Qty 1 x Cleaning Media	1	
т6233в	10 Gigabit (Copper) Network Switch Qty 1 x Fully managed, line-rate 10G Copper 'Base-T' rackmount switch. Supports up to 48 10GBase-T (RJ45) and 4 SFP+ ports.	1	
т6236	24 Port Rackmount Cat 6A Patch Panel (1U)	2	
C6001	Cat 5e 10ft Patch Cable Set - 5 cables	1	
C6002	Cat 6A 1ft Patch Cable Set - 25 cables	2	
C6003	Cat 6A 10ft Patch Cable Set - 5 cables	1	
X9070	Rackmount 19 inch LCD Display with integrated Keyboard/Track Pad (1U)	1	
X9071	8 port KVM Switch KVM with IP Remote Access	1	
C6004	KVM Cable Set - Qty 1 x USB Cable	2	
T6214	12 Outlet 15A 120V Rackmount Power Strip	1	



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6/30/2021	Q20210630B

X9072	2U Rackmount Shelf	2	
T6213	3000 VA Rackmount Uninterruptable Power Supply (UPS) (2U)	1	
т6240	42U Rack Mount Cabinet, Black, 42" deep with rear ventilation fans - 24"(w) x 44"(d) x 81"(h)	1	
F1130 RM	Forensic Recovery of Evidence Device - RackMount (FRED-RM) (4U)	1	
	Intel® Core™ i9-10980XE 18 Core Processor, 3.0 GHz Base /4.6 GHz Turbo, 24.75MB Intel® Smart Cache [T1063]		
	128 GB Memory PC4-21300 DDR4 2666 MHz (8x16GB) [T2015]		
	Nvidia RTX 3080 10 GB Graphics Card – 1 HDMI, 3 DisplayPort [T0038]		
	NVME M.2 PCIE Solid State Drives DRIVE 1 - 1 TB M.2 NVMe PCIE Solid State Drive [T3044] - Operating System installed on DRIVE 1 DRIVE 2 - 2 TB M.2 NVMe PCIE Solid State Drive [T3099B]		
	SATA Connected Drives DRIVE 3 - 4 TB Solid State SATA Drive [T3080] DRIVE 4 - 4 TB Solid State SATA Drive [T3087] DRIVE 5 - 1 TB Solid State SATA Drive [T3092] DRIVE 6 - 1 TB Solid State SATA Drive [T3085] DRIVE 7 - 1 TB Solid State SATA Drive [T3085]		
	USB3.1 HotSwap Connected Drives		
	10 Gigabit Network Card - 1 port [T6238]		
	<pre>Windows 10 Professional (64 bit) [T0018] Other Operating System included: openSUSE Tumbleweed (64 bit)</pre>		
	System Restore Media - Bootable Blu-ray disc containing restore environment and factory configured operating system images		
	 Hardware Write Blocking: Digital Intelligence® UltraBay 4d Hardware Write-Blocker with touch screen display: Integrated IDE Drive Write Blocker Integrated SATA Drive Write Blocker Integrated SAS Drive Write Blocker 		



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Quote #

• Integrated USB 3.0/2.0 Write Blocker	
• Integrated FireWire IEEE 1394b Write	
Blocker	
• Integrated PCIe Write Blocker	
 Write-Block and Read/Write visibility via 	
Lock/Unlock LEDs	
• Read and write mode capabilities for all	
device ports controlled via front panel	
 Allows simultaneous imaging of 2 attached 	
devices	
Digital Intelligence® Integrated Forensic Media	
Card Reader - Read-Only and Read/Write	
switchable	
Digital Intelligence® Imaging Workshelf -	
Extendable/Retractable with integrated ventilation	
Detailed System Specifications:	
4U Rackmount Enclosure (10 Bavs)	
1200 Watt Modular power supply	
Intel® X299 Chipset Motherboard - Workstation	
series	
7 PCI-Express 3.0(x16)Slots	
1 M.2 Socket 3, with M key, type	
(DCLE 2 0 x 4 mode)	
$(PCIE 5.0 \times 4 \text{ mode})$ 1 M 2 Socket 3 with M key type 2242/2260/2280	
storage devices support (PCIE 3.0 x 4 mode)	
8 x SATA 6Gb/s port(s)	
2 x U.2 connector	
2 RJ45 LAN ports -	
Intel® I210-AT, 1 x Gigabit LAN Controller	
Intel® I219-LM, 1 x Gigabit LAN Controller	
Realtek® ALC SI220A 7.1 Channel High Def Audio	
6 IISB 2 0 ports - 4 Back Mounted 2 Front	
Mounted	
3 USB 3.0 ports - Front Mounted	
7 USB 3.1 Gen 1 ports - Back Mounted	
1 USB 3.1 Gen 1 Type C port - Back Mounted	
1 USB 3.1 Gen 2 ports - Back Mounted	
1 USB 3.1 Gen 2 Type C port - Back Mounted	
1 Write Blocked USB 3.0/2.0 port - Front Mounted	
Mounted	
1 Write Blocked SATA port - Front Mounted	
1 Write Blocked SAS/SATA port - Front Mounted	
1 Write Blocked IDE port - Front Mounted	
1 Write Blocked PCIe port - Front Mounted	
4 x 2.5" SATA Drive Chassis with external access	
1 x Shock Mounted SATA Removable Hard Drive Bays	
(IDE Capable)	
I X HOTSWAP Shock Mounted Universal (IDE/SATA	1



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	compatible) Removable Hard Drive Bays BD-R/BD-RE/DVD±RW/CD±RW Blu-ray Burner Dual-Layer Combo Drive			
	Toolbox containing: Adapters, Cables, Security Screwdriver Set and OEM Documents			
	Other Software included: Symantec Ghost, CD Authoring Software			
	Rackmount Rail Set			
	Warranty: 3 years			
B1100	Free Training (Limited Time Offer): One Seat per System in the 1-day FRED orientation and training course "Digital Forensics with FRED" Please note: Training held at Digital Intelligence headquarters New Berlin, WI.	1		
	<pre>Three Year Warranty 3 years hardware warranty, lifetime technical support (telephone, email, online support ticket system)</pre>	1	INC	INC
T62071	(OPTIONAL) Annual Support Visit: 1 Day on-site support visit providing additional procedural review, training, and general assistance as requested by customer. Customer to schedule at the end of warranty year 1 (use or lose). (CONUS)	1	3,000.00	3,000.00
T62072	(OPTIONAL) Annual Support Visit: 1 Day on-site support visit providing additional procedural review, training, and general assistance as requested by customer. Customer to schedule at the end of warranty year 2 (use or lose). (CONUS)	1	3,000.00	3,000.00
T62073	(OPTIONAL) Annual Support Visit: 1 Day on-site support visit providing additional procedural review, training, and general assistance as requested by customer. Customer to schedule at the end of warranty year 3 (use or lose). (CONUS)	1	3,000.00	3,000.00
	Onsite Installation, Configuration, and Equipment Orientation (Continental US)	1	INC	INC
	SITE REQUIREMENTS			
	Standard 120 Volt Electrical Requirements: FREDC requires a 30 Amp, 120 Volt circuit with a NEMA L5-30R receptacle for each UPS unit.			
	Optional (by request) 230 Volt Electrical Requirements for International Customers: 16 Amp, 230 Volt circuit with receptacle for one			



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 6/30/2021
 Q20210630B

Fed Tax ID # 39-1957034

of the following plug types - (IEC-320 C20, Schuko CEE 7 / EU1-16P, British BS1363A) for each UPS unit.			
<u>Cooling Load:</u> Each UPS unit is capable of providing 2700 watts of power at maximum output resulting in a maximum heat output of about 9215 BTU/HR for cooling load. Standard build does not saturate UPS.			
Network Cabling: Cat6A (for 10G network) cabling should extend from FREDC location <u>directly</u> to work stations included in the forensic network. Cabling at FREDC location should be terminated with standard RJ45 plugs and 10 feet of excess length. Cat5e(for 1G network)cabling can be utilized but will decrease network performance.			
EggMail Notification System (US Only): Sends text message system notifications. Requires adequate cellular coverage at FREDC location. Only available in United States.			
Freight and Delivery charges (CONUS) Note: All freight deliveries are dock or curb-side only	1	700.00	700.00
Available Extended Maintenance Contracts - Please contact Digital Intelligence Sales			
Additional FREDC Options available - Please contact Digital Intelligence Sales for more information on Database Server and Virtual Machine Servers.			
All prices are in U.S. Dollars	Subtota WI Sales	al \$1 Tax	107,545.00 0.00
I his quote is valid for 30 days from date of issue. To order please FAX P.O. to (262) 782-3331 or email to <u>sales@digitalintelligence.com</u> Thank you for your interest	Total	\$ 1	107,545.00

Prepared by: Jane Stone Rev.01292021



Jordan Detection K-9 1048 N Buck Creek Rd. Greenfield, Indiana 46140 765-278-0743

ELECTRONIC DETECTION K-9 AWARD APPLICATION

GENERAL INFORMATION:

Over the past few years, Jordan Detection K-9 has partnered with several not for profits. When they discovered the availability of trained K-9's that could be of great assistance investigating child exploitation and human trafficking type crimes, they felt an obligation to help law enforcement agencies obtain this new tool to aid in their investigations. The not for profit underwrites the program and will provide funding for an Electronic Storage Detection K-9 to law enforcement agencies who successfully complete an award application and meet all of the terms and conditions of the program.

The applications will be reviewed by Chief Trainer, Todd Jordan, Jordan Detection K-9. Final determination of the agency receiving the award will be made by the Board of Directors of the specific not for profit making the donations. The award will consist of a fully trained and certified Electronic Storage Detection K-9 trained and certified by Jordan Detection K-9. Initial training and certification of an agreed upon handler by Todd Jordan will be included.

TRAINING AND CERTIFICATION:

The training and certification of the awarded K-9 is conducted solely by Jordan Detection K-9 located in Indianapolis, Indiana. Jordan Detection K-9 develops the curriculum and oversees all training and instruction for the program. The highly intensive two week handler course will include classroom instruction, scenario based real life training, as well as various physically demanding training exercises. The canines are trained to work through all types of environmental issues and discriminate and locate many types of electronic devices throughout the training program.

At the end of the two week course, the teams are required to pass a certification standard test conducted by Jordan Detection K-9 CEO/Chief Trainer, Todd Jordan. This certification is critical to the success of the handler. Evidence uncovered by the K-9 may become a key point in subsequent criminal and civil trials.



Jordan Detection K-9 1048 N Buck Creek Rd. Greenfield, Indiana 46140 765-278-0743

After completing the initial two week training, the K-9 and handler become a team. Each team must recertify annually at one of the recertification locations. Annual recertification arrangements and fees will be determined and agreed upon by the agency and Jordan Detection K-9. A five year commitment by the law enforcement agency receiving the award is required. If the K-9 is not recertified yearly by a representative of Jordan Detection K-9 or the department doesn't complete the five year commitment, the applicable not for profit shall be reimbursed the total amount paid for the K-9. The K-9 will be decertified and retired to the agency/handler. Should the agency decide to change handlers of the K-9, the agency shall be responsible for the cost of a two week handler school through Jordan Detection K-9 to re-train the new handler.



Jordan Detection K-9

1048 N Buck Creek Rd.

Greenfield, Indiana 46140

765-278-0743

APPLICATION

AGENCY INFORMATION:

NAME: _____

ADDRESS:	S:	
EMAIL ADD	DDRESS:	
PHONE CO	CONTACT:	
APPLICANT,	NT/HANDLER INFORMATION:	
NAME:		

ADDRESS: ______



Jordan Detection K-9

1048 N Buck Creek Rd.

Greenfield, Indiana 46140

765-278-0743

EMAIL/PHONE CONTACT: _____

REQUIRED INFORMATION:

Is there an Electronic Storage Detection K-9 in your area? Yes _____ No _____ Don't Know _____

If yes, where is the team located? Did the K-9 go through Jordan Detection K-9 for certification?

How many search warrants were conducted by your ICAC Task Force for the previous two years?

Attach a current resume of the applicant describing their job and training history including a list of certifications and agency/department work experience.



Jordan Detection K-9 1048 N Buck Creek Rd.

Greenfield, Indiana 46140

765-278-0743

APPLICANT/HANDLER MUST COMPLETE THE FOLLOWING:

______, in consideration of my participation in the l, _____ Not for Profit Grant Program, do hereby release the Not for Profit, Jordan Detection K-9, and any contributors and all other departments or agencies associated with the program, from any and all liability for any illness or bodily injury sustained by, or alleged to have been sustained by the applicant/handler arising in any way from his/her participation in this program.

Signature:_____ Date: _____

AGENCY/DEPARTMENT MUST COMPLETE THE FOLLOWING:

The applicant is a full-time employee of the agency named above, is in good health and can complete all phases of training.

Yes _____ No _____

Applicant has the ability to walk three to four miles per day. Yes _____ No _____

Applicant has the ability to walk backwards, touch the floor and reach to throw targets.

Yes _____ No _____



Jordan Detection K-9 1048 N Buck Creek Rd. Greenfield, Indiana 46140 765-278-0743

The agency listed on the agency information line on this form is attached to an Internet Crimes Against Children Task Force.

Yes _____ No _____

The agency conducts search warrants in child exploitation cases. Yes _____ No _____

The agency supports the applicant/handler named above. Yes _____ No _____

The agency agrees to the terms and conditions required with the five year commitment or handler change.

Yes _____ No _____

The agency will be responsible for the K-9's care which includes but is not limited to, food, veterinarian care, yearly recertification through Jordan Detection K-9 and general care and transport of the K-9.

Yes _____ No _____

The agency can accept a partial donation towards the purchase of a K-9. Yes _____ No _____

The agency requires a full donation towards the purchase of a K-9. Yes _____ No _____



Jordan Detection K-9 1048 N Buck Creek Rd. Greenfield, Indiana 46140 765-278-0743

Once an agency is chosen, and a K-9 has been purchased, an agency will be unable to cancel without paying a \$1,500.00 fee to maintain the K-9 until the next class. Once Jordan Detection K-9 has been notified that the agency has canceled or given up their place in class, an invoice for \$1,500.00 shall be paid by the agency.

I agree with the above \$1,500.00 fee requirement. Yes _____ No _____

If the K-9 is not recertified yearly by a representative of Jordan Detection K-9 or the department doesn't complete the five year commitment, the applicable not for profit shall be reimbursed the total amount paid for the K-9. The K-9 will be decertified and retired to the agency/handler. Should the agency decide to change handlers of the K-9, the agency shall be responsible for the cost of a two week handler school through Jordan Detection K-9 to re-train the new handler.

I agree with the above statement. Yes _____ No _____

The not for profits and Jordan Detection K-9 require that the K-9 lives in the handler's personal residence and shall NOT be kept in a kennel. The K-9 must be present with the handler during the work day in the office or general vicinity of the handler for working and bonding purposes and not kept separate from the handler.

I agree with the above terms. Yes _____ No _____

The Electronic Detection K-9 will not receive training from any other agency , trainer or handler while under the 5 year commitment, failure to consistently train the K-9 in the manner taught by Jordan Detection K-9 will result in full reimbursement of the K-9 to the not for profit.

I agree with the above terms. Yes _____ No _____



By accepting a donated K-9, the agency agrees to share statistics which involve the K-9 with the donor(s). This includes number of search warrants, number of devices found, and any other relevant information that the organization may report back to the donors who funded the K-9. The K-9 shall be made available for media releases and donors shall be acknowledged in such media releases.

l,	, the Chief/Department Head of the
agency named above, in consideration of the participation	by,
(applicant/handler) in the Not for Profit K-9 Program, do he Not for Profit, Jordan Detection K-9, and any contributors t departments or agencies associated with the program, fror bodily injury sustained by, or alleged to have been sustaine from his/her participation.	ereby on behalf the department release said o the not for profit and any and all other m any and all liability for any illness or other ed by the applicant/handler arising in any way
SIGNATURE:	DATE:
SUBMIT TO: jordandetectionk9@gmail.com	
For Office Use Only:	
Applicant approved by:	Date:
Applicant Name:	Class Completion Date:



OPERATION UNDERGROUND RAILROAD (O.U.R.) DOMESTIC LAW ENFORCEMENT SUPPORT MUTUAL AGREEMENT FOR THE RECEIPT OF CONTRIBUTIONS

This Mutual Agreement Document (MAD) will govern contributions from O.U.R. to the Idaho Falls Police Department, each reserving the right to withdraw from the MAD with 30-day written notice with or without cause.

O.U.R. is a non-profit organization that exists to protect children from sex trafficking and sexual exploitation, a mission best accomplished through collaboration with law enforcement agencies (LEAs) both in the U.S. and abroad. O.U.R.'s domestic endeavors are different than its international activities. O.U.R. does not conduct domestic operations. O.U.R. recognizes that U.S. LEAs have the authority to enforce the laws relating to human trafficking and child exploitation and are therefore best positioned to conduct investigative and operational activities in this fight. O.U.R. is committed to empowering domestic LEAs by providing tools, training and technology to enhance their abilities to combat child exploitation.

O.U.R. shares a mission consistent with Internet Crimes Against Children (ICAC) task forces and has agreed to coordinate any domestic support with them. The receiving LEA will advise the presiding ICAC Commander in its state of this contribution to avoid duplication of efforts and to facilitate de-confliction.

The receiving LEA is responsible for researching agency or governing board policies and state laws governing the acceptance of contributions from 501(c)(3) organizations, and getting the necessary approvals to receive donations, in any form, from O.U.R. The receiving LEA will be responsible for any recurring costs associated with the Electronic Storage Detection Dog or any other subsequent contributions.

O.U.R. is fully sustained by donors who generously give to help save children from being victimized by sexual predators, and to identify, rescue and heal those who have fallen prey to such predation. O.U.R. donors deserve to be informed regarding how their donations equate to the "measurables" necessary to combat child exploitation. By accepting this canine you agree to provide O.U.R. with numbers of any individuals arrested, or victims identified with the assistance of the donated canine. O.U.R. does not require any names or case identifiers, just raw numbers provided in bimonthly reports which O.U.R. will solicit. Furthermore, if forensic analysis of any devices located by the donated canine leads to the identification of a victim/s, those numbers, no names, are requested to facilitate program evaluation, and most importantly assure our donors that these extraordinary dogs are doing exceptional things to safeguard children. Additionally, O.U.R. is required to account for contributions made to LEAs during biannual audits. Such reports will provide documentation and indicators of yield associated with this contribution.

Attachment A will delineate specific contributions for subsequent donations with the original MAD remaining the governing document. Withdrawal from this document will not exempt the LEA, from agreed upon reporting requirements. Further, withdrawal from or noncompliance with the terms of this MAD shall not obligate the LEA to refund or reimburse O.U.R. for the contributions provided hereunder.

Donors deserve seeing how their contributions translate to children being safeguarded from predators, and such reporting and media exposure is a great motivator for continued support to O.U.R., which enables O.U.R. to further support LEAs. Where O.U.R. contributions support an operation resulting in arrests or other newsworthy activity, acknowledgement of O.U.R.'s support is requested in associated press releases. O.U.R. will coordinate with the LEA's designated media rep about sharing, via website or social media posts, any successes and stories of interest made possible by the support provided. O.U.R. will not publish or share LEA identifiers, such as name or logo, without prior written consent of LEA.

Certain donors like to name the dogs they sponsor. In such cases we respectfully ask the receiving LEA to honor this request. If no name is requested by the sponsor, you will be notified by Jordan Detection K-9 to name your dog at the appropriate time.

Acceptance of any O.U.R. donations shall not create any requirements or obligations of LEA except for those specifically stated in the preceding paragraphs.

For any future donations governed by this document, a description, reporting requirements and other specifics associated with the donation will be provided for agreement of both parties as a supplement to this original agreement with an addendum delineating the contribution.

Designated LEA Point of Contact for Reporting: Phone number: Email:

Designated LEA Media Representative: Phone number: Email:

The following donations, or forms thereof, will be provided to the Idaho Falls Police Department:

- 1) Electronic Storage Detection Canine through Jordan Detection K-9s
- 2) Forensic File Server, Software, and hardware

Please sign below in acknowledgment that you understand the content herein and will agree to O.U.R.'s requests as the recipient of donation/s listed. Attachment A can be used for any subsequent contributions governed by this MAD.

 O.U.R. Representative Name
 Idaho Falls Police Department

 O.U.R. Representative Signature
 Law Enforcement Representative Name

 Date
 Law Enforcement Representative Signature

IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION



STANDARD DRAWINGS AND SPECIFICATIONS

Public Works

Engineering

Construction

July 2021

City of Idaho Falls Standard Drawings and Specifications

Introduction:

The City of Idaho Falls has adopted the 2020 edition of the Idaho Standards for Public Works Construction (ISPWC) as its standard drawings and specifications with the modifications listed in the following Specifications. In the event of a conflict between the ISPWC and the City of Idaho Falls Standard Drawings and Specifications, the City of Idaho Falls Standards shall govern unless the contrary is approved in writing by the Idaho Falls City Engineer for a specific circumstance. The terms "Engineer" and "City" in the ISPWC and the City of Idaho Falls Specifications shall refer to the Idaho Falls City Engineer and the City of Idaho Falls, respectively.

CITY OF IDAHO FALLS

STANDARD SPECIFICATIONS

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CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 200 - EARTHWORK

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 200 – Earthwork

<u>Section 201 – Clearing and Grubbing and Removal of Obstructions, Part 3.2 Removal of</u> <u>Obstructions</u>

Add Item A.5:

5. When necessary to remove fencing, replace it in an equal to or better than condition as it was originally and confine livestock and other domestic animals in conformance to Section 2040 – Fencing.

Section 202 – Excavation and Embankment, Part 3.3 Controlled Blasting

Add Item A.4:

4. Where blasting is necessary during rock excavation, notify all entities that have or may have underground utilities in the area and make a copy of the blasting plan available to them a minimum of forty-eight (48) hours prior to commencing blasting operations.

Section 203 – Soil Materials, Part 3 Workmanship

Add Item 3.1 A and B:

- 3.1. Workmanship
 - A. Fine grade and roll topsoil area to provide a fine textured, smooth and firm surface, free of footprints, undulations or irregularities.
 - B. 6" minimum topsoil thickness or as shown on the City-approved project drawings or as directed by Engineer.

Section 203 – Soil Materials, Part 4 Measurement and Payment

Add Item 4.1:

4.1. Use one of the following unit price options as designated in the Bid Schedule. Includes all labor, materials, equipment and tools required to perform the work as specified. If required and not listed in the Bid Schedule, the following Bid Items are to be considered incidental to other Bid items.

- A. Topsoil: By the cubic yard.
 - 1. Bid Schedule Payment Reference: 203.4.1.A.1.
 - 2. Bid Schedule Description: Topsoil... cubic yard (CY).
- B. Topsoil: By the square yard.
 - 1. Bid Schedule Payment Reference: 203.4.1.B.1.
 - 2. Bid Schedule Description: Topsoil... square yard (SY).

Section 205 – Dewatering, Part 1.5 Permits

Item C, Delete "Part 1.4.B" and Insert "Part 1.5.B".

CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 300 - TRENCHING

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 300 – Trenching

Section 302 – Rock Excavation, Part 3.1 General

Add Item E:

E. Where blasting is necessary during rock excavation, notify all entities that have or may have underground utilities in the area and make a copy of the blasting plan available to them a minimum of forty-eight (48) hours prior to commencing blasting operations.

Section 305 – Pipe Bedding, Part 3.3 Class A-2 Bedding System

Item A, **Delete** "either Type II or".

Section 305 – Pipe Bedding, Part 3.4 Class B-1 Bedding System

Delete Part 3.4 Class B-1 Bedding System.

Section 306 – Trench Backfill, Part 1.1 Section Includes

Item A, **Delete** "Pipe bedding" and **Insert** "Trench backfill".

Section 306 – Trench Backfill, Part 2.3 Imported Trench Backfill Material

Delete Item A and **insert** new Item A:

A. 6-inch minus uncrushed aggregate conforming to Section 801 – Uncrushed Aggregate.

<u>Section 307 – Street Cuts and Surface Repairs, Part 3.8 Type "P" Surface Restoration (Asphalt Roadway Surfaces)</u>

Delete Item E and insert new Item E:

E. Asphalt concrete pavement thickness is to match existing pavement depth to a maximum depth of 6 inches unless a greater section is otherwise indicated in the Contract Documents. In no case shall pavement thickness be less than 2-1/2

inches on local residential streets, 3 inches on local industrial or designated collector streets, or 4 inches on arterial streets.

Delete Item F and insert new Item F:

F. After base compaction, saw cut existing pavement as necessary to establish straight edges and to provide for patches/patch segments that are rectangular in shape and whose edges are approximately perpendicular and parallel to the direction of traffic flow.

Delete Item H and **insert** new Item H:

H. Repair damaged or broken sections of pavement by vertical saw cutting from existing cut line to outside of damaged pavement, then parallel to trench, then back to the existing cut line in a rectangular manner.

Item J.3, delete "2 feet" and insert "3.5 feet".

<u>Section 307 – Street Cuts and Surface Repairs, Part 3.9 Type "P" Surface Restoration (with</u> <u>Pavement Fabric)</u>

Delete Item E and insert new Item E:

E. After base compaction, saw cut existing pavement as necessary to establish straight edges and to provide for patches/patch segments that are rectangular in shape. Cut the asphalt overlay above the fabric an additional 4 inches.

Division 300 – Trenching – Standard Drawings

Delete the following Standard Drawings:

Delete SD-301 Delete SD-302 Delete SD-303 Delete SD-303A Delete SD-303B Delete SD-308

Add the following Idaho Falls Standard Drawings:

Add IF-301 Add IF-302 Add IF-303 Add IF-308 Add IF-309 Add IF-310 Add IF-311 Add IF-312



CITY OF IDAHO FALLS

TYPICAL PIPE PIPE BEDDING SECTION

STANDARD DRAWING ^{NO.} IF-302

2018 REVISION

NOTE (A) REFER TO SECTION-305 FOR MATERIAL AND COMPACTION REQUIREMENTS.

