TRANSMITTAL SHEET

TO: All Bidders

DATE: June 23rd, 2025

TOTAL NUMBER OF PAGES (INCLUDING COVER PAGE): 22

FROM: Mikel Lester, P.Eng. **TEL. #:** (506) 886-1551
Utilities & Infrastructure Services

IF YOU DID NOT RECEIVE ALL PAGES, OR FURTHER INFORMATION IS REQUIRED, PLEASE CONTACT THE SENDER

MESSAGE:

TENDER NO: 2025-20

McAllister Drive (Mountain View Drive to Loch Lomond Road): Water Main Renewal - Phase 1

Please find attached a copy of ***Addendum #1*** for the above tender.

As of March 2021, please be advised that an ***Acknowledgement Form*** (historically sent as part of the City's addendum packages) confirming receipt of an Addendum is **no longer** included in the addendum package.

However, in accordance with Section 2.5.03 of the City's General Specifications, it remains a requirement that **each Addendum** will contain a signature page(s) which each Tenderer is **required to sign and include with its Tender submission.**

City of Saint John

UTILITIES & INFRASTRUCTURE SERVICES
Engineering Services
175 Rothesay Avenue
Saint John, NB, E2J 2B4

ADDENDUM

PROJECT TITLE:	**ADDENDUM NO:**	**1**
McAllister Drive (Mountain View Drive to Loch Lomond Road): Water Main Renewal - Phase 1	**DATE:**	**June 23rd, 2025**
	PAGE:	**1 OF 21**
	TENDER NO:	**2025-20**

MAKE THE FOLLOWING MODIFICATIONS TO THE ABOVE PROJECT. INCLUDE IN THE AMOUNT OF THE TENDER ANY ADDITIONS TO OR DEDUCTIONS FROM THE COST OF THE WORK BY REASON OF THESE INSTRUCTIONS. THE TENDER DATE **REMAINS AT: 2:30:00 PM, WEDNESDAY, JULY 2nd 2025**

ADJUSTMENTS TO TENDER DRAWINGS

Replace Sheet 1 and 2 (M020-047) of the tender drawings with Sheet 1 and 2 (M020-047 - Addendum #1).

ADJUSTMENTS TO THE SPECIFICATIONS

Division 2 – Submission of Tender

The City of Saint John is implementing adjustments to the tender submission procedure as follows:

Section 2.6.01 Location of Tender Box for the Submission of Tender

175 Rothesay Avenue, Saint John, New Brunswick

The tender box will be available at the main building entrance for submission of tenders by the Tenderer between the hours of 9:30 am and 2:30:00 pm only on the above tender closing date.

There will not be a public tender opening. Registered Bidders will receive an email invitation to view the Tender Opening using Microsoft Teams software. Email invitations will be sent to the address provided on the Official Bidder's List. The Tender Opening Committee will conduct the evaluation of the tenders and Compliant tenders will be included in the summary of bids on the City's Tenders & Proposals website within 1 business day following the tender closing.

ADJUSTMENTS TO DIVISION 2 - INSTRUCTIONS TO TENDERERS AND TENDERING PROCEDURES; DIVISION 4 – FORM OF TENDER; AND DIVISION 5 FORM OF AGREEMENT

In the Contract Specifications, Division 2 - Instructions to Tenderers and Tendering Procedures (Section 2.2.10 – Timetable for Completion of the Work); Division 4 – Form of Tender (Section 4.2) – Tenderer's Responsibility and Agreement); and Division 5 – Form of Agreement (Section 5.1(c) – Agreement Between Owner and Contractor, replace the substantial completion date noted in these sections with the following:

The Substantial Completion of the work is to be completed 60 calendar days after starting construction but no later than October 5th, 2025.

ADJUSTMENTS TO DIVISION 3 – PARTICULAR SPECIFICATIONS

In the Contract Specifications, Division 3 – Particular Specifications, Section 3.1 (Additional Specifications for this Project) replace Sections 3.1.03 Project Schedule, 3.1.14 Asphalt Concrete, 3.1.22 Protective Coating for Fittings and 3.1.23 Additional Joint Restraint on 300mm Watermain, with the following revised sections:

3.1.03 Project Schedule

The Contractor shall submit a proposed Schedule of Work in accordance with Division 6.13 Schedule of Work within the City of Saint John's General Specifications (2022). Schedule shall show durations of all major work activities and indicate proposed shutdowns of any existing water mains. Note: Coordinated shutdowns of the water mains shall be as approved by the City.

There are three watermain shutdowns required to complete this work, they are the following:

1. The Contractor shall coordinate with the City to complete a one (1) day watermain shutdown, with a maximum duration of 12 consecutive hours. This shutdown shall apply to the section of watermain located along McAllister Drive, north of Mountain View Drive, and is allowed for the purpose of making connections to the existing watermain and installing GV-1 and GV-2, along with the associated pipe, fittings and appurtenances.

