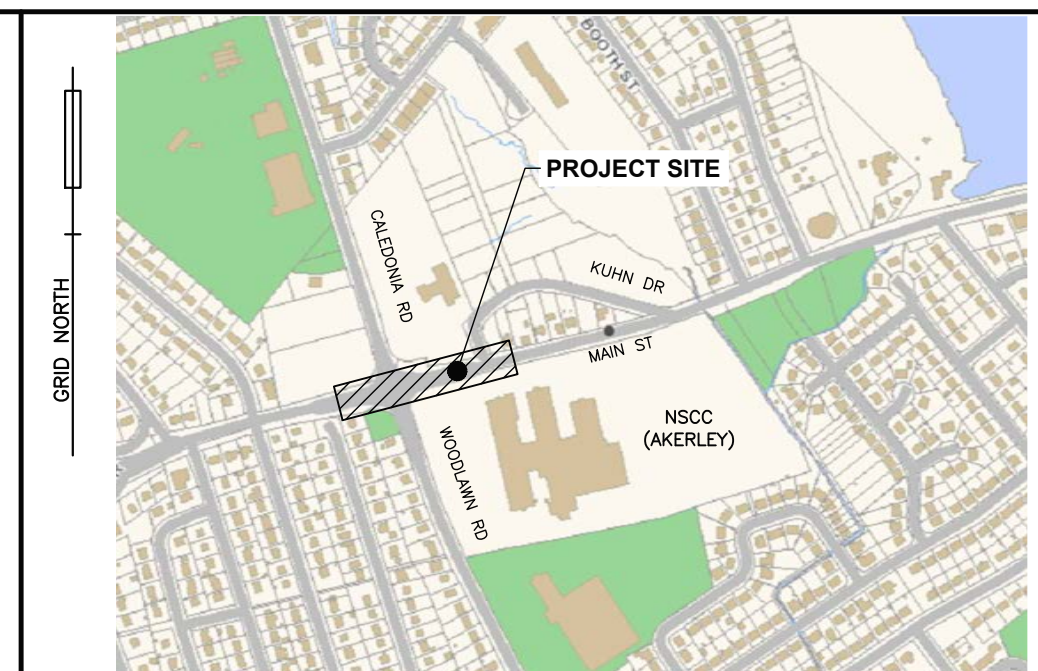
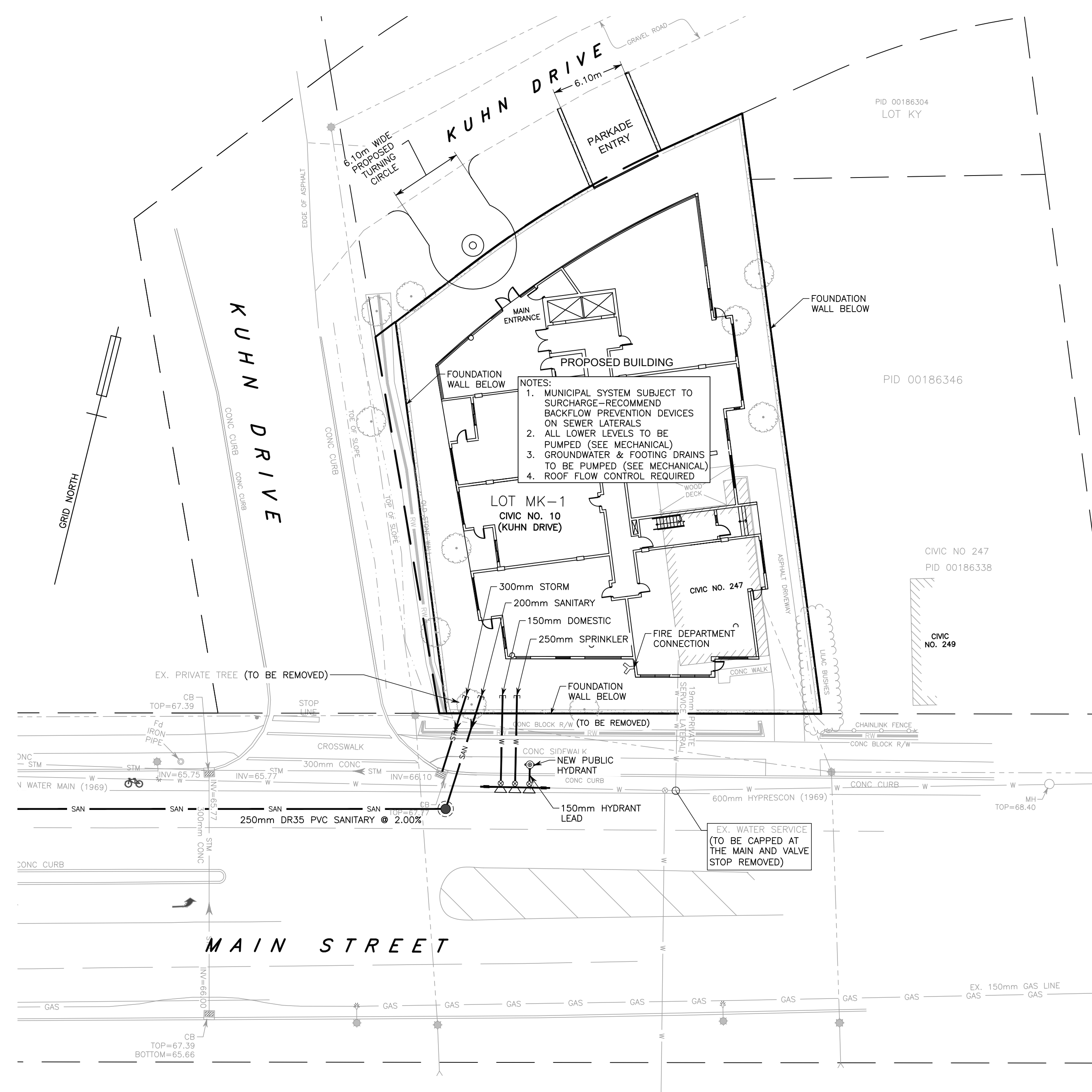