BEDDING SYSTEM	BEDDING MATERIAL		
	LOWER BEDDING ZONE	UPPER BEDDING ZONE	
CLASS A-1	TYPE I	TYPE I	
CLASS A-2	TYPE I	TYPE III	
CLASS B-2	TYPE III	TYPE III	
CLASS C-1 (CONCRETE CAP)	TYPE I	TYPE IV	
CLASS C-2 (CONCRETE CRADLE)	TYPE IV	TYPE I	
CLASS C-3 (CONCRETE ENCASEMENT)	TYPE IV	TYPE IV	





9 (3) (4) (4) (4) (3) (4) (5) (4) (5) (4) (5) (5) (4) (5) (5) (5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7	AWCUT PER SEC. 300. EXISTING ASPHALT PAVEMENT	13 VARIES VARIES 0 0 0 0 0 0 0 0 0 0 0 0 0
TYPE "B" CONCRETE	TYI	PE'P' TYPE "C"
EXISTING OVERLAY EXISTING PAVEMENT (DO NOT DAMAGE)	FABRIC	(3) OKKYVEL (3) OKKYVEL (1) (6) (2) (1) (6) (1) (1) (6) (1) (6) (1) (6) (1)
		TYPE 'P'
		LEGEND
NOTES: A REFER TO SECTION-307 FOR MATERIALS AND WORKLANSUE DEGUE		\bigcirc 8" OF 3/4" MINUS CRUSHED AGGREGATE BASE (MIN.) UNLESS A GREATER DEPTH IS OTHERWISE SPECIFIED.
 (B) ALL STREET CUTS WILL REQUIRE RESURFACING BY A PAVING MACHINE OR SPREADER BOX. PATCH WIDTHS ARE NEVER TO BE LESS THAN 4' IN WIDTH. (C) WHERE THE STREET SUBSACE INCLUSES AN AUGUAR WITH 		(2) MATCH EXISTING PAVEMENT DEPTH TO 6" UNLESS A GREATER DEPTH IS SPECIFIED. USE A 2 1/2" (MIN.) MAT ON RESIDENTIAL STREETS AND 3" (MIN.) MAT ON INDUSTRIAL AND COLLECTORS AND 4" (MIN.) ON ARTERIALS.
C WHERE THE STREET SURFACE INCLUDES AN OVERLAY WITH FABRIC, TAKE THE FOLLOWING ADDITIONAL STEPS: A. OVERLAY ABOVE FABRIC AN ADDITIONAL 4" ON EACH SIDE TO EXPOSE EXISTING FABRIC. B. INSTALL NEW ASPHALT TO GRADE FABRIC. C. INSTALL NEW FABRIC FULL WIDTH OF CUT, IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS. D. OVERLAY FABRIC WITH ASPHALT TO FINISH GRADE OF STREET.		 ③ PORTLAND CEMENT CONCRETE SHALL BE CLASS 4000 psi EARLY STRENGTH, AND COMPLY WITH SECTION-706. CUT ASPHALT MAT IN NEAT STRAIGHT LINE. ④ KEEP TRAFFIC OFF 72 HOURS, UNLESS OTHERWISE APPROVED BY THE ENGINEER. ⑤ MINIMUM DISTANCES. 4" OVERLAP APPLIES WHERE FABRIC
D TACK ALL COLD JOINT SURFACES WITH EMULSION WHICH HAS BEEN "BROKEN" PRIOR TO PATCHING.		 IS BETWEEN ASPHALT LAYERS. CUT ASPHALT IN NEAT STRAIGHT LINE.
(E) PATCH EDGES THAT RUN LONGITUDINAL TO THE ROADWAY ARE ALLOWED ONLY AT THE EDGES OR MIDPOINT OF TRAVEL LANES.		 3/4" MINUS AGGREGATE SURFACE COURSE (8") OR THICKNESS OF EXISTING GRAVEL, WHICHEVER IS GREATER. 8 THICKNESS EQUALS EXISTING PAVEMENT DEPTH PLUS 2" OF CONCRETE PAVEMENT.
		9 TRANSVERSE TRENCH < 30 MPH $2'-0$ " MIN TRANSVERSE TRENCH \geq 30 MPH $10'-0$ " MIN. LONGITUDINAL TRENCH (SEE NOTE E) $2'-0$ " MIN.
		(1) COMPACTED TRENCH BACKFILL AS PER IF-301 AND SECTION-306 OF THESE SPECIFICATIONS.
		 (11) ASPHALT TO EXISTING SHELF (MIN 2" THICK). (12) PLACE NEW PAVEMENT FABRIC FULL WIDTH OF ASPHALT PATCH.
2018 REVISION		3 4' MINIMUM WIDTH FOR SURFACE RESTORATION.
CITY OF IDAHO FALLS	STREET	CUTS AND STANDARD DRAWING PAIR DETAILS IF-303






ROCK EXCAVATION DIAGRAM standard drawing ^{NO.} IF-311

2018 REVISION

PIPE SIZE	D
0" - 30"	1' - 0"
31" – 54"	1' - 3"
55" – 84"	1' - 6"





CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 400 - WATER

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 400 – Water

Section 401 – Water Pipe and Fittings, Part 2.1 Pipe and Fittings Size, Type and Strength

Add new Item D:

D. For all pipes larger than 2" in diameter, install only ductile iron pipe and fittings unless otherwise approved in writing by the Engineer.

Section 401 — Water Pipe and Fittings, Part 2.3 Ductile Iron Pipe and Fittings

Delete Item A.1 and insert new Item A.1:

1. Thickness Class: Class 50 or higher as may be required by the bedding, pressure and loading conditions encountered at the project site.

Section 401 — Water Pipe and Fittings, Part 3.1 Examinations

Delete Item C and **insert** new Item C:

C. Verify that excavation will allow a minimum pipe cover of 72 inches and a maximum pipe cover of 96 inches, unless otherwise indicated in the Contract Documents.

Section 401 — Water Pipe and Fittings, Part 3.2 Pipe Installation

Add new Item R:

R. Conductivity: Provide a continuity connection at all mechanical and rubber gasket joints in ductile iron pipe. Use number two or larger stranded copper wire with end sleeves. Make electrical connections using Cad weld Type HB or equal. Expose the surface of the pipe by removing factory coatings where Cad weld connections are made to the pipe. After connections have been completed, thoroughly clean all exposed surfaces of the pipe, where the coatings were removed to complete the connection, to expose the base metal. Coat the connection and the cleaned area of the pipe with two or more field coats of bitumastic coating.

Section 401 — Water Pipe and Fittings, Part 3.4 Thrust Blocks

Delete Item B and insert new Item B:

B. Provide bearing area against undisturbed earth. If the soil at the site of the thrust block is of a poor or unsuitable nature and at the direction of the Engineer, remove said unsuitable material and replace with Crushed or Uncrushed Aggregate Base or other material approved in writing by the Engineer. If required by the Engineer, increase the thrust blocking in size to provide the necessary blocking and restraint required in lieu of removing unsuitable material.

Section 401 — Water Pipe and Fittings, Part 3.11 Abandonment of Existing Mains

Add new Item E:

E. Cap end of abandoned main in a manner approved by the Engineer.

Section 401 — Water Pipe and Fittings, Part 3 Construction

Add new Part 3.12 Temporary Water Service

- A. Provide temporary water service when replacement construction is required of an existing water main line pipe. This temporary water service is required during the time it takes for the proper construction of the replacement water main line pipe, including the required time for disinfection, pressure testing, flushing, bacterial testing and receiving results of an acceptable bacterial test. No temporary water service is required for service disruptions that do not exceed 4 hours in duration, provided that the disruption is coordinated with the user(s) to minimize their inconvenience.
- B. Utilize such material for temporary water service that is capable of supplying the volume of water that is currently being required by the adjacent properties, except that volume required for fire protection. Use material that is "new" or used previously only for potable water.
- C. Handle temporary water service in such a manner as to maintain a safe clean temporary water service at all times during the replacement construction. Chlorinate the temporary water service and hydrant. A passing bacteria test is required prior to being placed in service. Choose a method and material for temporary water service that is acceptable to the Engineer. Demonstrate that the method is feasible and will work properly prior to starting the replacement construction. Coordinate closely with the City's Water Division to minimize adverse impact on water service operations and surrounding private property.

- D. Shut off the existing water line that is to be replaced prior to any excavation. This may be done on a block-by-block basis if the Contractor so desires. Notify all property owners and the City Water Division of any water line that is to be turned off during the replacement construction. Provide an approximate time and duration for each water main line shut-off period. Provide a temporary water service to any property that requires water service during a shut-off period.
- E. The Contractor may "hose over", with a hose consisting of drinking water quality materials from one property with water service to another property without service, provided both property owners understand and agree to the arrangement and the temporary line can be maintained on a twenty-four (24) hour basis. "Hosing over" from a property that is already "hosed over" is not allowed. Repair any faucets, etc. which become plugged during the temporary service.
- F. Locate and place any overland pipelines and hosed used for the temporary water service in a manner to minimize interference with pedestrian and vehicular traffic. Incorporate appropriate signing and barricading, in accordance with MUTCD, to mark street crossings and sidewalk areas.
- G. Upon completion of the "new" replaced water main line and reconnection of the existing or new service lines, flush each property's water system and ensure that all faucets, etc. are not plugged.
- H. Indemnify and hold harmless the City from any and all damages or claims arising from the temporary water service operations. The Contractor is entirely responsible for the methods and results of the temporary water service.

Add new Part 3.13 Water Main Access Structure

A. Water Main Access Structure in conformance with Standard Drawing IF-411.

Section 401 — Water Pipe and Fittings, Part 4.1 Measurement and Payment

Add Item C and D:

- C. Temporary Water Service: By the lump sum for all temporary water service required.
 - 1. Bid Schedule Payment Reference: 401.4.1.C.1.
 - 2. Bid Schedule Description: Temporary Water Service...lump sum (LS).

- D. Water Main Access Structure: Per Lump Sum.
 - 1. Bid Schedule Payment Reference: 401.4.1.D.1.
 - 2. Bid Schedule Description: Water Main Access Structure...lump sum (LS).

Section 402 — Hydraulic Valves, Part 2.1 Valve Size, Type and Strength

Add Item D:

- D. Valve Size
 - 1. Resilient Seated Gate Valves: Maximum size 10 inches.
 - 2. Butterfly Valves: Minimum size 12 inches.

Section 402 — Hydraulic Valves, Part 2.5 Blow-off Assembly

Delete Part 2.5 Blow-off Assembly in its entirety.

Section 402 — Hydraulic Valves, Part 2.7 Valve Boxes

Delete Item C and **insert** new Item C:

C. Adjustment: Adjustable with sufficient length as to be adapted without full extension to the depth of cover required over the pipe at the valve location.

Section 402 – Hydraulic Valves, Part 3.2 Installation

Add Item G:

G: Install an extension stem, where the valve operating nut is installed at depths in excess of 6 feet of finished grade, such that the top of the extension is within 18 inches of the finished grade.

Section 403 – Hydrants, Part 2.3 Color

Delete Item A and insert new Item A:

A. Chrome Yellow, OSHA Safety Yellow, or approved equal.

Section 403 – Hydrants, Part 2 Materials

Add Part 2.9 Flush Hydrant

2.9 FLUSH HYDRANT

- A. Conform to Standard Drawing IF-405 Flush Hydrant.
- B. Nozzle: Two inch NPT nozzle outlet.
- C. Inlet: Two inch FIP inlet.
- D. Operation: Operable by turning a top-mounted 9/16 inch square nut counterclockwise to open and clockwise to close, with drain outlet sealed in all positions from 1/4 open to fully open.
- E. Material for Internal Working Parts, Inlet and Outlet: Low-lead brass.
- F. Material for Wear Parts (O-rings and Valve Seat): Of commonly available dimensions and materials and not of vendor-unique design.
- G. Installation Type: Below grade, designed to fit within a standard valve box with all working parts serviceable from above with no digging required.

Section 403 – Hydrants, Part 3.1 Examinations

Add Item F:

F. Verify that the size of the main line to which the hydrant line is to be connected is a minimum size of 6 inches if the main is looped or a minimum of 8 inches if the main is not looped.

Section 403 – Hydrants, Part 3.2 Installation

Add Items H and I:

- H. Thoroughly clean and paint all iron parts of hydrants, both inside and outside.
 Coat all inside surfaces and outside surfaces below the sidewalk ring with asphalt varnish, Federal Specifications TT-P-51a or JANP-450. Apply two coats, the first having dried thoroughly before the second is applied.
- Thoroughly clean the outside of hydrants above the sidewalk ring and paint with one coat of paint of durable composition conforming to Federal Specification TT-P-86a, Type IV and two additional coats of Chrome Yellow, OSHA Safety Yellow, or approved equal, on the body and cap.

Section 403 — Hydrants, Part 4.1 Measurement and Payment

Delete Item A and **insert** new Item A:

- A. Hydrant. Per each as specified. Includes hydrant, valve, pipe, thrust blocks, restraint, fittings, valve boxes, connections, drain rock, filter fabric, spare parts, excavation, bedding, backfilling, testing and all appurtenances not itemized in the Bid Schedule.
 - 1. Bid Schedule Payment Reference: 403.4.1.A.1.
 - 2. Bid Schedule Description: Hydrant, Type _____...each (EA).

Add Item B, C, and D:

- B. Reset Existing Hydrant. Per each as specified. Includes hydrant, valve, pipe, thrust blocks, restraint, fittings, valve boxes, connections, drain rock, filter fabric, spare parts, excavation, bedding, backfilling, testing and all appurtenances not itemized in the Bid Schedule.
 - 1. Bid Schedule Payment Reference: 403.4.1.B.1.
 - 2. Bid Schedule Description: Reset existing Hydrant, Type _____...each (EA).
- C. Relocate Existing Hydrant. Per each as specified. Includes hydrant, valve, pipe, thrust blocks, restraint, fittings, valve boxes, connections, drain rock, filter fabric, spare parts, excavation, bedding, backfilling, testing and all appurtenances not itemized in the Bid Schedule.
 - 1. Bid Schedule Payment Reference: 403.4.1.C.1.
 - Bid Schedule Description: Relocate existing Hydrant, Type ____...each (EA).
- D. Reconnect Existing Hydrant. Per each as specified. Includes hydrant, valve, pipe, thrust blocks, restraint, fittings, valve boxes, connections, drain rock, filter fabric, spare parts, excavation, bedding, backfilling, testing and all appurtenances not itemized in the Bid Schedule.
 - 1. Bid Schedule Payment Reference: 403.4.1.D.1.
 - Bid Schedule Description: Reconnect existing Hydrant, Type ____...each (EA).

Section 404 – Water Service Line and Meters, Part 2.1 Service Pipe

Add new Item D:

D. For all service pipes 2" and less in diameter, install only Type K seamless copper water tube unless otherwise approved in writing by the Engineer.

Section 404 — Water Service Line and Meters, Part 2.4 Appurtenances

Delete Items B.1 and B.3 and **insert** new Item B.1:

1. Type: Ball type with conductive compression outlet for Type K copper tubing.

Delete Item G and **insert** new Item G:

G. Meter Box

1. Products and materials in accordance with Standard Drawings IF-401A and IF-401B.

Section 404 — Water Service Line and Meters, Part 2.4 Appurtenances

Add new Item I Curb Stops and Curb Boxes:

- 1. Curb stops: Ball type with conductive compression inlet for Type K copper tubing, ¼ turn with stop.
- 2. Curb boxes: Provided with a shut off rod of such length that the top of said rod is between 6" and 36" below proposed finish grade. Arch pattern base and two-hole Erie style lid with Mueller H-10342 or equal curb box sleeves for use in sidewalks.

Section 404 – Water Service Line and Meters, Part 3.2 Installation

Delete the last sentence of Item A and **replace** with the following:

For service disruptions exceeding 4 hours in duration, provide temporary water service in accordance with Section 401, Part 3.12 Temporary Water Service.

Add new Items M through P:

- M. Do not use couplings for service lines, unless the length of service line is such that one complete roll or stick of tubing will not make the connection from corporation stop to curb stop valve.
- N. Leave the main trench open at all points where service connections are made until such services are installed and tested to the curb stop valve.

- O. Connect service lines in such a manner as to ensure electrical conductivity.
- P. Plan and coordinate work such that water service can be resumed with the least possible inconvenience to the public, with no water service being disconnected to any customer for a period of more than six consecutive hours unless approved in writing by the Engineer.

Section 404 — Water Service Line and Meters, Part 4.1 Measurement and Payment

Add Items B and C:

- B. Replace Water Service, Size _____: Per each size as specified. Includes excavation, bedding, backfill, service tap, and saddle, corporation stop, service pipe, fitting, meter, meter box and all appurtenances as designated in the Plans and as directed by Engineer.
 - 1. Bid Schedule Payment Reference: 404.4.1.B.1.
 - 2. Bid Schedule Description: Replace Water Service, Size _____...each (EA).
- C. Adjust Meter Box: Per each as specified. Includes excavation, labor, bedding, backfill, and all appurtenances to adjust meter box to grade (sizes 1" through 2") as designated in the Plans and directed by Engineer.
 - 1. Bid Schedule Payment Reference: 404.4.1.C.1.
 - 2. Bid Schedule Description: Adjust Meter Box...each (EA)

Division 400 – Water – Standard Drawings

Delete the following Standard Drawings:

Delete SD-401 Delete SD-402 Delete SD-403 Delete SD-404 Delete SD-405

Add the following Idaho Falls Standard Drawings:

Add IF-401A Add IF-401B Add IF-401C Add IF-401D Add IF-401E Add IF-401F Add IF-403 (2 sheets) Add IF-404 Add IF-404A Add IF-405 Add IF-409 (2 sheets) Add IF-410 Add IF-410B Add IF-410B Add IF-410C









WATER LINES

SERVICE LINES

- 1. PER IDAHO ADMINISTRATIVE CODE (IDAPA 58.01.08) ALL NEW WATER SERVICE LINE INSTALLATIONS SHALL INSTALL PROVISIONS FOR A WATER METER (EITHER A METER BOX OR A COMMERCIAL INTERIOR METER SETTER) TO CAPTURE BOTH DOMESTIC AND LANDSCAPE SPRINKLING USES.
- 2. WHENEVER POSSIBLE, WATER METERS FOR COMMERCIAL INTERIOR METER SETTERS MUST BE MOUNTED IN A HORIZONTAL POSITION.
- 3. LANDSCAPE SPRINKLER LINES MUST CONNECT TO SERVICE LINE AFTER WATER METER, OR CONTRACTOR WILL BE REQUIRED TO INSTALL A SEPARATE METER BOX FOR LANDSCAPE SPRINKLER LINE.
- COMMERCIAL INTERIOR METER SETTER SHALL BE LOCATED IN A HEATED MECHANICAL ROOM.
- METER BY-PASS LINES REQUIRE PRIOR WRITTEN APPROVAL FROM THE WATER DIVISION. FOR APPROVAL, CONTACT WATER DIVISION (208) 612-8471.
- ISOLATION VALVES SHALL BE INSTALLED IMMEDIATELY UP AND DOWNSTREAM OF THE WATER METER ON COMMERCIAL INTERIOR METER SETTERS. ISOLATION VALVES SHALL BE FULL PORT BALL VALVES FOR LINES SIZES UP TO 2" AND RESILIENT SEAT GATE VALVES FOR LINE SIZES OVER 2".
- WATER METERS MAY BE PURCHASED AT THE CITY OF IDAHO FALLS WATER DIVISION. CONTACT WATER DIVISION (208) 612-8471 FOR APPROVED METERS.
- CITY OF IDAHO FALLS WATER DIVISION SHALL OWN AND MAINTAIN WATER METERS AND REGISTERS IN INTERIOR METER SETTERS AND MANIFOLDS.
- SEE IF-401E FOR PLAN VIEW COMMERCIAL INTERIOR METER SETTER.

STANDARD DRAWING

IF-401C

NO.



NOTES:

- 1. PER IDAHO ADMINISTRATIVE CODE (IDAPA 58.01.08) ALL NEW WATER SERVICE LINE INSTALLATIONS SHALL INSTALL PROVISIONS FOR A WATER METER (EITHER A METER BOX OR A COMMERCIAL INTERIOR METER SETTER) TO CAPTURE BOTH DOMESTIC AND LANDSCAPE SPRINKLING USES.
- 2. WHENEVER POSSIBLE, WATER METERS FOR COMMERCIAL INTERIOR METER SETTERS MUST BE MOUNTED IN A HORIZONTAL POSITION.
- LANDSCAPE SPRINKLER LINES MUST CONNECT TO SERVICE LINE AFTER WATER METER, OR CONTRACTOR WILL BE REQUIRED TO INSTALL A SEPARATE METER BOX FOR LANDSCAPE SPRINKLER LINE.
- 4. COMMERCIAL INTERIOR METER SETTER SHALL BE LOCATED IN A HEATED MECHANICAL ROOM.
- METER BY-PASS LINES REQUIRE PRIOR WRITTEN APPROVAL FROM THE WATER DIVISION. FOR APPROVAL, CONTACT WATER DIVISION (208) 612-8471.
- ISOLATION VALVES SHALL BE INSTALLED IMMEDIATELY UP AND DOWNSTREAM OF THE WATER METER ON COMMERCIAL INTERIOR METER SETTERS. ISOLATION VALVES SHALL BE FULL PORT BALL VALVES FOR LINES SIZES UP TO 2" AND RESILIENT SEAT GATE VALVES FOR LINE SIZES OVER 2".
- WATER METERS MAY BE PURCHASED AT THE CITY OF IDAHO FALLS WATER DIVISION. CONTACT WATER DIVISION (208) 612-8471 FOR APPROVED METERS.
- 8. CITY OF IDAHO FALLS WATER DIVISION SHALL OWN AND MAINTAIN WATER METERS AND REGISTERS IN INTERIOR METER SETTERS AND MANIFOLDS.

STANDARD DRAWING

IF-401D

NO.









NOTES:

- ALL APPURTENANCES TO BE WRAPPED WITH 8 MIL PLASTIC 1. TO PREVENT CONCRETE FROM ADHERING TO ANY PART OF FITTINGS.
- ALL THRUST BLOCKING SHALL BE POURED AGAINST 2. UNDISTURBED EARTH.

REQUIRED AREA OF CONCRETE SURFACE BEARING AGAINST TRENCH WALL, FOR THRUST BLOCKS. 3.

4"	FITTING	3.0 SQ. FT.
6"	FITTING	3.0 SQ. FT.
8"	FITTING	5.3 SQ. FT.
10"	FITTING	8.4 SQ. FT.
12"	FITTING	11.8 SQ. FT.
14"	FITTING	16.2 SQ. FT.
16"	FITTING	21.1 SQ. FT.
18"	FITTING	26.7 SQ. FT.
20"	FITTING	33.0 SQ. FT.
24"	FITTING	47.3 SQ. FT.

- JOINT RESTRAINTS REQUIRED IF WATER LINE IS PLACED IN 4. SERVICE PRIOR TO THRUST BLOCK ATTAINING REQUIRED STRENGTH.
- 5. ALL THRUST BLOCKS TO BE CLASS 4 CONCRETE.
- 6. ALL CONTINUITY CONDUCTORS SHALL BE A MINIMUM #2 STRANDED COPPER WIRE WITH END SLEEVES.
- CONTINUITY CONNECTION SHALL BE A CAD WELD TYPE HB 7. OR FOUAL.
- APPROVED WATER LINE MATERIALS LIST MAINTAINED BY CITY 8. OF IDAHO FALLS WATER DIVISION (208) 612-8471.
- CONTRACTOR TO NOTIFY CITY OF IDAHO FALLS WATER DIVISION AND IMPACTED CUSTOMERS OF ANY WATER LINE 9. CLOSURES OR SERVICE OUTAGES.
- FLUSHING TAPS SHALL ONLY BE INSTALLED ON TEMPORARY 10. DEAD-END LINES THAT ARE PLANNED FOR FUTURE EXTENSION. UPON EXTENSION OF TEMPORARY DEAD-END LINES, FLUSHING TAP SHALL BE REMOVED AND REPLACED WITH A BRASS PLUG.
- 11. FLUSHING TAPS SHALL ONLY BE INSTALLED ON TEMPORARY DEAD-END LINES THAT ARE PLANNED FOR FUTURE EXTENSION. UPON EXTENSION OF TEMPORARY DEAD-END LINES, FLUSHING TAP SHALL BE REMOVED AND REPLACED WITH A BRASS PLUG.
- 12. FLUSH HYDRANTS (SEE IF-410) SHALL BE INSTALLED ON ALL PERMANENT DEAD-END LINES (I.E. CUL-DE-SACS).

THRUST BLOCKS & CONTINUITY CONDUCTORS







NOTES:

- 1. ALL APPURTENANCES SHALL BE WRAPPED WITH 8 MIL. PLASTIC TO PREVENT CONCRETE THRUST-BLOCKING FROM ADHERING TO ANY PART OF FITTINGS.
- 2. JOINT RESTRAINTS REQUIRED IF WATER LINE IS PLACED IN SERVICE PRIOR TO THRUST BLOCK ATTAINING REQUIRED STRENGTH.
- 3. WATER VALVES ON MAIN LINES AT INTERSECTIONS SHALL BE LOCATED AT P.C./P.T. OF CURB WHERE POSSIBLE. NO SERVICE CONNECTIONS SHALL BE ALLOWED BETWEEN WATER VALVES WITHIN THE INTERSECTION. WATER VALVES ON THE FIRE LINES SHALL BE 5' FROM THE CENTERLINE OF THE WATER MAIN OR AS DIRECTED BY THE ENGINEER.
- 4. FIRE HYDRANTS AND CURB STOPS SHALL BE LOCATED OUT OF SIDEWALK AREA WHERE POSSIBLE. LOCATE FIRE HYDRANTS 1'-0" BEHIND WALK IN UTILITY EASEMENT AS SHOWN OR 1'-0" IN FRONT OF WALK IF NO EASEMENT IS AVAILABLE BEHIND WALK.
- 5. ASPHALT CUT SHALL BE NEAT & VERTICAL IN A CIRCLE SYMMETRICALLY AROUND VALVE BOX.
- 6. ALL CONTINUITY CONDUCTORS SHALL BE A MINIMUM #2 STRANDED COPPER WIRE WITH END SLEEVES.
- 7. CONTINUITY CONNECTION SHALL BE A CAD WELD TYPE HB OR EQUAL.
- 8. APPROVED WATER LINE MATERIALS LIST MAINTAINED BY CITY OF IDAHO FALLS WATER DIVISION (208) 612-8471.
- CONTRACTOR SHALL NOTIFY CITY OF IDAHO FALLS WATER DIVISION AND IMPACTED CONSUMERS OF ANY WATER LINE CLOSURES OR SERVICE OUTAGES.
 ANY VALVE BOXES INSTALLED PERMANENTLY OUTSIDE OF PAVEMENT MUST HAVE COLLARS INSTALLED, SLOPE SURFACE MATERIAL AWAY FROM COLLAR APPROX. 1" 1-1/2" BELOW BOX ELEVATION.

WATER VALVE

STANDARD DRAWING

IF-404A

NO.

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CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 500 - SEWER

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 500 – Sewer

Section 501 – Gravity Sewers, Part 1.4 Submittals

Delete Item D and **insert** new Item D:

D. Closed circuit television inspection video and logs.

Section 501 — Gravity Sewers, Part 2.1 Pipe Size, Type and Strength

Delete Item B and **insert** new Item B:

B. If type and strength classifications are not indicated in the Contract Documents, use any of the alternate pipe materials meeting the minimum requirements of this section, after obtaining written approval from the Engineer for any materials other than solid wall PVC.