2. The Contractor shall coordinate with the City to complete a second one (1) day watermain shutdown (maximum duration of 12 consecutive hours). This shutdown shall apply to the section of watermain along McAllister Drive from Mountainview Drive to Loch Lomond in order to complete the work required to transfer from the existing 300mm cast-iron watermain along McAllister Drive to the newly installed 300mm chlorinated watermain. Due to the anticipated significant impact on the City's water system and the magnitude of the affected area during this shutdown, the Contractor shall take all necessary measures to ensure that the shutdown duration does not exceed the approved shutdown conditions (one (1) day - 12-hour duration – overnight shut-down). The Contractor is required to provide the City with a minimum of one (1) week advance written notice for all proposed scheduled shutdowns.

3. The Contractor is permitted to complete a third one (1) day watermain shutdown (maximum duration of 12 consecutive hours). This shut down shall apply to the section of existing 200mm watermain that feeds Highmeadow Drive. This shutdown is for the purpose of making connections to the existing 200mm watermain and capping the existing 200mm watermain to be abandoned as shown on the revised drawings in this addendum.

The project construction work sequence and schedule will be discussed in detail at the pre-construction meeting. The following work sequence for underground infrastructure installation has been prepared:

- In addition to the requirements set out in Section 3.1.06, prior to the start of installing new watermains the Contractor shall conduct all daylighting of all intersecting infrastructure and electrical duct banks, as shown on, but not limited to, the drawings. The Contractor shall notify the Engineer immediately if there are any conflicts with the design.
- Water shutdown #1 along McAllister Drive, North of Mountain View Drive, the Contractor shall install GV#1 and GV #2, including one full section of 300mm watermain from GV #2 to the southwest.
- As per Section 10.5.16 of the City's General Specifications, disinfection shall be per AWWA C651 Standards. Upon completion of this connection work GV#1 will be opened by Saint John Water (SJW) allowing the watermain along McAllister Drive, North of Mountain View Drive to be put back in service. Sampling to be completed by the SJW from the GV#2 location.
- The Contractor shall install the new 300mm watermain from the pipe section southwest of GV#2 at Mountain View Drive up/to and including GV#3,GV#4,and GV#5 near Loch Lomond Road including the pipe section from GV#5 to be connected to in a future phase and including a stub from GV#4 going East. The work would also include installing GV #6 and a stub from GV#6 going North-East to be connected to at a later stage in the sequence of work.

- The Contractor shall complete the pressure test in accordance with Section 10.5.17 in the General Specifications and prepare the newly installed watermain for disinfection.
- Once disinfection and sampling has been successfully completed by SJW, the new watermain is to be put into service (i.e. operation). This shall be coordinated with SJW. See next step.
- In coordination with the City, the Contractor shall complete the required work to transfer from the existing 300mm cast-iron watermain from Loch Lomond Road to Mountain View Drive to the newly installed 300mm chlorinated watermain. The required work to transfer to the new watermain shall be completed in a single day (12-hour maximum duration) shutdown (Shutdown #2). The work sequence for the shutdown is to have GV #3 under pressure, water can be drained in the watermain between GV #3, GV #4, and GV #5 to allow for safe working conditions as the Contractor connects the new 300mm watermain to the existing watermain.

During the one (1) day (12-hour maximum duration) shutdown (Shutdown #2) noted above the Contractor shall:

1. Connect the new watermain to the existing 300mm cast-iron watermain, including all required bends and appurtenances (Approx. at STA 0+311).
2. Install new mechanically restrained caps at approx. STA 0+310 and STA 0+000 as shown on the Drawings.
3. Switch over the two water services to the newly installed services (at Civic 630 and Civic 835).

This shutdown is tentatively planned for Thursday, September 25th, 2025, from 10PM to 10AM, unless directed otherwise by the Engineer. This date and time were chosen due to the size of the required water shutdown and the types of customers in the shutdown area.

- Install piping and check valve between GV#6 and GV#7.Contractor to coordinate with the City for a one (1) day (12-hour maximum duration) shutdown (Shutdown #3) to connect new 200mm watermain from GV#7 to the existing watermain.
- Remove chambers and valve boxes as indicated on the drawings.
- Complete reinstatement. To meet the substantial completion timeline for this project, reinstatements (i.e. curb installation) may need to occur as underground infrastructure work progresses.

3.1.14 Asphalt Concrete

If achievable it is planned that McAllister Drive (Mountain View Drive to Loch Lomond Road) will be milled and sealed in the 2025 construction season as part of another City contract (Asphalt Resurfacing Contract). However, for this project it should be planned for the McAllister Drive trench to be reinstated with lower course asphalt mix only to blend to the existing surface (140mm).

Roadway Reinstatement Requirements

The asphalt concrete reinstatement on McAllister Drive shall be as follows:

Lower Course Asphalt Thickness: Superpave 19 (3 to <10 million ESALs)
140 mm (to match surface elevation)

Trench Width and Reinstatement Limits
The anticipated trench width at the surface for the installation of the 300 mm and 200mm watermain is approximately 2.2 m. The Contractor shall reinstate an additional 300 mm width of lower course asphalt on both sides of the trench, up to the curb line as directed by the Engineer. As such, the total reinstatement width shall vary between 2.5 m and 2.9 m, which will accommodate the use of a spreader.

