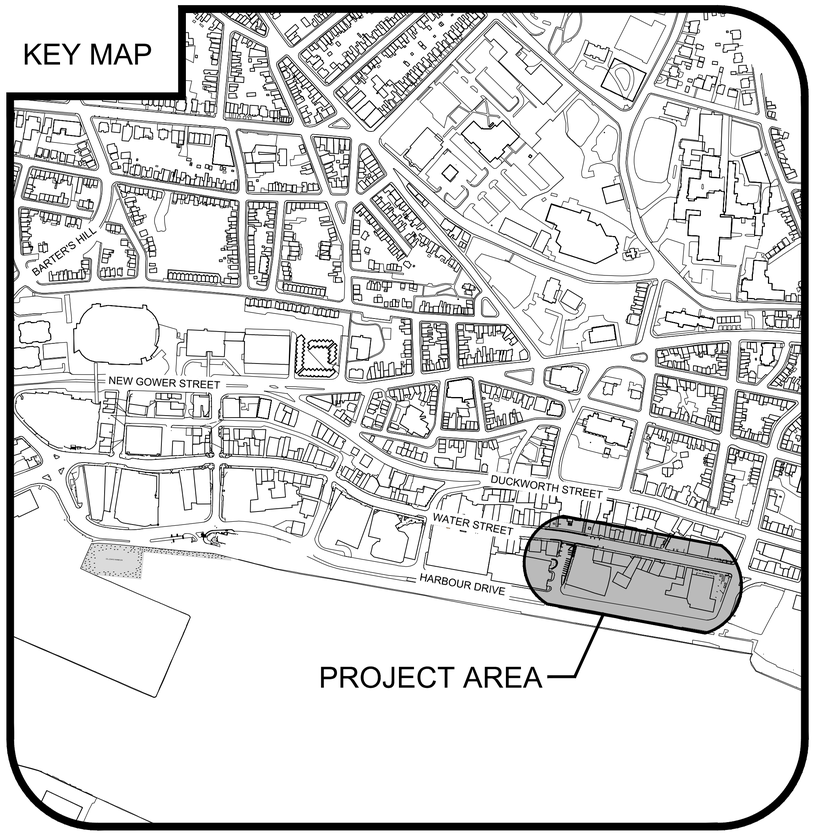
ST. JOHN'S

DEPARTMENT OF PLANNING, ENGINEERING
AND REGULATORY SERVICES

DATE

FEBRUARY 2021

KEY MAP



PROJECT TITLE

WATER STREET INFRASTRUCTURE IMPROVEMENTS

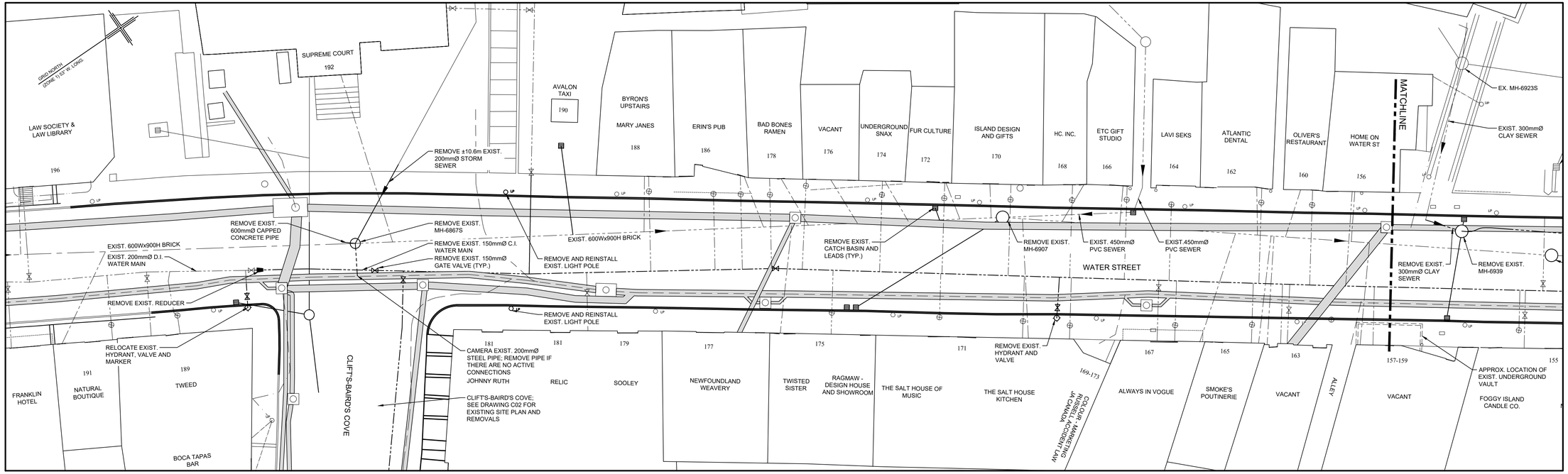
PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET No. & DESCRIPTION

C01	EXISTING SITE PLAN AND REMOVALS WATER STREET
C02	EXISTING SITE PLAN AND REMOVALS CLIFT'S-BAIRD'S COVE
C03	WATER STREET PLAN AND PROFILE, STA. 0+680 TO STA. 0+780
C04	WATER STREET PLAN AND PROFILE, STA. 0+780 TO STA. 0+890
C05	WATER STREET PLAN AND PROFILE, STA. 0+890 TO STA. 0+940
C06	CLIFT'S-BAIRD'S COVE PLAN AND PROFILE
C07	WATER MAIN PLAN WATER STREET
C08	WATER MAIN PLAN CLIFT'S-BAIRD'S COVE
C09	CLIFT'S-BAIRD'S COVE INTERSECTION IMPROVEMENTS AND GRADING
C10	ASPHALT AND SIDEWALK REPLACEMENT WATER STREET
C11	ASPHALT AND SIDEWALK REPLACEMENT CLIFT'S-BAIRD'S COVE
C12	DETAILS
C13	DETAILS

ENGINEERING CONSULTANT:

CBCL

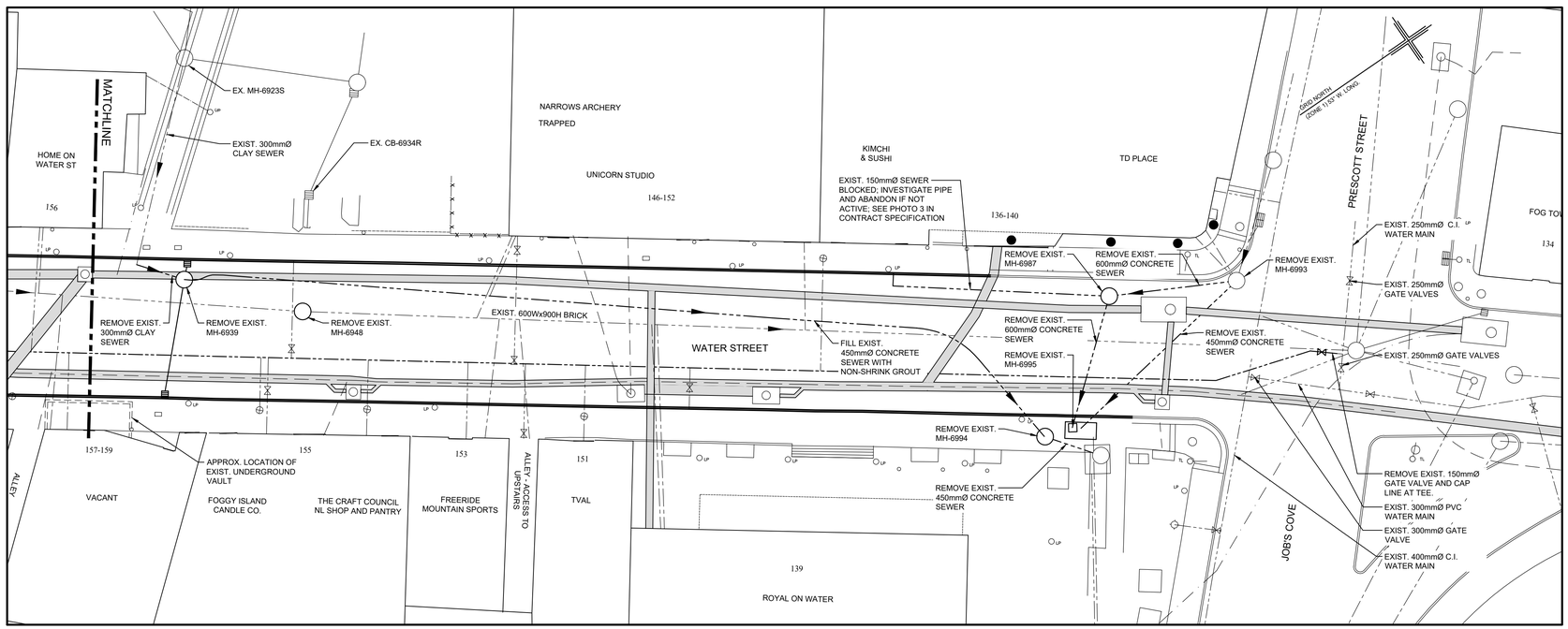


PLAN - CLIFT'S-BAIRD'S COVE TO JOB'S COVE

1:250

0 5.0 10.0 15.0 20.0 25.0m

1:250



PLAN - CLIFT'S-BAIRD'S COVE TO JOB'S COVE

1:250

0 5.0 10.0 15.0 20.0 25.0m

1:250

GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS NOTED ON DRAWINGS. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO CONSULTANT'S REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES, PIPES AND ELECTRICAL CONDUITS. REPORT ANY DISCREPANCIES TO CONSULTANT'S REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR TO PROTECT ALL UNDERGROUND UTILITIES, PIPES, ELECTRICAL CONDUITS AND BUILDINGS DURING CONSTRUCTION. CONTRACTOR TO MAKE REPAIRS TO ITEMS DAMAGED DURING CONSTRUCTION AT HIS OWN EXPENSE.
4. CONTRACTOR TO COORDINATE TEMPORARY SHUT DOWN OF WATER UTILITIES WITH CITY OF ST. JOHN'S.
5. CONTRACTOR TO NOTIFY NEWFOUNDLAND POWER & BELL ALIANT WHEN PLANNING TO EXCAVATE WITHIN THREE METERS OF EXISTING UNDERGROUND UTILITY DUCT BANKS. ALL EXCAVATION WITHIN THREE METERS OF EXISTING DUCT BANKS MUST BE DONE USING HYDRO-EXCAVATION METHODS.
6. FOR LOCATIONS WHERE NEW SEWERS ARE TO BE INSTALLED UNDER EXISTING DUCT BANKS, CONTRACTOR MUST PROVIDE A BRACING DESIGN TO THE CONSULTANT SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF NEWFOUNDLAND AND LABRADOR FOR APPROVAL PRIOR TO UNDERTAKING THE WORK.
7. ALL NEW WATERMAIN VALVES, HYDRANTS AND FITTINGS INCLUDING BENDS, TEES, REDUCERS AND COUPLINGS MUST BE MECHANICALLY RESTRAINED. CONCRETE THRUST BLOCKS MUST BE PLACED AT ALL HYDRANTS, BENDS AND TEES.
8. DO NOT SCALE FROM DRAWINGS.
9. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
10. ALL ELEVATIONS ARE IN METRES TO NAD 83.
11. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE CITY OF ST. JOHN'S SPECIFICATIONS BOOK, LATEST EDITION UNLESS OTHERWISE NOTED.
12. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND INSURANCES TO CARRY OUT THE WORK.
13. CONTRACTOR TO SCHEDULE AND PERFORM WORK TO MITIGATE DISRUPTIONS TO THE OWNER'S DAILY OPERATIONS AND TO THE GENERAL PUBLIC.
14. CONTRACTOR TO PROVIDE RED-LINED AS-BUILT DRAWINGS ALONG WITH POST-CONSTRUCTION DIGITAL AS-BUILT SURVEY FILE TO OWNER AT PROJECT COMPLETION.
15. ALL AREAS DISTURBED DURING CONSTRUCTION TO BE REINSTATED TO THEIR ORIGINAL CONDITIONS.
16. GRADES AT PROJECT LIMITS TO MATCH EXISTING GRADES.
17. ALL CATCH BASIN LEADS AND SERVICE LINE HOLES MUST BE CORED ON SITE.