LEGEND		
EXISTING		PROPOSED
25.0	CONTOUR LINE	25.0
○/○BF	CURB STOP/GATE/BUTTERFLY VALVE	○/○BF
⊙	FIRE HYDRANT	⊙
⊓	CONCRETE THRUST BLOCK	⊓
⊓	SIAMESE CONNECTION	⊓
⊓	CATCH BASIN/PIT	⊓
⊓	CULVERT	⊓
⊓	ROCK LINING/DAM	⊓
⊓	ROCK WALL/RETAINING WALL	⊓
⊓	POWER POLE & ANCHOR/LIGHT STANDARD	⊓
⊓	TREE	⊓
⊓	STREET SIGN/PARKING METER	⊓
× 131.82	ELEVATION/GRADE	125.00 × / + 125.00
⊓	TEST PIT	⊓
⊓	DRAINAGE/SWALE FLOW DIRECTION	⊓
W	WATER MAIN/SERVICE	W
● SAN	SANITARY MANHOLE & PIPE	● SAN
○ STM	STORM MANHOLE & PIPE	○ STM
SAN/STM	COMBINED SEWER	SAN/STM
FM	FORCE MAIN	FM
GAS	GAS LINE	GAS
FL	100YR. FLOOD LIMIT	FL
U	GUARD RAIL	U
C	UNDERGROUND COMMUNICATIONS	C
P	UNDERGROUND POWER	P
---	OVERHEAD WIRES	---
---	PROPERTY LINE/BOUNDARY	---
---	FENCE	---
⊓	BUILDING	⊓
---	TOP OF SLOPE	---
---	TOE OF SLOPE	---
---	TREELINE	---
---	LIMITS OF DISTURBANCE	---

- NOTES**
- EXISTING WATER, STORM & SANITARY SEWER, U/G CONDUIT AND GAS UNDERGROUND PIPING BASED ON HRM GIS-SEWER DATA AND HERITAGE GAS INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATIONS AND ELEVATIONS IN THE FIELD.
 - PROPERTY BOUNDARIES HAVE BEEN COMPILED FROM VARIOUS SOURCES AND ARE SUBJECT TO SURVEY.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NOVA SCOTIA REGULATIONS AND HRM BY-LAWS, HALIFAX WATER DESIGN AND CONSTRUCTION SPECIFICATIONS (LATEST EDITION) AND HRM MUNICIPAL SERVICE SYSTEM GUIDELINES "RED BOOK" (LATEST EDITION).
 - CONTRACTOR TO DISCONNECT, PLUG AND ABANDON EXISTING WATER SERVICE LATERALS FOR CIVIC NO 247 MAIN STREET AT THE MAIN. CONTRACTOR TO REMOVE VALVE BOXES AND VALVES/SHUT OFFS AFTER THE LATERALS HAVE BEEN DISCONNECTED FROM MAIN.
 - CONTRACTOR TO CAP AND ABANDON ALL EXISTING SEWER LATERALS FOR CIVIC NO. 247 MAIN STREET AT THE MAIN.
 - ROOF FLOW CONTROL DRAINS WILL CONTROL POST DEVELOPMENT STORM FLOWS TO PRE-DEVELOPMENT LEVELS.

1	22/12/13	ISSUED FOR DEVELOPMENT AGREEMENT	
0	22/05/16	ISSUED FOR REVIEW	
No.	YY/MM/DD	Revision Description	Appr'd

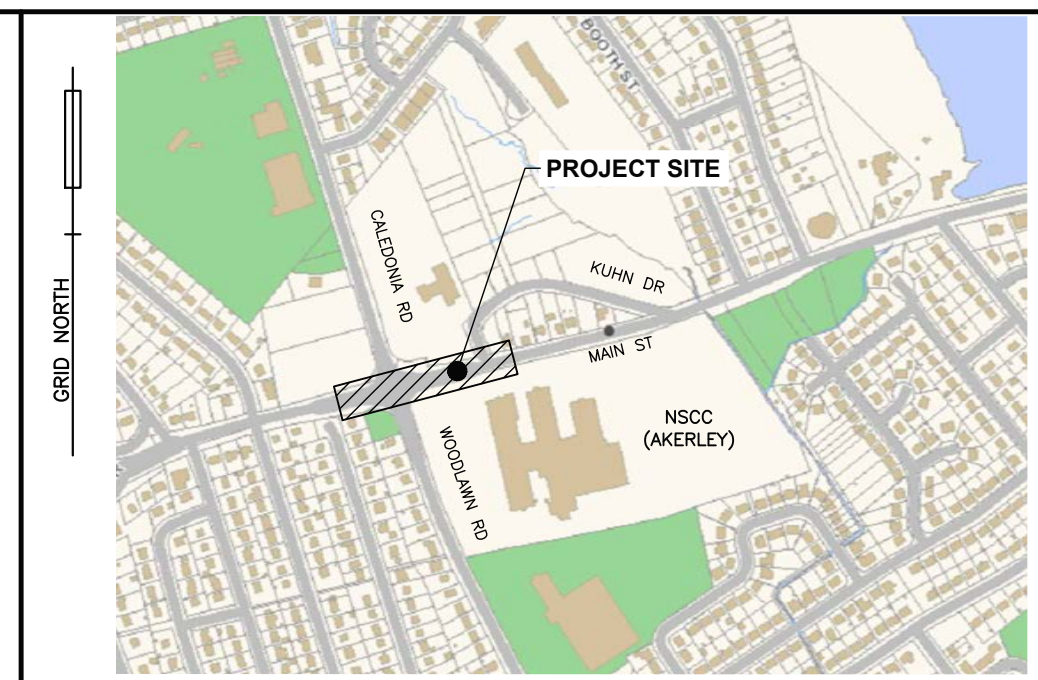
SDMM
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SANITARY SEWER EXTENSION
247 MAIN STREET
DARTMOUTH, NOVA SCOTIA