Saw Cutting
All existing asphalt to be removed shall be saw cut full depth prior to removal. This is to ensure clean edges and to minimize damage to adjacent existing pavement.

3.1.22 Protective Coating for Fittings

Anti-corrosion petrolatum paste, tape and mastic shall be installed on all fittings on the 300mm and 200mm watermains. The corrosion protection shall be installed as per Section 10.4.14 (Corrosion Protection) in the City of Saint John General Specifications (2022). This shall be considered incidental to the work.

3.1.23 Additional Joint Restraint on 300mm Watermain

When completing the one (1) day (12 hours maximum duration) shutdown (Shutdown #2) of the existing 300mm watermain on McAllister Drive, new GV#3 is to be closed and will be under pressure. The Contractor shall install mechanical joint restraints on the watermain on the North side of GV#3. It is the Contractor's responsibility to determine the number of bell and spigot restrainers required to be installed on the new McAllister Drive watermain.

After the new 300mm watermain is in service the Contractor is to begin work from GV#6 to install a new 200mm watermain to the existing 200mm watermain to High Meadow Drive. GV#6 will be under pressure. In addition to the anchor Tee as shown on the drawings, the Contractor shall install bell and spigot restraints on the 300mm watermain on the North-West and South-East sides of GV#6. It is the Contractor's responsibility to determine the number of bell and spigot restrainers required to be installed on the new McAllister Drive Watermain.

ADJUSTMENTS TO DIVISION 3 – PARTICULAR SPECIFICATIONS

In the Contract Specifications, Division 3 – Particular Specifications, Section 3.1 (Additional Specifications for this Project) the following sections are to be added to Division 3:

3.1.25 Check Valves

The two (2) check valves required for this project (200mm and 300mm) are to be supplied by the City of Saint John. Only the check valves are to be provided by the City, the valves are flange connected, all adaptors and accessories are to be supplied by the Contractor. The Contractor is responsible for pickup of the valves from 175 Rothesay Avenue. Supply of all adaptors and accessories including the pickup from the City shall be included in the unit price to install the valves. The Check Valves are to be direct buried with no chamber/valve box overtop.

The 200mm and 300mm Flomatic Swing Check Valves (ANSI B161 Class 125) are anticipated to be delivered to 175 Rothesay Avenue by July 18th, 2025. Although a delay is not expected, should there be a delay, this does not change the required Substantial Completion date. Unless otherwise approved by the Engineer, no claim will be entertained for any delay in the delivery of these check valves.

Refer to the Technical Data sheets in **Appendix 3B** for more information.

3.1.26 Working Overnight

The one (1) day (12-hour maximum duration) shutdown (Shutdown #2) of the existing 300mm watermain along McAllister Drive from Mountain View Drive to Loch Lomond Road is being planned to take place overnight (tentatively planned for September 25th from 10:00 PM to 10:00AM) on the date as approved by the Engineer. Should this requirement change, the Contractor shall be notified of the new shutdown period. Any changes to the date shall be considered incidental to the Work. All required lighting, traffic control and necessary equipment required to suitably illuminate the working area(s) at night while completing this Work shall be considered incidental to the work.

ADJUSTMENTS TO DIVISION 4 - FORM OF TENDER

In the Contract Specifications, Division 4 – Form of Tender, Section 4.5 (Schedule of Quantities and Unit Prices) replace the following sheets:

- Sheets 1 through 8 with the attached Sheets 1 through 9 (Addendum #1).

PLEASE NOTE:

The Tender closing date remains on Wednesday 2:30:00 pm, July 2nd, 2025, and will not be extended.

Note: Signed copy of the addendum **must** be enclosed in the tender documents, according to the Instructions to Tenderers and Tendering Procedures in Division 2 of the Contract Specifications.

BY: _____ _____

CHIEF CITY ENGINEER *CONTRACTOR'S SIGNATURE*

TO BE SIGNED AND ATTACHED TO TENDER DOCUMENTS

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
A	WATER						
1	**Excavation**	13					
a	Rock		m^3	50			
2	**Pipelaying & Jointing: Watermain - Supply & Install**	7, 10					
a	25mm Ø Type "K" soft copper pipe including tracer wire and connections		m	10			
b	40mm Ø Type "K" soft copper pipe including tracer wire and connections		m	5			
c	200mm Ø PVC, DR18, Class 150 or approved equal including tracer wire and connections		m	16			
d	300mm Ø PVC, DR18, Class 150 or approved equal including tracer wire and connections		m	330			
e	25mm corporation (main) stop complete with service saddle (incl. connection to main, existing service pipe with all fittings, excavation and backfill)		Each	2			

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
f	40mm corporation (main) stop complete with service saddle (incl. connection to main, existing service pipe with all fittings, excavation and backfill)		Each	1			
g	25mm curb stops complete, incl. connection to existing service piping with necessary fittings		Each	2			
h	40mm curb stops complete, incl. connection to existing service piping with necessary fittings		Each	1			
i	200mm Ø Coupling for connection to existing watermain		Each	1			
j	300mm Ø Coupling for connection to existing watermain		Each	3			
k	200mm x 45 ° Bend		Each	2			
l	300mm x 45 ° Bend		Each	4			
m	300mm x 300mm x 200mm Tee		Each	1			
n	300mm x 300mm x 300mm Tee		Each	2			
o	300mm Bell and Spigot Restrainer		Each	3			
p	200mm Ø Check Valve (supplied by the City) INCLUDING pickup, accessories, and installation.		Each	1			

