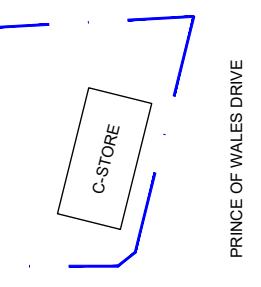
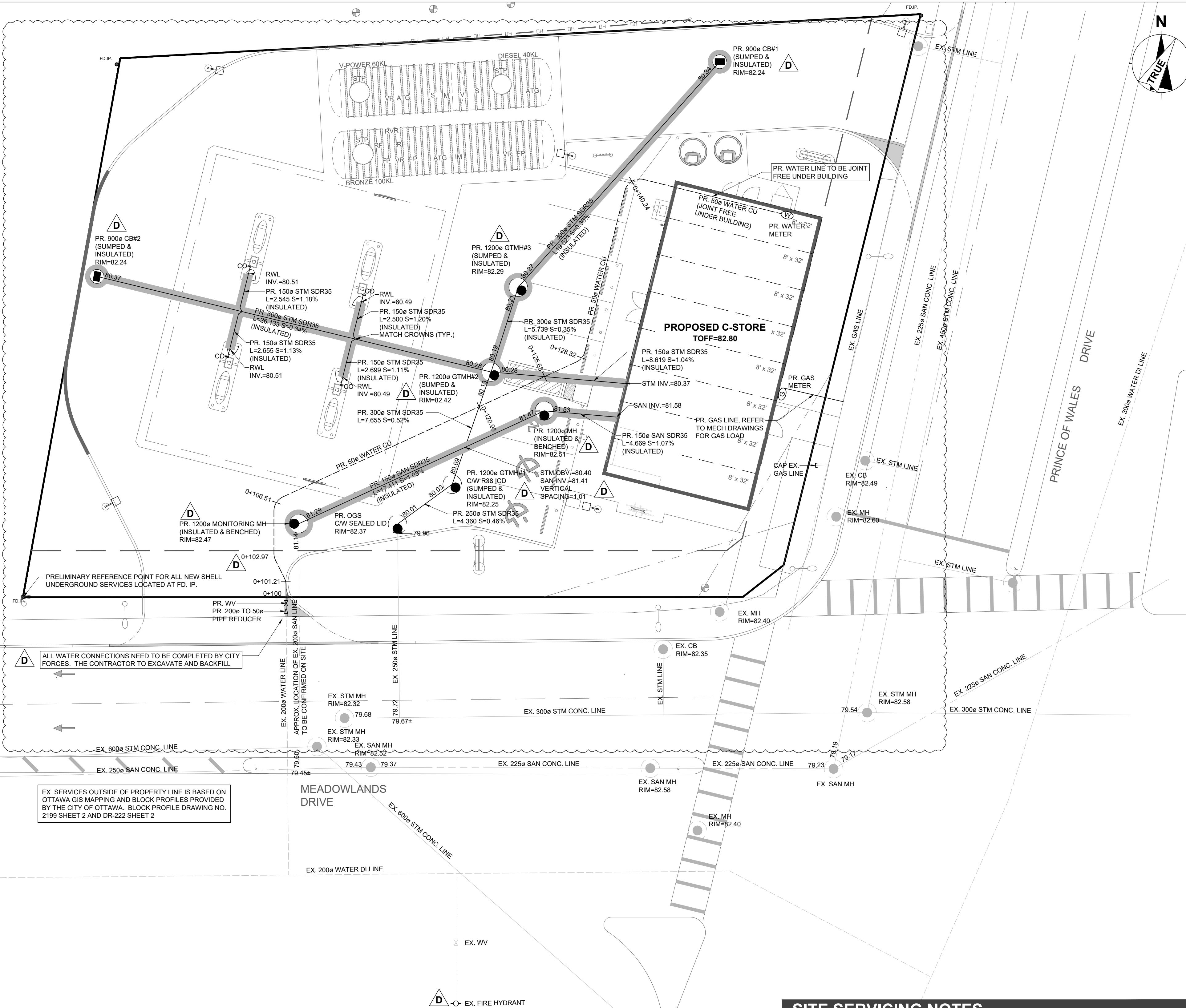