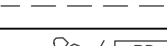
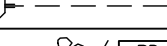
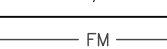
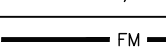
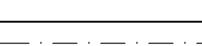
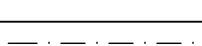
BUILDING SERVICING SCHEMATIC

Date DECEMBER 13, 2022	Drawn S. SOO	Project No. FILE NO. 1-6-323 (36964)
Scale 1:250	Engineer A. PULSIFER	Plan No.
Reference ---	Approved A. PULSIFER	Drawing Name
Surveyed SDMM	Sheet	CO

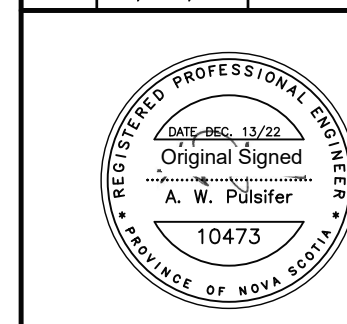
0m 5 10 15 20 25m



LEGEND

EXISTING		PROPOSED	
	25.0'		25.0'
	CURB STOP/GATE/BUTTERFLY VALVE		CURB STOP/GATE/BUTTERFLY VALVE
	FIRE HYDRANT		FIRE HYDRANT
	CONCRETE THRUST BLOCK		CONCRETE THRUST BLOCK
	SIAMESE CONNECTION		SIAMESE CONNECTION
	CATCH BASIN/PIT		CATCH BASIN/PIT
	CULVERT		CULVERT
	ROCK LINING/DAM		ROCK LINING/DAM
	ROCK WALL/RETAINING WALL		ROCK WALL/RETAINING WALL
	POWER POLE & ANCHOR/LIGHT STANDARD		POWER POLE & ANCHOR/LIGHT STANDARD
	TREE		TREE
	STREET SIGN/PARKING METER		STREET SIGN/PARKING METER
	ELEVATION/GRADE		ELEVATION/GRADE
	TEST PIT		TEST PIT
	DRAINAGE/SWALE FLOW DIRECTION		DRAINAGE/SWALE FLOW DIRECTION
	WATER MAIN/SERVICE		WATER MAIN/SERVICE
	SANITARY MANHOLE & PIPE		SANITARY MANHOLE & PIPE
	STORM MANHOLE & PIPE		STORM MANHOLE & PIPE
	COMBINED SEWER		COMBINED SEWER
	FORCE MAIN		FORCE MAIN
	GAS LINE		GAS LINE
	100YR. FLOOD LIMIT		100YR. FLOOD LIMIT
	GUARD RAIL		GUARD RAIL
	UNDERGROUND COMMUNICATIONS		UNDERGROUND COMMUNICATIONS
	UNDERGROUND POWER		UNDERGROUND POWER
	OVERHEAD WIRES		OVERHEAD WIRES
	PROPERTY LINE/BOUNDARY		PROPERTY LINE/BOUNDARY
	FENCE		FENCE
	BUILDING		BUILDING
	TOP OF SLOPE		TOP OF SLOPE
	TOE OF SLOPE		TOE OF SLOPE
	TREELINE		TREELINE
	LIMITS OF DISTURBANCE		LIMITS OF DISTURBANCE