Add new Item D:

D. When pipe is to be installed with less than 2 feet of cover (requires written approval from Engineer), use Class 50 ductile iron pipe.

Section 501 — Gravity Sewers, Part 2.2 Gravity Sewer Pipe and Fittings

Delete Item I.2 and insert new Item I.2:

I.2. Minimum Class: Class III or as indicated in the Contract Documents.

Delete Item J and **insert** new Item J:

- J. Pressure Pipe for Gravity Sewers.
 - 1. Meet pipe and fitting specifications of Section 401 Water Pipe and Fittings, Part 2 Materials.

Add new Item K:

K. System Prequalification.

1. Prequalification of joint system for water tightness prior to installation: Provide material and test equipment from the manufacturer for proof testing. Test according to the requirements of Part 3.4 Testing. Submit test specimens and results to the Engineer.

Section 501 — Gravity Sewers, Part 3.4 Testing

Add Item H.12:

H.12. The City pays the costs of the initial CCTV inspection unless otherwise provided for by contract. The Contractor is responsible for the cost of any re-inspection or inspection performed solely for the benefit of the Contractor.

Section 502 — Manholes, Part 1.4 Submittals

Delete Item A and **insert** new Item A:

A. Submit shop drawings for materials to be installed or furnished under this section. Include manhole steps only if indicated in the plans or otherwise approved in writing by the Engineer.

Section 502 — Manholes, Part 2.1 Manhole Size, Type and Strength

Add new Items D, E and F:

- D. Use cast-in-place manholes only with prior written approval of the Engineer.
- E. Use concentric cones only with prior written approval of the Engineer.
- F. Meet HS25 traffic loading requirements.

Section 502 — Manholes, Part 2.4 Grade Rings

Add new Item E:

E. Use material other than precast concrete grade rings only with prior written approval of the Engineer.

Section 502 — Manholes, Part 2.5 Frames and Covers

Delete Item A and insert new Item A:

A. Size and shape: As detailed in Standard Drawings IF-507A – Standard Manhole

Cover and Frame, IF-507B – Wide Flange Manhole Cover and Frame, and IF-507C – Reversible Manhole Cover and Frame.

Section 502 — Manholes, Part 3.9 Installation of Steps

Delete Item A and **insert** new Item A:

A. Install manhole steps only if indicated on the plans or otherwise approved in writing by the Engineer.

Section 502 — Manholes, Part 3 Workmanship

Add new Part 3.16 Sewage Bypass Systems

A. Prior to pipe removal, implement bypass flow procedures in accordance with Section 512 – Sewage Bypass Systems and the approved plan.

Section 509 — CIPP Rehabilitation, Part 2.1 Materials

Add new Part 2.1.E:

E. Trenching pipe patching system: Pipe Patch Cured-In-Place-Pipe (CIPP) from Source One Environmental or approved equal. Meet requirements of ASTM F 1216.

<u>Section 509 — CIPP Rehabilitation, Part 3 Execution</u>

Add new Part 3.12 CIPP Patch:

12. Follow manufacturer's recommendations for cleaning/ inspecting/preparing the pipe, installing and curing the patch, handling sewage flow, etc. Comply with the requirements of this Section 509 for items of work not specifically directed by the manufacturer. Where the damaged section of pipe intended for repair is too long to be accommodated with a single patch, use multiple overlapping patches.

Section 509 — CIPP Rehabilitation, Part 4.1 Measurement and Payment

Add Item F:

F. CIPP Patch: On a per-each basis to patch section of sewer pipe. Includes mobilizing equipment, set up for installation, pre-cleaning, pre- and post-CCTV documentation, materials, labor, tools, testing, surface restoration, and related work.

- 1. Bid Schedule Payment Reference: 509.4.1.F.1.
- 2. Bid Schedule Description: CIPP Patch...each (EA).

Division 500 — Sewer

Add new Section 513 Sanitary Sewer Lift Stations

SECTION 513 — SANITARY SEWER LIFT STATIONS

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Sanitary sewer lift station materials and installation.
 - 1.2 RELATED SECTIONS
 - A. Section 204 Structural Excavation and Backfill.
 - B. Section 305 Pipe Bedding.
 - C. Section 703 Cast-in-Place Concrete.
 - D. Section 802 Crushed Aggregate.

1.3 REFERENCES

- A. ASTM C 478: Precast Reinforced Concrete Manhole Section.
- B. ASTM C 497: Standard Test Methods for Concrete Pipe, Manhole Sections, or Tile.
- C. Local City and State electrical codes and the National Electric Code (NEC), current edition.

1.4 SUBMITTALS

- A. Submit show drawings for materials to be installed or furnished under this section.
- B. Submit manufacturer's certification that manholes, pipes, pumps, panels, and appurtenances meet or exceed specified requirements.

C. Submit manufacturer's installation instructions and maintain copy at the jobsite.

1.5 PROJECT RECORD DOCUMENTS

- A. Accurately record actual locations of constructed lift stations and other encountered utilities in relation to existing permanent benchmarks.
- B. Provide copy of record documents to Owner prior to issuance of substantial completion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Handle and store manhole sections, covers, pipes, pumps, panels, and appurtenances in a manner which prevents shock, damage, or detrimental exposure to weather.
- B. Protect joint sealing material used for lift station structure manholes from sunlight and contamination until ready for installation in the manhole.

PART 2 MATERIALS

- 2.1 LIFT STATION STRUCTURES
 - A. Standard precast concrete units conforming to ASTM C 478 or cast-in-place concrete. Conform in all respects to Standard Drawing IF-516A and as modified by the Contract Documents.
 - B. Reinforced concrete floor with #5 rebar on 6-inch centers placed in both directions.
 - C. Flat concrete lid. 30 inch by 48 inch hinged metal access cover with upper guide brackets, chain hooks, lid support, and horizontal bar for attachment of the liquid level sensor cables. Meet the loading requirements shown on the Plans and in Standard Drawings. Meet or exceed HS-25 loading requirements if situated where vehicles can drive over the lid.

2.2 PRESSURE PIPE, VENT PIPE AND CONDUITS

A. Pressure pipe: 4" minimum diameter or as required by size of pumps. Ductile iron inside the lift station and over to and through

the valve vault. Downstream of valve vault conform with Section 505 — Pressure Sewers.

- B. Ball check valves: Flygt HDL TYPE 5087 or approved equal.
- C. Vent pipe: 4-inch galvanized rigid steel pipe with threaded fittings. Threaded collar on the above-ground end of the vent pipe, with a welded 1/8-inch screen covering the opening.
- D. Electrical conduits: Galvanized rigid steel meeting the requirements of NEC and of the size required for the conductor or as shown in the Standard Drawings, whichever is larger.

2.3 SUBMERSIBLE PUMPS

- A. Neva-Clog Flygt wastewater pumps or approved equal.
- B. Equipped with the required size electric motor connected for operation on a 208/240-volt, 3-phase, 60-hertz, 4-wire service with a minimum of 35 feet of Type SPC cable suitable for submersible pump applications or as approved by the Engineer.
- C. Power cable: Sized according to NEC and ICEA Standards with a P-MSHA approval. Connect from the pumps directly to the control panel.
- D. Furnish each pump with a minimum of 25 feet of stainless steel lifting chain of adequate strength to safely raise and lower the pump with 2 galvanized or stainless steel lifting rails and with mounting hardware and stainless steel bolts to fit the pumps and bases to the lift station as shown on the Standard Drawings.

2.4 PUMP CONTROLS

- Pump control panel: Minimum 36" X 30" X 12" NEMA Type 4 gasketed, watertight, dust tight, lockable enclosure. 208/240 volts, 3-phase, 60-hertz, 4-wire service or as approved by the Engineer. All electrical equipment U.L. listed.
- B. Panel Requirements.
 - 1. Intrinsically safe solid state alternator for two or more pumps which provides alternating operation of pumps under normal conditions and provides simultaneous
operation of both pumps in case of high level conditions.

- 2. Condensation heater.
- 3. Lightning arrestor.
- 4. Adapter for direct connection of auxiliary power supply, to be Appleton Cat. #ADJA6044150RS 60A 4W 4P STY. 1 or as required with a male end inside the receptacle. Transfer switch.
- 5. Pump motor controls, to include:
 - a. Running time meter.
 - b. Pump run light.
 - c. Combination circuit breaker/overload with manual reset for protection against current overloads, short-circuit protection and disconnect for all phases.
 - d. Across-the-line magnetic contactor.
 - e. Hand/off/auto pump operations selector switch.
 - f. Amperage meters with interior panel door display, sized appropriately based on the individual pump motor.
- C. Liquid pressure transducer mounted in the lift station manhole, communication cable, and control unit(s) for pump control.
- D. Equipment to be compatible with the lift station pump control and designed for the site conditions.
- E. Control unit installed in a lockable weather resistant enclosure mounted on the Lift Station Control Pedestal a minimum of 30 inches above the Lift Station Lid.
- F. Design the control system for a duplex pump system capable of ensuring that the lead pump changes with each "pump on" event.
- G. Design the control unit to allow the operator to control pump

operation from the unit mounted on the lift Station Pedestal with a liquid level selection range between 0 and 30 feet. Control unit to control pump and alarm operation at the following operatorselected liquid level elevations that occur in the Lift Station Manhole (with elevations supplied by the Idaho Falls Wastewater Division):

- 1. Pump off (minimum liquid level).
- 2. Lead pump on.
- 3. Lag pump on.
- 4. Alarm on.
- H. All electrical conduit openings that penetrate the lift station wall to have pliable removable seal-offs, NEMA-approved for Class I Division I locations.

PART 3 WORKMANSHIP

- 3.1 SUBMERSIBLE PUMPS AND CONTROLS
 - A. Install all equipment in a neat, plumb and workmanlike manner in accordance with the manufacturer's recommendations.
 - B. Mount the level transducer on the lift station wall in accordance with the manufacturer recommendations and in a location that is accessible at access hatch and minimizes false liquid level readings.

3.2 ELECTRICAL WORK

- A. Complete all electrical work in accordance with the Plans, these Specifications, all local City and State electrical codes and the NEC, current edition, by licensed electricians.
- B. Obtain an electrical installation permit from the City prior to starting construction.

3.3 ELECTRICAL SERVICE

A. Install conduit and wire from the meter base at the lift station control panel to the power supply as shown on the Plans or as

directed by Idaho Falls Power representatives.

B. Arrange for inspection by the Idaho Falls Building Division upon completion of the lift station installation. Pay any inspection fees not waived by said Division (incidental—no additional compensation).

3.4 ALARM SYSTEMS

- A. Sanitary sewer lift stations: Alarms to be accommodated through the telemetry system.
- B. Storm lift stations: Install an alarm light on the outside of the control panel. Connect the high-level alarm sensor cable from the lift station to the control panel. Notify the Idaho Falls Wastewater Division when the alarm system work is completed to verify that the alarm system is functioning properly.

3.5 PRESSURE DISCHARGE PIPE

- A. Install pressure discharge pipe to gravity drain to the discharge manhole if possible. Install the pipe at an elevation so the top of the pressure discharge pipe and the top of the gravity pipe in the discharge manhole are level. Direct the outflow of the pressure discharge pipe at the gravity pipe invert.
- B. Locate ball check valves and isolation valves as shown in the Standard Drawings.
- 3.6 CONDUITS
 - A. Install conduits in sand bedding as shown on the Standard Drawings.
 - B. Blow conduits free of any loose debris or moisture prior to pulling any wire and seal conduits thereafter.
- 3.7 START-UP AND TRAINING
 - A. Upon completion of construction, notify the Engineer and the Idaho Falls Wastewater Division of the date and time for initial start-up of the lift station.
 - B. Complete a minimum 4-hour test period, provide up to 8 hours of

operation training for Idaho Falls Wastewater Division personnel, if required, and provide 6 copies of an approve Operation and Maintenance Manual to the City prior to acceptance.

PART 4 MEASUREMENT AND PAYMENT

- 4.1 Sanitary sewer lift station to be measured on a lump sum basis complete, in place, and fully operational as stated in these Specifications. Payment includes full compensation for all labor, materials, equipment and tools necessary to furnish, install, test and make ready for service the lift station complete and in place as shown on the Standard Drawings, Plans, and as directed by the Engineer. If not specifically indicated otherwise on the Plans and specifically included in the Bid Schedule, all items required to perform the work, including structure excavation and structure backfill, precast concrete manhole, lift station wet well, pipe, discharge pipe and fittings, trench excavation and backfill, submersible pumps and controls, and any other required items, are incidental to the Bid Item.
 - A. Sanitary Sewer Lift Station: On a lump sum basis for the construction of a fully operational lift station.
 - 1. Bid Schedule Payment Reference: 513.4.1.A.1.
 - 2. Bid Schedule Description: Sanitary Sewer Lift Station... lump sum (LS).

Division 500 – Sewer – Standard Drawings

Delete the following Standard Drawings:

Delete SD-501 Delete SD-502 Delete SD-503 Delete SD-504 Delete SD-505 Delete SD-507 Delete SD-507A Delete SD-508 Delete SD-509 Delete SD-511 Delete SD-511A Delete SD-511B Delete SD-512 Add the following Idaho Falls Standard Drawings:

Add IF-501 Add IF-502 Add IF-503 Add IF-504 Add IF-505 Add IF-507A Add IF-507B Add IF-507C Add IF-507D Add IF-508A Add IF-508B Add IF-511 Add IF-512 Add IF-516 (3 sheets) Add IF-517A Add IF-517B Add IF-518A Add IF-518B









DEPTH GREATER THAN 2' AND LESS THAN 5' \diagdown PIPE DIA. \leq 24" SHELF ISHE! А А LEGEND 1 CONCRETE OR ASPHALT COLLAR IN PAVED STREET SECTION PER IF-616A OR IF-616B. PLAN N.T.S. (2) GRADE RINGS GROUTED WATERTIGHT IN PLACE, NOT TO EXCEED 21" FROM FINISHED SURFACE TO TOP OF CONE. SEE IF-517A AND IF-517B. (3) REINFORCED CONCRETE REDUCER SLAB. REBAR NOT SHOWN. (MAX.) (MIN.) (MIN.) 10 ៙ (8) (4) RAMNEK OR APPROVED GASKETS AT ALL JOINTS. (2) 121 و" 5 PROPERLY ALIGN ALL INTERIOR JOINTS. PRECAST CONCRETE MANHOLE BARREL SECTION (REBAR NOT SHOWN) 48" RCP. 6 (3) \bigcirc PRECAST GASKETED HUB RING OR RUBBER GASKETED COLLAR. ້ຜູ້ (8) SURFACING TO MATCH FLUSH WITH EXISTING FINISHED OF PIPE 4" (MIN.) SURFACING (AC SHOWN). (9) FRAME TO BE GROUTED TO GRADE RINGS. FROM TOP 6 (1) FRAME AND COVER PER IF-507A. 2 1CAST-IN-PLACE MANHOLE BASE. SEE IF-501A FOR PREFABRICATED BASE. ĥ 2' TO 5 GRADE 5 6" (MIN.) SHELF SLOPE D<24 NOTES: (11) FOR DIAMETER, D, GREATER THAN 24", SEE (A)IF-613 OR IF-614. ๎₿ MANHOLE FRAME AND COVER: 1408485 dosar. 9" (MIN.) A. FRAME AND COVER SHALL BE FLUSH WITH SLOPE OF PAVEMENT. B. "SEWER CONFINED SPACE" ON COVER. 4" TYPE 1 BEDDING WHERE PVC PIPE IS UTILIZED, INSTALL A RUBBER RING OR GASKET COLLAR WHERE THE PIPE IS IN CONTACT WITH MANHOLE BASE AND/OR MANHOLE CHANNEL, IN ORDER TO ENSURE A WATERTIGHT \odot SEAL. ៙ EITHER BASE ON IF-612 OR SD-501A MAY BE USED WITH ANY MANHOLE TYPE A.

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SHALLOW MANHOLE TYPE A

standard drawing ^{NO.} IF-505





















NOTES:

- A ACCESS COVER FOR LIFT STATION AND MANHOLE SHALL BE DESIGNED FOR HS 25 LOADING.
- B CLASS 50 OR HIGHER DUCTILE IRON REQUIRED FOR DISCHARGE PIPES & APPURTENANCES INSIDE AND BETWEEN LIFT STATION AND MANHOLE.
- C SEE PROJECT SPECIFICATIONS OR PLANS FOR PUMP CAPACITIES AND OTHER HARDWARE AS REQUIRED FOR EACH SPECIFIC INSTALLATION.
- D THE CITY OF IDAHO FALLS SEWER DEPARTMENT SHALL SPECIFY THE CONTROL LEVEL SETTING FOR THE FOLLOWING LIQUID LEVELS:
 - 1) PUMP OFF (MIN. LIQUID LEVEL)
 - 2) LEAD PUMP ON
 - 3) LAG PUMP ON4) ALARM ON
- E PROVIDE A 1.5' X 1.5' BLOCK OUT IN THE DUPLEX
- CONTROLLER CABINET.
- F INSTALL A 110 VOLT RECEPTACLE BRACKET ADJACENT TO BLOCK OUT AREA (SEE NOTE 5) IN DUPLEX PUMP CONTROLLER CABINET.
- G EMERGENCY POWER PLUG RECEPTACLE, APPLETON CAT. #ADJA6044150RS 60A 4W 4P STY. 1 OR AS REQUIRED ON ALL STORM DRAIN AND SANITARY SEWER LIFT STATIONS. MUST HAVE A MALE END INSIDE RECEPTACLE.
- H SIZE OF CONDUIT TO BE DETERMINED BY SIZE OF INSTALLED PUMPS (MIN. 2"). ONE CONDUIT PER PUMP. SEPARATE CONDUIT FOR TRANSDUCER & FLOATS
- I ASPHALT ACCESS TO LIFT STATION SHALL BE 15' WIDE 2" PLANTMIX OVER 6" OF CRUSHED GRAVEL.
- J ALL HARDWARE (BOLTS, NUTS, ETC.) SHALL BE STAINLESS STEEL. NO GALVANIZED HARDWARE WILL BE ALLOWED.
- K NO ELECTRICAL CONNECTIONS, SPLICES OR JUNCTION BOXES SHALL BE INSIDE LIFT STATION.
- L LIFT STATION CIRCULATION DEVICE REQUIRED FOR GREASE AND SEDIMENTATION CONTROL SHALL BE ATTACHED TO PUMP (APPLICABLE TO SANITARY SEWERS ONLY).
- M LIFT STATION LID AND CONTROLLER ORIENTATION AS DIRECTED BY WASTEWATER DIVISION SUPERINTENDENT.
- N DO NOT INSTALL TRASH RACKS ON SANITARY SEWER PIPES OVER 30".
- O ALL FORCED MAIN LINES SHALL HAVE A FLOW RATE OF 2'-O" PER SECOND MINIMUM. TRACER WIRE REQUIRED WITH CONNECTION ENDS AT VALVE VAULT AND DISCHARGE MANHOLE.
- P PUMP SPEEDS AS PER I.D.A.P.A. REQUIREMENTS.
- Q CONTROLS & METERS NEED TO BE MOUNTED IN TOP HALF OF PANEL.

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LIFT STATION









LEGEND

- (1) FRAME AND COVER PER STANDARD DRAWING IF-507A
- MANHOLE PER STANDARD DRAWING IF-501, IF-502 OR IF-503. 2
- 3 SLOPE SHELF 1" PER FOOT.
- (4) CONCRETE BASE CAST IN PLACE PER SECTION 703.
- (5) PRESSURE PIPE.
- (6) GRAVITY PIPE
- (7) 22.5° BEND

MANHOLE (STANDARD)

NOTES:

- A FRAME AND COVER SHALL BE FLUSH WITH SLOPE OF PAVEMENT.
- (B) CONSTRUCT BASIC MANHOLE PER TYPE SPECIFIED.
- \bigodot pressure line to enter manhole opposite side of exit pipe and point so flow will run directly INTO EXIT PIPE.

STANDARD DRAWING

IF-518A

NO.

- (D) OPTIONAL PREFABRICATED TYPE B MANHOLE BASE WITH APPROVED PIPE CONNECTIONS MAY BE USED WITH ENGINEER'S APPROVAL, SEE SD-502A.
- $\textcircled{\mbox{E}}$ provide manhole concrete reinforcing to accommodate traffic loadings.

CITY OF IDAHO FALLS



LEGEND

- (1) FRAME AND COVER PER STANDARD DRAWING IF-507A
- MANHOLE PER STANDARD DRAWING IF-501, IF-502 OR IF-503. 2
- (3) THREADED CAP.
- (4) CONCRETE BASE CAST IN PLACE PER SECTION 703.
- 5 WYE FITTING
- (6) 45 DEGREE BEND.
- (7) SLOPE SHELF 1" PER FOOT.
- (8) PRESSURE PIPE
- (9) GRAVITY PIPE

NOTES:

- (A) FRAME AND COVER SHALL BE FLUSH WITH SLOPE OF PAVEMENT.
- B CONSTRUCT BASIC MANHOLE PER TYPE SPECIFIED.
- © SECURE PIPE ASSEMBLY TO MANHOLE WALL AT A MINIMUM OF TWO LOCATIONS. BRACKETS AND SECURING LOCATIONS TO BE APPROVED BY ENGINEER.
- (D) OPTIONAL PREFABRICATED TYPE B MANHOLE BASE WITH APPROVED PIPE CONNECTIONS MAY BE USED WITH ENGINEER'S APPROVAL, SEE SD-502A.
- E provide manhole concrete reinforcing to accommodate traffic loadings.
- DEEP PRESSURE DISCHARGE MANHOLE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL FROM ENGINEER. F)

STANDARD DRAWING

IF-518B

NO.

CITY OF IDAHO FALLS

CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 600 – CULVERTS, STORM DRAINS AND GRAVITY IRRIGATION

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 600 – Culverts, Storm Drains and Gravity Irrigation

Section 601 – Culvert, Storm Drain and Gravity Irrigation Pipe, Part 1.4 Submittals

Add new Item D:

D. Closed circuit television inspection video and logs.

<u>Section 601 — Culvert, Storm Drain and Gravity Irrigation Pipe, Part 2.1 Pipe Size, Type and</u> <u>Strength</u>

Delete Item A and insert new Item A:

A. If type and strength classifications are not indicated in the Contract Documents, use any of the alternate pipe materials meeting the minimum requirements of this section, after obtaining written approval from the Engineer for any materials other than solid wall PVC or reinforced concrete.

Add new Item D:

D. When pipe is to be installed with less than 2 feet of cover, as measured at the bell (requires written approval from Engineer), use either Class V reinforced concrete pipe or Class 50 ductile iron pipe.

<u>Section 601 — Culvert, Storm Drain and Gravity Irrigation Pipe, Part 2.2 Culvert, Storm Drain</u> and Gravity Irrigation Pipe and Fittings

Delete Item H.1 and **insert** new Item H.1:

H.1. Minimum Class: Class III or as indicated in the Contract Documents.

Add new Items O and P:

- O. Pressure Pipe for Culverts, Storm Drains and Gravity Irrigation.
 - 1. Meet pipe and fitting specifications of Section 401 Water Pipe and Fittings, Part 2 Materials.

- P. System Prequalification.
 - 1. Prequalification of joint system for water tightness prior to installation: Provide material and test equipment from the manufacturer for proof testing. Test according to the requirements of Part 3.4 Testing. Submit test specimens and results to the Engineer.

Section 601 — Culvert, Storm Drain and Gravity Irrigation Pipe, Part 3.2 Pipe Installation

Delete Item D and **insert** new Item D:

D. Install pipe in accordance with the manufacturer's recommendations for the type of pipe specified in the Contract Documents. Ensure that reinforced concrete pipe is installed with the minor axis on the elliptical reinforcement placed in a vertical plane (top to bottom) when the pipe is laid.

<u>Section 602 — Storm Drain Inlets, Catch Basins, Manholes, and Gravity Irrigation Structures,</u> <u>Part 1.4 Submittals</u>

Delete Item A and insert new Item A:

A. Submit shop drawings for materials to be installed or furnished under this section. Include manhole steps only if indicated in the Contract Documents or otherwise approved in writing by the Engineer.

<u>Section 602 — Storm Drain Inlets, Catch Basins, Manholes, and Gravity Irrigation Structures,</u> <u>Part 2.1 Appurtenances, Type and Strength</u>

Add new item D and E:

- D. All catch basins to be Type IV Standard Drawing IF-601 unless otherwise approved by Engineer.
- E. Use concentric manhole cones only with prior written approval of the Engineer.

<u>Section 602 — Storm Drain Inlets, Catch Basins, Manholes, and Gravity Irrigation Structures,</u> <u>Part 2.5 Grade Rings, Frames, Grates and Covers</u>

Delete Items B and insert new Item B:

B. Grade rings to be 3,000 psi per Section 703 – Concrete. Use an HDPE form, Wirly-Gig or approved substitution, installed per manufacturer's recommendations, only if indicated in the Contract Documents or with prior written approval of the Engineer.

Section 602 — Storm Drain Inlets, Catch Basins, Manholes, and Gravity Irrigation Structures, Part 2.11 PVC Drainage Structures

Delete Items A and B and insert new Items A and B:

- A. Use Polyvinyl Chloride (PVC) drainage structures only if indicated in the Contract Documents or with prior written approval of the Engineer.
- B. Use Nyoplast-ADS drainage structures, or approved equivalent, only if indicated in the Contract Documents or with prior written approval of the Engineer.

<u>Section 602 — Storm Drain Inlets, Catch Basins, Manholes, and Gravity Irrigation Structures,</u> <u>Part 2 Materials</u>

Add new Part 2.12 Infiltration Manholes:

- 2.12. INFILTRATION MANHOLES
 - A. Perforated concrete manhole in conformance with Standard Drawing IF-630A and IF-630B.

<u>Section 602 — Storm Drain Inlets, Catch Basins, Manholes, and Gravity Irrigation Structures,</u> <u>Part 3.10 Installation of Steps</u>

Delete Item A and **insert** new Item A:

A. Install manhole steps only if indicated in the Contract Documents or otherwise approved in writing by the Engineer.

<u>Section 602 — Storm Drain Inlets, Catch Basins, Manholes, and Gravity Irrigation Structures,</u> <u>Part 4 Measurement and Payment</u>

Add new Item S:

- S. Pond Inlet Treatment: Per lump sum for the construction of gutter, rip rap, geotextile fabric and all other required items as shown in Standard Drawing IF 631.
 - 1. Bid Schedule Payment Reference: 602.4.1.S.1.
 - 2. Bid Schedule Description: Pond Inlet Treatment...lump sum (LS).