PROVINCE OF NEWFOUNDLAND AND LABRADOR
ENGINEERING PERMIT
pegnl D0178
CBCL Limited
M.I.R.C GREG SHEPPARD #04245
Signature or Member Number (Member-in-Responsible Charge)

DO NOT SCALE FROM PRINT

LEGEND

- EXIST. WATERMAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. COMBINED SEWER
- EXIST. BELL ALIANT CONDUIT
- EXIST. NL POWER CONDUIT
- EXIST. CITY U/G ELECTRICAL
- EXIST. CONCRETE DUCT BANK
- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- EXIST. COMBINED (TO BE REMOVED)
- EXIST. STORM (TO BE REMOVED)
- EXIST. SANITARY (TO BE REMOVED)
- EXIST. WATERMAIN (TO BE REMOVED)
- EXIST. MANHOLE (TO BE REMOVED)
- EXIST. CATCH BASIN (TO BE REMOVED)
- EXIST. VALVE (TO BE REMOVED)
- EXIST. HYDRANT (TO BE REMOVED)
- EXIST. CURB (TO BE REMOVED)

CONSULTANT

CBCL

STAMP

REGISTERED PROFESSIONAL ENGINEER
G. E. SHEPPARD
SIGNATURE
FEB 23, 2021
DATE
NEWFOUNDLAND & LABRADOR

DATE	REVISION	NO.
21/02/23	ISSUED FOR TENDER	0

PROJECT

CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

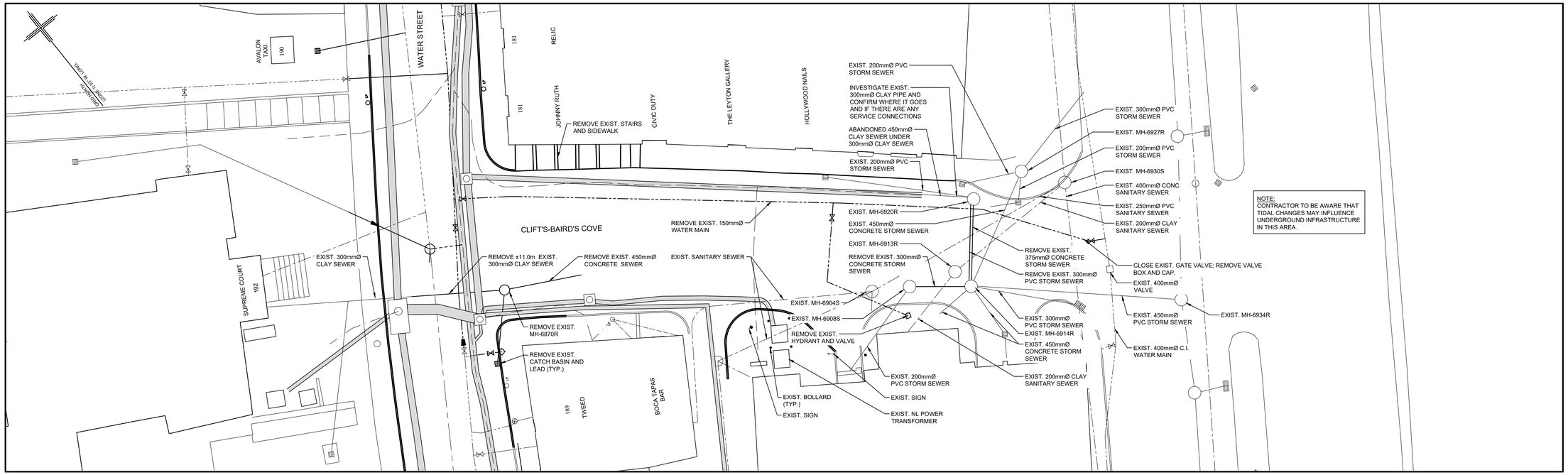
SHEET TITLE

EXISTING SITE PLAN AND REMOVALS WATER STREET

AUTHORITY

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	DATE
AS NOTED	JAN 2021
DRAWN BY: JRB	SHEET: 1 OF 13
CHECKED BY: GES	DRAWING NUMBER: C01
APPROVED BY: GES	PROJECT NUMBER: 203039.00



PLAN - CLIFT'S-BAIRD'S COVE

1:250

0 5.0 10.0 15.0 20.0 25.0m

1:250

DO NOT SCALE FROM PRINT

NOTES

1. SEE DRAWING C02 FOR GENERAL NOTES.

LEGEND

- EXIST. WATERMAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. COMBINED SEWER
- EXIST. BELL ALIANT CONDUIT
- EXIST. NL POWER CONDUIT
- EXIST. CITY U/G ELECTRICAL
- EXIST. CONCRETE DUCT BANK
- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- EXIST. COMBINED (TO BE REMOVED)
- EXIST. STORM (TO BE REMOVED)
- EXIST. SANITARY (TO BE REMOVED)
- EXIST. WATERMAIN (TO BE REMOVED)
- EXIST. MANHOLE (TO BE REMOVED)
- EXIST. CATCH BASIN (TO BE REMOVED)
- EXIST. VALVE (TO BE REMOVED)
- EXIST. HYDRANT (TO BE REMOVED)
- EXIST. CURB (TO BE REMOVED)

CONSULTANT

CBCL

STAMP

REGISTERED PROFESSIONAL ENGINEER
G. E. SHEPPARD
REGISTERED
NEWFOUNDLAND & LABRADOR
FEB 23, 2021
DATE

DATE	REVISION	NO.
21/02/23	ISSUED FOR TENDER	0

PROJECT

CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE

EXISTING SITE PLAN AND REMOVALS CLIFT'S-BAIRD'S COVE

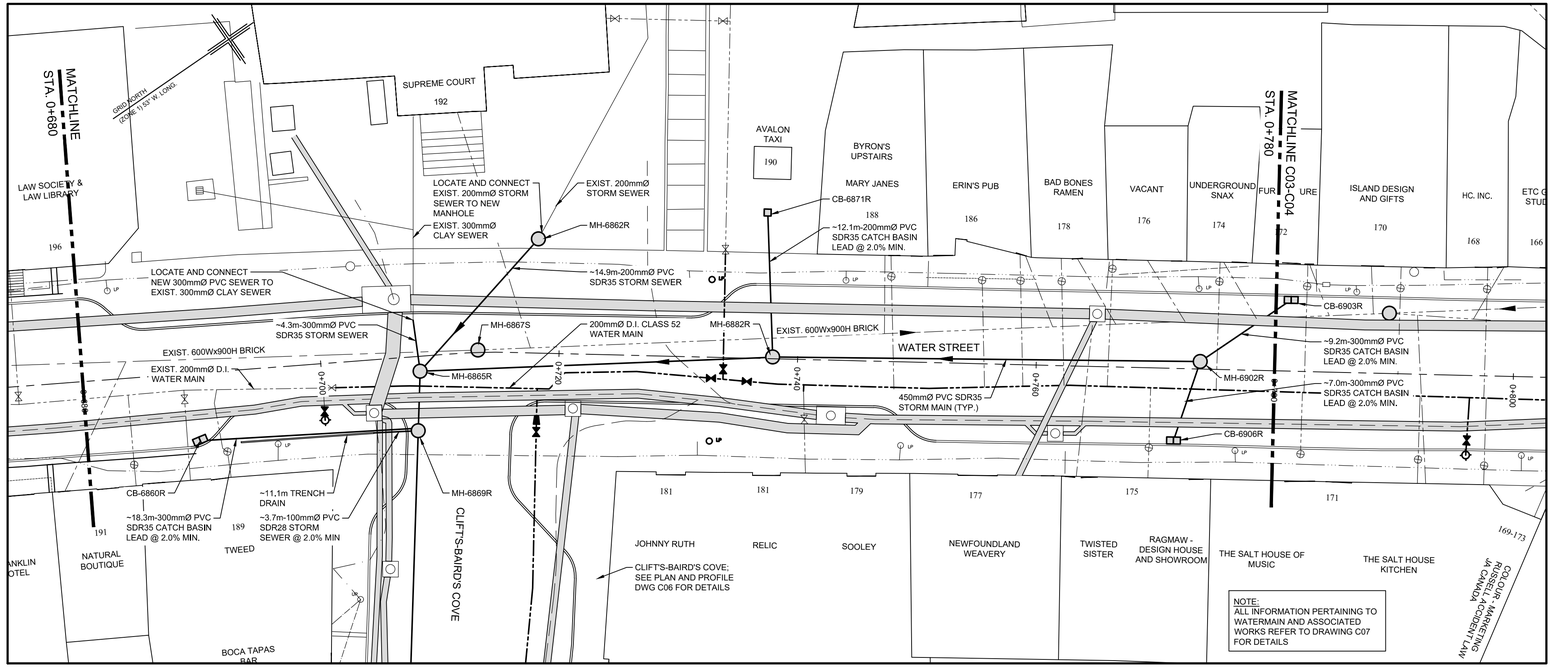
AUTHORITY

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	DATE
AS NOTED	JAN 2021
DRAWN BY: JRB	SHEET: 2 OF 13
CHECKED BY: GES	DRAWING NUMBER: C02
APPROVED BY: GES	PROJECT NUMBER: 203039.00

PROVINCE OF NEWFOUNDLAND AND LABRADOR
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ENGINEERING PERMIT
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CBCL Limited

M.I.R.C GREG SHEPPARD #04245
Signature or Member Number (Member-in-Responsible Charge)

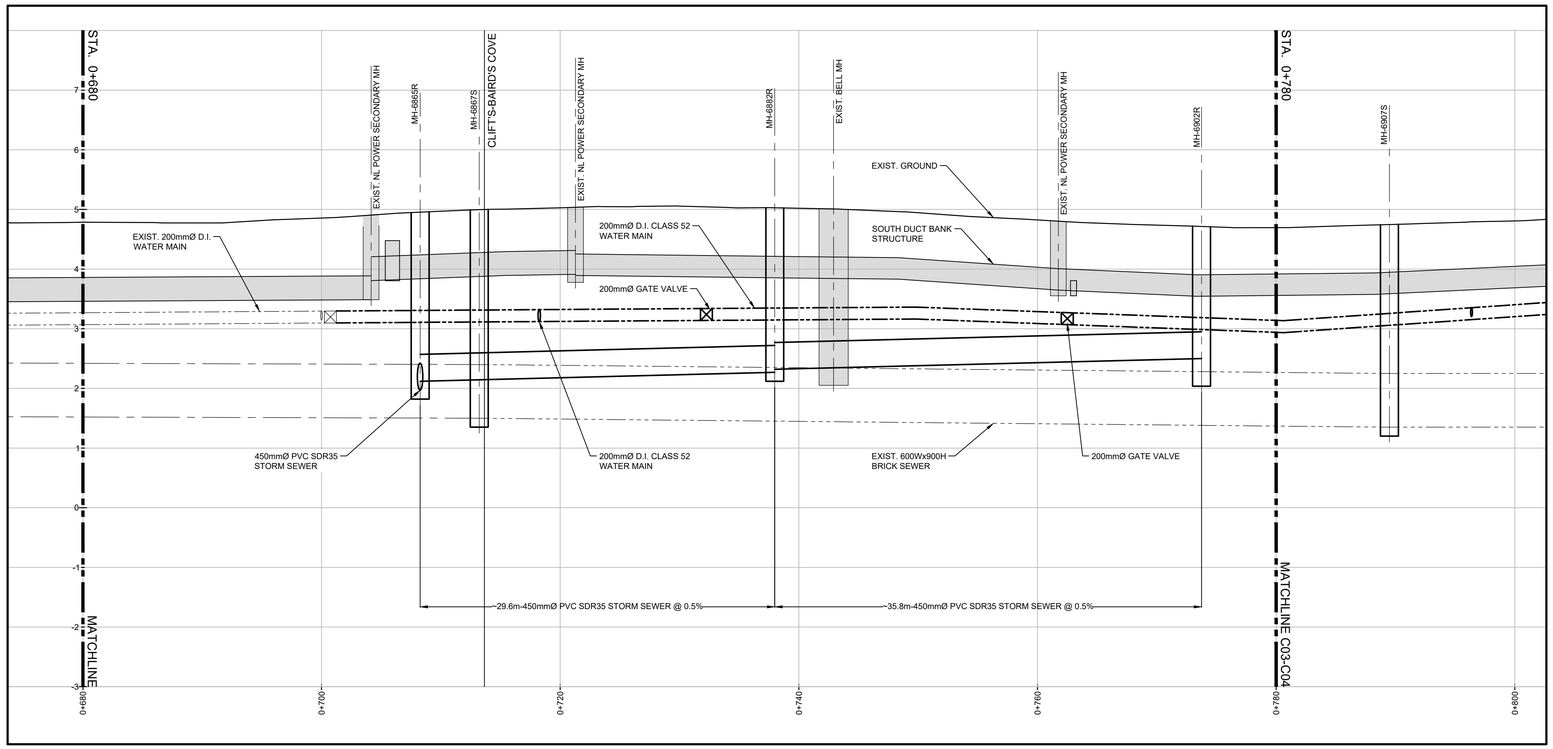


PLAN - STA. 0+680 TO STA. 0+780

1:250

0 5.0 10.0 15.0 20.0 25.0m

1:250



PROFILE - STA. 0+680 TO STA. 0+780

1:250 [H] 1:50 [V]