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
q	300mm Ø Check Valve (supplied by the City) INCLUDING pickup, accessories, and installation.		Each	1			
r	200mm Gate Valve		Each	2			
s	300mm Gate Valve		Each	5			
t	200mm Mechanical Joint Cap		Each	2			
u	300mm Mechanical Joint Cap		Each	4			
v	105mm Service Box & tracer wire		Each	3			
w	130mm Mueller Composite Valve Box with Adjustable top complete with tracer wire		Each	4			
x	5.5kg (12 lb.) Anodes on valves and mechanical fittings 200mm Ø and smaller	**10**	Each	9			
y	11kg (24 lb.) Anodes on water service connections, valves and mechanical fittings	**10**	Each	36			
z	Excavate & remove existing gate valve and/or valve box (outside normal limits of excavation)		Each	8			

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
3	**Fire Hydrants - Supply & Install**	10					
a	Fire hydrant complete, including anchor tee, 150mm GV, 130mm VB, restraints, concrete thrust blocks, 150mm piping from the main to the vertical piping, vertical piping, polyethylene encasement, tracer wire and Storz pumper nozzle including excavation and backfill.		Each	2			
4	**Air Valve - Supply & Install**	10, 12					
a	Combination Air Valve (100mm) including chamber, including vent piping, and standpipe.		Each	1			
5	**Grounding Plate Electrode Supply & Install**	16					
a	Grounding Plate Electrode - complete with wiring, connections, excavation and backfill - must meet the CEC 10-702 (4) requirements		Each	1			
6	**Insulation - Supply & Install**	10					
a	Supply and install 50mm thick insulation		m^2	40			

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
7	**Valve Chambers: Supply & Install**	10, 12					
a	1200mm Ø valve chamber c/w City adjustable frame & cover and tracer wire		Each	3			
8	**Calcium Chloride - Supply & Place**	24	Per 40 kg	10			
9	**Contingency**	2.6.03	LS	1	Forty Thousand Dollars and Zero Cents	40,000.00	40,000.00
	AMOUNT "A" (WATER)						

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
B	**STORM SEWER**						
1	**Pipelaying & Jointing: Storm Sewer - Supply & Install**	7, 11					
a	250mm Ø PVC, DR35 with gasket or approved equal		m	6			
b	Excavate & remove and reinstate existing catch basin (incl. excavation & backfill outside normal limits of excavation)		Each	2			
c	Connection of new 250mm Ø pipe to existing 250mm Ø pipe incl. coupling		Each	2			
2	**Contingency**	**2.6.03**	LS	x	One Thousand Five Hundred Dollars and Zero Cents	1,500.00	1,500.00
	AMOUNT "B" (STORM SEWER)						

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
C	**CONCRETE CURB AND SIDEWALK**	23					
1	**Concrete Curb (Regular & Dropped) - Supply & Place**	23					
a	Concrete curb (regular & dropped) INCLUDING excavation and imported Granular Base Material backfill (Method "A")		m	185			
2	**Concrete Sidewalk - Supply & Place**	23					
	1.5m wide concrete sidewalk (Dropped) INCLUDING excavation and backfill (Method "A")		m	185			
a	Variable width concrete sidewalk (Regular) INCLUDING excavation and backfill (Method "A")		m^2	12			
3	**Contingency**	2.6.03	LS	1	Five Thousand Dollars amd Zero Cents	5,000.00	5,000.00
	AMOUNT "C" (CONCRETE CURB & SIDEWALK)						

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
D	**ROAD WORK**	**13, 24**					
a	Supply & place bituminous tack		m^2	840			
1	**Asphalt Concrete - Supply & Place**	**27**					
a	Superpave 19 (3 to < 10 million ESALs)		t	295			
b	Superpave 19 (3 to < 10 million ESALs) Miscellaneous Handwork		t	5			
2	**Contingency**	**2.6.03**	LS	1	Seven Thousand Dollars and Zero Cents	7,000.00	7,000.00
	AMOUNT "D" (ROAD WORK)						

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NUMBER 2025-20 (Addendum #1)

TITLE: McAllister Drive (Mountain View Drive To Loch Lomond Road)- Watermain Renewal Phase 1

UNIT PRICE TO BE EITHER TYPEWRITTEN OR PRINTED IN INK IN WORDS AND PRINTED NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL ($)
					WRITTEN	NUMERICAL	
E	LANDSCAPING	26					
1	Landscaping - Supply & Place						
a	Topsoil - 100mm thickness		m^3	11.6			
b	Nursery Sod (minimum thickness 40mm)		m^2	116			
	Contingency	2.6.03	LS		Five Hundred Dollars and Zero Cents	500.00	500.00
	AMOUNT "E" (LANDSCAPING)						
	SUBTOTAL (A + B + C + D + E)						
	HARMONIZED SALES TAX (HST) 15 %						
	TOTAL INCLUDING HST						