Division 600 — Culverts, Storm Drains and Gravity Irrigation

Add new Section 603 Storm Lift Stations

SECTION 603 — STORM LIFT STATIONS

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Storm lift station materials and installation.
 - 1.2 RELATED SECTIONS
 - A. Section 513 Sanitary Sewer Lift Stations.
 - B. See Section 513 Sanitary Sewer Lift Stations, Part 1.2.
 - 1.3 REFERENCES
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 1.3.
 - 1.4 SUBMITTALS
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 1.4.
 - 1.5 PROJECT RECORD DOCUMENTS
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 1.5.
 - 1.6 DELIVERY, STORAGE, AND HANDLING
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 1.6.

PART 2 MATERIALS

- 2.1 LIFT STATION STRUCTURES
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 2.1.
- 2.2 PRESSURE PIPE, VENT PIPE AND CONDUITS
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 2.2.

- 2.3 SUBMERSIBLE PUMPS
 - A. See Section 513— Sanitary Sewer Lift Stations, Part 2.3.
- 2.4 PUMP CONTROLS
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 2.4.

PART 3 WORKMANSHIP

- 3.1 SUBMERSIBLE PUMPS AND CONTROLS
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 3.1.
- 3.2 ELECTRICAL WORK
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 3.2.
- 3.3 ELECTRICAL SERVICE
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 3.3.
- 3.4 ALARM SYSTEMS
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 3.4.
- 3.5 PRESSURE DISCHARGE PIPE
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 3.5.
- 3.6 CONDUITS
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 3.6.
- 3.7 START-UP AND TRAINING
 - A. See Section 513 Sanitary Sewer Lift Stations, Part 3.7.

PART 4 MEASUREMENT AND PAYMENT

4.1 Storm lift station to be measured on a lump sum basis complete, in place, and fully operational as stated in these Specifications. Payment includes full compensation for all labor, materials, equipment and tools necessary to furnish, install, test and make ready for service the lift station complete and in place as shown on the Standard Drawings, Plans, and as directed by the Engineer. If not specifically indicated otherwise on the Plans and specifically included in the Bid Schedule, all items required to perform the work, including structure excavation and structure backfill, precast concrete manhole, lift station wet well, pipe, discharge pipe and fittings, trench excavation and backfill, submersible pumps and controls, and any other required items, are incidental to the Bid Item.

- A. Storm Lift Station: On a lump sum basis for the construction of a fully operational lift station.
 - 1. Bid Schedule Payment Reference: 603.4.1.A.1.
 - Bid Schedule Description: Storm Lift Station...lump sum (LS).

Delete the following Standard Drawings:

Delete SD-601 Delete SD-604 Delete SD-611 Delete SD-612 Delete SD-613 Delete SD-613A Delete SD-614 Delete SD-614A Delete SD-616 Delete SD-617 Delete SD-618

Add the following Idaho Falls Standard Drawings:

Add IF-604 (2 sheets) Add IF-611 Add IF-612 Add IF-612A Add IF-613 Add IF-613A Add IF-614 Add IF-614A Add IF-616A Add IF-616B Add IF-617A Add IF-617B Add IF-617C Add IF-617D Add IF-630A Add IF-630B Add IF-631



CATCH BASIN TYPE IV

STANDARD DRAWING NO. IF-604 SHEET 2 OF






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LEGEND

- (1) CONCRETE OR ASPHALT COLLAR IN PAVED STREET PER IF-616A OR IF-616B.
- (2) GRADE RINGS GROUTED WATERTIGHT IN PLACE, NOT TO EXCEED 21" FROM FINISHED SURFACE TO TOP OF CONE. SEE IF-517A AND IF-517B.
- (3) PRECAST MONOLITHIC ECCENTRIC CONE SECTION. (REBAR NOT SHOWN).
- (4) RAMNEK OR APPROVED GASKETS AT ALL JOINTS.
- 5 PROPERLY ALIGN ALL INTERIOR JOINTS.
- 6 PRECAST CONCRETE MANHOLE BARREL SECTION (REBAR NOT SHOWN) 48" RCP.
- PRECAST GASKETED HUB RING OR RUBBER GASKETED COLLAR.
- 8 SURFACING TO MATCH FLUSH WITH EXISTING SURFACING (AC SHOWN).
- 9 FRAME TO BE GROUTED TO GRADE RINGS.
- 10 FRAME AND COVER PER IF-507A.
- (1) CAST-IN-PLACE MANHOLE BASE. SEE IF-501A FOR PREFABRICATED BASE.
- (2) ROTATE CONE AS SHOWN IN RELATION TO PIPE SETUP AND DIRECTION OF FLOW. ALL OTHER CONFIGURATIONS TO HAVE WRITTEN ENGINEERS APPROVAL.

NOTES:

- (A) FOR DIAMETER, D, GREATER THAN 24", SEE IF-613 OR IF-614.
- MANHOLE FRAME AND COVER:
 A. FRAME AND COVER SHALL BE FLUSH WITH SLOPE OF PAVEMENT.
 B. "SEWER CONFINED SPACE" ON COVER.
- WHERE PVC PIPE IS UTILIZED, INSTALL A RUBBER RING OR GASKET COLLAR WHERE THE PIPE IS IN CONTACT WITH MANHOLE BASE AND/OR MANHOLE CHANNEL, IN ORDER TO ENSURE A WATERTIGHT SEAL.
- EITHER BASE ON IF-612 OR SD-501A MAY BE USED WITH ANY MANHOLE TYPE A.

2018 REVISION

MANHOLE TYPE A

BEDDING

standard drawing ^{NO.} IF-612

24" DIA 1 (MAX.) 2) <u>(MIN</u> Ъ, 3) 36, 4" (MIN.) 4 (5) 6 48" 6" (MIN.) SHELF SLOPE 1" PER FOOT Ø DS2 11800 AC 180080 9" (MIN.) 4" TYPE 1

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CITY OF IDAHO FALLS

DEPTH GREATER THAN 2' AND LESS THAN 5' \searrow PIPE DIA. \leq 24" SHELF SHE А А LEGEND 1 CONCRETE OR ASPHALT COLLAR IN PAVED STREET SECTION PER IF-616A OR IF-616B. PLAN N.T.S. (2) GRADE RINGS GROUTED WATERTIGHT IN PLACE, NOT TO EXCEED 21" FROM FINISHED SURFACE TO TOP OF CONE. SEE IF-517A AND IF-517B. (3) REINFORCED CONCRETE REDUCER SLAB. REBAR NOT SHOWN. (MAX.) (MIN.) (MIN.) 10) ៙ (8) (4) RAMNEK OR APPROVED GASKETS AT ALL JOINTS. (2) 121 و" 5 PROPERLY ALIGN ALL INTERIOR JOINTS. PRECAST CONCRETE MANHOLE BARREL SECTION (REBAR NOT SHOWN) 48" RCP. 6 (3) \bigcirc PRECAST GASKETED HUB RING OR RUBBER GASKETED COLLAR. ŵ (8) SURFACING TO MATCH FLUSH WITH EXISTING FINISHED OF PIPE 4" (MIN.) SURFACING (AC SHOWN). (9) FRAME TO BE GROUTED TO GRADE RINGS. FROM TOP 6 (1) FRAME AND COVER PER IF-507A. 2 1CAST-IN-PLACE MANHOLE BASE. SEE IF-501A FOR PREFABRICATED BASE. ĥ 2' TO 5 GRADE 5 6" (MIN.) SHELF SLOPE **D**S24 NOTES: (11) FOR DIAMETER, D, GREATER THAN 24", SEE (A)IF-613 OR IF-614. ๎₿ MANHOLE FRAME AND COVER: abadra *402400 9" (MIN.) A. FRAME AND COVER SHALL BE FLUSH WITH SLOPE OF PAVEMENT. B. "SEWER CONFINED SPACE" ON COVER. 4" TYPE 1 BEDDING WHERE PVC PIPE IS UTILIZED, INSTALL A RUBBER RING OR GASKET COLLAR WHERE THE PIPE IS IN CONTACT WITH MANHOLE BASE AND/OR MANHOLE CHANNEL, IN ORDER TO ENSURE A WATERTIGHT \odot SEAL. ៙ EITHER BASE ON IF-612 OR SD-501A MAY BE USED WITH ANY MANHOLE TYPE A.

SHALLOW MANHOLE

TYPE A

STANDARD DRAWING

IF-612A

NO.

2018 REVISION

CITY OF IDAHO FALLS



























CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 700 – Concrete

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 700 – Concrete

Section 702 – Concrete Reinforcement Part 3.1 Placement

Add new Item A.1:

1. If concrete blocks are used, they shall have appropriate tie wires imbedded in them during their forming stage and each block shall be tied to the reinforcing bar it supports, to hold the block in place. Concrete blocks shall have approximately the same strength quality as the concrete placed around them. Plastic coated tie wire will only be required when epoxy coated reinforcing steel is specified for bridge decks. Alternate methods of holding the concrete blocks in place may be approved. The use of pebbles, pieces of broken stone, concrete or brick, metal pipe or wooden blocks will not be permitted.

Section 703 – Cast in Place Concrete Part 2.4 Concrete Mix

Concrete (a)	Minimum	Max Water	Max Slump	Air Content
Class in (psi)	Cement	Cement Ratio	(inches)	(Percent)
<u>(28 day)</u>	<u>Content</u>			
	<u>LB./CY ^(b)</u>			
4000A	560	.44	2.5±1.0	6.5±1.5
4000B	560	.44	5	6.5±1.5
3000	560	.49	5	6.5±1.5
1500	380	.60	8	0-6
Flowable Fill	30 Min.	.80	10	0-10
125-150 psi				
max				

Delete Table 1 and **insert** new Table 1:

- a. Classes of concrete are the minimum compressive strengths when tested in accordance with applicable tests.
- It may not always be possible to produce concrete of the required strength using the minimum cement content. No separate payment will be made for additional cement required to meet minimum strength.

Concrete ^(a)	Minimum ^(b)	Minimum ^(b)	Max	Max	Air
Class in (psi)	Cement	Fly Ash	Water	Slump	Content
<u>(28 day)</u>	<u>Content</u>	<u>Content</u>	<u>Cement</u>	(inches)	<u>(Percent)</u>
			<u>Ratio</u>		
	LB./CY	LB./CY			
4000AF	467	116	.42	2.5±1.0	6.5±1.5
4000BF	467	116	.42	5 Max	6.5±1.5
3000F	467	116	.47	5 Max	6.5±1.5
1500F	317	79	.58	8 Max	0-6
Flowable Fill	30 Min	250	2.0	6 – 8	N/A
- 125-150					
psi					
Compactable	110		4.0	0-1	N/A
Fill (High					
Density)					

Delete Table 2 (retain footnotes) and insert new Table2:

Delete Item D and **insert** new Item D:

D. Unless otherwise specified in the Contract Documents or approved by the Engineer, use Class 4000AF extruded and 4000BF formed concrete with ¾ inch minus coarse aggregate.

Delete Item I and **insert** new Item I:

 Flowable Fill (CDF) shall meet the requirements of Table 1 or Table 2 and use 3,200 lbs. (SSD) of aggregates per cubic yard with a blend of 70% fine aggregate and 20% coarse aggregate (3/8 inch to No. 4) per ASTM C33.

Section 703 – Cast in Place Concrete Part 3.4 Concrete Finishing

Add new Item D and E:

- D. Bond skid-resistant overlays and high friction surfaces to bridges and elevated slabs with Pro-Poxy Type III D.O.T or approved equal. Apply per manufactures recommendation or as approved by Engineer
- E. Seal cracks in bridge decks with Pro Poxy 40 LVLM or approved equal. Apply per manufactures recommendation or as approved by Engineer.

Section 703 – Cast in Place Concrete Part 3.5 Curing and Protection

Add new Item F:

F. Continuously and conscientiously protect the new concrete from any type of damage or vandalism. Provide all barricades, fences, ropes, pedestrian bridges, personnel, etc. required to protect the freshly placed concrete from damage or defacement by pedestrians, animals, vehicles, etc. Do not begin any concrete placement until such protective devices and personnel are on hand at the project site. Remove and replace all concrete that is damaged, marred or defaced at no cost to the City.

Section 706 – Other Concrete Construction Part 2.4 Portland Cement Concrete

Delete Item A and insert new Item A:

A. Conform to the requirements of Section 703 – Cast-In-Place Concrete and Section 705 – Concrete Pavement.

Section 706 – Other Concrete Construction Part 2.5 Accessories

Add new Item B:

B. Epoxy adhesive for bonding: Rezi-Weld 1000 multi-purpose epoxy or approved equal.

Section 706 – Other Concrete Construction Part 3.10 Tolerances

Add new Item E:

E. Any cross sectional dimensions or measurements (i.e., depth, width, curb face batter, curb top radius, flow line radius, etc.) of any concrete member or element shall not vary more than one-fourth (1/4) inch from the approved typical cross section dimensions for the member or element; provided, however, that ninety (90) percent of the depth and/or width measurements of any fifty (50) foot length of the member or element shall be equal to or greater than the specified Plan (typical cross section) depth and width dimensions.

The Contractor shall furnish a ten (10) foot long straightedge to check the finished concrete work for conformance with the required tolerances. It shall be at the site of the work prior to the placing and finishing of the concrete work.

Any concrete work having unsightly bulges, ridges, low spots or other finishing defects shall be removed and replaced at the Contractor's expense.

Section 706 – Other Concrete Construction Part 3.12 Protection

Add new Item B:

B. Continuously and conscientiously protect the new concrete from any type of damage or vandalism. Provide all barricades, fences, ropes, pedestrian bridges, personnel, etc. required to protect the freshly placed concrete from damage or defacement by pedestrians, animals, vehicles, etc. Do not begin any concrete placement until such protective devices and personnel are on hand at the project site. Remove and replace all concrete that is damaged, marred or defaced at no cost to the City.

Section 706 – Other Concrete Construction Part 4 Measurement and Payment

Add the following to paragraph 4.1:

Required aggregate base under and around all construction items paid under this section shall be incidental to the respective concrete bid items. No payment for this construction will be made under Section 802 unless otherwise indicated in the Contract Documents.

Section 706 – Other Concrete Construction Part 4.1.A Concrete Curb and Gutter

Add new Items 13 and 14:

- 13. Bid Schedule Payment Reference: 706.4.1.A.13.
- 14. Bid Schedule Description: 10" Mountable Curb... linear foot (LF).

Section 706 – Other Concrete Construction Part 4.1.B Concrete Valley Gutter

Add new Items 5 and 6:

- 5. Bid Schedule Payment Reference: 706.4.1.B.5.
- 6. Bid Schedule Description: Alley Gutter... linear foot (LF).

Division 700 – Concrete – Standard Drawings

Delete the following Standard Drawings:

Delete SD-701A Delete SD-708 Delete SD-709 Delete SD-710 Delete SD-710A Delete SD-710B Delete SD-710C Delete SD-712A Delete SD-712C Delete SD-712D Delete SD-712E

Add the following Idaho Falls Standard Drawings:

Add IF-701A Add IF-701C Add IF-701D Add IF-701E Add IF-708A Add IF-708B Add IF-709 Add IF-710 Add IF-710A Add IF-710B Add IF-710C Add IF-712A Add IF-712B Add IF-712C Add IF-712D Add IF-712E











UF	IDANU	

ALLEY GUTTER

^{NO.} IF-708B



	5' MIN. 1.75% ± 0.25% 3:1 IN CUT 3:1 IN CUT 3:1 IN FILL 4" THICK CONCRETE 4" OF 3/4" MINUS CRUSHED BASE	AREA
	TANDARD CURB ND GUTTER 5' MIN. 1.75% ± 0.25% 5' MIN. 1.75% ± 0.25% 5' THICK CONCRETE 4" OF 3/4" MINUS CRUSHED BASE MATERIAL AS PER SECTION-800.	AREA
	VARIES 12" 4'-10' 4'-10' 4'-10' 4'-10' 5' MIN. 1.75% ± 0.25% 4" THICK CONCRETE SURFACE REPAIR (4' MIN) TANDARD CURB ND GUTTER	3.1 IN CUT AREA 3.1 IN CUT AREA 3.1 IN FILL AREA 3.4" MINUS CRUSHED BASE AL AS PER SECTION-800.
	VARIES 12" 4'-10' 5' MIN. 1.75% ± 0.25% 5" THICH SURFACE REPAIR (4' MIN) 4" OF 3/4" MINUS CRUSHE MATERIAL AS PER SECTION	12" 3:1 IN CUT AREA 3:1 IN CUT AREA 3:1 IN FILL AREA CONCRETE D BASE -800.
 A NOTES: A LOCATION GRADE AND WI B BASE TO BE COMPACTED C SLOPE SIDEWALK TOWARE BY THE OWNER. D SCORE AT INTERVALS TO LONGITUDINAL AND TRAN E 1/2" TRANSVERSE PREFO SIDEWALK IS PLACED BET PLACE 1/2" EXPANSION F SINGLE FAMILY DRIVEWAY MINIMUM ALL OTHER APP 	 ROLLED CURB ND GUTTER. DTH TO BE ESTABLISHED OR APPROVED BY THE OWNER. TO EXCEED 95% OF STANDARD DENSITY. THE STREET NOT TO EXCEED 1.75% ± 0.25% UNLESS OTHERWISE SPECIFIE MATCH WIDTH OF WALK NOT TO EXCEED 5 FEET SPACING. IN BOTH THE SVERSE DIRECTION FOR SIDEWALK GREATER THAN 5 FEET IN WIDTH. ORMED BITUMINOUS JOINTS AT THE TERMINUS POINTS FOR CURVE AND WHEI WEEN TWO PERMANENT FOUNDATIONS OR ADJACENT TO A STRUCTURE, JOINT MATERIAL ALONG THE BACK OF WALK THE FULL LENGTH. APPROACH ACROSS PLANTER STRIP & WALK TO BE 5" MINIMUM (7" ROACHES) CONCRETE OVER 4" OF 3/4" MINUS CRUSHED BASE. 	ED RE
G SIDEWALK CONSTRUCTION IS DEPTH OF SIDEWALK) SHALL BE PLACED EVERY 2021 REVISION	JOINTS SHALL BE CONSTRUCTED APPROXIMATELY 1 " WIDE, D/3 IN DEPTH AND FINISHED AND EDGED SMOOTH. A PREFORMED EXPANSION JOINT FILLEF (40' FOR NEW SIDEWALK CONSTRUCTION.	STANDARD DRAWING
CITY OF IDAHO FALLS	SIDEWALK	^{№.} IF-709

CITY OF IDAHO FALLS

2021 REVISION

CONCRETE SIDEWALK **APPROACH**

STANDARD DRAWING ^{NO.} IF-710

Curb	3"	4"	5"	6"	7"	8"
Depth	4'	5'	6'	7'	8'	9'
Wing	3'	4'	5'	6'	7'	8,
Throat Per Policy And Application Unless Otherwise						

APPROACH DIMENSION TABLE

(E) APPROACH DIMENSIONS ARE BASED ON THE HEIGHT OF THE CURB. SEE TABLE BELOW PAY QUANTITIES FOR URBAN APPROACHES SHALL INCLUDE THE APPROACH F RAMP/DRIVEWAY AREA, AND THE APPROACH FLARES/WINGS ..

- 5" THICK FOR SINGLE FAMILY RESIDENTIAL (7" THICK FOR ALL OTHER APPROACHES) FROM TIP OF WING TO TIP OF WING UP TO THE EXPANSION JOINT. WHEN SIDEWALK IS SEPARATE FROM CURB THE SIDEWALK IMMEDIATELY BEHIND THE APPROACH THROAT SHALL BE 5"THICK FOR SINGLE FAMILY RESIDENTIAL (7" THICK FOR ALL OTHER APPROACHES.
- BASE TO BE A 4" THICKNESS OF 3/4" MINUS CRUSHED AGGREGATE PER SECTION-802. \odot (D) APPROACH THROAT WIDTHS SET BY POLICY AND APPLICATION. ALL CONCRETE TO BE
- B INSTALL EXPANSION JOINT AT TIP OF APPROACH WINGS AND WHERE SIDEWALK CHANGES THICKNESS.
- NOTES: A APPROACH TO CONFORM TO THE LATEST A.D.A. STANDARDS.

NOTE B

P Throat Varies per Policy And Application Width Of Approach Per Construction Plans

12:1

SEE NOTE F

DEPTH

<u>~0</u>,

WING 6'

12:1

SEE NOTE D.

All Sidewalk Thickness Within Right Of Way Directly Behind Ramp Throat See Note D.

Le" standard curb

LSEE NOTE D L SEE NOTE B

- L4"OF 3/4"GRAVEL (TYPICAL)

STD	CURB -	$\frac{4}{1.75\% \pm 0.25\%}$
	12:1 SLOPE	
	SECTION A-A	
VARIES VIAR	All Sidewalk Thickness With Directly Behind Ramp Throat Width Or Approach Per Policy And Rev Construction	Nin Right Of Way 5% Application 12:1 1.75% ± 0.25% 12:1 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25% 1.75% ± 0.25
NOTES:		STANDARD
A APPROACH TO	CONFORM TO THE LATEST A.D.A. STANDARDS.	
UNSTALL EXPAN CHANGES THICK	JUN JUNI AT THE OF APPROACH WINGS AND WHERE SIDEWALK NESS.	
C BASE TO BE A SECTION-802.	4" THICKNESS OF 3/4" MINUS CRUSHED AGGREGATE PER	
D APPROACH THR 5" THICK FOR 3 FROM TIP OF W IS SEPARATE FI THROAT SHALL OTHER APPROA	DAT WIDTHS SET BY POLICY AND APPLICATION. ALL CONCRETE TO SINGLE FAMILY RESIDENTIAL (7" THICK FOR ALL OTHER APPROACH ING TO TIP OF WING UP TO THE EXPANSION JOINT. WHEN SIDEWAI COM CURB THE SIDEWALK IMMEDIATELY BEHIND THE APPROACH BE 5"THICK FOR SINGLE FAMILY RESIDENTIAL (7" THICK FOR ALL CHES.	D BE IES) LK
E SIDEWALK WIDTH	I MAY VARY.	
F PAY QUANTITIES RAMP/DRIVEWA	FOR URBAN APPROACHES SHALL INCLUDE THE APPROACH (AREA, AND THE APPROACH FLARES/WINGS	
2021 REVISION		
CITY OF IDAHO FALLS	CONC. DRIVEWAY SIDEWA AROUND APPROACH	ALK standard drawing NO. IF-710A

6" STD	SECTION A-A SECTION A-A NTS SECTION A-A NTS SECTION A-A NTS NTS NTS NTS NTS NTS NTS NTS NTS NTS	1.75% ± 0.25%
NOTES: (A) APPROACH TO CC (B) INSTALL EXPANSIO CHANGES THICKNE	NFORM TO THE LATEST A.D.A. STANDARDS. N JOINT AT TIP OF APPROACH WINGS AND WHERE SIDEWALK SS.	LA" OF 3/4 LA" OF CURB (TYPICAL) STANDARD
C BASE TO BE A 4' SECTION-802.	THICKNESS OF 3/4" MINUS CRUSHED AGGREGATE PER	
D APPROACH THROA 5" THICK FOR SIN FROM TIP OF WIN IS SEPARATE FRO THROAT SHALL BI OTHER APPROACH	T WIDTHS SET BY POLICY AND APPLICATION. ALL CONCRETE TO BE SLE FAMILY RESIDENTIAL (7" THICK FOR ALL OTHER APPROACHES) TO TIP OF WING UP TO THE EXPANSION JOINT. WHEN SIDEWALK A CURB THE SIDEWALK IMMEDIATELY BEHIND THE APPROACH 5"THICK FOR SINGLE FAMILY RESIDENTIAL (7" THICK FOR ALL SS.	
E SIDEWALK WIDTH	IAY VARY.	
2021 REVISION		
CITY OF IDAHO FALLS	CONCRETE DRIVEWAY WITH RAMPED SIDEWALK	standard drawing ^{NO.} IF-710B

		7'	5' MIN. 1.75% ± 0.25%
5' WALKFRON DETACHED DETACHED	SI	ECTION A-A	
4'3 STRIP 12:1 12:1	6'-0" TYPICAL HOTE B Width Of Ap 12:1 F	Sidewalk Thickness Within Ric ectly Behind Ramp Throat SE Varies Per Policy 1.75% # Proach Per Policy And Applic	Bht Of Way E NOTE D Btion Btion
NOTES: (A) APPROACH TO CON (B) INSTALL EXPANSION CHANGES THICKNES	FORM TO THE LATEST A.D.A. STANDARDS. I JOINT AT TIP OF APPROACH WINGS AND SS.	WHERE SIDEWALK	STRIP NTER
C BASE TO BE A 4"	THICKNESS OF 3/4" MINUS CRUSHED AGG	REGATE PER	
D APPROACH THROAT 5" THICK FOR SING FROM TIP OF WING IS SEPARATE FROM THROAT SHALL BE OTHER APPROACHE	WDTHS SET BY POLICY AND APPLICATION LE FAMILY RESIDENTIAL (7" THICK FOR AL TO TIP OF WING UP TO THE EXPANSION J CURB THE SIDEWALK IMMEDIATELY BEHINE 5"THICK FOR SINGLE FAMILY RESIDENTIAL S.	. ALL CONCRETE TO BE _ OTHER APPROACHES) OINT. WHEN SIDEWALK THE APPROACH (7" THICK FOR ALL	
E SIDEWALK WIDTH M	AY VARY.		
(F) PAY QUANTITIES FO RAMP/DRIVEWAY AI	PAY QUANTITIES FOR URBAN APPROACHES TO INCLUDE THE APPROACH RAMP/DRIVEWAY AREA, AND THE APPROACH FLARES/WINGS.		
© ROUTING OF SIDEW, STRIP EQUALS OR 2021 REVISION	ALK AROUND APPROACH IS NOT NECESSAF EXCEEDS 6 FEET.	Y WHEN THE PLANTING	
CITY OF IDAHO FALLS	CONCRETE DF DETACHED	RIVEWAY WI SIDEWALK	TH standard drawing NO. IF-710C

NOTES:

- (A) THIS TYPE OF RAMP TO BE USED FOR ALL CORNERS EXCEPT WHERE LOCAL STREETS MEET.
- (B) CURB ON THE RADIUS TO BE 6" STANDARD CURB FOR SHOWN DIMENSIONS.
- (C) ALL RAMP SURFACES TO BE 12 TO 1 SLOPE TO CONFORM TO ADA REQUIREMENTS.
- (D) THIS TYPE OF CORNER TO HAVE TWO RAMPS CENTERED IN RADIUS WITH 6' BETWEEN RAMP WING TIPS.
- (E) CORNER RADIUS IS 30' AS A MINIMUM WHEN ADJOINING ANY COLLECTOR OR ARTERIAL STREET. THE ENGINEER MAY REQUIRE LARGER RADIUS SIZES WHERE LARGER VEHICLE TURNING IS EXPECTED.
- (F) PROPERTY TRIANGLE SIZE TO BE EQUAL TO THE RADIUS SIZE AS A MINIMUM. THE ENGINEER MAY REQUIRE LARGER TRIANGLES TO ACCOMMODATE VARIOUS TRAFFIC EQUIPMENT AND UTILITIES.
- G THE RAMP THROAT WDTH TO BE 4 FEET MEASURED PERPENDICULAR TO THE 7 FOOT THROAT SIDE. THE RAMP THROAT DEPTH TO BE 7 FEET MEASURED FROM THE FACE OF THE CURB TO THE BACK OF THE APPROACH. THE 7 FOOT SIDE OF THE RAMP THROAT TO BE PARALLEL WITH THE EXPECTED PATH OF THE PEDESTRIAN AND NOT PERPENDICULAR TO THE CURB. FOR EXAMPLE: PARALLEL WITH THE CROSS WALK STRIPES OR STOP BAR.
- (H) THE RAMP WINGS TO BE 6 FEET MEASURED AT THE CURB FACE FOR 6" STANDARD CURB.
- (I) ALL RAMPS TO HAVE A 4 FOOT WIDE CONTINUOUS PATH BEHIND THEM FOR PEDESTRIANS.
- (J) ALL CONCRETE ADJOINING THE RADIUS WITHIN AND AROUND THE RAMPS TO BE 7 INCHES THICK ON ARTERIAL CORNERS AND 5 INCHES THICK ON ALL OTHER CORNERS WITH 4 INCHES OF 3/4 INCH AGGREGATE BASE.