D	2025-05-01	ISSUED FOR SPC - PHASE 3
C	2024-12-03	ISSUED FOR SPC - PHASE 3
B	2024-11-27	ISSUED FOR CLIENT REVIEW (SPC COMMENTS)
A	2024-08-01	ISSUED FOR SPC-PHASE 3
I/R	DATE	DESCRIPTION



This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties except as agreed by AECOM and its client, as is required by law or for use by governmental reviewing agencies. AECOM accepts no responsibility and denies any liability whatsoever, to any party that modifies this drawing without AECOM's express written consent. Do not sell this document. All measurements must be obtained from site.



1 SITE SERVICING PLAN

0 4 8 m

SERVICE LOCATIONS

ITEMS	NORTH	EAST
STORM		
OGS	4.668	24.145
GTMH#1	7.254	27.630
GTMH#2	14.486	30.134
GTMH#3	19.955	31.682
CB#1	34.486	44.864
CB#2	20.649	4.738
SANITARY		
MONITORING MH	4.709	17.745
MH	11.983	33.564

ALL NEW UNDERGROUND SERVICES ARE BASED OFF OF THE REFERENCE MARK LOCATED AT THE SOUTHWEST CORNER OF SITE AT THE FD.IP. AND THE PLAN NORTH

PROPOSED 50mmØ WATERMAIN TABLE (P/L TO C-STORE)							
STATION	SURFACE ELEVATION	TWW ELEVATION	DEPTH OF COVER	SANITARY INVERT	STORM INVERT	DIFFERENCE	COMMENTS
0+100	82.40	79.40	3.000	-	-	-	CONNECTION AT P/L
0+101.21	82.43	79.40	3.030	-	-	-	22.5° HORIZONTAL BEND
0+102.97	82.50	79.40	3.100	-	-	-	22.5° HORIZONTAL BEND
0+106.51	82.52	79.40	3.120	-	-	-	45° HORIZONTAL BEND
0+120.98	82.36	79.40	2.960	-	80.11	0.711	300mm STORM LINE CROSSING, WATER LINE CROSSING UNDER PIPE
0+125.63	82.54	79.40	3.140	-	80.32	0.920	150mm STORM LINE CROSSING, WATER LINE CROSSING UNDER PIPE
0+128.32	82.53	79.40	3.130	-	-	-	45° HORIZONTAL BEND
0+140.24	82.74	79.40	3.340	-	-	-	90° HORIZONTAL BEND

SITE SERVICING NOTES

INSPECTIONS BY CONSULTING ENGINEERS

1. THE ENGINEER WILL INSPECT ALL UNDERGROUND MECHANICAL UTILITIES PRIOR TO COVERING.
2. SPECIFIC ITEMS OF INSPECTION WILL INCLUDE THE VISUAL INSPECTION OF THE FOLLOWING ITEMS PRIOR TO AND DURING ITS INSTALLATION BY THE CONTRACTOR.
 - FLOW CONTROL DEVICE (ICD)
 - OIL/GRIT SEPARATOR (OGS)
 - TRENCH CONSTRUCTION, AND BACK FILL
 - PIPE MATERIALS, BEDDING, SLOPE, STRAIGHTNESS AND CONNECTIONS.
 - MH AND CB COVERS FOR FLUSH TO GRADE.
 - PIPES FOR CLEANLINESS AND NO DEBRIS IN CB OR MH'S.
 - ROUGH GRADE CHECK WITH EVIDENCE OF PONDING OR WATER FLOW PATTERN.
3. THE CONTRACTOR SHALL CONTACT THE ENGINEER WITH MINIMUM 48 HOURS NOTICE TO ADVISE THAT UNDERGROUND MECHANICAL UTILITIES WILL BE READY FOR INSPECTION.
4. FAILURE BY THE CONTRACTOR TO NOTIFY THE CONSULTANT ENGINEER OF DUE INSPECTIONS WILL RESULT IN THE CONTRACTOR RE-EXPOSING THE BURIED OR CONCEALED SERVICES THAT THE ENGINEER HAS NOT APPROVED AT THE CONTRACTOR'S OWN EXPENSE, FOR THE ENGINEER TO INSPECT AND APPROVE SAID WORKS. RE INSTALLING THE INSPECTED WORKS SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. IN THE EVENT THAT THE ENGINEER INDICATES THAT THEY WILL NOT BE PERFORMING AN INSPECTION, THE CONTRACTOR SHALL TAKE REPRESENTATIVE PHOTOGRAPHS OF ALL ASPECTS OF THE WORK THAT THE ENGINEER WAS TO INSPECT, AND PROVIDE DIGITAL FILES OF THE PHOTOGRAPHS TO THE ENGINEER.