APPENDIX 3B – CHECK VALVE SPEC SHEET

Swing Check Valve

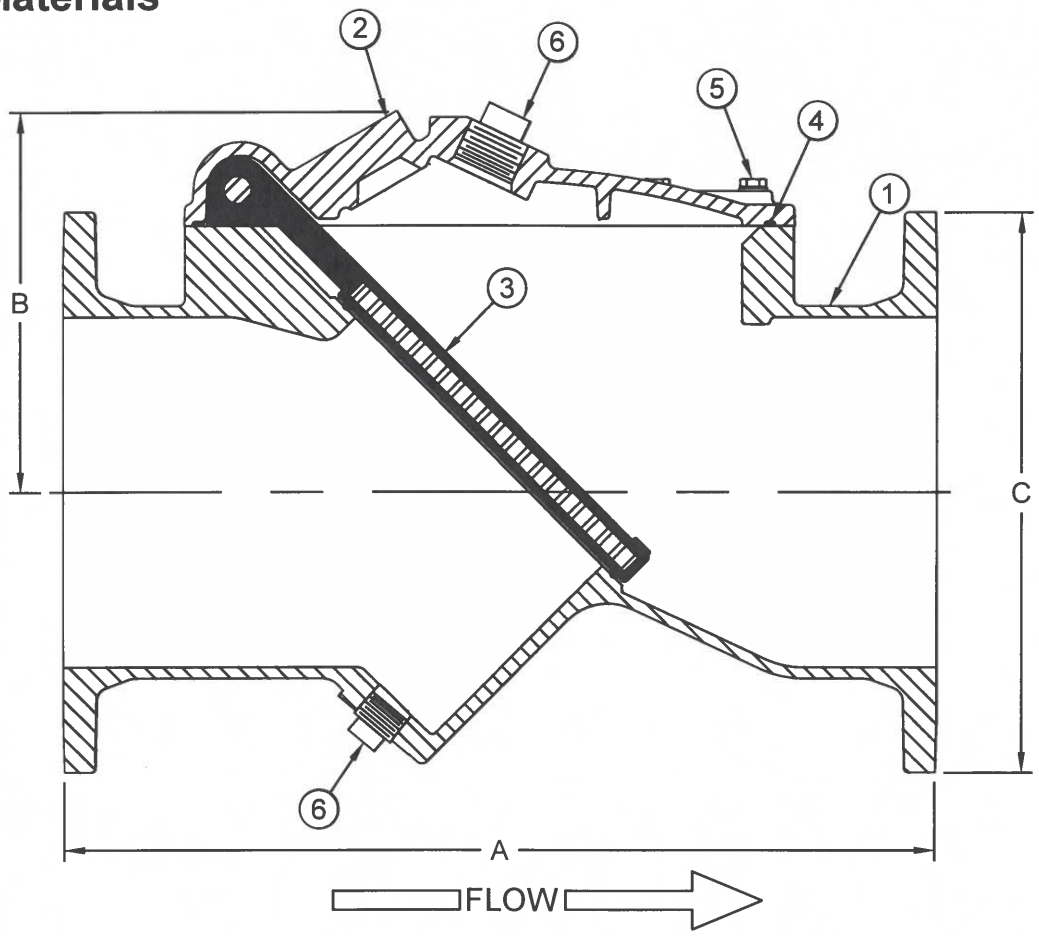
Model 745

Sizes 2" Thru 12" / 50 mm Thru 300 mm

FLOMATIC®
Flomatic Corporation

LOW-LEAD
IAPMO R&T ®
NSF/ANSI 372

Materials



Max Temp 140°F (60°C)
Max Pressure 250psi (18bar)

Item #	Qty	Description	Material	ASTM
1	1	Body	Ductile Iron	A536
2	1	Cover	Ductile Iron	A536
3	1	Disc*	Buna coated Steel	----------
4	1	Gasket*	Buna	----------
5	A/R	Cover Bolt	Steel	SAE Grade 5
6	2	Plug	Malleable Iron	----------