1. REFER TO C2 FOR CONSTRUCTION NOTES & DETAILS.
2. REFER TO C3 FOR SERVICE PROFILE.

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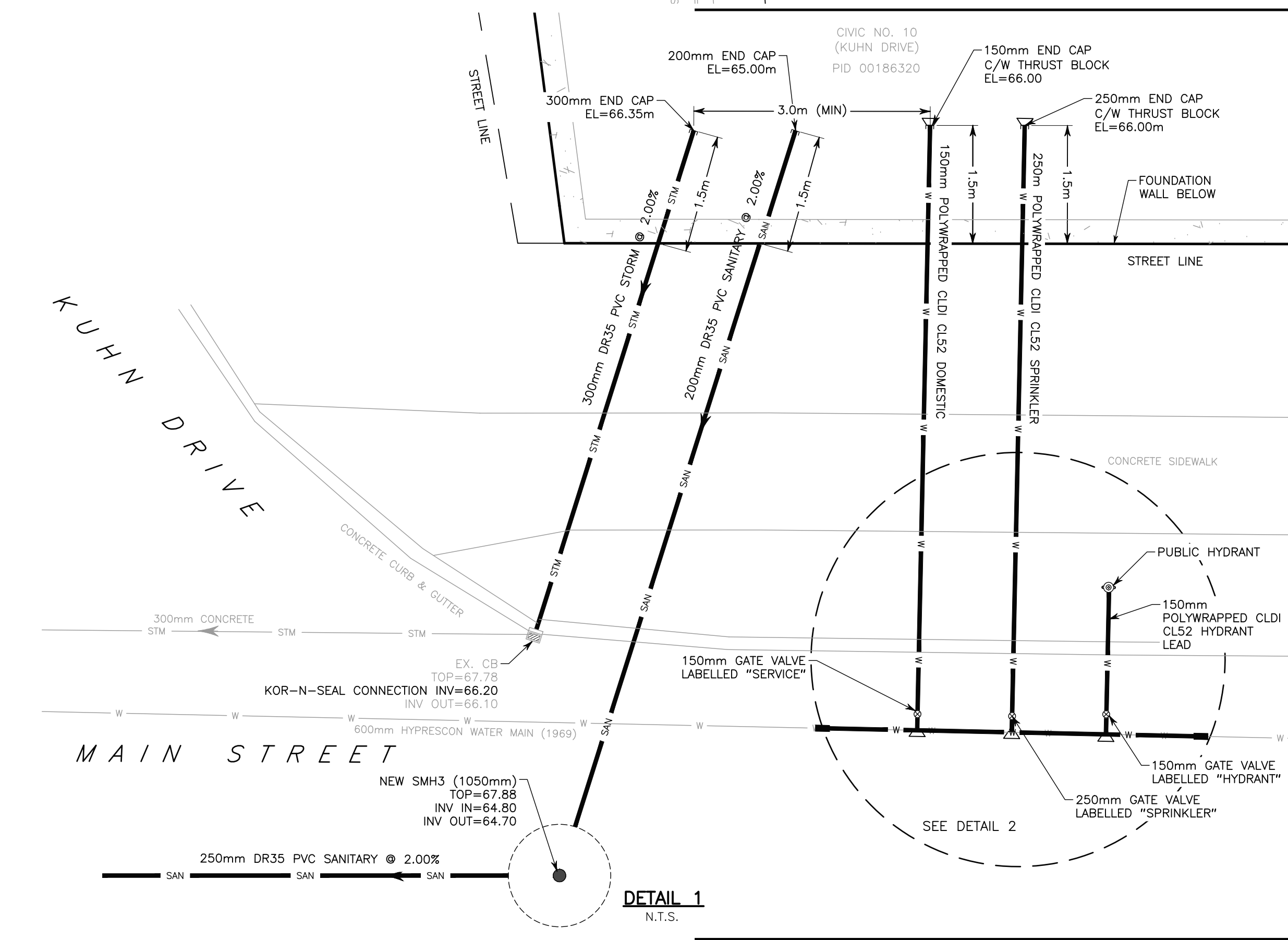
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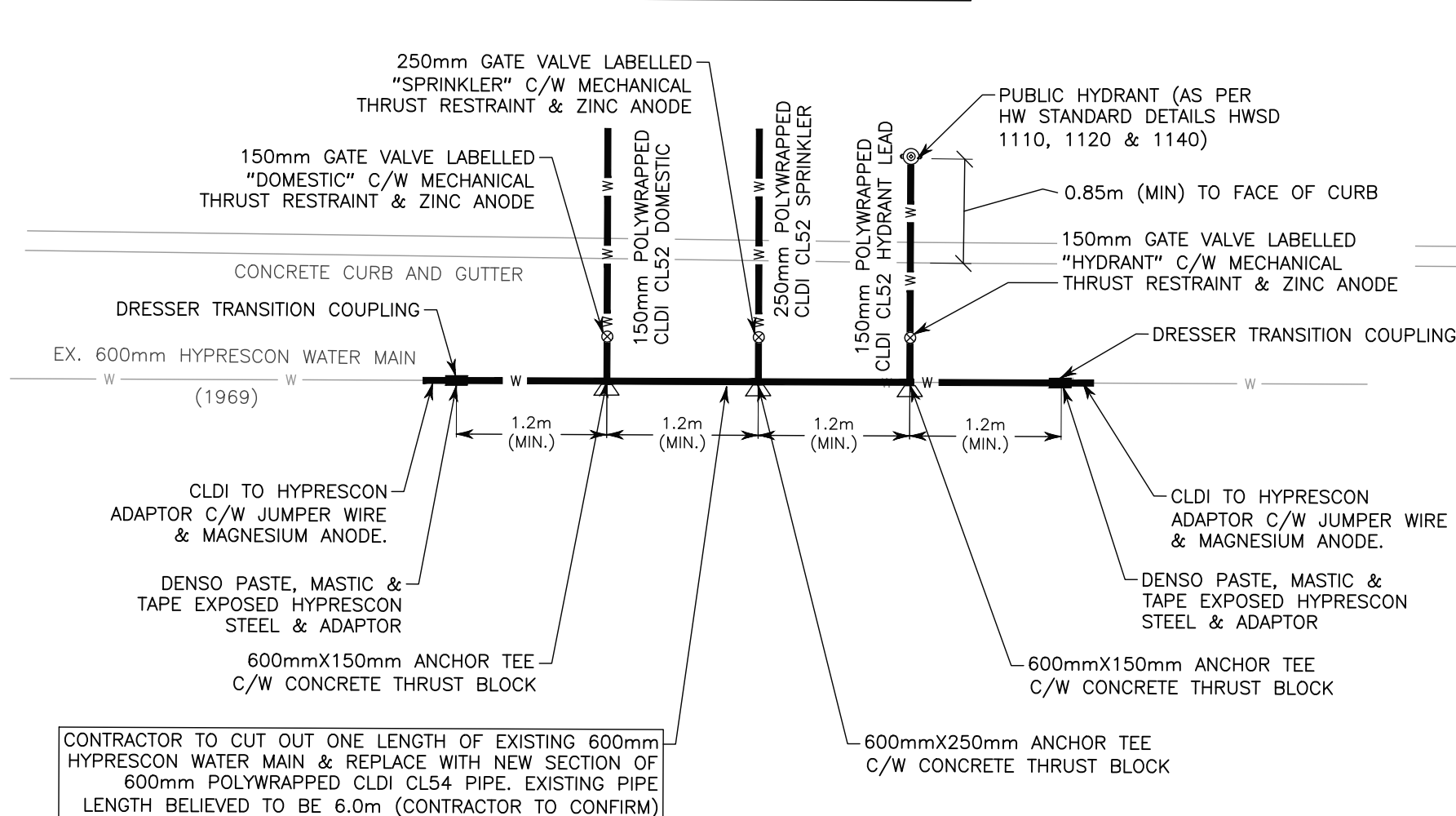
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SANITARY SEWER EXTENSION
247 MAIN STREET
DARTMOUTH, NOVA SCOTIA