NOTES:

- (A) THIS TYPE OF RAMP TO BE USED FOR ALL CORNERS EXCEPT WHERE LOCAL STREETS MEET.
- (B) CURB ON THE RADIUS TO BE 6" STANDARD CURB FOR SHOWN DIMENSIONS.
- (C) ALL RAMP SURFACES TO BE 12 TO 1 SLOPE TO CONFORM TO ADA REQUIREMENTS.
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- (H) THE RAMP WINGS TO BE 6 FEET MEASURED AT THE CURB FACE FOR 6" STANDARD CURB.
- (I) ALL RAMPS TO HAVE A 4 FOOT WIDE CONTINUOUS PATH BEHIND THEM FOR PEDESTRIANS.
- (J) ALL CONCRETE ADJOINING THE RADIUS WITHIN AND AROUND THE RAMPS TO BE 7 INCHES THICK ON ARTERIAL CORNERS AND 5 INCHES THICK ON ALL OTHER CORNERS WITH 4 INCHES OF 3/4 INCH AGGREGATE BASE.



	, 		
	6" STANDARD CURR		
	12:1 Siope		
	SEE NOTE ()		
	RAMP SECTION		
SIDEWALK MAY BE NON-CONTINUOUS.			
	SEE NOTE G		
	$\frac{7'}{12\cdot 1} = \frac{4'}{12} = \frac$		
12:1 ** 4' RADIUS			
6" STANDARD CURB.	6" STANDARD CURB.		
*	* THIS RADIUS MUST BE INCLUDED FOR RAMP TO BE CONSTRUCTED CORRECTLY.		
15' RADIUS MINIMUM	15' RADIUS MINIMUM		
NOTES: (A) THIS TYPE OF RAMP MAY BE USED FOR LARGE COMMERCIAL APPROACHES A APPROACH IS NOT REQUIRED. THESE ALSO MAY BE USED FOR ALLEY AND F A. THE SIDE WALK IS NOT REQUIRED TO CONTINUE AROUND THE RADIU B. A SECOND RAMP IS NOT REQUIRED TO MOVE PEDESTRIANS ACROSS	WHERE THE STANDARD CONCRETE PRIVATE STREET APPROACHES WHERE: S THE PRIMARY STREET.		
(B) CURB ON THE RADIUS MUST BE 6" STANDARD CURB FOR SHOWN DIMENSIONS.			
© ALL RAMP SURFACES MUST CONFORM TO ADA REQUIREMENTS.			
D THIS TYPE OF CORNER MUST HAVE A SINGLE RAMP TURNED PARALLEL TO	THE PRIMARY STREET.		
E CORNER RADIUS IS 15' AS A MINIMUM. THE DISTRICT MAY REQUIRED LARGER RADIUS SIZES WHERE LARGER VEHICLE	TURNING IS EXPECTED.		
F THE RAMP THROAT WIDTH MUST BE 4 FEET MEASURED PERPENDICULAR TO THE RAMP THROAT DEPTH MUST BE 7 FEET MEASURED FROM THE FACE OF THE 7 FOOT SIDE OF THE RAMP THROAT MUST BE PARALLEL WITH THE EXP PERPENDICULAR TO THE CURB FOR EXAMPLE: PARALLEL WITH THE CROSS V STREET CURB.	THE 7 FOOT THROAT SIDE. THE CURB TO THE BACK OF THE APPROACH. ECTED PATH OF THE PEDESTRIAN AND NOT VALK STRIPES, THE STOP BAR, OR THE PRIMARY		
ITHE RAMP WING MUST BE 6 FEET MEASURED AT THE CURB FACE FOR 6" S THE WING AWAY FROM THE ROAD IS ELIMINATED AND REPLACED WITH A WIN FACE OF THE STANDARD CURB AND 0 INCHES HIGH AT THE BACK OF THE RAMP.	TANDARD CURB. IG SUBSTITUTE THAT IS 6 INCHES HIGH AT THE RAMP AND POURED MONOLITHICALLY WITH THE		
igoplus All RAMPS MUST HAVE A MINIMUM 4 FOOT X 4 FOOT LANDING BEHIND THE	M FOR PEDESTRIANS.		
\bigcirc All concrete adjoining the radius within and around the ramps sh and 5 inches thick on all other corners with 4 inches of 3/4 inch	ALL BE 7 INCHES THICK ON ARTERIAL CORNERS I AGGREGATE BASE.		
① RAMP CROSS SLOPE TO BE 1.75% ± 0.25%.			
2021 REVISION			
CITY OF IDAHO FALLS PEDESTRIAN RAMP FOR NEW DEVEL(TYPE "C" standard drawing OPMENT STANDARD DRAWING		

SEE NOTE F. PA PA PA PA PA PA PA PA PA PA
TYPE "A1" TWO WINGS 10' RADIUS (MIN.)
NOTES: (A) THESE STYLES OF RAMPS MAY BE USED WHERE EXISTING STREET CORNERS NEED NEW CURBS AND RAMPS AND THE RADIUS IS 10 FOOT MIN. OR LARGER. (B) CURB ON THE RADIUS SHOULD MATCH THE HEIGHT AND STYLE OF THE ADJOINING EXISTING CURB ANY VARIANCE FROM THIS MUST BE ADDROVED BY THE OWNER
© RAMP DIMENSIONS ARE BASED ON THE HEIGHT OF THE CURB. SEE TABLE BELOW.
CORB S 4 S 6 7 8 DEPTH 4' 5' 6' 7' 8' 9' WING 3' 4' 5' 6' 7' 8'
THROAT 4' 4' 4' 4' 4' 4'
D ALL RAMPS TO HAVE A 4 FOOT WIDE CONTINUOUS PATH BEHIND THEM FOR PEDESTRIANS.
(F) RAMP WINGS MAY BE REPLACED BY A 6 INCH WIDE CURB IF RAMP SIDE ABUTS A LAWN OR PLANTER. THE CURB IS 0 INCHES
TALL AT BACK OF APPROACH AND MATCHES CURB HEIGHT AT THE STREET.
5 INCHES THICK ON ALL OTHER CORNERS WITH 4 INCHES OF 3/4 INCH AGGREGATE BASE. 2021 REVISION
CITY OF IDAHO FALLS PEDESTRIAN RAMPS WITHIN RADIUS STANDARD DRAWING FOR MODIFYING EXISTING CORNERS IF-712D


CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 800 – Aggregates and Asphalt

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 800 – Aggregates and Asphalt

Section 801 – Uncrushed Aggregates, Part 2.1 Description

Insert new Item E:

E. Material to be free of wood, weeds, limbs, leaves, trash, or other organic matter.

Section 801 — Uncrushed Aggregates, Part 4.1 Measurement and Payment

Add new Items C, D, and E:

- C. Uncrushed Drain Rock 3 inches: By the cubic yard measured on a compacted in place basis.
 - 1. Bid Schedule Payment Reference: 502.4.1.C.1.
 - 2. Bid Schedule Description: Uncrushed Drain Rock 3 inches...Cubic yard (CY).
- D. Sand: By the cubic yard measured on a compacted in place basis.
 - 1. Bid Schedule Payment Reference: 502.4.1.D.1.
 - 2. Bid Schedule Description: Sand...Cubic yard (CY).
- E. Filter Sand: By the cubic yard measured on a compacted in place basis.
 - 1. Bid Schedule Payment Reference: 502.4.1.E.1.
 - 2. Bid Schedule Description: Filter Sand...Cubic yard (CY).

Section 805 – Asphalt Part 2.2

Delete Item D and **Insert** new Item D:

D.

Liquid Asphalts Rubberized											
Property	RC 3000R	RC-800R	Test Method								
Flash point, T.O.C., °F	80 Min.	80 Min.	ASTM D 1310								
Visc. @ 140°F, cst	3000-6000	800-1600	ASTM D 2170								
Distillation: 30 in Hg % of Total Dist. To 680°F			ASTM D 402								
To 437°F 15 Min.											
500°F	25 Min.	45Min.									
600°F	70 Min.	75 Min.									
Res., Vol. % by Difference	80 Min.										
	Test on Rubberi	zed Base Asphalt									
Viscosity @ 140°F Poise	1600-2400	1600-2400	ASTM D 2171								
Duct @ 77°F (5 cm/min) cm	150 Min.	150 Min.	ASTM D 113								
Duct @ 39°F (5cm/min) cm	35 Min.	35 Min.	ASTM D 113								
Toughness, inch-pounds	75 Min.	75 Min.	*								
Tenacity, inch-pounds	50 Min.	50Min.	*								
 * Benson Method of Toughness and Tenacity, Scott Tester, inch-pounds @77°F, twenty (20) inches per minute pull. Tension head seven-eighth (7/8) inch diameter. 											

Sampling - Rubberized Base Asphalt samples taken at point of manufacture of the liquid asphalt shall be the material tested for compliance of Rubberized Base Asphalt. Liquid asphalt samples taken at point of delivery will be tested for compliance of properties other than rubberized base asphalt requirements.

Section 806 – Asphalt Tack Coat, Part 2.1 Description

Delete Item A and **Insert** new Item A:

- A. Asphalt Grade SS-1 Emulsified Asphalt.
 - 1. Engineer may change grade one step with no change in unit price.
 - 2. Asphalt will be accepted at point of delivery.

Section 808 – Seal Coat, Part 3.1 Construction Limitations

Add Item B.5:

5. Crack Seal: Deery 102: 80°F and rising. Apply as per product data sheet.

Add Item J:

J. Conduct all traffic control activities in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). Maintain traffic control during and after the seal coating of streets until the chips are completely cleaned up, the newly seal coated surfaces fog coated and the project accepted by the Engineer. Give special consideration to warning motorists, motorcyclists, and other roadway users to the dangers posed by loose gravel on the roadway. Provide access during business hours on all streets with a single business entrance on a street to be seal coated, unless written permission is obtained from the business allowing closure of the entrance. Close other streets, as allowed by the Engineer, during the seal coat operation except where there is only one access available; however, provide a detour plan in accordance with the MUTCD for any closure to the Engineer for his approval 24 hours prior to the closure. Provide notice of the closures and the detour to the various agencies and news media as required. Prior to the start of any work, provide the City with a "Work Schedule" detailing each phase of the work, the dates scheduled, and the work crew used.

Section 808 – Seal Coat, Part 3.3 Applying Asphalt

Delete Item E and **Insert** new Item E:

E. Unless otherwise directed, use forty-five hundredths (0.45) plus or minus five hundredths (0.05) of a gallon per square yard of CRS-2R, with the exact application rate determined by the Engineer.

Section 808 – Seal Coat, Part 3.4 Application of Cover Coat Material

Delete Item J and **Insert** new Item J:

J. Remove all excess cover coat material from the entire surface width of all streets sealed and from all lawns, sidewalks, driveways, utility strips, etc.

Section 808 – Seal Coat, Part 3.4 Application of Cover Coat Material

Add new Item Q:

Q. Within 24 hours of when excess cover coat material has been removed, apply fog

coat in conformance with Section 813 Fog Coat.

Section 808 – Seal Coat, Part 4 Measurement and Payment

Add the following to Item 4.1:

Fog Coat is incidental to Seal Coat.

Section 813 – Fog Coat, Part 3.2 Application of Fog Coat

Delete Item D Add new Item D:

D. Unless otherwise specified, apply CSS-1h at the rate of one-tenth (0.1) plus or minus four hundredths (±0.04) of a gallon per square yard of diluted emulsified asphalt. Dilute asphalt to equal parts of asphalt and potable water.

Division 800 – Concrete – Standard Drawings

Delete the following Standard Drawings:

Delete SD-801 Delete SD-802 Delete SD-803 Delete SD-804 Delete SD-805 Delete SD-806 Delete SD-807

CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 1100 - TRAFFIC

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 1100 – Traffic

Section 1101 — Traffic Signal and Appurtenances, Part 2 Products

Add new Section 2.1:

- 2.1 MATERIALS
 - A. Signal Cabinet: TS-2, Type 1, NEMA 'P'.
 - B. Controller: Econolite Cobalt ATC.
 - C. Service Pedestal: Type 3 underground 100 amp. Meyers, Milbank, Tesco or approved equal.
 - D. Battery Backup System: UPS unit with batteries and enclosure. Tesco, Alpha Technologies, or approved equal.
 - E. Signal Pole: Valmont or approved equal.
 - F. Combination Signal and Luminaire Pole: Valmont or approved equal.
 - G. Light Pole: Davit style (6' 3" curvature radius), Galvanized steel.
 - H. Pedestrian Signal Pole: 4" SCH 40 A-53 galvanized steel pipe with Pelco pedestal base.
 - I. Luminaire: 163W LED. Leotek or approved equal.
 - J. Photoelectric Control: 240V, mounted in service pedestal. Intermatic, GE, Fisher-Pierce or approved equal.
 - K. Junction Box: Polymer concrete composite with traffic rated cover. Quazite, Carson Ind., Armorcas, or approved equal.
 - L. Vehicle Signal Head: Three- and four-section vertical. Peek, Siemens ITS, McCain or approved equal.

- 1. 12" polycarbonate.
- 2. 5" black backplate with yellow 2" 3M diamond grade retroreflective border.
- 3. 12" olive green tunnel visors.
- M. Vehicle Signal Modules: 12" LED with quick disconnect leads, smooth lens surface, 120 VAC. Gelcor, Leotek, Dialight or approved equal.
- N. Pedestrian Signal Head: 16" LED, countdown timer with housing. IDC with Dialight countdown module or approved equal.
- O. Signal Head Mounting Bracket
 - 1. Pelco or approved equal for three-section and four-section for vehicle signal mast arm mounting.
 - 2. Econolite, McCain, or approved equal for three-section and foursection for vehicle signal side of pole terminal compartment mounting.
 - 3. Econolite, McCain, or approved equal for pedestrian signal head side of pole terminal compartment mounting.
- P. Pedestrian Push Button Assembly

Section 1101 — Traffic Signals and Appurtenances, Part 3.2 Loop Installation

Delete Items C, D, E, F, G, H, I, J, K, L, N, O, R, and S and insert new Items C and D:

- C. Splice using waterproof 3M brand scotch cast or approved equal. Inline resin splice kits only.
- D. Saw cut loop installation not allowed.

Section 1101 — Traffic Signals and Appurtenances, Part 4 Measurement and Payment

Add new Item B:

B. Traffic Signal: By the lump sum for all work included in the Contract Documents or specified herein. Work to include the sum total of all items for a complete system to be furnished, installed, and tested, including full compensation for all costs involved in furnishing all labor, materials, and equipment necessary or

incidental to the construction of a complete new signal system as shown in the Contract Documents. Work to include saw cutting, excavation, backfilling, concrete foundations, conduit, wiring, loops, controller and service cabinets, signal heads, signal poles, mast arms, emergency preemption devices, restoration of facilities destroyed or damaged during construction, and for making all required tests. All additional materials and labor not shown in the Contract Documents, or called for herein, and which are required to complete the specified system are incidental to the construction and included in the lump sum contract price.

- 1. Bid Schedule Payment Reference: 1101.4.1.B.1.
- 2. Bid Schedule Description: Pedestrian Hybrid Beacon...Each (EA).

Section 1104 — Permanent Pavement Markings, Part 1.3 References

Delete Item B and insert new Item B:

B. Federal Specifications, TT-P- 1952-D, Type II High Build.

Section 1104 — Permanent Pavement Markings, Part 2.3 Thermoplastic Pavement Markings

Delete Item A and B and **insert** new Item A and B:

- A. Reflective thermoplastic pavement markings material to be pre-formed with a minimum thickness of 125 mils.
- B. Heat fused permanent pre-formed thermoplastic pavement markings t to conform to the current American Association of State Highway and Transportation Officials (AASHTO) Standard M-249, with the exception of the relevant differences for the material being supplied in the pre-formed state. Use polymeric materials, pigments, binders and glass beads, factory produced as a product. The dimensions shall meet the requirements of the current Manual on Uniform Traffic Control Devices, as adopted by the State of Idaho.

Section 1104 — Permanent Pavement Markings, Part 3.3 Paint Application

Add New Item O and P:

- O. No additional payment for temporary striping, unless approved in advance by Engineer.
- P. Cycle length for striping to be 40 feet (10 foot stripe with a 30 foot gap).

<u>Section 1104 — Permanent Pavement Markings, Part 3.4 Thermoplastic Pavement Marking</u> <u>Application</u>

Delete Item A and insert new Item A:

A. Properly clean and prepare surface. Completely remove any and all existing thermoplastic and paint to the approval of the Engineer.

Section 1105 — Permanent Traffic Signing, Part 2.2 Signs

Delete Item D and **insert** new Item D:

D. All sign sheeting must meet ASTM D 4956-04 and the requirements of the MUTCD Retro reflectivity Levels regardless of compliance dates. As a minimum Type IV sheeting must be used for the following signs: Stop, Yield, Wrong Way, Do Not Enter, Black and Yellow warning signs, Fluorescent Yellow-Green school signs and Street Name signs. Remaining signs may be fabricated of Type I sheeting. Local agencies may require higher standards. Splicing of reflective sheeting will not be allowed on panels of less than 24 inches in length or width. One splice may be permitted on larger panels if any gaps are less than 0.04 inches in width and color matches.

Section 1105 — Permanent Traffic Signing, Part 2 Materials

Add new Part 2.4 Rectangular Rapid Flash Beacon (RRFB):

- A. Rectangular Rapid Flash Beacon.
 - 1. Two rapidly and alternately flashing rectangular yellow indications having LED array based pulsing light sources, and designed, located, and operated with the detailed requirements specified on the plans.
 - 2. Complete assembly, consisting of beacon mounts (compatible to the sign post), indications, electrical components (wiring, solid-state circuit boards, etc.), two W11-2 signs, two W16-7p signs, mounting hardware, post, and post foundation.
 - 3. Activates by a push button. The RRFB is normally dark, initiates operation only upon pedestrian actuation, and ceases operation after a predetermined time limit (based on MUTCD procedures). When activated, the RRFB indications flash in a rapidly alternating "wig-wag" flashing sequence (left light on, then right light on).
 - 4. Indications have 70 to 80 periods of flashing per minute. Posts are 4" diameter round, compatible to the flasher system and have breakaway bases that are NCHRP 350 TL3 or MASH compliant.
 - 5. Assembly will be paired with an assembly on the opposite side of the street. Communication is provided between the two assemblies such that a

pedestrian activation at either assembly activates both RRFB assemblies simultaneously.

- 6. Equipped with a solar panel, battery, and all other equipment recommended by the RRFB manufacturer for solar operation.
- 7. Minimum size of approximately 5" wide x 2" high. The two RRFB indications align horizontally, with the longer dimension of the indication horizontal, and a minimum space between the two indications of approximately 7" measured from inside edge of one indication to inside edge of second indication. The outside edges of the two indications, including any housing, is not to protrude beyond the outside edges of the integral signage of the RRFB. The light intensity of the RRFB's indications meets the minimum specifications of the Society of Automotive Engineers (SAE) standard 1595 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005. The pushbutton is capable of continuous operation over a temperature range of -30 degrees F to 165 degrees F (-34 degrees C to 74 degrees C).
- B. Control Cabinet.
 - 1. Provide airflow for internal components, screen vents on all to prevent insects and other foreign matter from entering.
 - Include at least two tamper-resistant stainless steel hinges and a replaceable #2 traffic lock with keys.
 - 3. The cabinet includes a removable control panel to which all control circuit components either mount or connect.
 - 4. Utilize four 5/16"-18 stainless steel mounting studs that mate to a range of bracket options. To ensure a secure mount to the supporting post, two banding style brackets that fit poles with a 2-3/8" or larger diameter shall be included as standard equipment.
 - 5. All materials used in the construction or mounting of the control cabinet is either aluminum or stainless steel. Anti-vandal mounting is an option.
 - 6. Apply a UV resistant label to the exterior of the cabinet and include system specific information including model number, serial number, date of manufacture, as well as any applicable regulatory compliance information.
- C. Controller The Programmable Flash Controller is housed within the Control Cabinet and includes the following:
 - 1. Integrated constant-current LED drivers with a minimum of two-channel output for driving one or two units.
 - 2. Multiple levels of LED brightness through LED drive current control as determined by the phototransistor input.
 - 3. Utilize MUTCD compliant flash pattern
 - 4. Automatically adjust the LED drive current control to optimize brightness for the ambient lighting conditions.

- 5. LED drive outputs to reach the full output current as programmed within the duration of the 100ms on-time.
- 6. Integrated Real Time Clock (RTC) with on-board battery backup.
- 7. Capability of RS232 communication for programming with Windows-based software.
- 8. Minimum of two General Purpose Inputs and Outputs (GPIO).
- 9. Minimum of two General Purpose Inputs and Outputs (GPIO).
- 10. Internally housed in its own IP67 type enclosure.
- 11. Independently replaceable of other control panel components.
- 12. Monitor internal temperature.
- 13. Operate between the temperatures of -40° to +176°F (-40° to +80°C).
- D. Sign.
 - 1. Type W11-2 Florescent Green with an arrow.
 - Conform to 2009 Federal Highway Administration's MUTCD section 2A.07 on retro reflectivity and illumination. Each sign has eight Daylight-Visible LEDs (amber) that are embedded individually into 1" diameter holes around the perimeter of the sign and be ultrasonically welded to the sign assembly to provide maximum strength and rigidity.
 - 3. Sign blank material is a minimum of 0.080" thick aluminum.
 - 4. Consists of reflective fluorescent yellow-green or fluorescent yellow or white sheeting, as required, for an MUTCD compliant sign, applied to the sign blank with a Protective Overlay film to provide an additional layer of graffiti protection.
 - 5. Specified quantity of high power, 1-watt LEDs.
 - 6. LED sealed within a 7/8" diameter, heat-dissipating plastic enclosure to provide resistance to weather and vibration.
 - 7. LEDs wired in strings to activate simultaneously per MUTCD standards.
 - 8. LEDs wired in parallel electrically so that remaining LEDs continue to flash in the event of the failure of any individual LED.
 - 9. Encapsulate Wiring between LEDs inside aluminum extrusions secured to the back of each sign assembly, to provide weather resistance and protection.
 - 10. Adequate holes for mounting to a pole or post.
 - 11. Apply UV-resistant label(s) to the back of each sign assembly. Include specific information such as the manufacturer, manufacturer phone number, model number, serial number, date of manufacture and any applicable regulatory compliance information.
- E. Solar Charge Controller.
 - 1. Utilize an intelligent 4-stage algorithm and Pulse Width Modulation (PWM)

for battery charging.

- 2. Automatically provide Low Voltage Disconnect (LVD) to protect batteries when needed.
- 3. Automatically provide Load-Reconnection once battery levels have been restored to an acceptable value.
- 4. Protect against and automatically recover from: short circuit, overload, reverse polarity, high temperature, lightning and transient surge, as well as voltage spikes.
- 5. Independently replaceable of other control panel components.
- 6. Operate from -40° to +140°F (-40° to +60°C).LED
- F. Battery Power.
 - 1. Housed inside the Control Cabinet.
 - 2. Nominal output voltage of 12 VDC and a capacity of 48Ah.
 - 3. Rechargeable type Gelled-Electrolyte.
 - 4. Sealed and spill-proof.
 - 5. Battery replaceable independently of other components.
 - 6. Fused for short circuit protection.
- G. Solar Power (55W)
 - 1. Constructed of an anodized aluminum frame, high-transmission 1/8" tempered glass, with silicon cells encapsulated in double-layer EVA, and with a white polymer backing.
 - 2. Affixed to an aluminum plate and pole top bracket at a fixed angle of 45° to provide maximum insolation exposure.
 - 3. Post top mounting system provides 360° of rotational direction adjustment and upon installation, must be oriented with the collector facing South.
 - 4. Operate at 12VDC nominal with a maximum output rating of 55 watts.
 - 5. The solar panel specifications:
 - a. Minimum Overall Size: 625 square inches
 - b. Maximum power voltage: 18.18 VDC
 - c. Maximum power current: 3.1 A
 - d. Operate from -40° to +194°F (-40° to +90°C)
 - 6. Connectors dust proof and water proof.
 - 7. Fasteners anti-vandal pin-type set screws, provide wrench.

- H. 900 MHz FHSS Wireless Transceiver.
 - 1. Seamlessly integrate with the controller to ensure sequential activation of other radio-equipped devices in the system.
 - 2. Include an integrated LCD and two user-interface buttons for setup and troubleshooting, including readouts of flash duration (timeout), battery conditions, and LED testing functionality.
 - 3. Include two LED indicators for status and troubleshooting.
 - 4. Shall be capable of operating as a Parent (Gateway) or Child (Node or Repeater).
 - 5. Capable of providing site-survey data for verification of signal strength between network devices.
 - 6. Include network-wide modification of sign controller settings and output durations, using programmability from any networked transceiver without the use of additional equipment or software.
 - Synchronize the system components to activate the indications within 120msec of one other and remain synchronized throughout the duration of the flash (timeout) cycle.
 - 8. Operate on the license-free ISM band.
 - 9. Operate from 3.3VDC to 15VDC.