0 5.0 10.0 15.0 20.0 25.0m

1:250

0 1000 2000 3000 4000 5000mm

1:50

STORM SEWER TABLE

MANHOLE #	STATION	SIZE (mm)	TOP EL. (m)	INVERT IN			INVERT OUT		
				ELEV. (m)	FROM	DIA. (mm)	ELEV. (m)	TO	DIA. (mm)
MH-6865R	0+708.26	1200	4.71	2.12	MH-6882R	450	1.97	MH-6869R	450
				COJ	MH-6862R	450			
				COJ	BLDG 192	EX. 300			
MH-6862R	-	1200	5.31	COJ	EX. CB	200	COJ	MH-6865R	200
MH-6882R	0+737.98	1200	5.00	2.32	MH-6902R	450	2.27	MH-6865R	450
MH-6902R	0+773.74	1200	4.70	-	-	-	2.50	MH-6882R	450

SANITARY SEWER TABLE

MANHOLE #	STATION	SIZE (mm)	TOP EL. (m)	INVERT IN			INVERT OUT		
				ELEV. (m)	FROM	DIA. (mm)	ELEV. (m)	TO	DIA. (mm)
MH-6867S	0+713.21	1500	4.84	1.50	MH-6824S	EX. BRICK	1.50	MH-6907S	EX. BRICK

DO NOT SCALE FROM PRINT

NOTES

1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND

- EXIST. WATERMAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. COMBINED SEWER
- EXIST. BELL ALIANT CONDUIT
- EXIST. NL POWER CONDUIT
- EXIST. CITY U/G ELECTRICAL
- EXIST. CONCRETE DUCT BANK
- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- EXIST. STORM (TO BE LINED)
- NEW WATERMAIN
- NEW SANITARY SEWER
- NEW STORM SEWER
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW FIRE HYDRANT

CONSULTANT

CBCL

STAMP

REGISTERED PROFESSIONAL ENGINEER
G. S. SHEPPARD
SIGNATURE
FEB 23, 2021
DATE
NEWFOUNDLAND & LABRADOR

21/02/23	ISSUED FOR TENDER	0
DATE	REVISION	NO.

PROJECT

CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE

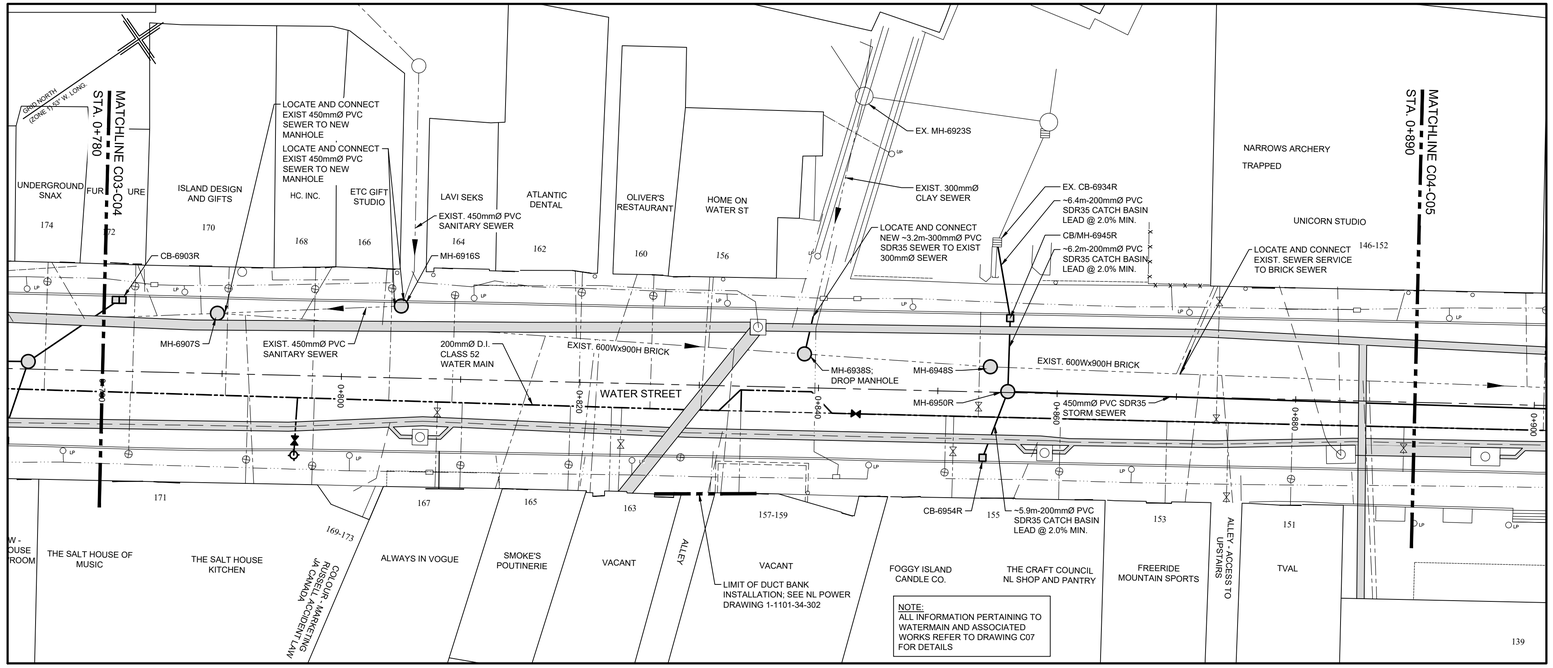
WATER STREET
PLAN AND PROFILE
STA. 0+680 TO STA. 0+780

AUTHORITY

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	DATE
AS NOTED	NOV 2020
DRAWN BY: JRB	SHEET: 3 OF 13
CHECKED BY: GES	DRAWING NUMBER: C03
APPROVED BY: GES	PROJECT NUMBER: 203039.00

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CBCL Limited
M.I.R.C GREG SHEPPARD #04245
Signature or Member Number (Member-in-Responsible Charge)

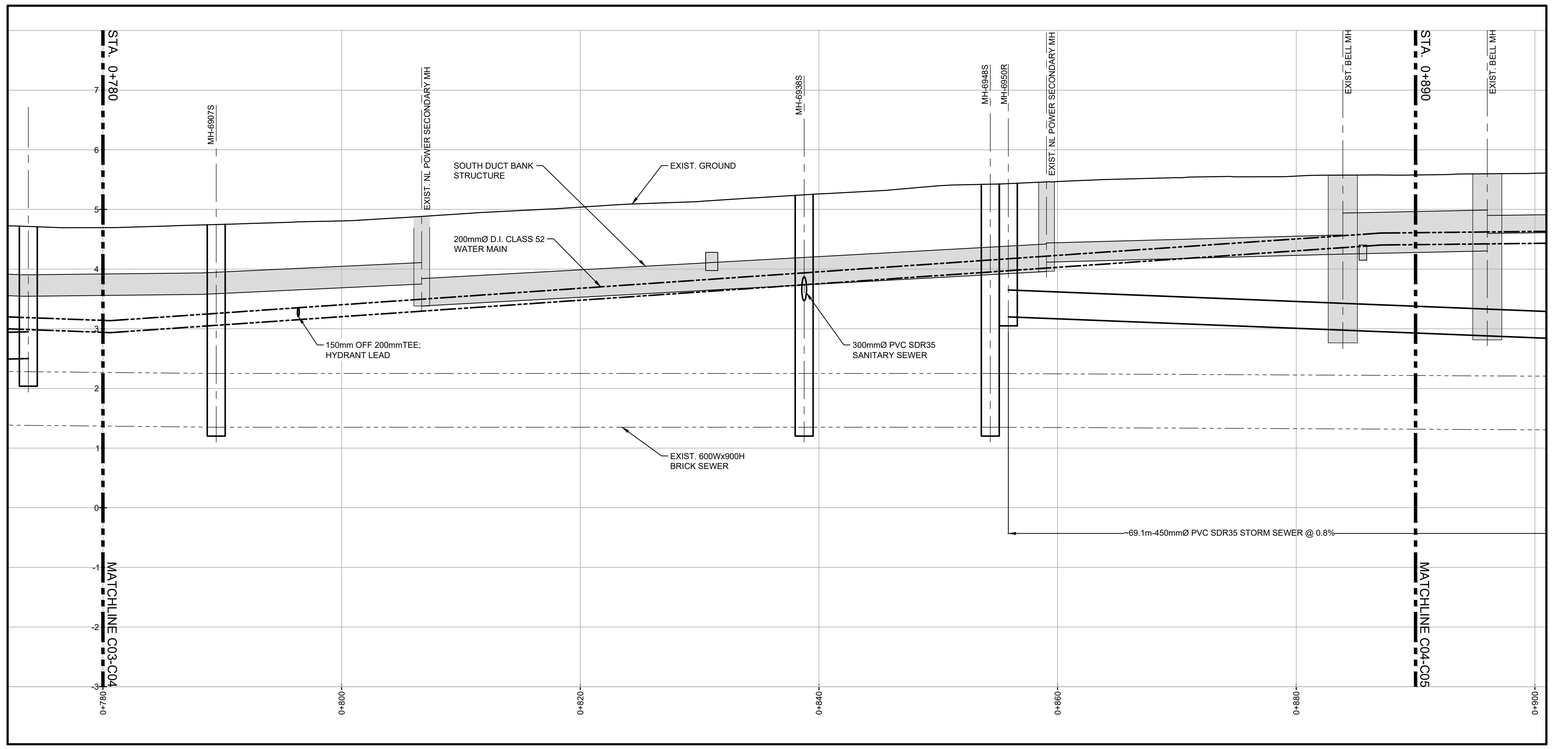


PLAN - STA. 0+780 TO STA. 0+890

1:250

0 5.0 10.0 15.0 20.0 25.0m

1:250



PROFILE - STA. 0+780 TO STA. 0+890

1:250 [H] 1:50 [V]

0 5.0 10.0 15.0 20.0 25.0m

1:250

0 1000 2000 3000 4000 5000mm

1:50

STORM SEWER TABLE

MANHOLE #	STATION	SIZE (mm)	TOP EL. (m)	INVERT IN			INVERT OUT		
				ELEV. (m)	FROM	DIA. (mm)	ELEV. (m)	TO	DIA. (mm)
MH-6950R	0+855.87	1200	5.46	-	-	-	3.20	MH-6991R	450
CB/MH-6945R	-	1200	5.40	-	-	-	COJ	MH-6950R	200