SERVICING PLAN		
Date MAY 16, 2022	Drawn S. SOO	Project No. FILE NO. 1-6-323 (36964)
Scale 1:250	Engineer A. PULSIFER	Plan No.
Reference --	Approved A. PULSIFER	
Surveyed SDMM	Sheet	Drawing Name C1

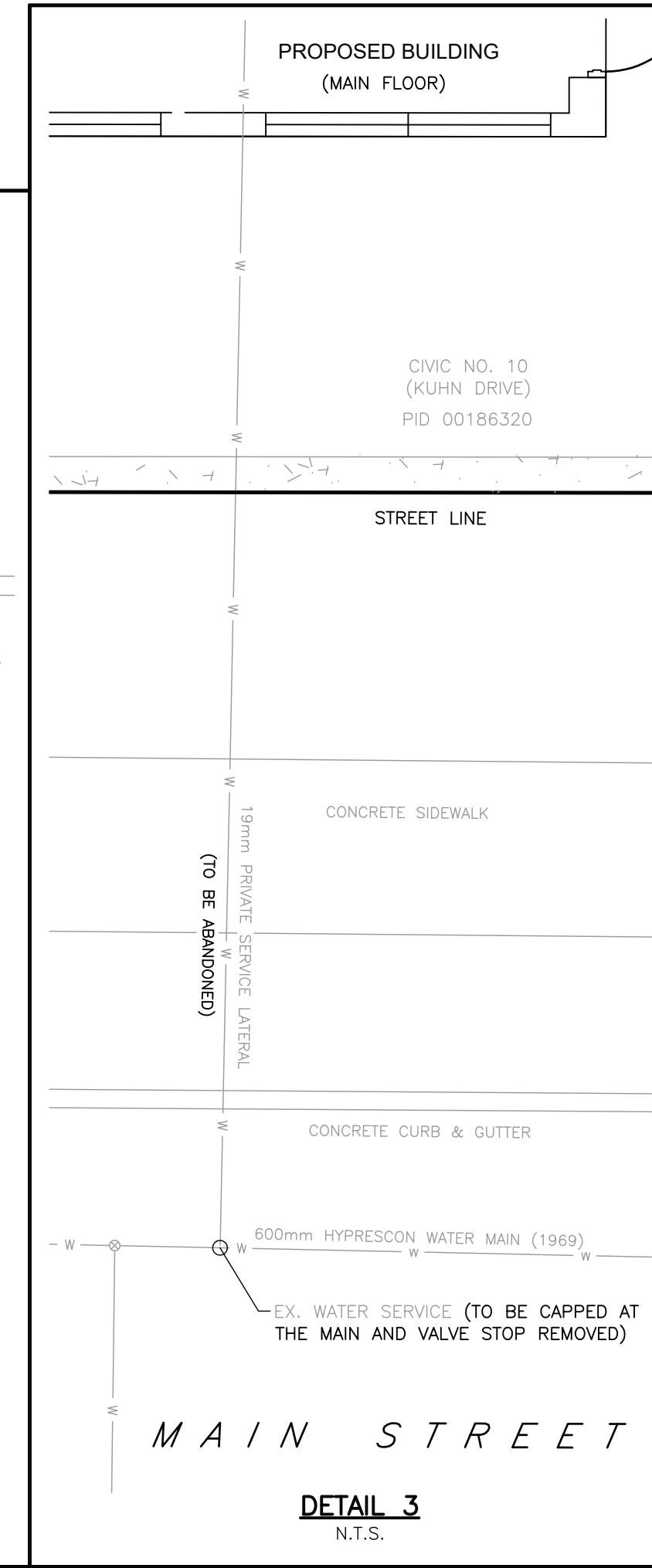


NOTE:
CONTRACTOR TO HYDRO VAC EXISTING WATER MAIN TO LOCATE
EXISTING PIPE JOINTS AND PIPE LENGTH TO BE REMOVED AND
CONFIRM EXISTING PIPE CONNECTION LOCATION.



CONTRACTOR TO CUT OUT ONE LENGTH OF EXISTING 600mm
HYPRESCON WATER MAIN & REPLACE WITH NEW SECTION OF
600mm POLYWRAPPED CLDI CL54 PIPE. EXISTING PIPE
LENGTH BELIEVED TO BE 6.0m (CONTRACTOR TO CONFIRM)

DETAIL 2
N.T.S.