10. In the event of failure, replaceable independently of other components.

- I. Pole Shaft.
 - 1. 13' 15' length standard specified outer diameter aluminum pedestal pole.
 - 2. Supply with one end threaded for easy installation into a pedestal base.
- J. Pole Pedestal Base.
 - 1. TP-358 cast aluminum that mounts on a concrete foundation attached by four internal anchor bolts imbedded in the foundation.
 - 2. Include a large 8.5" square hand hole cover allowing access to the interior.
- K. Warning Static Sign.
 - 1. Each static sign face shall be constructed on a 0.080" thick 5052-H32 aluminum and screened onto 3MTM Diamond Grade TM DG3 Reflective sheeting of specified color.
 - 2. MUTCD compliant sign legend, as dictated by the requirements.
 - 3. Two holes for mounting to a post or pole.
 - 4. Include pole mounting hardware.

Section 1105 — Permanent Traffic Signing, Part 3.1 Sign Installation

Add new Item C Rectangular Rapid Flash Beacon (RRFB):

- C. Rectangular Rapid Flash Beacon (RRFB).
 - Install in accordance with the manufacturer's recommendations and as shown on the plans. Pole mounting requirements per MUTCD guidelines. Foundations shall be in compliance with City standards for sign posts as applicable. Complete assembly, consisting of beacon mounts (compatible to the sign post), indications, electrical components (wiring, solid-state circuit boards, etc.), two W11-2 signs, two W16-7p signs, mounting hardware, post, and post foundation.
 - Each Sign to be supplied with all required hardware to install assembly. Include the crossing warning sign and the supplemental downward diagonal arrow plaque. Provide an ITD 851 and 914 form for all materials incorporated in this work. Indications have 70 to 80 periods of flashing per minute. Posts are 4" diameter round, compatible to the flasher system and have breakaway bases that are NCHRP 350 TL3 or MASH compliant.
 - 3. Include a three-year Manufacturer warranty, unconditional warranty against all defects in material and workmanship.

Section 1105 – Permanent Traffic Signing 4.1 Measurement and Payment

Add new Items E, F and G:

- E. Install Traffic Sign: Per each including post, anchor, sign face and incidentals. Includes full compensation for materials, labor and equipment necessary for completing the work and all appurtenances not itemized on the Bid Schedule.
 - 1. Bid Schedule Payment Reference: 1105.4.1.E.1.
 - 2. Bid Schedule Description: Install Traffic Sign, Type _____...Each (EA).
- F. Remove and Replace Traffic Sign: Per each including post, anchor, and sign face. Includes full compensation for materials, labor and equipment necessary for completing the work and all appurtenances not itemized on the Bid Schedule.
 - 1. Bid Schedule Payment Reference: 1105.4.1.F.1.
 - 2. Bid Schedule Description: Remove and Replace Traffic Sign, Type _____...Each (EA).
- G. Rectangular Rapid Flash Beacon (RRFB): Per each and includes full compensation for materials, labor and equipment necessary for completing the work and all appurtenances not itemized on the Bid Schedule.

- 1. Bid Schedule Payment Reference: 1105.4.1.G.1.
- 2. Bid Schedule Description: Rectangular Rapid Flash Beacon (RRFB)...Each (EA).

Division 1100 – Traffic – Standard Drawings

Delete the following Standard Drawings:

Delete SD-1102 Delete SD-1103 Delete SD-1105 Delete SD-1106 Delete SD-1107 Delete SD-1108 Delete SD-1109 Delete SD-1110 Delete SD-1112 Delete SD-1113 Delete SD-1114 Delete SD-1115 Delete SD-1116 Delete SD-1118 Delete SD-1119 Delete SD-1122 Delete SD-1125 Delete SD-1126 Delete SD-1127 Delete SD-1131 Delete SD-1132

Add the following Idaho Falls Standard Drawings:

Add IF-1103 Add IF-1105 Add IF-1107 Add IF-1108 Add IF-1109 (2 Sheets) Add IF-1110 Add IF-1112 Add IF-1113 Add IF-1114 Add IF-1114 Add IF-1115 Add IF-1132A Add IF-1132B Add IF-1132C











POLE FOUNDATION SCHEDULE														
POLE TYPE	мт.нт.	T.HT. MASTARM LENGTH FOUNDATION X Y HOOPS TYPE X Y NO.ISIZEI LIN.		PS LIN. FT.	VEI NO.	RTICA SIZE	L RODS	CU. YDS. CONCRETE						
PEDESTRIAN SIGNAL POLE	10'	-	A	2'-0''	5'-0"	4	#4	23'-0"	6	#4	28'-0"	0.6		
LIGHT POLE PEDESTRIAN SIGNAL POLE	30'	ALL	А	2'-0''	5'-0"	4	#4	23'-0"	6	#4	28'-0"	0.6		
LIGHT POLE	40'	ALL	С	3'-0''	8'-0"	5	#4	44'-2"	8	# 6	61'-4"	2.1		
PED. PUSHBUTTON POLE	4'-0''	-	E	1'-6''	2'-6"	-	-	-	-	1	-	0.2		
DUAL MASTARM SIGNAL POLE	-	ALL	F	3'-0''	12'-0"	8	# 5	70'–8"	12	# 6	140'	3.1		
SIGNAL POLE	_	20' – 55'	F	3'-0''	12'-0"	8	# 5	70'-8''	12	# 6	140'	3.1		
SIGNAL POLE (SEE NOTE 2)	-	60' - 65'	G	3'-6"	14'-0"	9	#5	78'–10"	12	#6	166'	3.7		

TRAFFIC SIGNAL POLES ARE LIMITED TO A MAXIMUM 50' LUMINAIRE MOUNTING HEIGHT, A MAXIMUM 20' LUMINAIRE MAST ARM LENGTH, AND MAXIMUM SIGNAL MAST ARM LENGTHS LISTED IN THE "SIGNAL POLE SCHEDULE".

WHEN BEDROCK IS ENCOUNTERED ROCK MUST BE REMOVED AND POLE PLACED AS SHOWN BELOW.

SIGN	IAL POL	E SCHED	ULE					
VERTICAL POLE	SIGNA LEN	L ARM IGTH						
CLASS I	2 2 3 3	SINGLE						
CLASS 2	4 4	MAST						
CLASS 3	5 5	50' 55'						
CLASS 4 (SEE NOTE 3)	ARM 1 20' 25' 30' 35' 40' 45' 50' 55'	ARM 2 (MAX.) 55' 55' 50' 45' 45' 45' 45' 30' 25'	DOUBLE MAST					

NOTE:

STANDARD POLE

FOUNDATION DETAIL

- CONTACT THE CITY OF IDAHO FALLS ENGINEERING DEPT. IF SOIL IS CLAY, SANDY CLAY, SILTY CLAY, AND CLAYEY SILT OR IF SOIL IS ORGANIC CLAYS AND PEAT.
- 2. TRAFFIC SIGNAL POLES ARE LIMITED TO A MAXIMUM 50' LUMINAIRE MOUNTING HEIGHT, A MAXIMUM 20' LUMINAIRE MAST ARM LENGTH, AND MAXIMUM SIGNAL MAST ARM LENGTHS LISTED IN THE "SIGNAL POLE SCHEDULE".
- CONTRACTOR SHALL PROVIDE CUSTOM FOUNDATION DESIGN FOR TRAFFIC SIGNAL POLES THAT EXCEED LIMITATIONS IN NOTE 2. THE FOUNDATION SHALL BE DESIGNED AND SEALED BY A QUALIFIED ENGINEER CURRENTLY LICENSED TO PRACTICE ENGINEERING IN IDAHO.
- 4. USE 2 HOOPS AT TOP FOR FOUNDATION TYPE "G" ONLY.
- 5. REINFORCEMENT STEEL IN FOUNDATIONS SHALL BE GRADE 60.
- ALL BASES SHALL BE INSPECTED & APPROVED BY THE CITY ENGINEER PRIOR TO CONCRETE PLACEMENT.
- 7. USE MANUFACTURER'S STANDARD FOR ANCHOR BOLT INSTALLATION.
- 8. TRAFFIC SIGNAL POLES SHALL HAVE A GROUND CONNECTED TO THE POWER SOURCE LOCATION ONLY. MULTIPLE GROUNDS ARE ONLY ALLOWED ON STREET LIGHT POLES.
- ALL CONDUITS, ELBOWS & COUPLINGS WITHIN & PROTRUDING FROM THE FOUNDATION SHALL BE RIGID STEEL. THE REMAINING CONDUITS SHALL BE AS SHOWN ON THE PLANS.
- 10. GRADUAL SWEEP ELBOWS ONLY, PLUMBERS ELBOWS NOT ALLOWED.

STANDARD DRAWING

IF-1109

Sheet 2 of 2

NO.

2021 REVISION

CITY OF IDAHO FALLS

	FOUNDATION SCHEDULE														
		CABINET ONLY													
CABINET TYPE	FOUNDATION TYPE	A	В	с	D	E	NO.	HOOF SIZE	'S Lin. ft.	VE NO.	RTICAL SIZE	. RODS LIN. FT.	CU. YDS. FOUNDATION	CONC. PAD	
	м	2'-9"	1'-8"	—	-	1'-0"	3	#4	24'0"	6	#4	13'0"	.5	.1	
SIGNAL	Р	3'-11"	2'-5"	$3' - 4\frac{3''}{4}$	$1' - 6\frac{1''}{2}$		3	#4	35'6"	6	#4	13'0"	.9	.1	

	FOUNDATION SCHEDULE (CONT.)																	
CABINET AND 1 SERVICE PEDESTALS CABINET AND 2 SERVICE PEDESTALS																		
HOOPS VERTICAL RODS CU. YDS. CONC.					HOOPS VERTICAL RODS CU. YDS. CONC.						ANCHOR BOLT							
NO.	SIZE	LIN. FT.	NO.	SIZE	LIN. FT.	FOUNDATION	PAD	NO.	SIZE	LIN. FT.	NO.	SIZE	LIN. FT.	FOUNDATION	PAD	QNTY.		SIZE
3	#4	38'6"	8	#4	17'4"	.8	.2	3	# 4	53'0"	10	# 4	21'8"	1.1	.3	2	1/2 >	(12"X 3"
3	#4	50'0"	8	#4	17'4"	1.4	.2	3	#4	64'6"	10	#4	21'8"	1.9	.3	4	3 >	(18"X 4"



FOUNDATION - DETAIL A

^{NO.} IF-1110

CITY OF IDAHO FALLS



BOX DETAIL











NOTES:

- (A) The above barricade shall be furnished and installed by the contractor where called for on the plans.
- (B) MARKINGS FOR BARRICADE RAILS SHALL BE RED AND WHITE STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45" IN THE DIRECTION TRAFFIC IS TO PASS).
- C WHERE BARRICADE EXTENDS ENTIRELY ACROSS ROADWAY, IT IS DESIRABLE THAT THE STRIPES SLOPE DOWNWARD IN THE DIRECTION WHICH TRAFFIC MUST TURN IN DETOURING. WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED FOR, THE CHEVRON STRIPPING MAY SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE.
- D THE ENTIRE AREA OF RED AND WHITE STRIPES SHALL BE REFLECTORIZED SO AS TO BE VISIBLE UNDER NORMAL ATMOSPHERIC CONDITIONS FROM A MINIMUM DISTANCE OF 1,000 FEET WHEN ILLUMINATED BY THE LOW BEAMS OF STANDARD AUTOMOBILE HEADLIGHTS.
- (E) FREE STANDING BARRICADES SHALL BE BUILT SIMILAR, BUT 4"x4" POSTS SHALL BE 5'−0" LONG AND SHALL HAVE 2" x 6" x 4'−0" LONG SUPPORTS SET 90" TO AND CENTERED ON POST FOR SUPPORT AND ATTACHED WITH 2−1/2"x7" BOLTS WITH WASHERS AND NUTS.

TYPE III BARRICADE

DEAD END

NO. IF-1132A

- (F) ALL SURFACES SHALL BE PAINTED WITH MINIMUM TWO COATS OF WHITE OIL BASE PAINT. ALL PAINTS SHALL BE REFLECTORIZED.
- (G) MARKINGS FOR TEMPORARY BARRICADE RAILS SHALL BE ORANGE AND WHITE STRIPES. SHALL BE REFLECTORIZED SO AS TO BE VISIBLE UNDER NORMAL ATMOSPHERIC CONDITIONS FROM A MINIMUM DISTANCE OF 1,000 FEET WHEN ILLUMINATED BY THE LOW BEAMS OF STANDARD AUTOMOBILE HEADLIGHTS.

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CITY OF IDAHO FALLS





- (A) THE ABOVE BARRICADE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR WHERE CALLED FOR ON THE PLANS.
- (B) MARKINGS FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45" IN THE DIRECTION TRAFFIC IS TO PASS).
- C WHERE BARRICADE EXTENDS ENTIRELY ACROSS ROADWAY, IT IS DESIRABLE THAT THE STRIPES SLOPE DOWNWARD IN THE DIRECTION WHICH TRAFFIC MUST TURN IN DETOURING. WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED FOR, THE CHEVRON STRIPPING MAY SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE.
- (D) THE ENTIRE AREA OF RED AND WHITE STRIPES SHALL BE REFLECTORIZED SO AS TO BE VISIBLE UNDER NORMAL ATMOSPHERIC CONDITIONS FROM A MINIMUM DISTANCE OF 1,000 FEET WHEN ILLUMINATED BY THE LOW BEAMS OF STANDARD AUTOMOBILE HEADLIGHTS.
- (E) FREE STANDING BARRICADES SHALL BE BUILT SIMILAR, BUT 4"x4" POSTS SHALL BE 5'-0" LONG AND SHALL HAVE 2" x 6" x 4'-0" LONG SUPPORTS SET 90' TO AND CENTERED ON POST FOR SUPPORT AND ATTACHED WITH 2-1/2"x7" BOLTS WITH WASHERS AND NUTS.
- (F) ALL SURFACES SHALL BE PAINTED WITH MINIMUM TWO COATS OF WHITE OIL BASE PAINT. ALL PAINTS SHALL BE REFLECTORIZED..

2018 REVISION

TYPE III BARRICADE SIDE OF ROADWAY

standard drawing No. IF-1132C

CITY OF IDAHO FALLS

CITY OF IDAHO FALLS

SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

DIVISION 2000 – Miscellaneous

CITY OF IDAHO FALLS SUPPLEMENTAL SPECIFICATIONS TO THE ISPWC

Division 2000 – Miscellaneous

Section 2020 – Survey Monuments Part 2.1 General

Delete items A, B, F and insert new Item A, B, F:

- A. Monuments to be of the quality, material, and dimensions shown on the Standard Drawing IF-2020A Standard Survey Monument Installation, the Contract Documents, and the Special Provisions.
- B. Cast Iron frames and covers over existing monuments to be of the quality, material, and dimensions shown on the Standard Drawing IF-2020B Valve Box for Existing Control Monuments, the Contract Documents and Special Provisions.
- F. Monuments per Section 50-1303 and or 54-1227 of the Idaho Code.

Delete Item G.

Section 2020 – Survey Monuments Part 3.1 Reference Points

Add new item D:

D. All other monuments to be approved in writing by City Surveyor.

Section 2020 – Survey Monuments Part 3 Workmanship

Delete Parts 3.2, 3.3.

Section 2020 – Survey Monuments Part 3.4 Standard Rebar Monument

Add new Item A:

A. Install per Idaho Code and Drawing IF-2020A.

Section 2020 – Survey Monuments Part 4.1 Measurement and Payment

Delete A and B.

Section 2030 — Utility Adjustments, Part 2 Materials

Insert new Item 2.1.B:

B. Grout: flowable fill per section 703.2.4.

Section 2030 — Utility Adjustments, Part 3.1 Manholes, Storm Drains, and Valve Boxes

Delete Item F and **insert** new Item F:

F. Adjust manholes, storm drains, and valve boxes to final grade and place asphalt collar after paving is completed and before chip sealing. Manhole asphalt collar in conformance with IF-2030B. Valve box asphalt collar in conformance with IF-404A.

Section 2030 — Utility Adjustments, Part 3 Workmanship

Add new Part 3.5:

- 3.5. LOWER MANHOLE AND VALVE BOXES
 - A. Ahead of milling lower all conflicting manholes such that the manholes are below the milling depth. Schedule the lowering of the manholes in a manner that minimizes the time between the lowering and milling operations.
 - B. Ahead of milling lower all conflicting valve boxes such that the valve boxes are below the milling depth. Schedule the lowering of the valve boxes in a manner that minimizes the time between the lowering and milling operations.

Section 2030 — Utility Adjustments, Part 4 Measurement and Payment

Insert new Items E, F and G:

- E. Lower Manhole: Measured by each manhole adjusted prior to milling operations.
 - 1. Bid Schedule Payment Reference: 2030.4.1.E.1.
 - 2. Bid Schedule Description: Lower Manhole...each (EA).
- F. Lower Valve Box: Measured by each valve box adjusted prior to milling operations.
 - 3. Bid Schedule Payment Reference: 2030.4.1.F.1.
- 4. Bid Schedule Description: Lower Valve Box...each (EA).
- G. Grout Pipe Size____: By the linear foot for type and size of pipe measured along the horizontal centerline of the pipe. Work includes all labor, material and equipment required to grout pipe.
 - 1. Bid Schedule Payment Reference: 2030.4.1.G.1.
 - 2. Bid Schedule Description: Grout Pipe Size _____...linear foot (LF).

Section 2040 – Fencing 2.1.C Chain Link Fabric

Delete Item 1 and insert new Item 1, 2 and 3:

- Chain link fabric to be a 2-inch diamond mesh woven from coated wire minimum 9 gauge.
- 2. Fabric to have one selvage edge knuckled and one edge twisted and barbed. Fabric ASTM A 392, Class I.
- 3. Fence material to be heavily hot dip galvanized after fabrication and meet requirements and be in conformance with AASHTO M 181 and ASTM A 153.

Section 2040 – Fencing 2.3 Posts

Delete Item C and **insert** new Item C:

C. Zinc-coated steel. See Standard Drawing IF-2040I.

Section 2040 – Fencing Section 3.2 Construction Requirements

Add new Item M, and N:

- M. Remove and Reset Fence
 - 1. Remove existing fence and reinstall the fence in its proposed location once all work has been completed that would allow the fence to be reset. Use all necessary care during fence removal to ensure that it can be reset at the location shown in the plans. After the required contract work is complete in the vicinity of the fence location, replace and restore the fence to its original condition using either existing materials or other new or used materials of equal type and condition of the original fence.
 - 2. During the interval between removal and resetting the fence, provide sufficient temporary fencing as necessary.

Section 2040 – Fencing 4.1 Measurement and Payment

Add new Item D:

- D. Remove and Reset Fence, Type____: per linear foot measured along the horizontal centerline of the fence through all braces and gates. Include full compensation for materials, labor and equipment necessary for completing the work and all appurtenances not itemized on the Bid Schedule.
 - 1. Bid Schedule Payment Reference: 2040.4.1.D.1.
 - 2. Bid Schedule Description: Remove & Reset Fence, Type _____...linear foot (LF).

Division 2000 – Miscellaneous

Add new Section 2052 Sprinkler System

SECTION 2052 — SPRINKLER SYSTEM

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Sprinkler system materials and installation.
 - 1.2 RELATED SECTIONS
 - A. Section 901 Pressure Irrigation Pipe and Fittings.
 - 1.3 SUBMITTALS
 - A. Submit drawings for materials to be installed or furnished under this section.
 - B. Submit manufacturer's certification that pipe, valves, sprinkler and appurtenances meet or exceed specified requirements.
 - C. Submit manufacturer's installation instructions and maintain copy at the jobsite.

1.4 PROJECT RECORD DOCUMENTS

A. Accurately record actual locations of constructed sprinkler system including but not limited to sprinklers, valves, valves boxes, irrigation zones.

- B. Provide copy of record documents to Owner prior to issuance of substantial completion.
- 1.5 DELIVERY, STORAGE, AND HANDLING
 - A. Handle and store pipe, fittings, valves and appurtenances in a manner which prevents shock, damage, or detrimental exposure to weather.

PART 2 MATERIALS

- 2.1 PIPE
 - A. Material as shown on IF-2052.
 - B. Do not use damaged or kinked pipe.
- 2.2 CONNECTIONS FOR POLYETHYLENE PIPE
 - A. Barbed insert fittings and stainless steel clamps as shown on drawings.
- 2.3 WIRING
 - A. 18 gauge braided for lengths up to 1000 feet.
 - B. 14 gauge single strand for lengths greater than 1000 feet.
- 2.5 SPRINKLER HEADS
 - A. See parts list on Standard Drawing IF-2052.
- PART 3 WORKMANSHIP
 - 3.1 SPRINKLER SYSTEM INSTALLATION
 - A. All design and work performed to be done by a licensed firm specializing in sprinkler systems. All materials used in the sprinkler system to be available in Idaho Falls for future maintenance. Verify all material sources with Engineer prior to bidding. Failure to do so will not relieve the Contractor from responsibility for furnishing and installing all materials in strict accordance with these requirements at the locations as shown on the plans or as directed by Engineer.
 - B. File for a Sprinkler Permit for the installation of sprinkler systems. Perform all work in accordance with these specifications, current

rules, regulations, and other applicable State or local laws. Provide and install a backflow device in accordance with the requirements of the City Building Division.

- C. Design system to have adequate coverage. Adjust system as necessary to provide coverage, avoid existing fixed obstructions and minimize elevation changes in any lateral line.
- D. Install the system water supply in accordance with IF-2052. Changes require prior written approval from Engineer.
- E. Prepare accurate to scale "As-Built" drawings as installation proceeds and submit drawings in electronic form prior to final inspection. Final payment for sprinkler system will not be authorized until all drawings are complete, submitted and accepted by Engineer.
- F. During construction and storage, protect all materials from damage and prolonged exposure to sunlight. Replace or fix all damaged materials prior to final acceptance.
- G. Install controller, conduit, wiring and electric valves per the plans, Manufactures recommendations and City Building Division requirements. Install electrical valves at the highest locations to prevent damage and allow access during periods of flooding. Place electrical valves in a plastic valve box with reinforced heavyduty lock top or snap top plastic lids. Place valve 6 inches below the top of valve box. Place single valves in a round valve box minimum 10-inch diameter. Multiple valves may be installed in a single properly sized valve box, provided the valves are installed with sufficient clearance to allow removal without damage or removal of the box, other valves or lines. Set valve boxes to finish grade in landscape areas. Valve boxes must be notched to give a 2-inch minimum clearance from the main or lateral lines.

Irrigation	System	Definitions
ningution	System	Deminicions

Service Line	Line from City water main to backflow device.			
Main Line	Line or lines from the backflow device to the			
	electric valves.			
Lateral Line	The lines from the electric valve to the last			
	sprinkler head.			

- H. Install main lines at a depth of 12 to 14 inches below finish grade.
 Install lateral lines at depth of 8 to 12 inches below finished grade.
 Install lateral lines using a sleeve when crossing asphalt or concrete. Do not cut continuous lateral lines for the installation of sprinklers.
- I. Install service line, including 2 inch Type K Copper from supply point to the point, as depicted in drawing IF-2052. Install a 2 inch

tee, with approved quick connect coupler at finish grade, between curb stop and the backflow device. Install backflow device in accordance with the City Building Division requirements. Install 2 inch galvanized pipe from backflow device between 12 to 14 inches below ground. Change from galvanized to plastic as shown in the Standard Drawings, any size reduction to occur at the same location. Use proper adapters for connecting dissimilar types of pipe.

- J. Adjust sprinkler heads in the lawn areas to proper grade when sod is sufficiently established to allow walking on it without appreciable damage. Adjust sprinkler heads for proper distribution and trim.
- K. When entire sprinkler system is completed and inspections and approvals by the City Building Division have been completed, submit copies of the approvals and request acceptance by Engineer. Where sprinkler system work does not comply repair and/or replace all material and perform all work then resubmit for approval by Building Division and acceptance by Engineer.

3.2 SPRINKLER SYSTEM REPAIR

- A. Remove sprinkler system where necessary to complete the required work.
- B. Remove and replace all sprinkler systems that are damaged as a result of construction.
- C. Upon completion of work restore sprinkler system as near to the original location as possible, or as necessary to provide coverage, and to the original condition using either existing materials or other new or used materials of equal type and condition as directed by Engineer. Restore system to equal or better in all respects and condition to the original sprinkler system.
- D. Prior to installation and/or removing existing sprinkler systems meet with affected property owner to discuss the extent of the work. Discuss the reinstallation of the sprinkler system, and jointly ascertain and agree upon the existing condition of any adjacent and surrounding objects, features, and facilities that may be affected by sprinkler system removal and installation.
- E. Repair all damage that may occur to any adjacent or surrounding objects, features or facilities. Preserve, protect, restore and/or replace such facilities so that after completion of the project all such facilities are in a condition as good as, or better than, their original condition.

PART 4 MEASUREMENT AND PAYMENT

- 4.1 Sprinkler System to be measured on a lump sum basis complete, in place, and fully operational as stated in these Specifications. Payment includes full compensation for all labor, materials, equipment and tools necessary to furnish, install, test and make ready for service the sprinkler system complete and in place as shown on the Standard Drawings, Plans, and as directed by the Engineer.
 - A. Sprinkler System: On a lump sum basis for construction of a fully operational sprinkler system.
 - 1. Bid Schedule Payment Reference: 2052.4.1.A.1.
 - 2. Bid Schedule Description: Sprinkler System...lump sum (LS).
 - B. Repair Sprinkler System: On a lump sum basis for repair/reconstruction of existing sprinkler system to be fully operational per plans and directions of Engineer.
 - 1. Bid Schedule Payment Reference: 2052.4.1.B.1.
 - 2. Bid Schedule Description: Repair Sprinkler System...lump sum (LS).
 - C. Repair Sprinkler System: On a linear foot basis for repair/reconstruction of existing sprinkler system to be fully operational per plans and directions of Engineer.
 - 1. Bid Schedule Payment Reference: 2052.4.1.C.1.
 - 2. Bid Schedule Description: Repair Sprinkler System...linear foot (LF).

Add new Section 2053 Sod

SECTION 2053 — SOD

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Furnishing and placing sod.
 - 1.2 DELIVERY, STORAGE, AND HANDLING
 - A. Furnish all labor, equipment, tools and materials necessary to install sod as shown on the plans and directed by Engineer.

PART 2 MATERIALS

- 2.1 SOD
 - A. Merion, Park, Delta, or Windsor Kentucky Bluegrass, or combinations of approved fine textured grasses suitable for the area designated for sod and free of weeds.
 - B. True to type and name in accordance with the Standard Plant Names, current edition, by the Editorial Committee of the American Joint Committee on Horticultural Nomenclature.
 - C. Not less than ten months old, with prior approval at the supply source before cutting for delivery to the planting site. Sod showing evidence of improper handling or discoloration due to prolonged storage prior to delivery will be rejected.