SANITARY SEWER TABLE

MANHOLE #	STATION	SIZE (mm)	TOP EL. (m)	INVERT IN			INVERT OUT		
				ELEV. (m)	FROM	DIA. (mm)	ELEV. (m)	TO	DIA. (mm)
MH-6907S	0+789.49	1500	4.54	1.35	MH-6867S	EX. BRICK	1.35	MH-6938S	EX. BRICK
				2.64	MH-6916S	EX. 450			
MH-6916S	0+804.89	1200	4.63	3.27	LANE	EX. 450	3.20	MH-6907S	EX. 450
MH-6938S	0+838.76	1500	5.28	1.35	MH-6907S	EX. BRICK	1.35	MH-6948S	EX. BRICK
				COJ	MH-6923S	300			
MH-6948S	0+854.37	1500	5.47	1.35	MH-6938S	EX. BRICK	1.35	MH-6998S	EX. BRICK

DO NOT SCALE FROM PRINT

NOTES

1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND

- EXIST. WATERMAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. COMBINED SEWER
- EXIST. BELL ALIANT CONDUIT
- EXIST. NL POWER CONDUIT
- EXIST. CITY U/G ELECTRICAL
- EXIST. CONCRETE DUCT BANK
- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- EXIST. STORM (TO BE LINED)
- NEW WATERMAIN
- NEW SANITARY SEWER
- NEW STORM SEWER
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW FIRE HYDRANT

CONSULTANT

CBCL

STAMP

REGISTERED PROFESSIONAL ENGINEER
G. E. SHEPPARD
SIGNATURE
FEB 23, 2021
DATE
NEWFOUNDLAND & LABRADOR

DATE	REVISION	NO.
21/02/23	ISSUED FOR TENDER	0

PROJECT

CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE

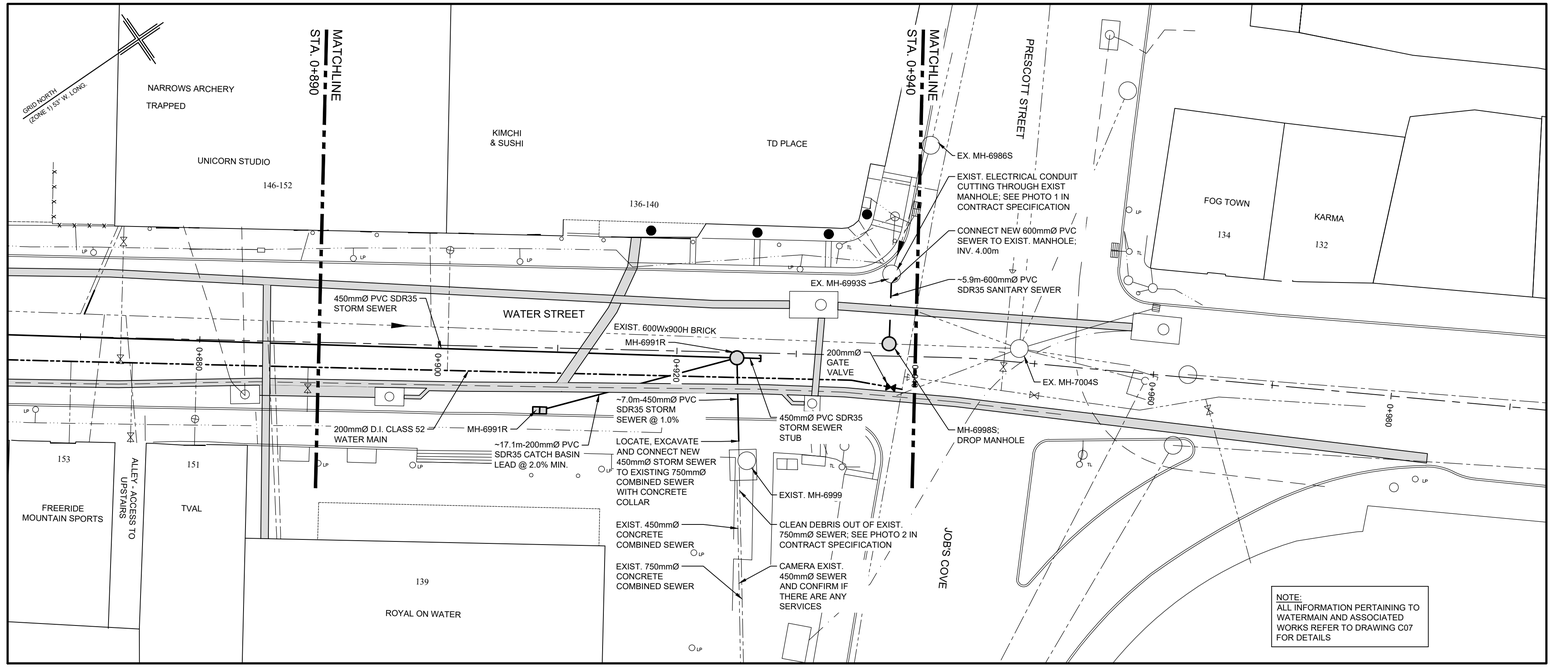
WATER STREET
PLAN AND PROFILE
STA. 0+780 TO STA. 0+890

AUTHORITY

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	DATE
AS NOTED	NOV 2020
DRAWN BY: JRB	SHEET: 4 OF 13
CHECKED BY: GES	DRAWING NUMBER: C04
APPROVED BY: GES	PROJECT NUMBER: 203039.00

PROVINCE OF NEWFOUNDLAND AND LABRADOR
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CBCL Limited
M.I.R.C GREG SHEPPARD #04245
Signature or Member Number (Member-in-Responsible Charge)

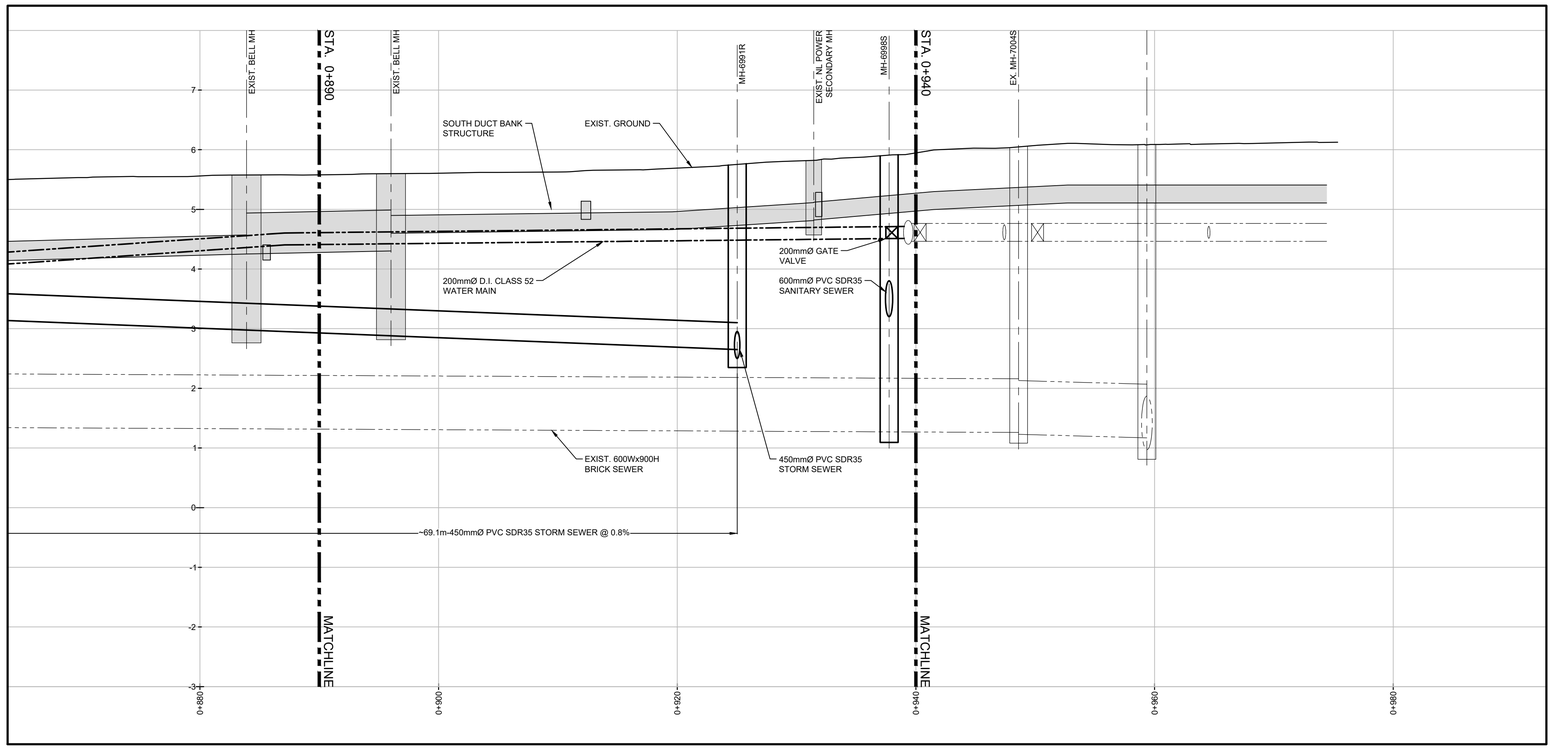


PLAN - STA. 0+890 TO STA. 0+940

1:250

0 5.0 10.0 15.0 20.0 25.0m

1:250



PROFILE - STA. 0+890 TO STA. 0+940

1:250 [H] 1:50 [V]

0 5.0 10.0 15.0 20.0 25.0m

1:250

0 1000 2000 3000 4000 5000mm

1:50

STORM SEWER TABLE

MANHOLE #	STATION	SIZE (mm)	TOP EL. (m)	INVERT IN			INVERT OUT		
				ELEV. (m)	FROM	DIA. (mm)	ELEV. (m)	TO	DIA. (mm)
MH-6991R	0+925.03	1200	5.73	2.65	6950R	450	2.50	EX. MH-6999	450
				2.60	STUB	450			

SANITARY SEWER TABLE

MANHOLE #	STATION	SIZE (mm)	TOP EL. (m)	INVERT IN			INVERT OUT		
				ELEV. (m)	FROM	DIA. (mm)	ELEV. (m)	TO	DIA. (mm)
MH-6998S	0+937.76	1500	5.97	1.27	MH-6948S	EX. BRICK	1.27	EX. MH-7004S	EX. BRICK
				COJ	MH-6993S	600			

DO NOT SCALE FROM PRINT

NOTES

1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND

- EXIST. WATERMAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. COMBINED SEWER
- EXIST. BELL ALIANT CONDUIT
- EXIST. NL POWER CONDUIT
- EXIST. CITY U/G ELECTRICAL
- EXIST. CONCRETE DUCT BANK
- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- EXIST. STORM (TO BE LINED)
- NEW WATERMAIN
- NEW SANITARY SEWER
- NEW STORM SEWER
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW FIRE HYDRANT