HALIFAX REGIONAL MUNICIPALITY STANDARD DETAILS

HRM No.	
1	PAVEMENT STRUCTURE
11	SUBURBAN (ARTERIAL)
38	URBAN TRAFFIC SIGN POST
44	URBAN SIDEWALK
48	CONCRETE SIDEWALK REINFORCING
49	PEDESTRIAN RAMP ALIGNMENT
52	CONCRETE TRAFFIC ISLAND
53	CONCRETE CURB AND GUTTER
54	CURB RENEWAL/PAYMENT DETAILS
59	SHALLOW TRENCH REINSTATEMENT
60	DEEP TRENCH REINSTATEMENT
61	TRENCH BACKFILL & REINSTATEMENT-TESTING
78	UNDERGROUND CONDUIT
89	STANDARD INTERSECTION PAVEMENT MARKING LAYOUT
90	LONGITUDINAL AND TRANSVERSE PAVEMENT MARKINGS
91	PAVEMENT ARROWS
92	BICYCLE SYMBOL AND SHARED USE LANE SYMBOL
93	PEDESTRIAN & TRAIL CROSSING PAVEMENT MARKING LAYOUT
189	BICYCLE PAVEMENT MARKINGS
190	BICYCLE LANE CONFLICT MARKINGS

HALIFAX WATER STANDARD DETAILS

HWSD No.	
1000	TYPICAL TRENCH PAYMENT WIDTH (WATER, WASTEWATER & STORMWATER SYSTEMS)
1010	TYPICAL TRENCH DETAIL WATER SYSTEM INSTALLATION (WATER ONLY)
1020	POLYETHYLENE ENCASEMENT ON DUCTILE IRON WATER MAINS
1040	ZINC ANODE FOR VALVES AND COPPER SERVICE CONNECTIONS
1070	THRUST BLOCK REQUIREMENTS
1080	CONCRETE THRUST BLOCK
1110	HYDRANT INSTALLATION DETAIL
1120	HYDRANT LOCATION IN RELATION TO DRIVEWAYS & OTHER UTILITY STRUCTURES
1140	HYDRANT PAINTING
1210	TYPICAL DOMESTIC & SPRINKLER CONNECTIONS AS SEPARATE SERVICE CONNECTION
1250	REQ. MIN. CLEARANCES BTW U/G CONDUITS AND WATER SYSTEM
1400	NATURAL GAS INSTALLATION SEPARATIONS (POLYETHYLENE MAIN)
1440	TRENCH AND BACKFILL CROSS SECTION
1450	PRECAST MANHOLE
1460	MANHOLE FRAME AND COVER

NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. ANY DISCREPANCIES MUST BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- CONTRACTOR SHALL NOTIFY SDMM 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO SCHEDULE A PRECONSTRUCTION MEETING AND ARRANGE SUBSEQUENT SITE INSPECTIONS FOR DATA COLLECTION REQUIRED TO PREPARE RECORDS OF NEW WATER, STORMWATER AND WASTEWATER SERVICES AS PER HALIFAX WATER (HW) SPECIFICATIONS.**
- CONTRACTOR TO OBTAIN AND PAY FOR HALIFAX REGIONAL MUNICIPALITY (HRM) STREET & SERVICES PERMITS PRIOR TO CONSTRUCTION AND NOTIFY HRM AND HW OF SCHEDULED STREET WORK AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR TO PAY FOR ALL HW INSPECTION FEES PRIOR TO WATER METER APPLICATION. CONTRACTOR MUST PAY FOR ALL SDMM FEES ASSOCIATED WITH ANY REPEAT SITE INSPECTIONS RESULTING FROM FAILED TESTS.
- EXISTING WATER, STORMWATER AND WASTEWATER UNDERGROUND PIPING IS BASED ON INFORMATION OBTAINED FROM HW; SDMM DOES NOT TAKE RESPONSIBILITY FOR THE INFORMATION RECEIVED FROM OTHERS. CONTRACTOR TO VERIFY EXACT LOCATION AND ELEVATION IN THE FIELD AND NOTIFY THE ENGINEER IF SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE APPROVED DESIGN DRAWINGS.
- CONTRACTOR TO CONTACT ALL UTILITY COMPANIES (HALIFAX WATER, BELL ALIANT, EASTLINK, NS POWER INC., HERITAGE GAS, ETC.) TO CONFIRM IF ANY UNDERGROUND SERVICES EXIST IN THE VICINITY OF PROPOSED WORK PRIOR TO EXCAVATION.
- EXISTING SITE TOPOGRAPHIC INFORMATION SURVEYED BY SDMM. ELEVATIONS REPRESENT EXISTING SITE GRADES PRIOR TO CONSTRUCTION – CONTACT SDMM FOR LOCAL SURVEY CONTROL.
- PROPERTY BOUNDARIES HAVE BEEN COMPILED AND ARE APPROXIMATE ONLY; BOUNDARIES HAVE NOT BEEN CONFIRMED BY SURVEY.
- CONTRACTOR MUST PREVENT EROSION OR SILTATION OF SURFACE RUNOFF FROM LEAVING THE CONSTRUCTION SITE THROUGH THE USE OF EROSION AND SEDIMENTATION CONTROLS (SEE NSE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES). CONSTRUCTION OR EXCAVATION DEWATERING TO MUNICIPAL SEWER SYSTEMS MUST ADHERE TO HALIFAX WATER REGULATIONS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NOVA SCOTIA REGULATIONS AND HRM BY-LAWS, HW DESIGN AND CONSTRUCTION SPECIFICATIONS (LATEST EDITION) AND HRM MUNICIPAL SERVICE SYSTEM GUIDELINES "RED BOOK" (LATEST EDITION), AND HALIFAX WATER REGULATIONS.
- ALL CONSTRUCTION ACTIVITIES MUST BE SCHEDULED TO MINIMIZE SERVICE/PUBLIC ACCESS INTERRUPTION.
- THE PROPOSED WASTEWATER & STORMWATER SEWER, MANHOLES AND CATCH BASINS SHALL BE INSTALLED AS PER THE HW DESIGN AND CONSTRUCTION SPECIFICATIONS (LATEST EDITION). SEWER MANHOLES SHALL BE PRECAST 1050mm DIAMETER (MIN.) C/W BENCHING AND IMP R10 FRAME AND COVERS UNLESS OTHERWISE REQUIRED. PUBLIC MANHOLES INSTALLED OFF ASPHALT SHALL HAVE R-12 FRAMES AND COVERS. WASTEWATER MANHOLES SHALL BE WRAPPED IN BLUESKIN COMPLETE WITH CONCRETE ADJUSTMENT AS PER HW SPECIFICATIONS. CATCH BASINS TO BE 1050mm (MIN.) DIAMETER COMPLETE WITH FRAME AND GRATE; IMP S441 (AREA), IMP S361 (CURB), PYRAMID (IN LANDSCAPED AREAS) OR APPROVED EQUAL.
- PROPOSED CONCRETE STORMWATER AND WASTEWATER SEWERS SHALL CONFORM TO A.S.T.M C-78 (CLASS III). PROPOSED DR35 PVC STORMWATER AND WASTEWATER SEWERS SHALL CONFORM TO CSA 182.1.
- WASTEWATER SERVICE LATERAL TO HAVE MINIMUM OF 2% SLOPE OR AS NOTED.
- WASTEWATER AND STORMWATER SERVICE LATERALS, FROM BUILDING TO MAIN, SHALL BE VIDEO INSPECTED BY CONTRACTOR. CONTRACTOR TO PROVIDE DIGITAL COPIES OF VIDEO INSPECTION COMPLETE WITH REPORT IN ACCORDANCE WITH HW SPECIFICATIONS TO THE ENGINEER, PRIOR TO THE WATER METER APPLICATION, FOR VERIFICATION.
- WASTEWATER SERVICE LATERAL (PIPE AND MANHOLES), FROM BUILDING TO MAIN, SHALL BE LEAKAGE TESTED (LOW PRESSURE AIR) AS PER HW STANDARD SPECIFICATIONS.
- ALL WATER SERVICE FITTINGS AND BENDS SHALL HAVE THRUST RESTRAINTS AS PER HW STANDARDS. SPRINKLER & WATER SERVICES SHALL BE CEMENT LINED DUCTILE IRON (CLDI) CLASS 52 COMPLETE WITH POLYETHYLENE ENCASEMENT UNLESS NOTED OTHERWISE. DOMESTIC SERVICES, LESS THAN 100mm DIA, SHALL BE TYPE K COPPER COMPLETE WITH PIPE WRAP INSULATION FROM CORPORATION STOP TO BUILDING. ALL NEW WATER SERVICES & FITTINGS TO BE INSTALLED WITH A MINIMUM OF 1.6m OF GROUND COVER. CONTRACTOR TO FOLLOW THE HW DESIGN AND CONSTRUCTION SPECIFICATIONS (LATEST EDITION) FOR INSTALLATION DETAILS.
- WHEN CROSSING SEWERS WITH A WATER SERVICE, CONTRACTOR SHALL PROVIDE A MINIMUM 450mm VERTICAL SEPARATION BETWEEN BOTTOM OF WATER SERVICE AND TOP OF SEWER. CONTRACTOR TO MAINTAIN A MINIMUM, 300mm VERTICAL AND 300mm HORIZONTAL, SEPARATION BETWEEN WATER AND SEWER SERVICES WHEN RUNNING SERVICE LATERALS PARALLEL IN THE SAME TRENCH. IF VERTICAL SEPARATIONS CANNOT BE MET AT CROSSINGS, CONTRACTOR SHALL PROVIDE CARRIER PIPE TO ISOLATE PIPES AND MAINTAIN A MINIMUM OF 150mm OF VERTICAL SEPARATION. CONTRACTOR TO PROVIDE H-40 RIGID INSULATION BETWEEN WATER SERVICES AND MANHOLES WHEN WITHIN 1.2m; 500mm MINIMUM SEPARATION BETWEEN WATER SERVICES AND MANHOLES SHALL BE MAINTAINED AS PER HW SPECIFICATIONS.
- WHEN INSTALLING WATER AND SEWER SERVICES NEAR GAS LINES, UNDERGROUND ELECTRICAL CONDUIT, STEAM OR HOT WATER PIPING, TRANSFORMER PADS, UTILITY POLES OR OTHER UTILITIES; SEWER SERVICES SHALL MAINTAIN 1.5m HORIZONTAL SEPARATION; WHEREAS WATER SERVICES SHALL MAINTAIN 2.0m HORIZONTAL SEPARATION UNLESS THE WATER SERVICE IS 50MM OR SMALLER, IN WHICH CASE 1.5m HORIZONTAL SEPARATION IS REQUIRED.
- FINAL GRADING SHALL BE CONSTRUCTED TO ENSURE POSITIVE DRAINAGE OF STORMWATER AWAY FROM BUILDINGS. UNLESS OTHERWISE STATED, CONSTRUCTED GRADES SHALL BE A MINIMUM OF 2% TO A MAXIMUM OF 3%-1V (EXCEPT FOR ROCK FACES/RETAINING WALLS). ALL DISTURBED AREAS SHALL BE FINISHED WITH EITHER CONCRETE OR ASPHALT, TOPSOIL AND SEED OR SOD.
- ELEVATIONS AND SITE GRADING SHALL BE CONFIRMED BY CONTRACTOR WITH ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO SAW CUT EXISTING ASPHALT AND REINSTATE ADJACENT TO NEW DRIVEWAY ENTRANCE AND/OR CURB AS PER HRM DETAIL HRM54 AND THE ASPHALT REINSTATEMENT DETAILS HRM59, 60 & 61. CONTRACTOR SHALL COORDINATE AND PROVIDE REQUIRED GEOTECHNICAL CERTIFICATION TO HRM, REGARDLESS OF ASPHALT THICKNESS. CONTRACTOR TO REINSTATE ASPHALT WITH A MINIMUM 100mm NEW ASPHALT THICKNESS FOR LOCAL ROADS AND STREETS; FOR HIGHER CLASSIFICATIONS OF ROADS AND STREETS FOLLOW HRM STANDARD ASPHALT THICKNESS.