2.2 FERTILIZER

- A. Of neutral character, with some elements derived from organic sources and containing a percentage of nitrogen required to provide 3/4 to 1 pound of actual nitrogen per 1,000 square feet of lawn area and not more than 4% phosphorus.
- B. Nitrogen in a form that will be available to lawn during initial period of growth; at least 50% nitrogen to be organic form.

PART 3 WORKMANSHIP

- 3.1 PLACEMENT
 - A. Fine grade and roll topsoil (minimum topsoil depth of 4 inches) to provide a fine textured, smooth and firm surface, free of weeds, footprints, undulations or irregularities. Finished grade of the sod bed to be 1 - 1 ¼ inches below the finished grade of the adjacent curbs and/or sidewalks to permit the placing of the sod to final grade. Additional topsoil may be required to establish this finished grade requirement.
 - B. Cut individual sod pieces in a uniform size with square corners at a uniform depth of one to one and one-quarter (1 -1 ¼) inches. Lay the first row of sod in a straight line and subsequent rows placed parallel to and tightly against each other. Stagger lateral joints. Ensure that the sod is not stretched or overlapped, and that all joints are butted tightly. After placing sod, roll the lawn diagonally and water heavily.
 - C. Establishment period for the sod lawn consists of: (1) protecting the sodded areas from trespass and other damages; (2) promoting

the growth of the grass sod; (3) mowing; (4) removing clippings, weeds, litter and debris; and (5) reconditioning and/or replacing any sod which for any reason fails to show a healthy growth of the grass sod.

- D. Water sodded areas at such times and with such frequency as is in accordance with good horticultural practices under the prevailing conditions.
- E. Mow the grass when it has attained a height between three and one-half and four and one-quarter (3-½ and 4-1/4) inches, and when the ground is sufficiently firm to prevent rutting. Mow the grass to a height of three (3) inches. Repeat as necessary to not remove more than one-third (1/3) of overall grass height in a single cutting and not cut less than three (3) inches in grass height.
- F. Do not allow the clippings to smother or retard grass growth. Weed and remove noxious vegetation individually or using a blanket treatment in accordance with accepted lawn care practices to achieve the appearance of a healthy and well cared for lawn of uniform color, texture and condition, free of weeds.

PART 4 MEASUREMENT AND PAYMENT

- 4.1 Sod to be measured on a square yard (SY) basis complete in place. Payment includes full compensation for all labor, materials (including topsoil), equipment and tools necessary to furnish and install sod as shown on the Standard Drawings, Plans, and as directed by the Engineer.
 - A. Sod: On a square yard basis for the placement of sod.
 - 1. Bid Schedule Payment Reference: 2053.4.1.A.1.
 - 2. Bid Schedule Description: Sod... square yard (SY).

Add new Section 2054 Structural Soil

SECTION 2054 — STRUCTURAL SOIL

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Structural Soil materials and placement.
 - 1.2 DELIVERY, STORAGE, AND HANDLING

- A. Furnish all labor, equipment, tools and materials necessary to furnish and install structural soil as shown on the plans and directed by Engineer.
- PART 2 MATERIALS
 - 2.1 STRUCTURAL SOIL
 - A. CU-Structural Soil[®] or approved equal.
- PART 3 WORKMANSHIP
 - 3.1 PLACEMENT
 - Dimensions as shown on the Plans or as directed by Engineer.
 Minimum depth 36 inches unless otherwise approved by Engineer.

PART 4 MEASUREMENT AND PAYMENT

- 4.1 Structural soil to be measured on a cubic yard (CY) basis complete in place. Payment includes full compensation for all labor, materials, equipment and tools necessary to furnish, haul, and place structural soil as shown on the Plans, and as directed by the Engineer.
 - A. Structural Soil: On a cubic yard basis for the placement of structural soil.
 - 1. Bid Schedule Payment Reference: 2054.4.1.A.1.
 - 2. Bid Schedule Description: Structural Soil... cubic yard (CY).

Add new Section 2055 Decorative Rock

SECTION 2055 — DECORATIVE ROCK

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Decorative Rock supply and placement.
 - 1.2 DELIVERY, STORAGE, AND HANDLING
 - A. Stockpile aggregate in an approved location.

B. Stockpile, load, haul and place material in a manner which minimizes segregation and degradation.

PART 2 MATERIALS

- 2.1 DESCRIPTION
 - A. Fractured or non-fractured decorative aggregate meeting the required material, size, gradation and test results as shown on the plans.

PART 3 WORKMANSHIP

- 3.1 PLACEMENT
 - A. Minimum 3" depth or as shown on the Plans.
- PART 4 MEASUREMENT AND PAYMENT
 - 4.1 Decorative rock measured on a cubic yard (CY) basis complete in place. Payment includes full compensation for all labor, materials, equipment and tools necessary to furnish, haul, and install decorative rock as shown on the Plans and as directed by the Engineer.
 - A. Decorative Rock: On a cubic yard basis for placement.
 - 1. Bid Schedule Payment Reference: 2055.4.1.A.1.
 - 2. Bid Schedule Description: Decorative Rock Type ____... cubic yard (CY).

Add new Section 2056 Trees/Shrubs

SECTION 2056 – TREES/SHRUBS

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Tree and shrub supplying, planting, and preparation.
 - 1.2 SUBMITTALS
 - A. Submit a list of trees and shrubs to be installed under this section. Include in the list name, variety, size, and quality.

B. Submit supplier's installation instructions and maintain copy at the jobsite.

1.4 PROJECT RECORD DOCUMENTS

- A. Record locations and name of installed trees and shrubs.
- B. Provide copy of record documents to Owner prior to issuance of substantial completion.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver after preparations for planting have been completed and plant immediately. If planting is delayed more than (6) hours after delivery, set on the ground in shade, protect from weather and mechanical damage, and keep roots moist by protecting them with soil, wet peat moss, wet sawdust, or wet ground bark. Do not remove container-grown stock from containers until planting time. Label with a securely attached waterproof tag bearing legible designation of botanical and common name.

PART 2 MATERIALS

2.1 TREES/SHRUBS

- A. Provide all materials to complete the installation as shown on the Plans or as directed by Engineer. Substitutions will not be accepted unless approved in writing by Engineer. If specialized landscape material is not obtainable, submit to Engineer proof of no availability and proposal for use of equivalent material.
- B. Use trees and shrubs grown in a recognized nursery in accordance with good horticultural practice. Provide healthy, vigorous stock grown under climatic conditions similar to conditions in the locality of the project and free of disease, insects, eggs, larvae, and defects such as knots, sunscald, injuries, abrasions, or disfigurement, with well-developed root systems.
- C. Do not prune prior to delivery. Do not bend or bind-tie trees in such a manner as to damage bark, break branches, or destroy natural shape. Provide protective covering during delivery.

2.1 PLANTING MULCH

Ground fir, spruce or hemlock, free from weed seeds, tannin, or other compounds detrimental to tree life. Mulch size range ¼" to 1", with a maximum of 50 percent passing a ½" screen.

PART 3 WORKMANSHIP

3.1 TREE/SHRUB PLANTING

- A. Provide good quality topsoil (or structural soil where specified) prior to the installation of the landscaping. Soil material to be approved prior to delivering to the job site. Install soil using a method to provide adequate compaction while providing a suitable planting medium. Exercise care to insure the proper support and protection for the sprinkler system.
- B. Stake tree/shrub locations and secure Engineer's acceptance prior to planting. Make minor adjustments as directed.
- C. Proceed with and complete tree planting work as rapidly as portions of the site become available, working within the seasonal limitations for the kind of tree planting required. Determine location of underground utilities and perform work in a manner that will avoid possible damage.
- D. Hand excavate, as required, to minimize possibility of damage to underground utilities. Excavate circular pits with vertical sides and with bottom of excavation slightly raised at center, to provide proper drainage, and loosen hard topsoil in bottom of excavations. Fill excavations for trees with water and allow water to percolate out before planting.
- E. For balled and bur lapped (B&B) tree/shrub, make excavations at least twice as wide as the ball diameter and equal to the ball depth, and loosen approximately four (4) to six (6) inches of the compacted topsoil below the bottom of the excavation.

3.2 TREE/SHRUB PLANTING

- Plant materials true to name and variety established by the American Joint Committee on Horticultural Nomenclature "Standardized Plant Names," latest edition. The trees to comply with the recommendations and requirements of ANSI Z60.1 "Standard for Nursery Stock" and as further specified. Trees/Shrubs to conform to state and federal laws relating to inspection for diseases and insect infestation, and to the American Standard for Nursery Stock. Trees to be first class representatives of the species or variety.
- Plant trees/shrubs of the sizes shown or specified in the Plans.
 Trees/Shrubs of larger size may be used if acceptable to the
 Engineer, and if sizes of roots or containers are increased
 proportionately. Use of such trees not to increase the contract

price. Use tree size with branching configuration recommended by ANSI Z60.1 for type and species required.

- C. Engineer reserves the right to inspect the trees/shrubs, either at a place of growth or at site before planting, for compliance with requirements for name, variety, size, and quality. Upon completion of the work and prior to the final acceptance, present to Engineer, for a final check as to conformance to these specifications, invoices or written statements from the suppliers showing the name(s) of materials received or shipped.
- D. Set B&B stock on layer of compacted topsoil soil mixture, plumb and in center of pit or trench with top of ball at same elevation as adjacent finished landscape grades. When set, place additional topsoil/structural soil around base and sides of ball, and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately two-thirds (2/3) full, apply water before installing remainder of backfill. Remove burlap from around base of tree approximately two-thirds (2/3) down the ball and open to sides of the ball.
- E. Set container grown stock as specified for B&B stock, except cut cans on two (2) sides with an approved can cutter and remove bottoms of wooden boxes after partial backfilling so as not to damage root balls
- F. Dish top of backfill to allow for mulching and provide additional backfill berm around edge of excavations to form shallow saucer to collect water. In tree/shrub planted areas, provide not less than a two (2) inch thickness of mulch over the backfill, and finish level with adjacent sod. Prune, thin out and shape trees in accordance with standard horticultural practice. Prune trees to retain required height and spread. Unless otherwise directed by Engineer, do not cut tree leaders and remove only injured or dead branches from flowering trees, if any. Remove and replace excessively pruned or malformed stock resulting from improper pruning.
- G. Paint cuts over one-half (1/2) inch in size with standard tree/shrub paint or compound, covering exposed, living tissue.
 Use paint that is waterproof, antiseptic, adhesive, elastic, and free of kerosene, coal tar, creosote, and other substances harmful to plants. Do not use shellac.
- H. Stake trees with two (2) wood stakes driven two (2) feet into the ground with the portion extending above the ground approximately one-half (1/2) of trunk height. Stake one (1) foot from the trunk, fastened at approximately two-fifths (2/5) of trunk height with wire run through rubber hose.

PART 4 MEASUREMENT AND PAYMENT

- 4.1 Trees/Shrubs to be measured on per each basis complete, in place as stated in these Specifications. Payment includes full compensation for all labor, materials, equipment and tools necessary to furnish and install trees complete and in place as shown on the Plans, and as directed by the Engineer.
 - A. Trees: Per each for the type and size of tree indicated on the bid schedule.
 - 1. Bid Schedule Payment Reference: 2056.4.1.A.1.
 - 2. Bid Schedule Description: Tree Type _____, Size _____, each (EA).
 - B. Shrubs: Per each for the type and size indicated on the bid schedule.
 - 1. Bid Schedule Payment Reference: 2056.4.1.B.1.
 - 2. Bid Schedule Description: Shrub Type _____, Sizeeach (EA).

Add new Section 2060 Asphalt Milling

SECTION 2060 - ASPHALT MILLING

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Asphalt milling used to construct cold milling, edge treatment, and end treatment as defined within this section.
 - 1.2 RELATED SECTIONS
 - A. Section 802 Crushed Aggregates
 - B. Section 803 Plant Mix Aggregates
- PART 3 WORKMANSHIP
 - 3.1 EQUIPMENT
 - A. Designed to mill bituminous pavements without the addition of heat and the ability to plane Portland cement concrete patches where required in the bituminous pavement.
 - B. Cutting drum to have a minimum of one-hundred twenty inches wide and equipped with carbide-tipped cutting teeth placed in a

variable lacing pattern to produce the desired finish.

- C. Operating speeds from 0 to 40 feet per minute.
- D. Self-propelled and have the capability of spraying water at the cutting drum to minimize dust.
- E. Capable of removing material next to the gutter of the pavement being reconditioned and be designed so that the operator can at all times observe the milling operation without leaving the controls.
- F. Capable of adjusting for slope and depth. Maximum milling depth of 3 inches in one pass without producing fumes or smoke.
- G. Capable of discharging milled material to the front of the machine.

3.2 COLD MILLING

- A. Mill asphalt concrete pavement as dimensioned and as otherwise designated on the plans or as directed by Engineer.
- B. Cold milling to remove the designated variable depths of asphalt concrete to provide an overlay key at joints and over the width of the cold milled area.
- C. Additional widths of cold milling may be required at various locations as determined by Engineer.
- D. Surface of pavement to be uniformly rough grooved or ridged as directed by Engineer.
- E. Ramp all structures and vertical joints in the cold milled area which are transverse to through traffic and greater than 1-1/2 inches in height. Ramp to be temporary asphalt concrete pavement.
- F. Place ramps the same day as the cold milling and remove ramps the same day as permanent paving.
- G. Erect appropriate signage delineating the hazard to the traveling public.
- H. Maximum longitudinal and transverse variance allowed for the finished milling of ¼ inch in depth per 10 feet measured transversely or longitudinally. Correct all areas exceeding this maximum variance prior to paving, at no additional cost to the City.
- I. Minimum 50:1 (horizontal: vertical) slope for ramp.
- J. See Standard Drawing IF-2060.

3.3 EDGE TREATMENT

A. Edge mill as shown in the Plans, as specified, and as directed by Engineer.

- B. Depth to be per Plans, Special Provisions or as directed by Engineer.
- C. Maximum longitudinal variance allowed for the finished milling of ¼ inch in depth per 10 feet measured longitudinally.
- D. See Standard Drawing IF-2060.
- 3.4 END TREATMENT
 - A. As shown in the Plans, as specified and as directed by Engineer.
 - B. See Standard Drawing IF-2060.
- 3.5 MILL TAILINGS
 - A. Haul mill tailings to the City's yard located at 2530 Hemmert Avenue (or to other location if specified in Plans or Special Provisions) and stockpile at a location designated by Engineer. Mill tailings become the property of the City. The Contractor will not be required to supply a loader to pile the material. End-dump the material in the location designated in an orderly fashion.
 - B. No separate payment will be made for hauling the material. All costs associated with this work shall be considered incidental to existing milling pay items designated for the project.

PART 4 MEASUREMENT AND PAYMENT

- 4.1 Milling to include all tools, labor, materials, hauling of mill tailings, and equipment necessary to conduct milling as shown in the Plans, as directed by Engineer, and as specified.
 - A. Cold Milling: By the square yard.
 - 1. Bid Schedule Payment Reference: 2060.4.1.A.1.
 - 2. Bid Schedule Description: Cold Milling...square yard (SY).
 - B. Edge Treatment: By the linear foot.
 - 1. Bid Schedule Payment Reference: 2060.4.1.B.1.
 - 2. Bid Schedule Description: Edge Treatment...linear foot (LF).
 - C. End Treatment: By the linear foot.
 - 1. Bid Schedule Payment Reference: 2060.4.1.C.1.
 - 2. Bid Schedule Description: End Treatment...linear foot (LF).

Add new Section 2070 Modular Block Retaining Wall Units

SECTION 2070 — MODULAR BLOCK RETAINING WALL UNITS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Modular block supply and placement.
- 1.2 RELATED SECTIONS
 - A. 2050 Construction Geotextiles
 - B. 204 Structural Excavation and Compacting Backfill
- 1.3 REFERENCES
 - A. ASTM C-90 and ASTM C-140
- 1.4 SUBMITALLS
 - A. Submit product data for materials to be installed under this section.
 - B. Submit manufacture's certification that block meets or exceed specified requirements.
 - C. Submit manufacturer's installation instructions and maintain copy at the jobsite.
- 1.5 DELIVERY, STORAGE AND HANDLING
 - A. Handle and store block per manufacturer's recommendations and in manner which prevents damage.

PART 2 MATERIALS

- 2.1 MODULAR BLOCK
 - A. Grey in color or custom color as specified in the Plans, Special Provision, or as directed by the Engineer.
 - B. Sculptured Rock finish or as specified in the Plans, Special Provisions or as directed by the Engineer.
 - C. Surfaces to be free of chips, cracks or other imperfections.
 - D. Each block and geogrid layer to interlock to block layer below.
- 2.2 TOLERANCES
 - A. Block to have a compressive strength of not less than three thousand (3000) pounds per square inch.

- B. Absorption eight (8) percent maximum for standard weight aggregate.
- C. Inter-unit shear strength four hundred (400) pounds per lineal foot minimum at two (2) pounds per square inch normal force.
- D. Geogrid unit peak connection strength six hundred (600) pounds per lineal foot minimum at two (2) pounds per square inch normal force.
- E. Maximum horizontal gap between erected units one-half (1/2) inch.

PART 3 WORKMANSHIP

- 3.1 EXAMINATION
 - A. Verify that site conditions are ready to receive work and field measurements are as shown on drawings.
 - B. Beginning of installation means installer accepts existing conditions.

3.2 INSTALLATION

- A. Install block without damage to structural capacity, shape, or finish. Replace damaged block.
- B. Align and maintain uniform horizontal and vertical joints as block is installed.
- C. Maintain temporary bracing in place until final support is provided, Protect block from staining.

3.3 INSTALLATION TOLERANCES

- A. Install block level and plumb within tolerances.
- B. Maximum horizontal gap between erected units one-half (1/2) inch.
- C. Install the slope of the vertical wall face per the Standard Drawings or as suggested by the manufacturer.
- D. Modular block may be placed in a convex or concave alignment curve with a minimum radius of four (4) feet, not to exceed manufacturer's tolerances.

PART 4 MEASUREMENT AND PAYMENT

4.1 Payment includes full compensation for all labor, materials, equipment and tools necessary to furnish, haul, and install modular block as shown on the Plans and as directed by the Engineer.

- A. Modular Block: On a square foot (SF) basis of exposed wall face, complete in place.
 - 1. Bid Schedule Payment Reference: 2070.4.1.A.1.
 - 2. Bid Schedule Description: Modular Block... square foot (SF).
- B. Modular Block: On a linear foot (LF) basis, complete in place.
 - 1. Bid Schedule Payment Reference: 2070.4.1.B.1.
 - 2. Bid Schedule Description: Modular Block... linear foot (LF).

Add new Section 2080 Handrail

SECTION 2080 — HANDRAIL

- PART 1 GENERAL
 - 1.1 SECTION INCLUDES
 - A. Handrail supply and placement.
 - 1.2 REFERENCES
 - A. ASTM B 429 Aluminum pipe and tubing
 - B. ASTM B 209 Aluminum plates and sheets
 - C. ASTM B 221 Aluminum rods, bars or shapes
 - D. ASTM A 120 Steel railing materials welded or seamless
 - E. ASTM A 365 Structural Steel
 - F. ASTM 501 Tubular section of hot rolled mild steel
 - G. American Welding Society Structural Welding Code AWS D1.1.
 - 1.3 SUBMITALLS
 - A. Submit product data for materials to be installed under this section.
 - B. Submit shop drawings and /or product data for materials to be installed or furnished under this section.

PART 2 MATERIALS

- 2.1 HANDRAIL
 - A. Aluminum conforming to the requirements of the Aluminum Association Standards.
 - B. Aluminum rails and vertical support posts one and one-half inch

diameter.

- C. Aluminum balusters three-quarter inch diameter.
- D. Steel welded or seamless steel pipe conforming to the requirements of ASTM A 120.
- E. Structural steel conforming to ASTM A 365.
- F. Steel tubular sections of hot rolled mild steel conforming to ASTM A 501.
- G. Steel rails and vertical support posts one and one-half inch diameter.
- H. Steel balusters three quarter inch diameter.

PART 3 WORKMANSHIP

- 3.1 EXAMINATION
 - A. Rails, posts and balusters machine cut to provide a uniform length prior to assembly.
- 3.2 INSTALLATION
 - A. Install rails in accordance with the details shown on the plans and Standard Drawing IF-2080.
 - B. Steel handrails Field welds galvanized with such materials as "Galvalloy" or "Galvicon".

PART 4 MEASUREMENT AND PAYMENT

- 4.1 Handrail measured on a linear foot (LF) basis complete in place. Payment includes full compensation for all labor, materials, equipment and tools necessary to furnish, haul, and install handrail as shown on the Plans and as directed by the Engineer.
 - A. Handrail: On a linear foot basis.
 - 1. Bid Schedule Payment Reference: 2080.4.1.A.1.
 - 2. Bid Schedule Description: Handrail... linear foot (LF).

Division 2000 – Miscellaneous – Standard Drawings

Delete the following Standard Drawings:

Delete SD-2020A Delete SD-2020B Delete SD-2020C Delete SD-2020D Delete SD-2020E Delete SD-2020I

Add the following Idaho Falls Standard Drawings:

Add IF-2020A Add IF-2020B Add IF-2030B Add IF-2030C Add IF-2040I (4 sheets) Add IF-2052 (5 sheets) Add IF-2060 (3 sheets) Add IF-2070 Add IF-2080 (2 sheets)















GATE INFORMATION:

- 1. ALL GATES TO BE FURNISHED WITH SUITABLE LENGTH OF DOUBLE 0, ZINC COATED, PASSING LINK CHAIN AND LOCK.
- 2. CHAIN TO BE FASTENED SECURELY TO UNHINGED GATE POST AT POSITIONS TO BE DETERMINED BY THE CITY ENGINEER.
- 3. MASTER KEYS WILL BE FURNISHED FOR ALL LOCKS.
- CHAIN AND LOCK MENTIONED ABOVE TO BE USED ALONG WITH REGULAR TYPE GATE CATCH FOR LOCKING DEVICE.
- 5. ALL GATES ARE TO BE FURNISHED ACCORDING TO THE PLANS OR AN APPROVED EQUAL AS DETERMINED BY THE CITY ENGINEER.
- 6. ALL GATES ARE TO BE INDUSTRIAL 9-GAUGE, OR APPROVED EQUAL.
- 7. THE GATES SHALL BE HUNG ON GATE FITTINGS AS SHOWN OR AS APPROVED ON THE SHOP DRAWINGS OF THE GATES.
- 8. HINGES TO BE INDUSTRIAL TYPE, OR APPROVED EQUAL.
- 9. ALL CONCRETE USED FOR POSTS SHALL BE CITY'S CLASS 4 AND THE QUANTITY SHALL BE INCLUDED IN THE OTHER FENCE ITEMS.
- 10. VEHICULAR GATE POSTS SHALL BE 4" Ø, PEDESTRIAN GATE POST SHALL BE 2 7/8" Ø. BOTH SHALL BE SCHEDULE 40 AND SHALL HAVE AN 18" Ø X 3'6" CONCRETE FOOTING IN CONJUNCTION WITH TERMINAL POST FOR BOTH 8'-0" AND 6'-0" FENCE HEIGHTS.
- 11. GATE OPENING SHALL BE A MINIMUM OF 3'-0" IN WIDTH WITH GATE AT A 90° ANGLE FROM FENCE, OPENING IS THE CLEAR SPACE BETWEEN LATCHING MECHANISM AND DOOR AT A 90° ANGLE TO FENCE.

GENERAL NOTES:

- 1. CORNER AND TERMINAL POSTS TO BE SCHEDULE 40.
- 2. LINE POST TO BE SCHEDULE 40.
- 3. ALL FENCING, POSTS, GATES, INSTALLATION WORK, ETC., SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISIONS OR AS DETERMINED BY THE CITY ENGINEER.
- 4. CONCRETE FOR POSTS SHALL BE THOROUGHLY COMPACTED AROUND POST BY TAMPING OR VIBRATING AND SHALL HAVE A SMOOTH FINISH, SLIGHTLY HIGHER THAN THE GROUND, SLOPED TO DRAIN <u>AWAY</u> FROM THE POST.
- 5. INSTALL ALL FENCING WITH "BARBED" ENDS ALONG TOP OF FENCE, UNLESS OTHERWISE NOTED.

City of Idaho Falls Chain Link Fence Posts & Footing Requirements						
Fence Height	Fence Type (9 Gauge Chain Link)	Line Posts & Terminal Post Size (Outside Dia.)	Post Spacing	Conc. Ftg. (Dia. x Depth)		
8 Ft.	With Vinyl Privacy Slats	3 1/2" ø Schedule 40	8'-0" 0.C.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
		2 7/8" ø Schedule 40	5'-0" 0.C.	12" ø x 4'-6" 16" ø x 3'-0"		
8 Ft.	Without Vinyl Privacy Slats	2 3/8" ø Schedule 40	10'-0" 0.C.	12" ø x 3'-0"		
6 Ft.	With Vinyl Privacy Slats	2 7/8" ø Schedule 40	10'-0" 0.C.	12" ø x 4'-6" 16" ø x 3'-6"		
		2 3/8" ø Schedule 40	5'–0" 0.C.	12" ø x 3'-6"		
	Without					

CHART

CHAIN LINK FENCE GROUNDING TABLE						
FENCE DIST. FROM TRANSMISSION LINE	kV	GROUNDING INTERVAL				
0' – 100'	500	200'				
100' – 200'	500	500'				
0' – 100'	345	400'				
100' – 150'	345	1000'				
50' – 100'	230	500'				

2 3/8" ø

Schedule 40

10'-0" 0.C.

STANDARD DRAWING

IF-2040

NO.