CONSULTANT

CBCL

STAMP

REGISTERED PROFESSIONAL ENGINEER
G. E. SHEPPARD
SIGNATURE
FEB 23, 2021
DATE
NEWFOUNDLAND & LABRADOR

NO.	REVISION	DATE
0	ISSUED FOR TENDER	21/02/23

PROJECT

CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE

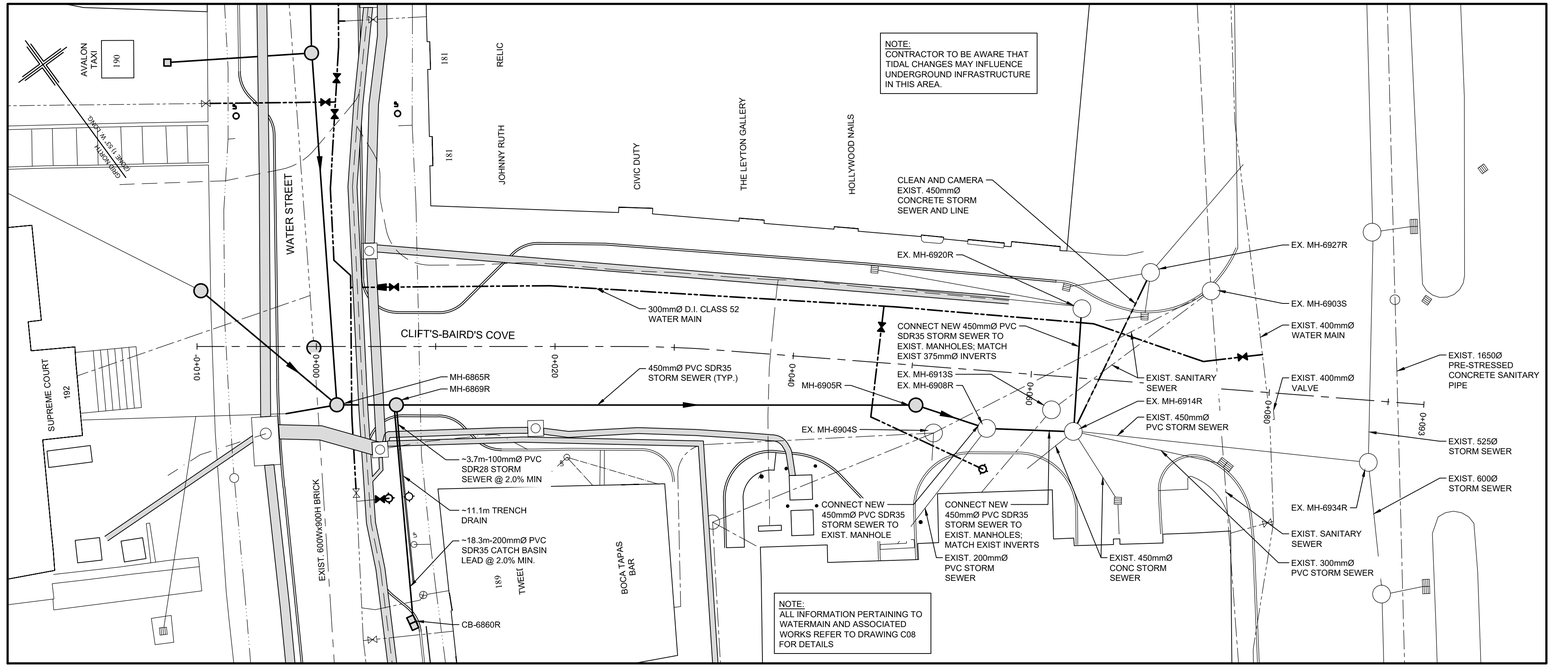
WATER STREET
PLAN AND PROFILE
STA. 0+890 TO STA. 0+940

AUTHORITY

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	DATE
AS NOTED	NOV 2020
DRAWN BY: JRB	SHEET: 5 OF 13
CHECKED BY: GES	DRAWING NUMBER: C05
APPROVED BY: GES	PROJECT NUMBER: 203039.00

PROVINCE OF NEWFOUNDLAND AND LABRADOR
pegnl
ENGINEERING PERMIT
D0178
CBCL Limited
M.I.R.C GREG SHEPPARD #04245
Signature or Member Number (Member-in-Responsible Charge)

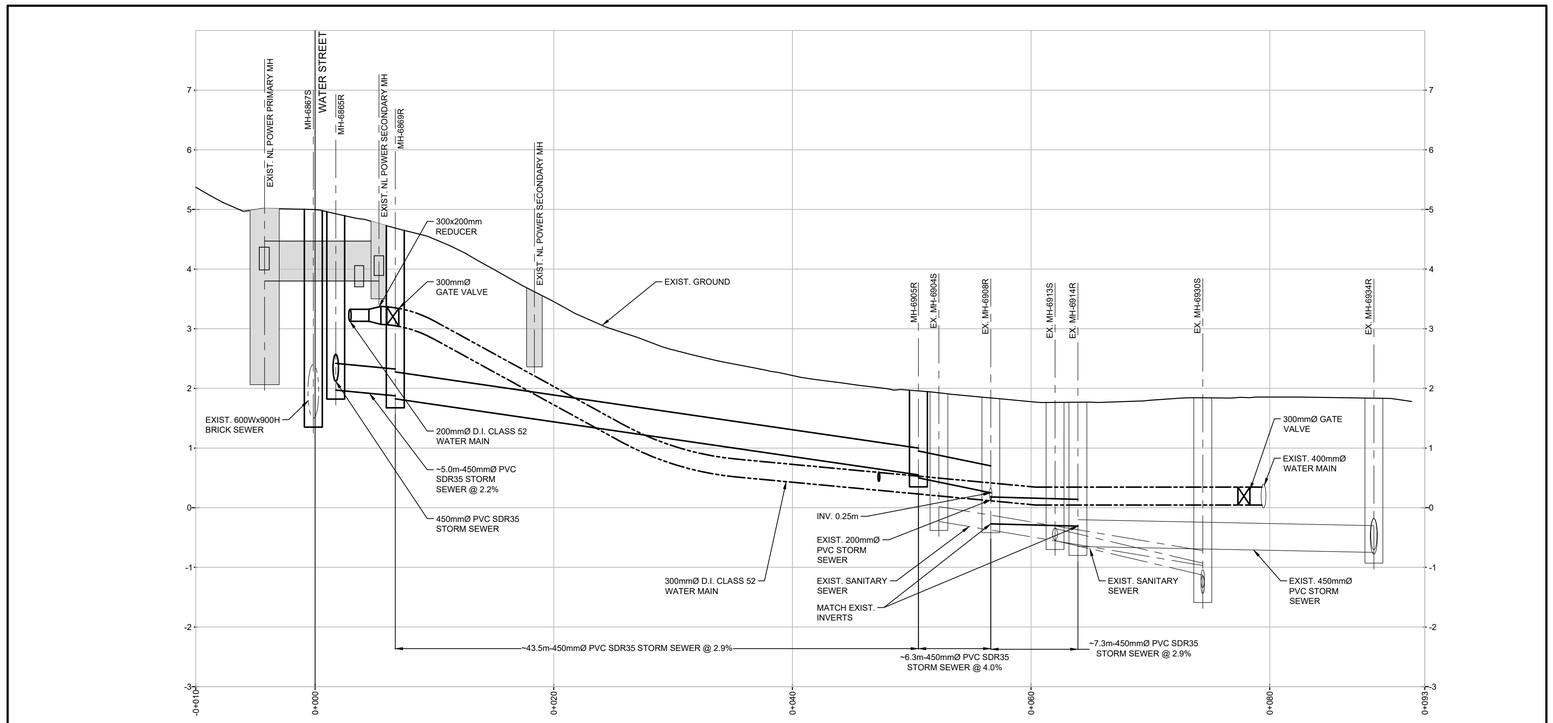


PLAN - CLIFT'S-BAIRD'S COVE

1:250

0 5.0 10.0 15.0 20.0 25.0m

1:250



PROFILE - CLIFT'S-BAIRD'S COVE

1:250 [H] 1:50 [V]

0 5.0 10.0 15.0 20.0 25.0m

1:250

0 1000 2000 3000 4000 5000mm

1:50

STORM SEWER TABLE

MANHOLE #	STATION	SIZE (mm)	TOP EL. (m)	INVERT IN			INVERT OUT		
				ELEV. (m)	FROM	DIA. (mm)	ELEV. (m)	TO	DIA. (mm)
MH-6905R	0+050.56	1200	1.92	0.55	MH-6869R	450	0.50	EX. MH-6908R	450
MH-6869R	0+006.92	1200	4.47	1.86	MH-6865R	450	1.81	EX. MH-6905R	450

DO NOT SCALE FROM PRINT

NOTES

1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND

- EXIST. WATERMAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. COMBINED SEWER
- EXIST. BELL ALIANT CONDUIT
- EXIST. NL POWER CONDUIT
- EXIST. CITY U/G ELECTRICAL
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- EXIST. STORM (TO BE LINED)
- NEW WATERMAIN
- NEW SANITARY SEWER
- NEW STORM SEWER
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW FIRE HYDRANT