* Optional EPDM or Viton

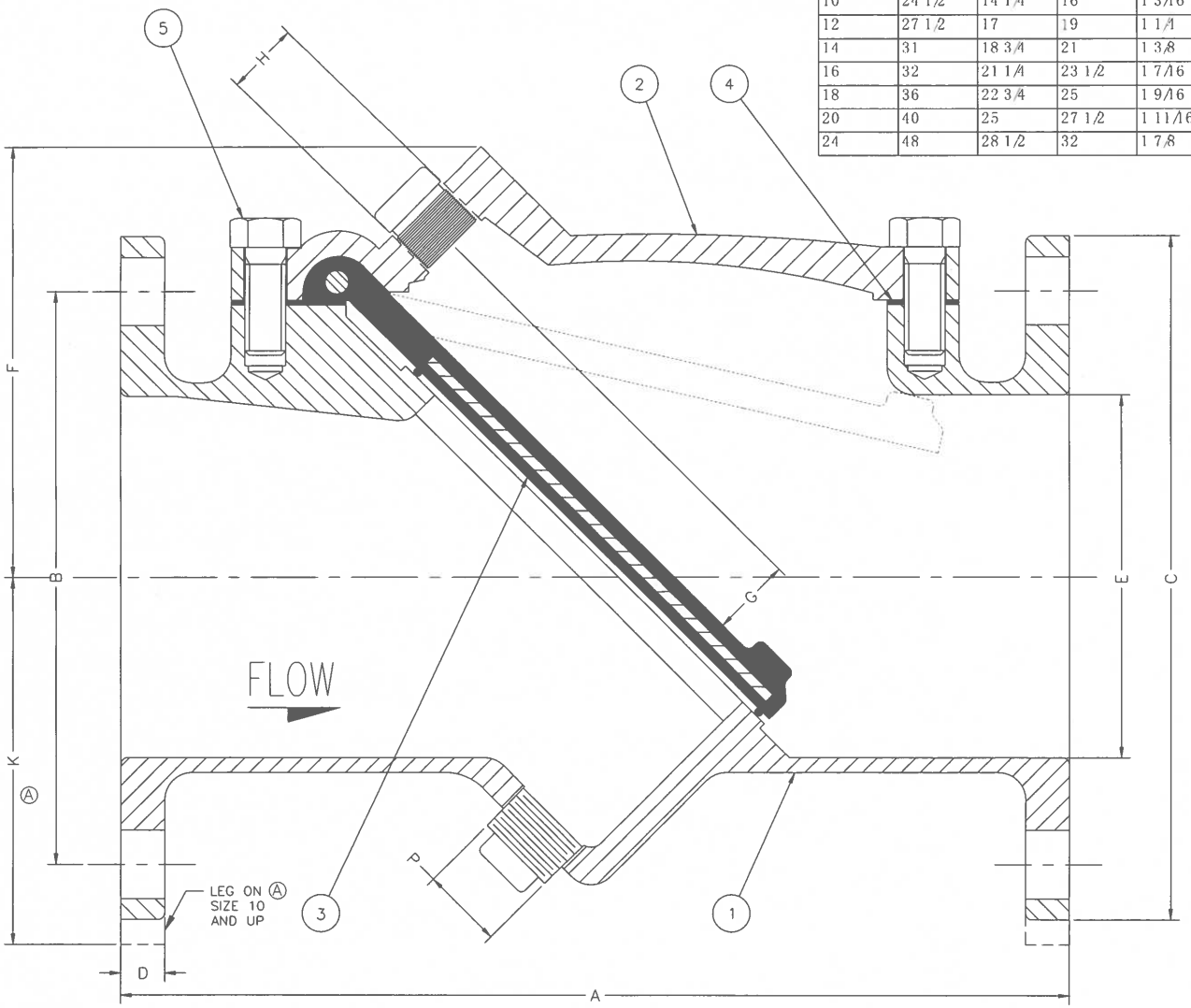
Dimensions (150# ANSI B16.42 Flanges)

Size		Part #	A		B		C		Weight	
inch	mm		inch	mm	inch	mm	inch	mm	lbs	kg
2	50	2380	8	203	3-3/4	95	6	152	19	9
2-1/2	65	2381	8-1/2	216	3-3/4	95	7	178	25	11
3	80	2382	9-1/2	241	4-7/32	107	7-1/2	191	33	15
4	100	2383	11-1/2	292	4-13/16	122	9	229	38	17

Size		Part #	A		B		C		Weight	
inch	mm		inch	mm	inch	mm	inch	mm	lbs	kg
6	150	2385	15	381	6-5/16	160	11	279	77	35
8	200	2386	19-1/2	495	8-1/4	210	13-1/2	343	121	55
10	250	2387	24-1/2	622	9-7/8	250	16	406	198	90
12	300	2388	27-1/2	699	11-13/32	290	19	483	309	140

FLOMATIC CORPORATION
GLENS FALLS, N.Y. 12801
PHONE (518) 761-9797
FAX (518) 761-9798

SIZE	A	B	C	D	E	F	BOLT SIZE	NO. OF BOLTS	G	H	P	K Ⓐ	LEG WIDTH CENTERED
2	8	4 3/4	6	5/8	2	3 3/8	5/8	4			3/4" NPT		
2 1/2	8 1/2	5 1/2	7	11/16	2 1/2	3 3/8	5/8	4			3/4" NPT		
3	9 1/2	6	7 1/2	3/4	3	5 1/8	5/8	4			3/4" NPT		
4	11 1/2	7 1/2	9	15/16	4	5 3/4	5/8	8			1" NPT		
6	15	9 1/2	11	1	6	6 7/8	3/4	8			1 1/4" NPT		
8	19 1/2	11 3/4	13 1/2	1 1/8	8	8 3/8	3/4	8	1 1/2 ALL SIZES	1 ALL SIZES	1 1/4" NPT		
10	24 1/2	14 1/4	16	1 3/16	10	10 3/4	7/8	12			2 1/2" NPT	9 1/16	6
12	27 1/2	17	19	1 1/4	12	12 1/2	7/8	12			2 1/2" NPT	10 1/16	6 1/4
14	31	18 3/4	21	1 3/8	14	13	1	12			2 1/2" NPT	11 7/8	7 7/8
16	32	21 1/4	23 1/2	1 7/16	16	14 1/4	1	16			2 1/2" NPT	13	7 7/8
18	36	22 3/4	25	1 9/16	18	15 1/4	1 1/8	16			2 1/2" NPT	14 1/8	10 1/4
20	40	25	27 1/2	1 11/16	20	16 7/8	1 1/8	20			2 1/2" NPT	15	11
24	48	28 1/2	32	1 7/8	24	19 1/4	1 1/4	20			2 1/2" NPT	16 1/2	11 7/8