LEGEND

MANHOLE 1200	MH
GRATED TOP MANHOLE 1200s	GTMH
CATCH BASIN 900s	CB
OIL/GRIT SEPARATOR	OGS
RAIN WATER LEADER	RWL
WATER VALVE	WV
GAS METER	GM
WATER METER	WM
CLEANOUT	CO
NEW WATER LINE	NEW
EXISTING WATER LINE	EXIST
NEW STORM LINE	NEW
EXISTING STORM LINE	EXIST
NEW SANITARY LINE	NEW
EXISTING SANITARY LINE	EXIST
NEW GAS LINE	NEW
EXISTING GAS LINE	EXIST
PIPE INSULATION	INSULATION

SITE SERVICING NOTES

GENERAL NOTES

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INVERTS AND ELEVATIONS USED IN THE CONSTRUCTION OF THIS SITE. DISCREPANCIES MUST BE REPORTED TO THE CONSULTING ENGINEER PRIOR TO ORDERING PRE-MANUFACTURED STORM, SANITARY AND WATER FIXTURES AND FITTINGS.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. GAS, HYDRO, TELEPHONE, OR ANY OTHER UTILITY THAT MAY EXIST ON THE SITE OR WITHIN THE STREET LINES MUST BE LOCATED BY THE RESPECTIVE UTILITY AND VERIFIED PRIOR TO CONSTRUCTION. SHOULD SUBSTANTIAL DISCREPANCIES BECOME APPARENT, CONTACT THE CONSULTING ENGINEER.
3. THIS SITE PLAN WAS CREATED FROM AN SURVEY PROVIDED BY 'GEOVERA' PERFORMED ON SEPTEMBER 11, 2020, DWG. NO. 22-02471-001-T03. ELEVATIONS ARE ORTHOMETRIC AND REFERRED TO THE CVD-1928-1978 VERTICAL DATUM, BEING DERIVED FROM THE VERTICAL BENCHMARK 0082148154 HAVING A PUBLISHED ELEVATION OF 183.195 m.
4. ALL WORK TO BE COMPLETED ON SITE TO BE COMPLETED IN ACCORDANCE WITH ALL LOCAL BY-LAW STANDARDS AND ACTS.
5. PROVIDE FROST PROTECTION WITH DOW HI LOAD 40 FOR ALL SEWER LINES TO PROPERTY LINE IN ACCORDANCE WITH FROST PROTECTION DETAIL.
6. ALL MATERIALS TO BE NEW, CSA APPROVED & CONFORM TO CITY OF OTTAWA STANDARDS.

SANITARY SEWERS

1. ALL SANITARY SEWERS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
2. ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC AND CERTIFIED TO CAN/CSA B181.2-M OR B182.2-M. 150ø TYPE PSM PIPE SHALL BE SDR 35. GASKETS SHALL BE STANDARD MANUFACTURER SUPPLIED MATERIAL.
3. SEWER BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
4. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND BE EQUIPPED WITH FRAMES AND SOLID COVERS. SEAL AROUND PIPES ENTERING MANHOLES WITH FLEXIBLE SEALANT. SEAL ALL BARREL JOINTS WITH SEALANT AT TIME OF INSTALLATION. MINIMUM MANHOLE SIZE SHALL BE 1200ø. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR FINAL MANHOLE DIAMETER, IN ACCORDANCE WITH PIPE SIZES ENTERING AND LEAVING AND INVERTS.