CONSULTANT

CBCL

STAMP

REGISTERED PROFESSIONAL ENGINEER
G. E. SHEPPARD
SIGNATURE
FEB 23, 2021
DATE
NEWFOUNDLAND & LABRADOR

DATE	REVISION	NO.
21/02/23	ISSUED FOR TENDER	0

PROJECT

CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE

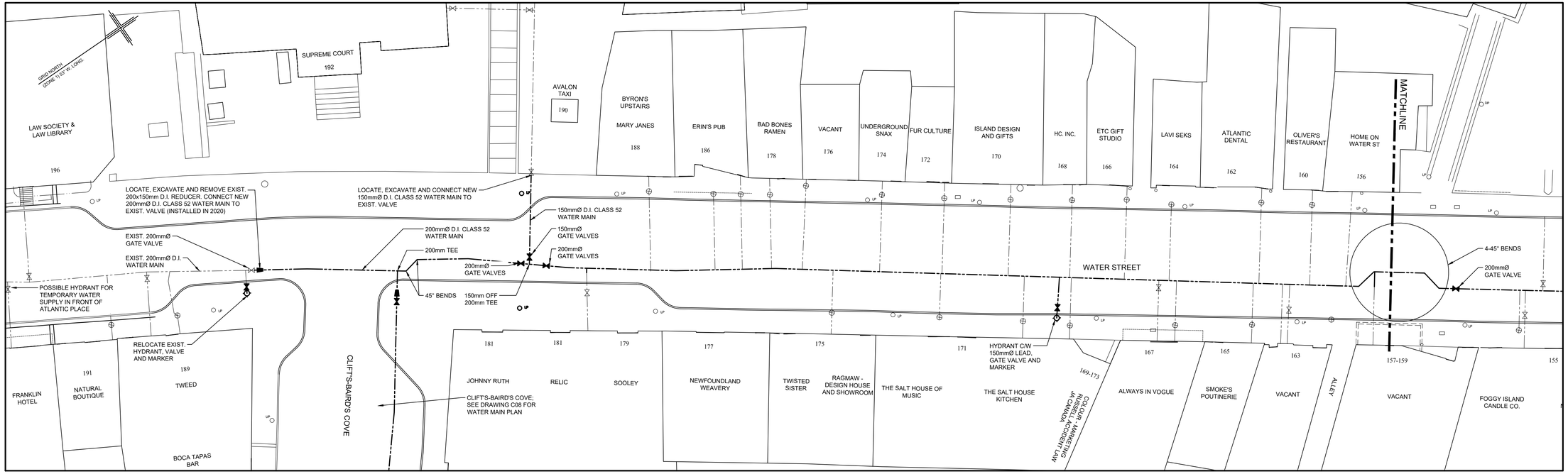
CLIFT'S-BAIRD'S COVE
PLAN AND PROFILE

AUTHORITY

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

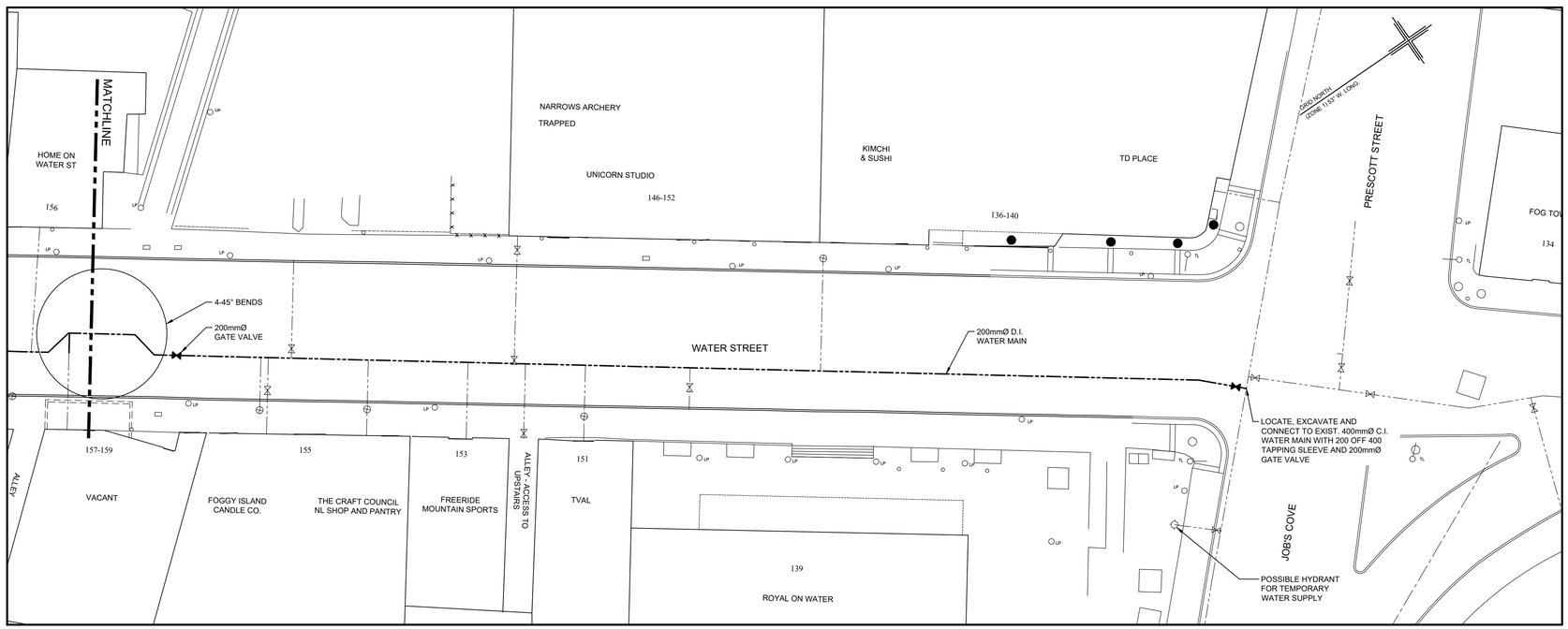
SCALE	DATE
AS NOTED	NOV 2020
DRAWN BY: JRB	SHEET: 6 OF 13
CHECKED BY: GES	DRAWING NUMBER: C06
APPROVED BY: GES	PROJECT NUMBER: 203039.00

PROVINCE OF NEWFOUNDLAND AND LABRADOR
ENGINEERING PERMIT
D0178
CBCL Limited
M.I.R.C GREG SHEPPARD #04245
Signature or Member Number (Member-in-Responsible Charge)



PLAN - CLIFT'S-BAIRD'S COVE TO JOB'S COVE
1:250

0 5.0 10.0 15.0 20.0 25.0m
1:250



PLAN - CLIFT'S-BAIRD'S COVE TO JOB'S COVE
1:250

0 5.0 10.0 15.0 20.0 25.0m
1:250

PROVINCE OF NEWFOUNDLAND AND LABRADOR
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D0178
CBCL Limited
M.I.R.C GREG SHEPPARD #04245
Signature or Member Number (Member-in-Responsible Charge)

DO NOT SCALE FROM PRINT

NOTES
1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND
- EXIST. WATERMAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. COMBINED SEWER
- EXIST. BELL ALIANT CONDUIT
- EXIST. NL POWER CONDUIT
- EXIST. CITY U/G ELECTRICAL
- EXIST. CONCRETE DUCT BANK
- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- EXIST. STORM (TO BE LINED)
- NEW WATERMAIN
- NEW SANITARY SEWER
- NEW STORM SEWER
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW FIRE HYDRANT

CONSULTANT
CBCL

STAMP
REGISTERED PROFESSIONAL ENGINEER
G. E. SHEPPARD
SIGNATURE
FEB 23, 2021
DATE
NEWFOUNDLAND & LABRADOR

DATE	REVISION	NO.
21/02/23	ISSUED FOR TENDER	0

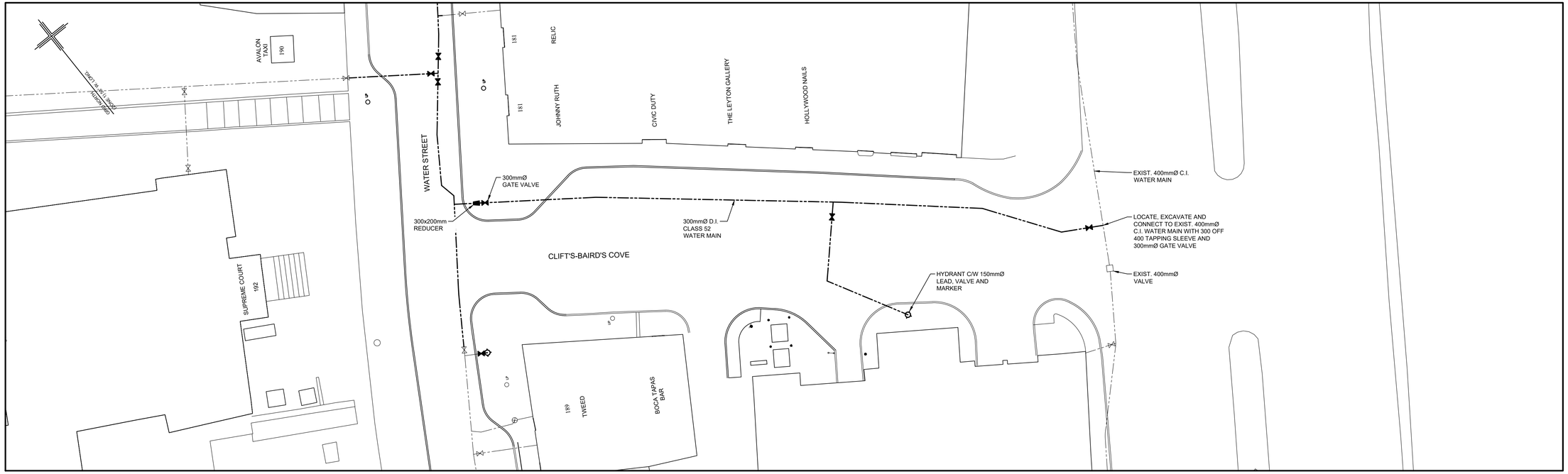
PROJECT
CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE
WATER MAIN PLAN
WATER STREET

AUTHORITY
ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	DATE
AS NOTED	JAN 2021
DRAWN BY: JRB	SHEET: 7 OF 13
CHECKED BY: GES	DRAWING NUMBER: C07
APPROVED BY: GES	PROJECT NUMBER: 203039.00



PLAN - CLIFT'S-BAIRD'S COVE

1:250

0 5.0 10.0 15.0 20.0 25.0m

1:250

DO NOT SCALE FROM PRINT

NOTES

1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND

- EXIST. WATERMAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. COMBINED SEWER
- EXIST. BELL ALIANT CONDUIT
- EXIST. NL POWER CONDUIT
- EXIST. CITY U/G ELECTRICAL
- EXIST. CONCRETE DUCT BANK
- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- EXIST. STORM (TO BE LINED)
- NEW WATERMAIN
- NEW SANITARY SEWER
- NEW STORM SEWER
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW FIRE HYDRANT

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REGISTERED PROFESSIONAL ENGINEERS
G. E. SHEPPARD
NEWFOUNDLAND & LABRADOR
FEB 23, 2021
DATE

DATE	REVISION	NO.
21/02/23	ISSUED FOR TENDER	0

PROJECT

CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE

WATER MAIN PLAN
CLIFT'S-BAIRD'S COVE

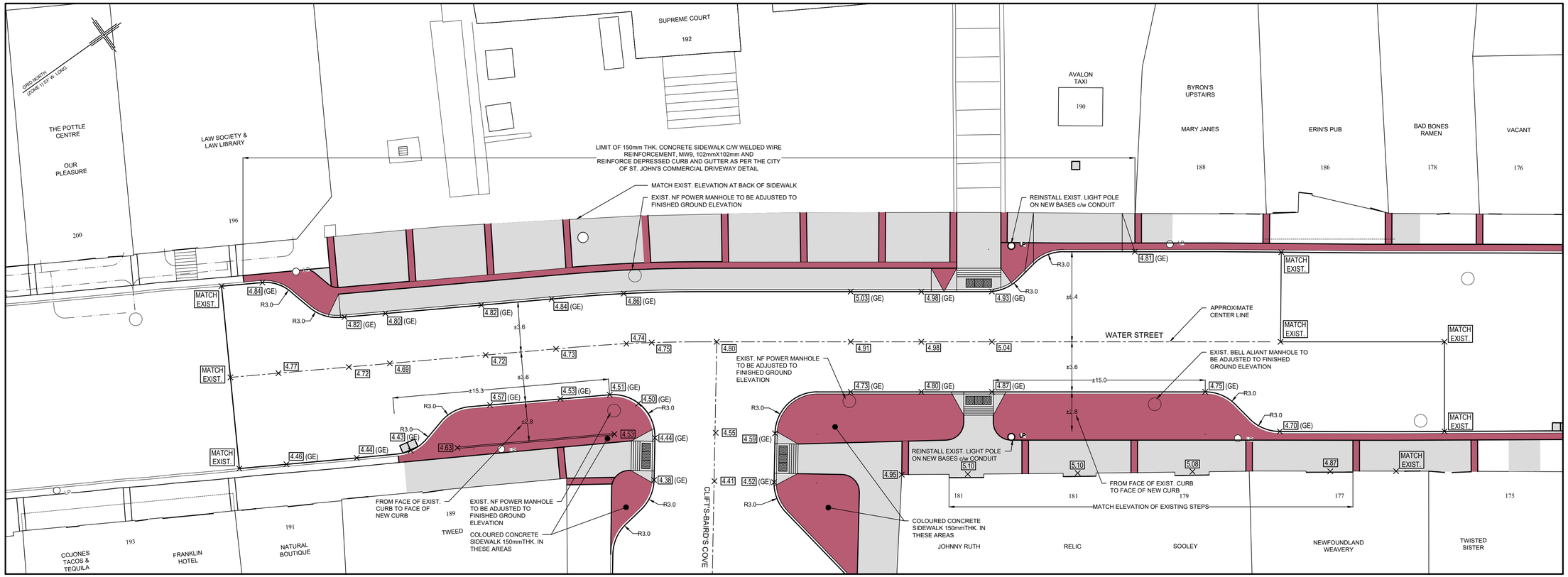
AUTHORITY

ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	DATE
AS NOTED	JAN 2021
DRAWN BY: JRB	SHEET: 8 OF 13
CHECKED BY: GES	DRAWING NUMBER: C08
APPROVED BY: GES	PROJECT NUMBER: 203039.00

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CBCL Limited

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Signature or Member Number (Member-in-Responsible Charge)

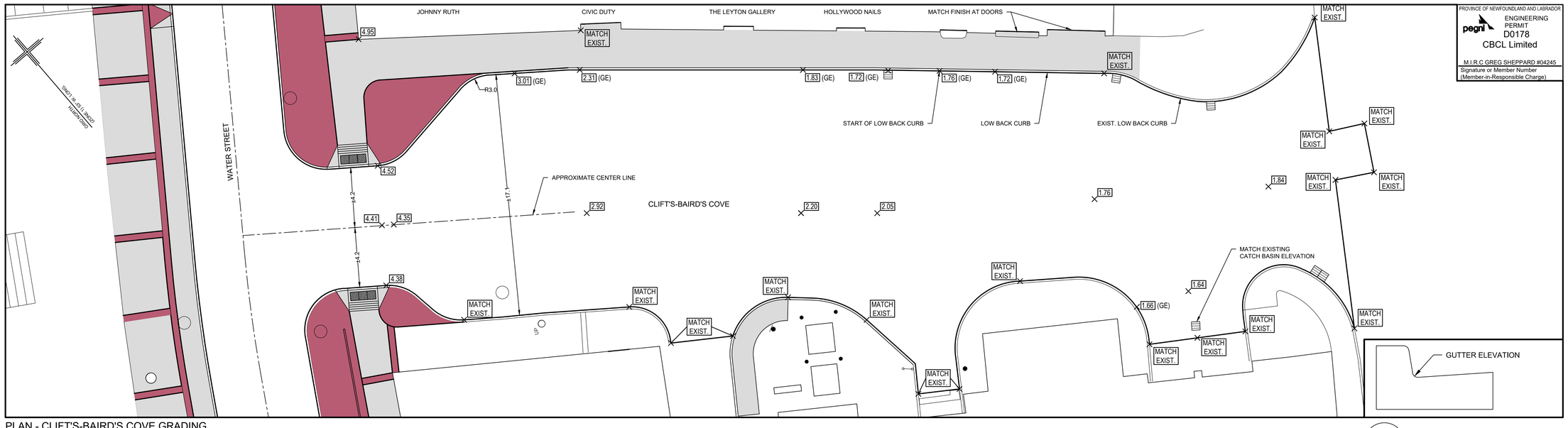


PLAN - CLIFT'S-BAIRD'S COVE INTERSECTION IMPROVEMENTS AND GRADING

1:150

0 3.0 6.0 9.0 12.0 15.0m

1:150



PLAN - CLIFT'S-BAIRD'S COVE GRADING

1:150

0 3.0 6.0 9.0 12.0 15.0m

1:150

1 / C09 GUTTER ELEVATION (TYP.)
N.T.S.