BILL OF MATERIALS

No.	DESCRIPTION	QTY.	MATERIAL
1	BODY	1	DUCTILE IRON
2	COVER	1	DUCTILE IRON
3	DISC	1	RUBBER COATED STL
4	GASKET	1	NBR
5	COVER BOLTS	VARIES PER VALVE SIZE	SST

J:\AUTOCAD\GA-VALVE\GA-SHOW\C-1404.DWG

REV.	DESCRIPTION	DATE	BY
A	ADDED COLUMN AND DIMENSION K	02-24-2022	JCS

GA INDUSTRIES, LLC

2"–24" RUBBER FLAPPER SWING CHECK VALVE
WITH ANSI 125LB FLANGES

STANDARD TOLERANCES (UNLESS OTHERWISE NOTED)
FINISHED SURFACES ONLY
DIMENSIONS SHOWN IN INCHES
.x = ±.02
.xx = ±.01
.xxx = ±.002
FRACTIONS ±1/64"
ANGLES ±1°
FINISH Ø"- XX RMS

SERIAL NO.

SCALE NONE

DRAWN BY SWR

APPR. BY JT

REFERENCES

EFFECTIVE DATE 05-11-2010 TO

FIG. NUMBER	FILE	DRAWING NO.	REV.
200-D	C	C-1404	A

Figures 200-D, 200-DBF, 200-DPI
Rubber Flapper Check Valve

GA INDUSTRIES
A VAG-Group Brand

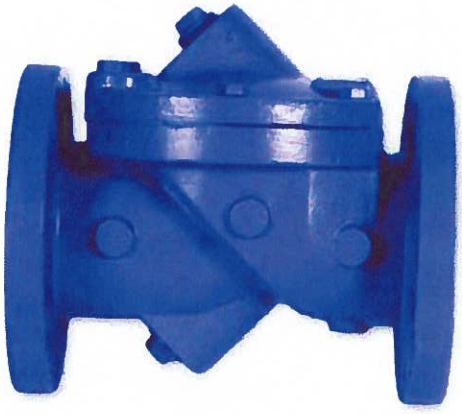
Data Sheet 200.01D

Description

GA Industries Figure 200-D Rubber Flapper Check Valves have a full 100% flow area for low head loss and clog resistance. Long term reliability is ensured because the valve's reinforced rubber flexible disc is the only moving part and it's integral O-ring provides drop tight sealing at both low and high working pressures.

The valve's 45-degree seat angle, short stroke and its flexible disc's inherent memory combine to provide quick-closing, slam resistant operation.

The Figure 200-D can be easily fitted with backflow device and/or a visual position indicator with or without an electrical position switch.



Product Features

- 250 PSI rated epoxy coated ductile iron body and cover
- Tight sealing at low and high pressure
- Flexible disc successfully passed 1 million cycle test
- Stainless steel cover fasteners standard
- Available with backflow device and/or position indicator
- Optional electrical position switch

Standard Materials

- Body & Cover — Ductile Iron, ASTM A536 Grade 65-45-12
- Flexible Disc — Buna-N, Nylon and Steel Reinforced
- External Fasteners — Type 316 Stainless Steel

Corrosion Protection

- Standard: — Internal and External PPG/Amerlok 400 NSF-61 Certified 2-Part Epoxy, minimum 6 mil DFT

Approvals & Certifications

- Fully conforms to AWWA Standard C508

~~Options/Accessories~~

- ~~Option 1D~~ — ~~With Honeywell Micro Switch NEMA 1, 2, 4, 6, 12 & 13 DPDT Limit Switch (4" to 24", Requires Visual Position Indicator)~~
- ~~Option PI~~ — ~~Visual Position Indicator (4" to 24")~~

Ordering Data

- Figure Number (200-D, 200-DBF, 200-DPI or 200-DBFPI)
- Size
- Options and/or Accessories