STORM SEWERS

1. ALL STORM SEWERS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
2. STORM SEWER PIPE AND FITTINGS SHALL BE PVC AND CERTIFIED TO CAN/CSA B181.2, B182.2, OR B182.4. 150ø AND LARGER TYPE PSM PIPE SHALL BE SDR35. GASKETS SHALL BE NITRILE, VITON, OR OTHER PETROLEUM-RESISTANT MATERIAL.
3. SEWER BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
4. MANHOLE/GRATED TOP MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND BE EQUIPPED WITH FRAMES AND SOLID COVERS. SEAL AROUND PIPES ENTERING MANHOLES WITH FLEXIBLE SEALANT. SEAL ALL BARREL JOINTS WITH PETROLEUM-RESISTANT FLEXIBLE SEALANT AND CEMENT GROUT INSIDE AND OUTSIDE OF MANHOLE PENETRATION. SEAL ALL BARREL JOINTS WITH PETROLEUM-RESISTANT SEALANT AT TIME OF INSTALLATION. MINIMUM MANHOLE SIZE SHALL BE 1200ø. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR FINAL MANHOLE DIAMETER, IN ACCORDANCE WITH PIPE SIZES ENTERING AND LEAVING AND INVERTS.
5. CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND BE EQUIPPED WITH FRAMES AND GRATES. SEAL AROUND LEAD PIPES WITH PETROLEUM-RESISTANT FLEXIBLE SEALANT AND CEMENT GROUT INSIDE AND OUTSIDE OF CATCHBASIN PENETRATION. SEAL ALL BARREL JOINTS WITH PETROLEUM-RESISTANT SEALANT AT TIME OF INSTALLATION. MINIMUM CATCH BASIN SIZE SHALL BE 900ø. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR FINAL CATCH BASIN DIAMETER.
6. ALL CATCH BASINS WITHIN 6 METRES OF A DISPENSING ISLAND SHALL BE BENCHING IN ACCORDANCE WITH LOCAL STANDARDS, AND WEPP HOLES SHALL BE SEALED. ALL OTHER CATCH BASINS SHALL BE PROVIDED WITH MINIMUM 500 DEEP SUMPS.
7. OGS, OIL/GRIT SEPARATOR, STORMCEPTOR MODEL EFO4.
8. ICD = INLET CONSTRUCTION DEVICE AND SHALL BE FITTED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SHALL HAVE A 76ø HOLE (R38) AND 0 WIDE X 0 DEEP SLOT.

WATER LINES

1. ALL WATER LINES AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
2. WATER LINE SYSTEM SHALL BE SUITABLE FOR 1000 KPA DESIGN PRESSURE.
3. WATER MAINS 50ø AND SMALLER TO BE SOFT COPPER TYPE 'K'.
4. WATER LINES AND SERVICE CONNECTION SHALL BE BEDDED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
5. WATER SERVICE CONNECTION DETAIL SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
6. CLEAR COVER OVER ALL WATER LINES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS BUT NOT LESS THAN 3000.
7. WATER SERVICE UNDER BUILDINGS SHALL BE JOINT-FREE.

GAS LINES

1. GAS PIPING SHALL BE EITHER STEEL OR PLASTIC.
2. STEEL GAS PIPING SHALL COMPLY WITH ASTM A53 GR A OR A106, AND USE ANSI/ASME B16.3 MALLEABLE IRON FITTINGS. STEEL PIPE AND FITTINGS SHALL BE COATED WITH AN ASPHALT COATING AND COVERED WITH A HDPE JACKET.
3. PLASTIC PIPING SHALL BE MDPE SDR 11 COMPLYING WITH CAN/CSA-B137.4.

Kelby Lodoen Unseth
KELBY LODOEN UNSETH
PLANNER
PLANNING, DEVELOPMENT AND BUILDING SERVICES
DEPARTMENT, CITY OF OTTAWA