DO NOT SCALE FROM PRINT

NOTES

1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND

- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- TL EXIST. TRAFFIC LIGHT
- LP EXIST. LIGHT POLE
- EXISTING NL POWER MANHOLE
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW DAVIT TRAFFIC POLE BASE
- NEW TCM TRAFFIC POLE BASE
- 4.00 NEW SPOT ELEVATION
- 4.00 (GE) NEW SPOT ELEVATION - GUTTER ELEVATION
- NEW ASPHALT
- NEW CONCRETE SIDEWALK
- NEW COLOURED CONCRETE

CONSULTANT

CBCL

STAMP

REGISTERED PROFESSIONAL ENGINEERS
G. E. SHEPPARD
NEWFOUNDLAND & LABRADOR
FEB 23, 2021
DATE

NO.	REVISION	DATE
0	ISSUED FOR TENDER	21/02/23

PROVINCE OF NEWFOUNDLAND AND LABRADOR
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Signature or Member Number (Member-in-Responsible Charge)

PROJECT

CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

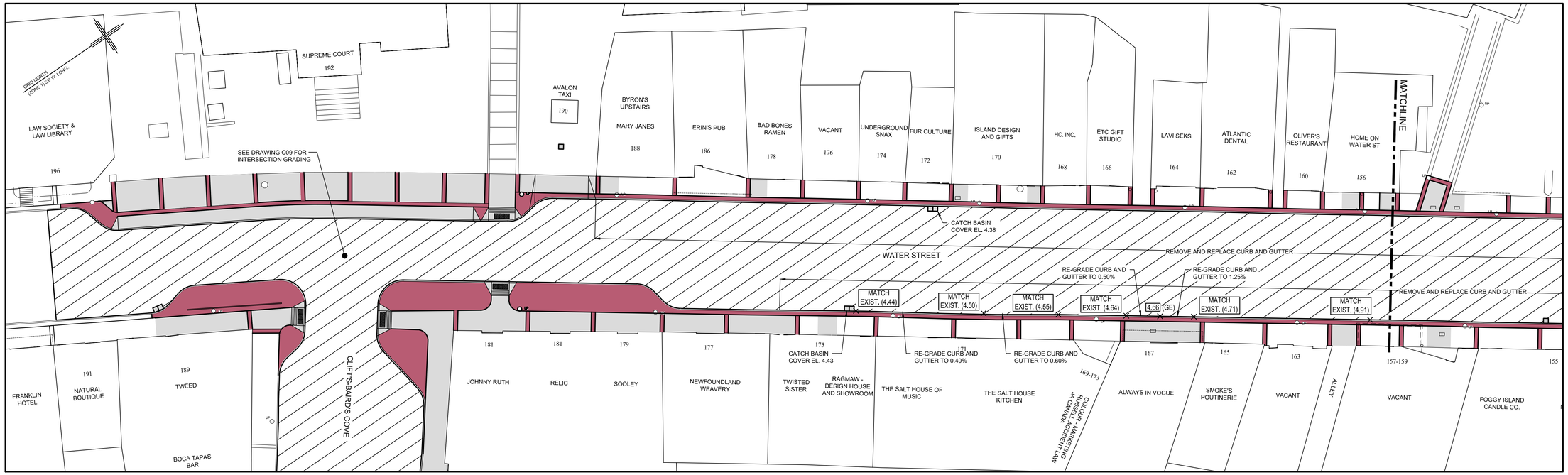
SHEET TITLE

CLIFT'S-BAIRD'S COVE INTERSECTION IMPROVEMENTS AND GRADING

AUTHORITY

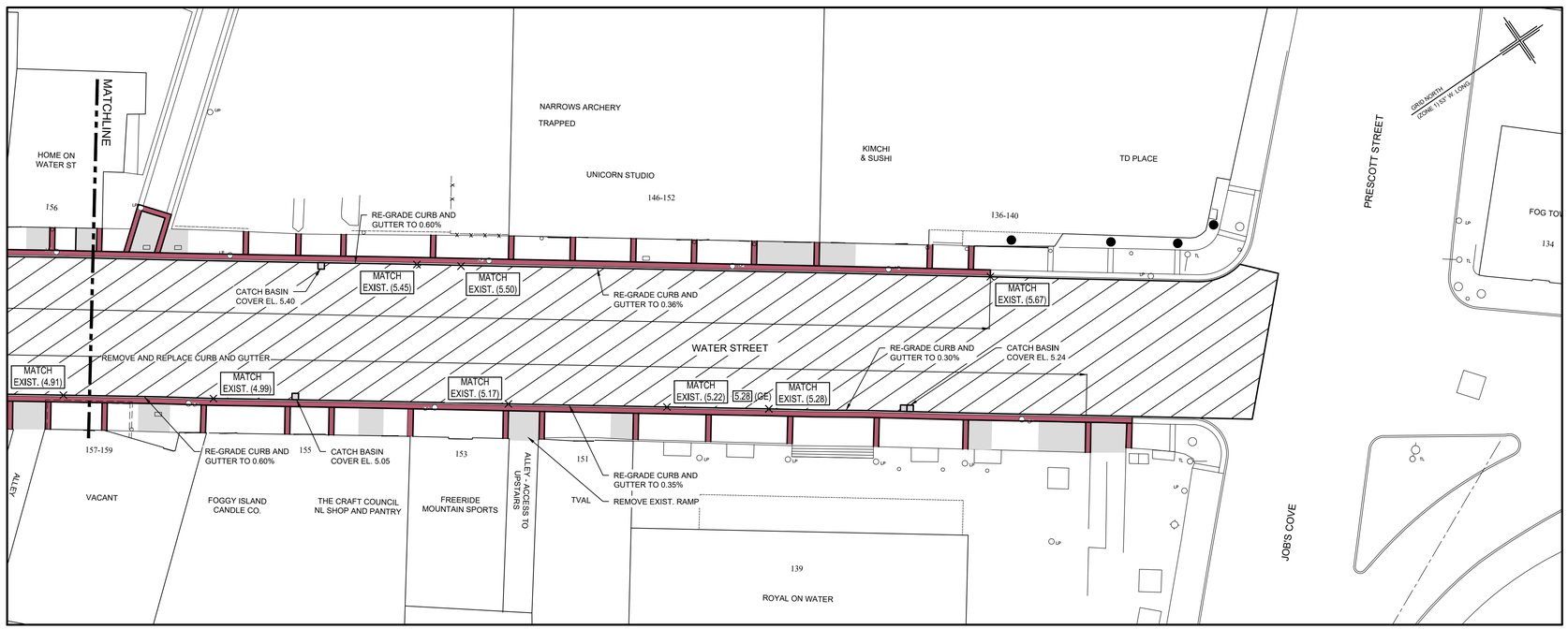
ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE: AS NOTED	DATE: JAN 2021
DRAWN BY: JRB	SHEET: 9 OF 13
CHECKED BY: GES	DRAWING NUMBER: C09
APPROVED BY: GES	PROJECT NUMBER: 203039.00



PLAN - CLIFT'S-BAIRD'S COVE TO JOB'S COVE
1:250

0 5.0 10.0 15.0 20.0 25.0m
1:250



PLAN - CLIFT'S-BAIRD'S COVE TO JOB'S COVE
1:250

0 5.0 10.0 15.0 20.0 25.0m
1:250

DO NOT SCALE FROM PRINT

NOTES
1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND

- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- TL EXIST. TRAFFIC LIGHT
- LP EXIST. LIGHT POLE
- EXISTING NL POWER MANHOLE
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW DAVIT TRAFFIC POLE BASE
- NEW TCM TRAFFIC POLE BASE
- 4.00 NEW SPOT ELEVATION
- 4.00 (GE) NEW SPOT ELEVATION - GUTTER ELEVATION
- NEW ASPHALT
- NEW CONCRETE SIDEWALK
- NEW COLOURED CONCRETE

CONSULTANT
CBCL

STAMP
REGISTERED PROFESSIONAL ENGINEER
G. S. SHEPPARD
SIGNATURE
FEB 23, 2021
DATE
NEWFOUNDLAND & LABRADOR

NO.	REVISION	DATE
0	ISSUED FOR TENDER	21/02/23

PROJECT
CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

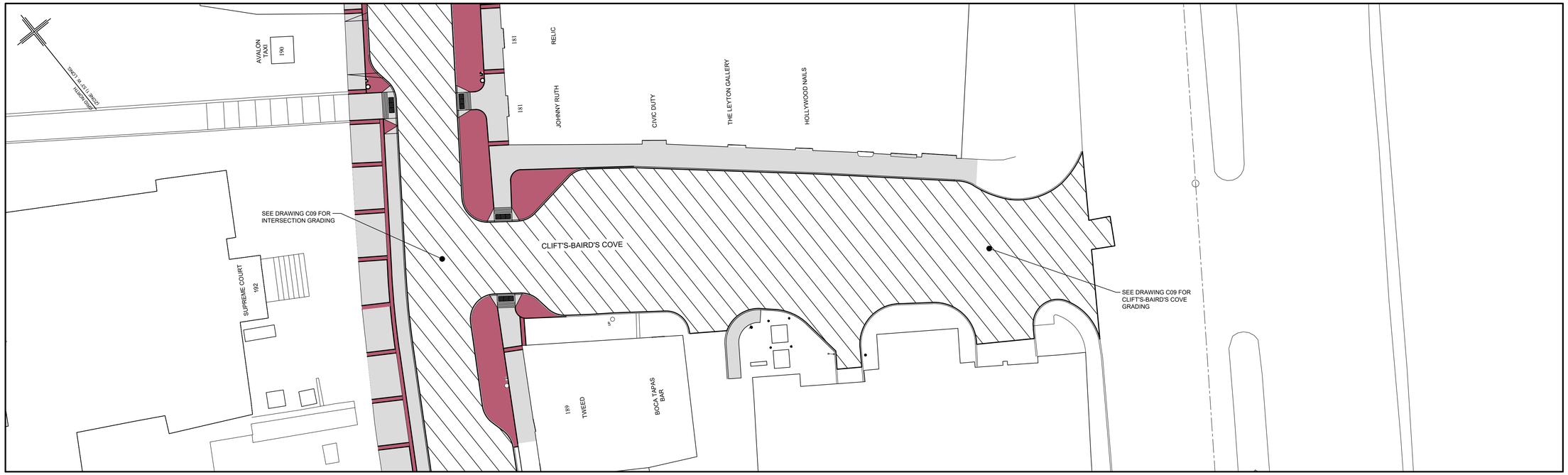
PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE
ASPHALT AND SIDEWALK REPLACEMENT WATER STREET

AUTHORITY
ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	AS NOTED
DATE	JAN 2021
DRAWN BY	JRB
SHEET	10 OF 13
CHECKED BY	GES
DRAWING NUMBER	C10
APPROVED BY	GES
PROJECT NUMBER	203039.00

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Signature or Member Number (Member-in-Responsible Charge)



PLAN - CLIFT'S-BAIRD'S COVE
1:250

0 5.0 10.0 15.0 20.0 25.0m
1:250

DO NOT SCALE FROM PRINT

NOTES
1. SEE DRAWING C01 FOR GENERAL NOTES.