12" ø x 3'-0"

Vinyl

Slats

Privacy

6 Ft.

CHAIN LINK FENCE GATE

INFO., NOTES & CHART

2021 REVISION

CITY OF IDAHO FALLS





CITY OF IDAHO FALLS

SPRINKLER SYSTEM







CITY OF IDAHO FALLS

SPRINKLER SYSTEM







SPRINKLER SYSTEM PARTS LIST

- PIPE POLYETHYLENE -
- •• MAIN LINES AND LATERALS - EAGLE OR CENTENNIAL
- LATERALS 1-1/2" OR SMALLER
- SCHEDULE 40 PVC MAIN LINES ONLY ••
- POLYETHYLENE SWING PIPE (FUNNY •• PIPE)
- VALVES (APPROPRIATE SIZE)
- HUNTER ICV GLOBE •• •• IRRITROL 700 SERIES ULTRA FLOW
- FLOW SENSOR BODY HUNTER FCT
- (APPROPRIATE SIZE)
- SADDLES (APPROPRIATE SIZE)
- •• BRASS PLASTIC ..
- SPRAYS
- HUNTER INSTITUTIONAL SPRAY -
- HUNTER INST-04 TORO 570Z-4P-PRX ••
- ••
- SPRINKLERS
- ROTORS HUNTER I-20 ULTRA
- HUNTER I-20 ADV •• HUNTER I-20 36V
- CONTROL WIRE 18 GAUGE BRAIDED (1000 FT. OR LESS) •• •• 14 GAUGE SINGLE STRAND (OVER 1000 FT.)
- PEDESTAL HUNTER ACC-PED
- COMMUNICATION MODULES
- HUNTER ACC-COM-HWR
- DATA RADIO MODEL #RAD3 (RADIO MUST BE PROGRAMMED WITH CITY •• FREQUENCY (458.3000)

SPRINKLER SYSTEM PARTS LIST (UP TO 2")

- MAIN VALVE HOOK-UP BALL VALVES (STOP ONLY-APPROPRIATE SIZE)
- BACK FLOW DEVICE CITY APPROVED DEVICE
- PVB OR RPZ FOR LARGER PIPE INSTALLATIONS (APPROPRIATE SIZE)
- CONTROLLER HUNTER ACC-1200 OR . ACC-99D CONTROLLER FOR USE WITH DECODER SYSTEMS

SPRINKLER SYSTEM PARTS LIST (4'

- MAIN VALVE HOOK-UP 4" GATE VALVE
- BACK FLOW DEVICE CITY APPROVED DEVICE
- CONTROLLER HUNTER ACC-1200 OR ACC-99D FOR DECODER SYSTEM (WITH DECODER WIRE)

2021 REVISION

- NOTE:
- SYSTEM ELECTRIC VALVES 1. HUNTER ICV GLOBE VALVE TO 2" OR IRRITROL 700 SERIES ULTRA FLOW VALVE TO 2".
- SENSOR BODY HUNTER FCT SCHEDULE 40 (TEE) 2. SHALL BE INSTALLED DOWNSTREAM FROM MASTER VALVE A DISTANCE 10 TIMES THE DIAMETER OF THE PIPE USED. THE NEXT FITTING (BEND, ELBOW OR TEE) DOWNSTREAM SHALL BE A DISTANCE 5 TIMES THE DIAMETER OF THE PIPE USED. FLOW SENSOR INSIDE TEE SHALL BE HUNTER FLOW SENSOR. NO SUBSTITUTES SHALL BE ALLOWED.
- 3. PRIOR TO INSTALLATION OF SPRINKLER HEADS, OPEN ELECTRIC CONTROL VALVES AND USE FULL HEAD OF WATER TO FLUSH OUT SYSTEM.
- 4. SEPARATE SYSTEMS MUST BE SET UP ON THE BOTTOM OF AREAS FROM THE SYSTEMS ON BERMS, HILLS, AND PONDS.
- IRRIGATION SYSTEMS REQUIRING MORE THAN 12 5. STATIONS SHALL HAVE CONTROLLER EXPANSION MODULE HUNTER ACM-600 (6 STATION INCREMENTS UP TO 42 STATIONS).
- MAIN LINES INSTALLED 1'-0" TO 1'-2" MAXIMUM 6. BELOW GRADE
- ELECTRICAL CONDUIT SHALL BE INSTALLED BY A 7. LICENSED ELECTRICIAN. LOW VOLTAGE IRRIGATION CONTROL WIRE CONDUIT IS EXCLUDED FROM THIS REQUIREMENT
- 8. DECODER SYSTEM MASTER AND ELECTRIC VALVES: ICD-100 DECODER ..
- HFS SENSOR •• ICD-SEN DECODER •• NEEDED FOR USE WITH DECODER WIRE.

NOTES (UP TO 2"

- 1. MASTER VALVE HUNTER ICV GLOBE VALVE TO 2" OR IRRITROL 700 SERIES ULTRA FLOW VALVE TO 2".
- HUNTER ID WIRE 14 AWG DECODER WIRE FOR 2. DECODER SYSTEMS.
- ALL BALL VALVES THAT ARE 24" AND DEEPER 3. SHALL HAVE CURB BOX AND RODS.
- PIPE FROM CURB STOP TO MASTER VALVE SHALL 4. BE COPPER OR GALVANIZED.

NOTE (4"):

- MASTER VALVE 4" NELSON 800 SERIES VALVE MODEL #A4B5C2D1E40H3.
- CONTROL WIRE SHALL BE 18 GAUGE BRAIDED 2. (1000 FEET LENGTH OR LESS) OR 14 GAUGE SINGLE STRAND (OVER 1000 FEET LENGTH) OR HUNTER ID WIRE 14 AWG DECODER WIRE FOR DECODER SYSTEMS.
- ALL GATE AND BALL VALVES THAT ARE 24" AND DEEPER SHALL HAVE VALVE BOXES OR CURB BOX 3. AND RODS.
- PIPE FROM GATE VALVE TO MASTER VALVE SHALL 4. BE GALVANIZED.
- CITY APPROVED REDUCED PRESSURE PRINCIPLE 5. BACKFLOW PREVENTION ASSEMBLY (RP).

SPRINKLER SYSTEM














DESIGN MANUAL

CITY OF IDAHO FALLS

ENGINEERING DESIGN POLICY MANUAL

July 2021

The City of Idaho Falls Design Policy Manual describes the procedures and standards for preparing project construction documents. The term "Engineer" as used herein refers to the Idaho Falls City Engineer.

The primary purpose of this manual is to enable engineers, consultants, and private developers to efficiently and effectively develop projects that meet the City of Idaho Falls design policies and standards. This policy document is not intended to duplicate all design-related requirements contained in City Code. Engineers and developers must also familiarize themselves with those Code requirements, especially Title 10, Chapter 1 (Subdivision Ordinance).

The Engineering Design Policy Manual (EDPM) is an official document reinforcing city requirements, standards, policies and procedures to provide developers and City staff criteria to aid them in bringing a project to completion, including preparing plans, reports and all other related documents required to meet City design standards. These design policies are provided and intended to comply with City Code. Should a conflict arise between the EDPM and City Code, City Code prevails.

<u> 10 – General</u>

- **10.1 Subdivision Improvement Drawings:** Include the following with all Subdivision Plan Sets:
 - Location and extents of clearing and grubbing
 - Disposal, stockpile or placement location of cleared and grubbed material
 - Location and density of fill placement (if applicable)
 - Final grading
 - Centerline stationing, include stationing for PC, PT, PRC, Grade Breaks etc.
 - Roadway typical sections
 - Curb and gutter, sidewalk, ADA ramps, water lines, hydrants, valves, storm and sanitary sewer lines, manholes, catch basins, service lines, signs, striping, storm ponds, infiltration systems, and other features as required
 - Profile of roadway centerline, curb and gutter, water lines, storm drains, and sanitary sewers
 - Storm water pollution prevention (storm water BMPs)

20 – Earthwork

- **20.1 Geotechnical Engineering Report:** A geotechnical report is required for any of the following:
 - Soil types and infiltration rates for any proposed infiltration facilities, and
 - Subgrade soil types and conditions to support a reduction in the required roadway subbase layer thickness per Section 200.2 herein, and
 - Subgrade soil types and conditions to support structures

<u> 40 – Water</u>

40.1 – Pipe Cover:

- 6 feet minimum cover
- 8 feet maximum cover
- Or as approved in writing by the Engineer

40.2 – Valves:

- Valves at maximum spacing of 700 feet, meet requirements of Standard Drawing IF-404A
- Valves at intersection at P.C. of curb return, see Standard Drawing IF-404
- Valves on Hydrant lines 5 feet from tee, see Standard Drawing IF-404
- 10" or under use Gate Valve
- Over 10" use Butterfly Valve

40.3 – Bends:

- 90° bends (elbows) allowed on waterlines 8" in diameter and smaller
- Bends greater than 45° on waterlines greater than 8" diameter require written approval of the Engineer

40.4 – Service Lines:

- New service lines extended 10 feet beyond the ROW. Meet requirements in Standard Drawings IF-401A through IF-401F
- Service lines 2" and smaller in diameter use type K soft copper
- Service lines 4" and greater in diameter use class 50 ductile iron
- Services between 2" and 4" in diameter the service line extends at 4" diameter to within the public ROW/PUE and then reduced to the appropriate size
- Service lines for landscape irrigation only install meter in meter box and install a second curb box behind meter box as shown in Standard Drawing IF-409
- Existing service line replacement connect at existing curb stop or meter box (if present)

40.5 – Meter Box:

 Required on all new service lines or replaced service lines. Meet requirements of Standard Drawings IF-401A (1"), IF-401B (1-1/2" & 2"), IF-412 (4"), IF-412A (6"), or IF-412B (8")

40.6 – Canal Crossings:

- Meet requirements of Standard Drawing IF-411
- All water main canal crossings to be placed in a steel casing
- Crossing below a canal that is 15 feet or greater in width at high water elevation install a water main access structure
- Casing 4' below channel bottom

40.7 – Flush Hydrant:

- All dead-end lines (permanent or temporary): place flush hydrant beyond the last tee or service connection and at other locations as required by the Engineer. See Standard Drawing IF-405
- Install 2 feet to 5 feet from plugged end of water main
- Used in high points of water mains as an air release valve

40.8 – Joint Deflection of Pipe:

• Per manufacture's recommendations

40.9 – Waterline Flow:

 Minimum of 1500 gpm to any fire hydrant unless additional flow is required by the Fire Marshall

40.10 – Water Mains:

- Main lines 8" minimum
- 6" min in cul-de-sacs beyond last fire hydrant
- Location of pipe to be within the paved roadway a minimum of 4' from any curb and gutter section
- Maintain a minimum of 10-foot horizontal separation between water main and sanitary/storm sewer main. Maintain 18" vertical separation between water main and sanitary/storm sewer main. All separation requirements both horizontal and vertical to be measured between near edges of pipe. Satisfy requirements of IDAPA 58.01.08
- Place water main lines to minimize the number of crossings with sanitary/storm sewer mains
- Place water main lines such that crossings with sanitary/storm sewer mains are as near perpendicular as practicable (90 degrees +/- 10 degrees)

40.11 – Fire Hydrants:

- 400 feet maximum spacing between hydrants for residential or per fire code
- 200 feet maximum spacing between hydrants for commercial/industrial or per fire code
- Spacing requirement to be met independently on each side of arterial roadways
- Additional hydrants as required by the Fire Marshall

<u>50 – Sewer</u>

50.1 – Pipes:

• Minimum pipe slope:

Pipe Size	Minimum Grade		Maximum Grade	
(Inches)	(ft/ft)	(%)	(ft/ft)	(%)
8	0.004	0.40%	0.089	8.9
10	0.0028	0.28%	0.066	6.6
12	0.0022	0.22%	0.052	5.2
15	0.0015	0.15%	0.038	3.8
18	0.0012	0.12%	0.030	3.0
21	0.001	0.10%	0.024	2.4
24	0.0008	0.08%	0.020	2.0
27	0.0007	0.07%	0.017	1.7
30	0.0006	0.06%	0.015	1.5
36 and Larger	0.0005	0.05%	0.012	1.2

• All permanent dead end sewer lines (e.g. cul-de-sac) installed with a minimum of 1.0% slope in upstream end segment

 Pipe with less than 2 feet of cover material: pipe to be Class IV or V reinforced concrete pipe or Class 50 ductile iron pipe

50.2 – Manholes:

- Spacing between manholes 400 feet maximum
- Minimum drop across manhole 0.1 feet on pipes up to 27"
- Top of inlet pipe(s) to be no lower than top of outlet pipe
- Use drop manhole connection in accordance with Standard Drawing IF-504

50.3 – Service Lines:

- New service line stub extend 10 feet beyond ROW
- Existing service lines replacement connect at ROW (unless otherwise approved in writing by the Engineer)

60 – Culverts and Storm Sewer

60.1 – Pipes:

- Design storm drain pipes to provide capacity based on the 2 year storm return frequency
- Minimum storm sewer pipe diameter is 12 inches
- Minimum pipe slopes: conform to table in paragraph 50.1

60.2 – Manholes:

- Spacing between manholes 400 feet maximum •
- Minimum drop across manhole 0.1 feet on pipes up to 27"
- Top of inlet pipe(s) to be no lower than top of outlet pipe
- Maximum of 4 pipes connecting to standard manhole unless approved by Engineer

60.3 – Catch Basins:

- Design catch basins to provide capacity based upon the 2 year storm • return frequency
- Position catch basins away from curb ramps by placing them at the PC/PT

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Minimum catch basin depth to flow line of pipe •

Local Residential / Residential Collector	3 feet
Major Collector / Local Industrial	3.5 feet
Arterials	4.0 feet

Allowed to go shallower with use of ductile iron pipe with a minimum of 3 inches of cover below subgrade

- Use side opening catch basins conforming to current City Standards
- Place catch basins at lot lines to avoid driveway conflicts •
- Maximum inlet spacing: • Local Residential Street (60' ROW) 1000 feet Residential Collector (70' ROW) 650 feet Major Collectors (80' ROW) 550 feet Minor & Principal Arterials (100' ROW) 450 feet
- Maximum pipe size into the Standard catch basin is 15 inch •
- Maximum angles on the 2'x3' Catch Basin (deviation from perpendicular): • 12" ADS N-12 & 12" Sanitite HP on the 3' long side 45° 12" ADS N-12 & 12" Sanitite HP on the 2' short side 25° 12" PVC SDR-35 on the 3' long side 50° 12" PVC SDR-35 on the 2' short side 30° 15" ADS N-12 & 15" Sanitite HP on the 3' long side 35° 15" ADS N-12 & 15" Sanitite HP on the 2' short side 0° 15" PVC SDR-35 on the 3' long side 40° 15" PVC SDR-35 on the 2' short side 5°
- Chaining Catch Basins • Maximum of 2 catch basins on single run.

60.4 – Storm Drainage Guidelines:

- Where a City storm drain is available in adjacent street, alley or easement, design the private system to allow for overflow or controlled discharge to the City system
- Prevent storm water from draining across the surface of sidewalks
- All construction in accordance with the current edition of the City of Idaho Falls Standard Drawings and Specifications
- All storm drain systems that ultimately flow to an Irrigation District system must have said Irrigation District approval prior to City approval and acceptance
- Submit all storm drain system master plans, along with calculations, to the City for approval
- Include with storm drain master plan any needed piping, ponds, lift stations, energy dissipaters, grading, landscaping, etc. The design to be stamped and signed by an engineer licensed in the State of Idaho

60.5 – Storm Drainage Pond:

- Pond is required to store 1.3 inches of water multiplied by the entire contributing area that flows to the pond. Provide a positive outlet for pond or size the pond ten (10) times greater than the volume otherwise required
- Pond outlet must be capable of draining 90% of the entire pond volume in not more than forty-eight (48) hours
- Provide a fifteen (15) foot wide asphalt access road and a minimum asphalt area of 20 feet by 20 feet at any lift station. Asphalt pavement section to meet requirements for residential local streets. May be reduced or modified only as indicated by a Geotechnical investigation and report performed and sealed by a geotechnical engineer licensed in the State of Idaho. Place lift station and appurtenances to allow clear access to the pond with trucks, mower, etc.
- Locate pond outlet the greatest distance possible from the inlet
- Slope bottom of pond to the controlled release outlet structure or, if outlet is to be by infiltration, to a City Standard infiltration manhole or other approved infiltration facility. Locate infiltration manhole adjacent to the pond outlet and greatest distance from the inlet
- Locate intake to controlled release outlet structure or infiltration manhole 8"-12" above the finished ground surface to minimize sediment or trash entering the infiltration bed or downstream facilities
- Pond inlet pipe to enter the pond at an elevation above the lowest pond elevation, unless said line enters directly into infiltration manhole. Provide an engineered energy dissipater at all discharges to pond not in manholes

Meet the Following Criteria When City of Idaho Falls Maintains Pond:

- 10 foot wide horizontal (flat) area around the top perimeter of the pond
- Side slopes maximum of 5 feet horizontal to 1 foot vertical for mowed slopes. All other slopes to be 4 feet horizontal to 1 foot vertical unless approved by Engineer.

- Energy dissipater at pond inlet to eliminate erosion. Concrete alley curb poured around the riprap to facilitate a mowing edge. Construct pond inlet so that it is accessible for maintenance
- Minimum topsoil depth 6 inches compacted (85% to 90%) in place over the entire surface area of the pond
- No topsoil in ponds with Xeriscaping
- Rock depth per plans or as directed by Engineer.
- Sprinkler system for pond to meet City of Idaho Falls Standard Drawings and Specifications



70 – Concrete

70.1 – Curb and Gutter Sections:

- Minimum slope for tangent section 0.40%
- Minimum slope through curb returns at intersections 0.6%
- Minimum base thickness per Standard Drawings and Specifications

70.2 – Cross Drains/Valley Gutters

- Allowed with written approval from City Engineer
- Minimum slope 1%
- Minimum base thickness per Standard Drawings and Specifications

70.2 – Sidewalk:

- Cross slope to be 1.75% +/- 0.25%
- All pedestrian ramps and walkways to comply with Americans with Disabilities Act (ADA) requirements
- Minimum concrete and base thicknesses per Standard Drawings and Specifications

<u> 200 – Miscellaneous</u>

200.1 – Typical Street Cross Sections (see attached drawings):

- Local Residential Street (60' ROW)
- Residential Collector (70' ROW)
- Local Industrial Street (70' ROW)
- Major Collector, Bicycle/Pedestrian Priority (80' ROW)
- Major Collector, Truck/Auto Priority (80' ROW)
- Pioneer Road (80' ROW)
- Minor Arterial, Truck/Auto Priority (100' ROW)
- Minor Arterial, Bicycle/Pedestrian Priority (100' ROW)
- Minor Arterial, Shared Priority (100' ROW)
- Principal Arterial, Shared Priority (100' ROW)
- (Roadway classifications in accordance with the BMPO Access Management Plan, most recent update)

200.2 – Subbase Layer:

• Subbase layer may be reduced or eliminated only as indicated by a Geotechnical investigation and report performed and sealed by a geotechnical engineer licensed in the State of Idaho. Pavement section design to be based on the following:

STREET CLASSIFICATION	TRAFFIC INDEX	
Local Residential Street	7	
Local Industrial Street	8.5	
Residential Collector	8	
Major Collector (Includes Pioneer Rd)	9	
Minor/Principal Arterial	Project-specific traffic	
	analysis/lorecasting	

 Geotechnical report may only be used to justify reduction or elimination of subbase layer and, if appropriate, elimination of the geotextile fabric. Asphalt and base gravel layer thicknesses are fixed according to the attached typical street sections

200.3 – Fire Access Roadway Section (Including Turn-arounds):

- Asphalt pavement section—use the Local Residential Street section. The subbase layer may be reduced or eliminated only as indicated by a Geotechnical investigation and report performed and sealed by a geotechnical engineer licensed in the State of Idaho
- Gravel roadway section—use 12" minimum total base and subbase layers (minimum 6" crushed aggregate base) plus subgrade separation fabric





MAJOR COLLECTOR, BICYCLE/PEDESTRIAN PRIORITY (80' ROW)

NTS



MAJOR COLLECTOR, TRUCK/AUTO PRIORITY (80' ROW)







MINOR ARTERIAL, TRUCK/AUTO PRIORITY (100' ROW) NTS



MINOR ARTERIAL, BICYCLE/PEDESTRIAN PRIORITY (100' ROW) NTS



MINOR ARTERIAL, SHARED PRIORITY (100' ROW) NTS



PRINCIPAL ARTERIAL, SHARED PRIORITY (100' ROW) NTS



IMPACT FEES

ORDINANCE NO.

AN ORDINANCE OF THE CITY OF IDAHO FALLS, IDAHO, A MUNICIPAL CORPORATION OF THE STATE OF IDAHO; ESTABLISHING A DEVELOPMENT IMPACT FEE ADVISORY COMMITTEE AND ITS PURPOSES, DUTIES, ORGANIZATION, AND RULES; PROVIDING SEVERABILITY, CODIFICATION, PUBLICATION BY SUMMARY, AND ESTABLISHING EFFECTIVE DATE.

WHEREAS, a development impact fee program provides an equitable means of providing public facilities and infrastructure needed to serve new growth and development; and

WHEREAS, Idaho Code Title 67, Chapter 82 (the "Idaho Development Impact Fee Act") directs that cities considering the adoption of such impact fees establish a Development Impact Fee Advisory Committee; and

WHEREAS, said Act sets forth ongoing duties and responsibilities of the Development Impact Fee Advisory Committee that would be best fulfilled by a regular standing committee, established by City ordinance; and

WHEREAS, the Council believes that this Ordinance improves City functions; clarifies the expectations of City committees, commissions, and boards.

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

SECTION 1: Title 2, Chapter 16 of the City Code of the City of Idaho Falls, Idaho, is hereby added as follows:

2-16-1: ESTABLISHMENT: The Development Impact Fee Advisory Committee ("Committee") is hereby established. The Mayor, with the consent of the Council, shall appoint five (5) voting members to the Committee. The Committee shall include not less than two (2) members who are active in the business of development, building, or real estate. All members shall be residents of the City. No members shall be employees or officials of any governmental entity. Members shall be selected without regard to political affiliation, race, color, national origin, gender, family status, sex, handicap, sexual orientation, gender identity/expression or religion. Committee members shall serve without compensation. The Mayor may appoint, with the consent of the Council, additional persons with interest, expertise, and experience to be non-voting ex-officio members of the Committee.

2-16-2: PURPOSE: The purpose of the Committee is to advise and assist the Director of the Public Works Department, the Mayor, and the Council in matters related to the City's proposed and adopted development impact fees, in compliance with Idaho Code provisions related thereto.

2-16-3: DUTIES: The Committee shall have the following powers, duties, and responsibilities:

- A. Assist the governmental entity in adopting land use assumptions; and
- B. Review the capital improvements plan, and proposed amendments, and file written comments; and
- C. Monitor and evaluate implementation of the capital improvements plan; and
- D. File periodic reports, at least annually, with respect to the capital improvements plan and report to the governmental entity any perceived inequities in implementing the plan or imposing the development impact fees.
- E. All other activities required by Idaho Code related to development impact fees.

2-16-4: ORGANIZATION: During the first meeting of each calendar year, the Committee shall elect, by majority vote of the Committee, a person to act as Chair and Vice-Chair from its membership. The Chair and Vice-Chair shall serve until replaced or re-elected.

2-16-5: TERMS: Each Committee member shall be appointed to serve a term of three (3) years, except that the terms of the initial Board members may be less than three years as necessary to provide for staggered terms of office. Terms of no more than three (3) members shall expire in any calendar year. Committee members may be reappointed.

2-16-6: **REMOVAL**: A voting Committee member may be removed from the Committee by the Mayor and at the Chair's request, following either two (2) consecutive meeting absences unexcused by the Chair, or two (2) meeting absences in any calendar year, or at any time by the majority vote of the Council.

2-16-7: VACANCY: The Mayor, with the consent of the Council, shall appoint a qualified member to fill any unexpired term of a Committee member in the event of a vacancy.

2-16-8: ATTENDANCE: A majority of voting Committee members shall constitute a quorum for purposes of conducting the business of the Committee. Non-voting members present at meetings shall not be considered in determining the number required for a quorum or whether a quorum is present.

2-16-9: OPEN MEETINGS: The Committee shall meet as often as deemed necessary by the Director of the Public Works Department. All meetings of the Committee shall be open to the public and shall follow the requirements of the Idaho Open Meetings Law. The Director of the Public Works Department shall keep minutes and other appropriate records pursuant to the Idaho Code.

2-16-10: MINUTES: The Committee shall provide an annual report, as approved by the Director of the Public Works Department, to the Council with respect to City capital improvement plans related to impact fees and any perceived inequities in implementing the plan or imposing development impact fees.

SECTION 2. Savings and Severability Clause. The provisions and parts of this Ordinance are intended to be severable. If any section, sentence, clause, or phrase of this Ordinance should be held to be invalid or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the validity or constitutionality of any other section, sentence, clause, or phrase of this Ordinance.

SECTION 3. Codification Clause. The Clerk is instructed to immediately forward this Ordinance to the codifier of the official municipal code for proper revision of the Code.

SECTION 4. Publication. This Ordinance, or a summary thereof in compliance with Idaho Code, shall be published once in the official newspaper of the City, and shall take effect immediately upon its passage, approval, and publication.

SECTION 5. Effective Date. This Ordinance shall be in full force and effect from and after its passage, approval, and publication.

PASSED by the City Council and APPROVED by the Mayor of the City of Idaho Falls, Idaho, this day of _______, 2021.

ATTEST:

CITY OF IDAHO FALLS, IDAHO

KATHY HAMPTON, CITY CLERK

REBECCA L. NOAH CASPER, Ph.D. MAYOR

(SEAL)

STATE OF IDAHO

County of Bonneville

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I, KATHY HAMPTON, CITY CLERK OF THE CITY OF IDAHO FALLS, IDAHO, DO HEREBY CERTIFY:

That the above and foregoing is a full, true and correct copy of the Ordinance entitled, "AN ORDINANCE OF THE CITY OF IDAHO FALLS, IDAHO, A MUNICIPAL CORPORATION OF THE STATE OF IDAHO; ESTABLISHING A DEVELOPMENT IMPACT FEE ADVISORY COMMITTEE AND IT'S PURPOSES, DUTIES, ORGANIZATION, AND RULES; PROVIDING SEVERABILITY, CODIFICATION, PUBLICATION BY SUMMARY, AND ESTABLISHING EFFECTIVE DATE."

(SEAL)

KATHY HAMPTON, CITY CLERK

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ORDINANCE NO.

AN ORDINANCE OF THE CITY OF IDAHO FALLS, IDAHO, A MUNICIPAL CORPORATION OF THE STATE OF IDAHO; ESTABLISHING A DEVELOPMENT IMPACT FEE ADVISORY COMMITTEE AND IT'S PURPOSES, DUTIES, ORGANIZATION, AND RULES; PROVIDING SEVERABILITY, CODIFICATION, PUBLICATION BY SUMMARY, AND ESTABLISHING EFFECTIVE DATE.

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PASSED by the City Council and APPROVED by the Mayor of the City of Idaho Falls, Idaho, this day of______, 2021.

CITY OF IDAHO FALLS, IDAHO

ATTEST:

REBECCA L. NOAH CASPER, Ph.D. MAYOR

KATHY HAMPTON, CITY CLERK

(SEAL)

STATE OF IDAHO

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)

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County of Bonneville

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(SEAL)

KATHY HAMPTON, CITY CLERK