Non-Shock Working Water Pressure at up to 150F (66C)				
Figure Number	**200-D**	**200-DBF**	**200-DPI**	**200-DBFPI**
Style	Plain	With Backflow Device	With Visual Position Indicator	With Backflow Device and Visual Position Indicator
Size	2" to 24"	2" to 24"	4" to 24"	4" to 24"
Flange	ANSI B16.1 Class 125			
Max Working Pressure	250 PSI			
Hydro Test	500 PSI			

www.gaindustries.com

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GA INDUSTRIES
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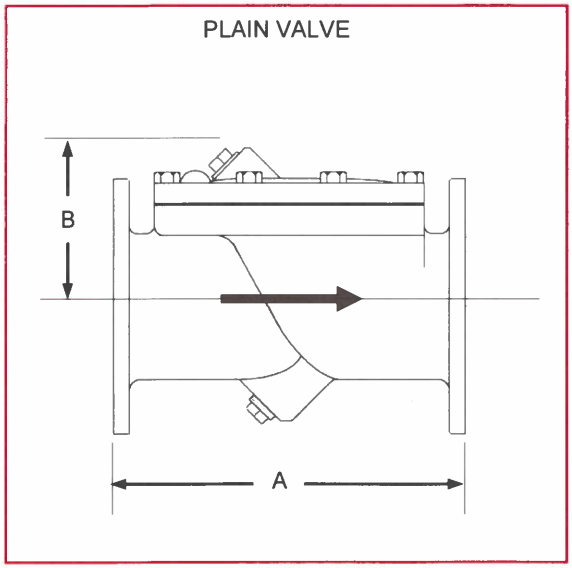
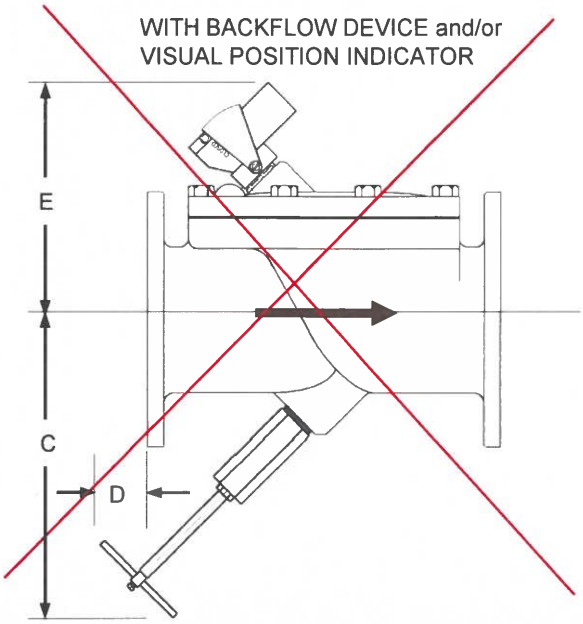
Figures 200-D, 200-DBF, 200-DPI
Rubber Flapper Check Valve

Data Sheet 200.01D



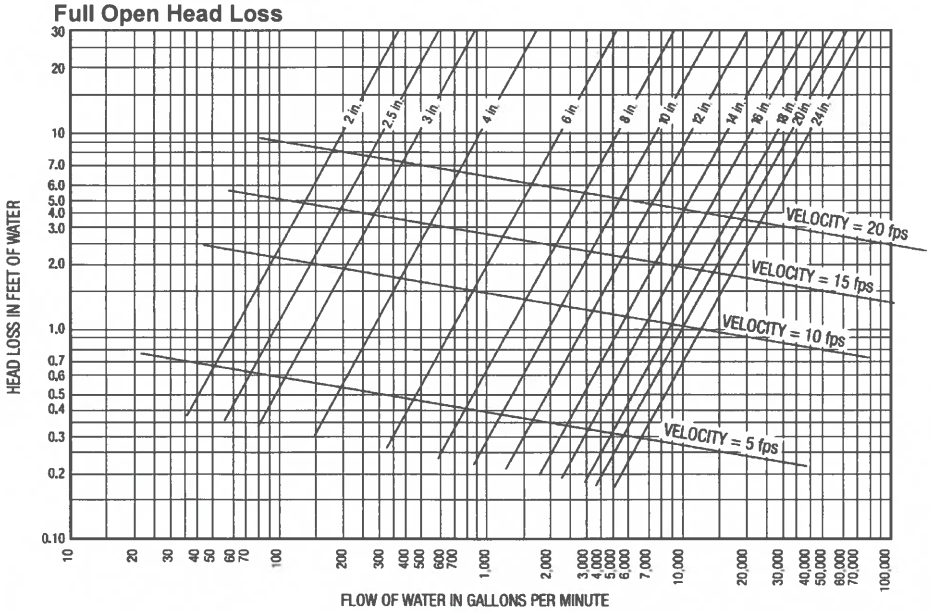


Installation Dimensions

SIZE	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
A	8	8½	9½	11½	15	19½	24½	27½	31	32	36	40	48
B	3⅜	3⅜	5⅛	5¾	6⅞	8⅜	10¾	12½	13	14¼	15¼	16⅞	19¼
C	7	7	8	8	13	17	20	23	27	31	34	38	45
D	0	0	0	2	2	3	4	4	4	5	6	6	7
E	--	--	--	8¾"	9⅞"	11⅜	13½	15¼	15¾	16¾	17¾	19⅜	21¾
WGT	28	33	38	69	125	230	377	615	735	1040	1550	1850	2500

Dimensions in inches, weight in pounds. Dimensions C and D are with backflow device fully retracted.

Full Open Head Loss



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