LEGEND

- EXIST. MANHOLE
- EXIST. CATCH BASIN
- EXIST. FIRE HYDRANT
- EXIST. VALVE
- EXIST. CURB STOP
- TL EXIST. TRAFFIC LIGHT
- LP EXIST. LIGHT POLE
- EXISTING NL POWER MANHOLE
- NEW MANHOLE
- NEW SINGLE CATCH BASIN
- NEW DOUBLE CATCH BASIN
- NEW VALVE
- NEW DAVIT TRAFFIC POLE BASE
- NEW TCM TRAFFIC POLE BASE
- 4.00 NEW SPOT ELEVATION
- 4.00 (GE) NEW SPOT ELEVATION - GUTTER ELEVATION
- NEW ASPHALT
- NEW CONCRETE SIDEWALK
- NEW COLOURED CONCRETE

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REGISTERED
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DATE	REVISION	NO.
21/02/23	ISSUED FOR TENDER	0

PROJECT
CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

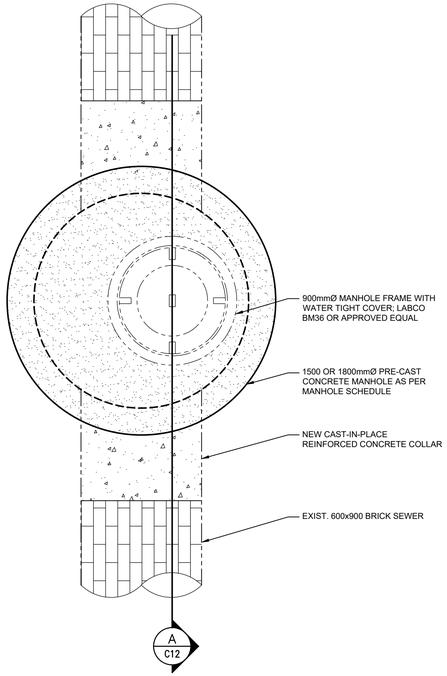
PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE
ASPHALT AND SIDEWALK REPLACEMENT
CLIFT'S-BAIRD'S COVE

AUTHORITY
ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

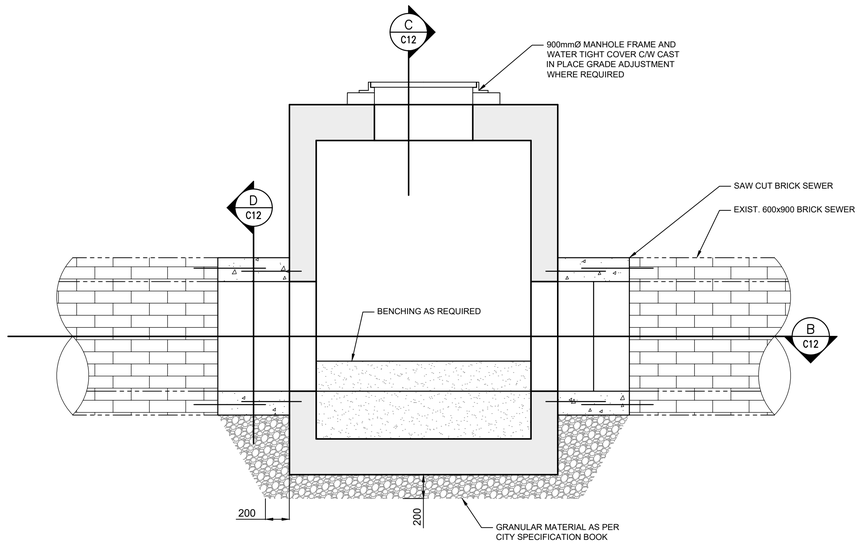
SCALE	DATE
AS NOTED	JAN 2021
DRAWN BY: JRB	SHEET: 11 OF 13
CHECKED BY: GES	DRAWING NUMBER: C11
APPROVED BY: GES	PROJECT NUMBER: 203039.00

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Signature or Member Number (Member-in-Responsible Charge)



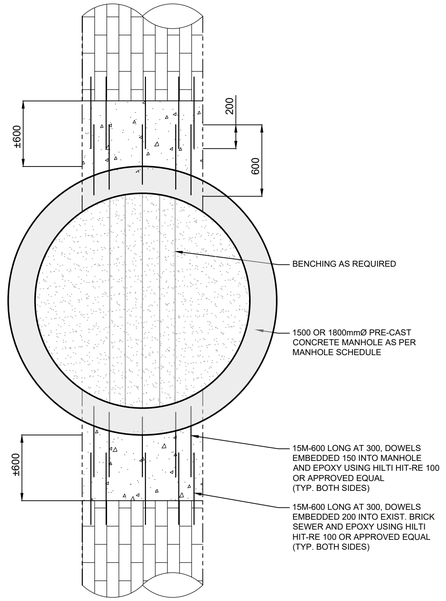
PLAN - PRE-CAST MANHOLE
1:25

0 500 1000 1500 2000 2500mm
1:25



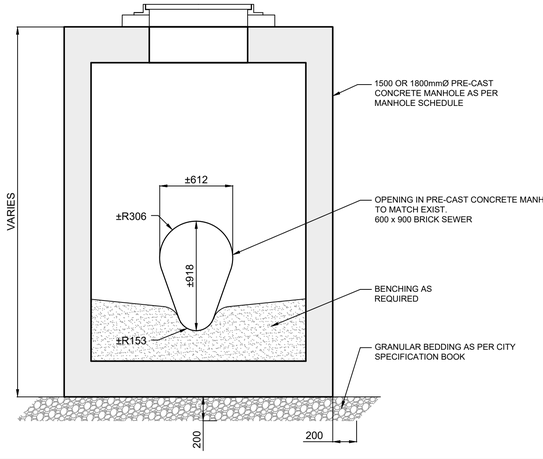
A C12 SECTION - PRE-CAST MANHOLE
1:25

0 500 1000 1500 2000 2500mm
1:25



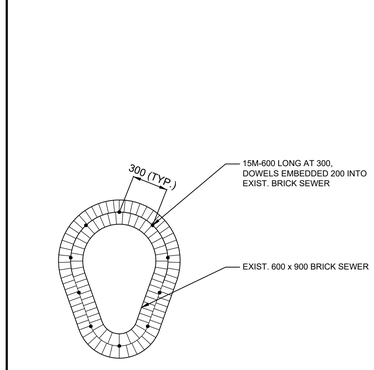
B C12 SECTION - PRE-CAST MANHOLE
1:25

0 500 1000 1500 2000 2500mm
1:25



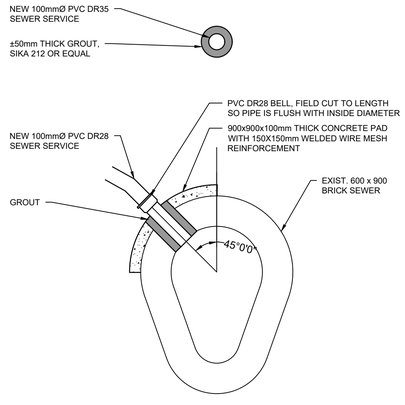
C C12 SECTION - PRE-CAST MANHOLE
1:25

0 500 1000 1500 2000 2500mm
1:25



D C12 SECTION - TYPICAL BRICK SEWER REINFORCING
1:25

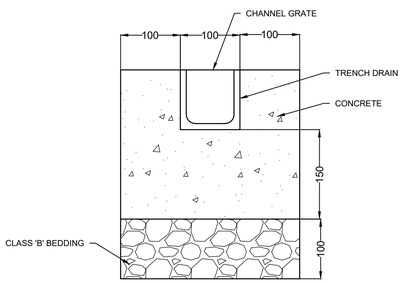
0 500 1000 1500 2000 2500mm
1:25



1 C12 DETAIL - TYPICAL SERVICE CONNECTION TO BRICK SEWER
1:20

0 400 800 1200 1600 2000mm
1:20

TRENCH DRAIN NOTES:
1. TRENCH DRAIN TO BE FILCOTEN INFRA WITH 4mm GALVANIZED STEEL ANGLES INCLUDING THE FOLLOWING ACCESSORY COMPONENTS:
   - SIZE: 100mm
   - CHANNEL GRATE, CAST IRON, CLASS C, ADA COMPLIANT
   - VERTICAL CHANNEL OUTLET
   - VANDEL-PROOF LOCKS (ONE PER METRE)
   - CHANNEL END PLATES
2. TRENCH DRAIN TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



2 C12 DETAIL -TRENCH DRAIN
1:5

0 100 200 300 400 500mm
1:5

DO NOT SCALE FROM PRINT

NOTES
1. SEE DRAWING C01 FOR GENERAL NOTES.
2. FEASIBILITY OF INSTALLING DOWELS IN EXISTING 600 x 900 BRICK SEWER WILL BE ASSESSED ON SITE BY DRILLING ONE TEST HOLE IN SEWER AND EVALUATING CONDITION OF SEWER AROUND TEST HOLE. ENGINEER WILL DECIDE ON WHETHER TO PROCEED WITH INSTALLATION OF DOWELS.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND AND LABRADOR
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D0178
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Signature or Member Number (Member-in-Responsible Charge)

CONSULTANT
CBCL

STAMP
REGISTERED PROFESSIONAL ENGINEER
G. E. SHEPPARD
FEB 23, 2021
NEWFOUNDLAND & LABRADOR

NO.	REVISION	DATE
0	ISSUED FOR TENDER	21/02/23

PROJECT
CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS
PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE
DETAILS

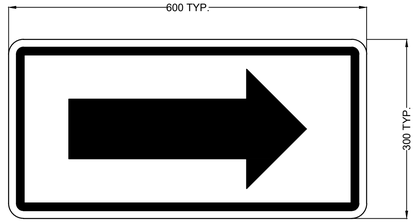
AUTHORITY
ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE: AS NOTED	DATE: NOV 2020
DRAWN BY: JRB	SHEET: 12 OF 13
CHECKED BY: GES	DRAWING NUMBER: C12
APPROVED BY: GES	PROJECT NUMBER: 203039.00





SIGN NOTES:
1. SIGNS TO BE ALUMINUM 0.081m THK. WITH 3M HIGH INTENSITY GRADE AS PER CITY OF ST. JOHN'S SPECIFICATION.
2. SIGNS TO HAVE ORANGE BACKGROUND AND BLACK LETTERING.



1 / C13 DETAIL - PEDESTRIAN TRAFFIC SIGNS
1:5

0 100 200 300 400 500mm
1:5

DO NOT SCALE FROM PRINT

NOTES
1. SEE DRAWING C01 FOR GENERAL NOTES.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

CONSULTANT
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G. E. SHEPPARD
NEWFOUNDLAND & LABRADOR
FEB 23, 2021
DATE

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21/02/23	ISSUED FOR TENDER	0

PROJECT
CITY OF ST. JOHN'S
WATER STREET INFRASTRUCTURE IMPROVEMENTS

PHASE IV: CLIFT'S-BAIRD'S COVE TO JOB'S COVE

SHEET TITLE
DETAILS

AUTHORITY
ST. JOHN'S
DEPARTMENT OF PLANNING, ENGINEERING AND REGULATORY SERVICES

SCALE	DATE
AS NOTED	NOV 2020
DRAWN BY: JRB	SHEET: 13 OF 13
CHECKED BY: GES	DRAWING NUMBER: C13
APPROVED BY: GES	PROJECT NUMBER: 203039.00

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