1	22/12/13	ISSUED FOR DEVELOPMENT AGREEMENT	
0	22/05/16	ISSUED FOR REVIEW	
No.	YY/MM/DD	Revision Description	Appr'd

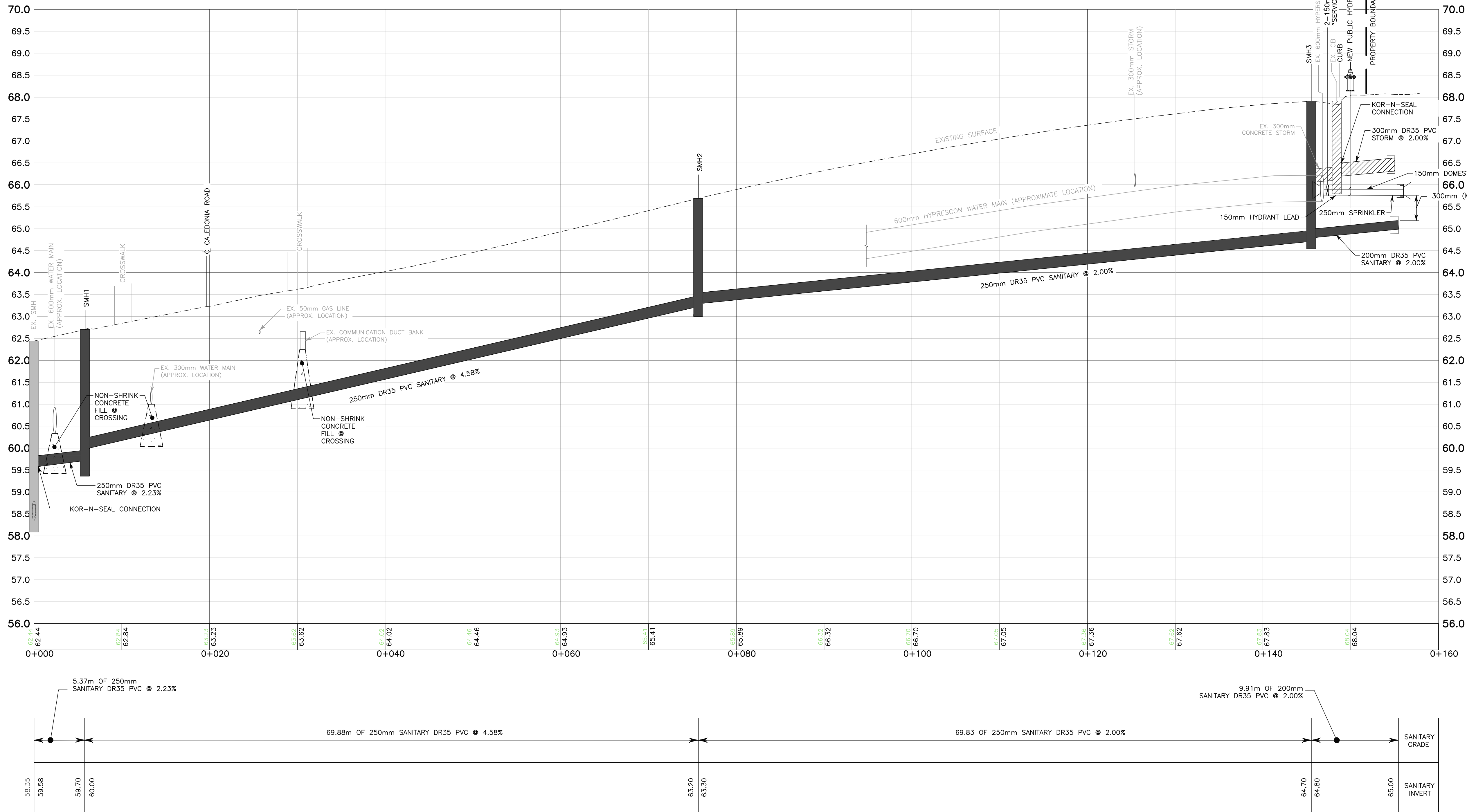


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SANITARY SEWER EXTENSION
247 MAIN STREET
DARTMOUTH, NOVA SCOTIA

CONSTRUCTION NOTES AND DETAILS

Date MAY 16, 2022	Drawn S. SOO	Project No. FILE NO. 1-6-323 (36964)
Scale N.T.S	Engineer A. PULSIFER	Plan No.
Reference ---	Approved A. PULSIFER	Drawing Name
Surveyed SDMM	Sheet	C2



SERVICE PROFILE
SCALE= HORIZ: 1:250
VERT: 1:50

LEGEND		
PROFILE		
EXISTING		PROPOSED
	GROUND	
	SANITARY	
	STORM	
	WATER	
	FOAM INSULATION	
	PIPE CROSSING	
	WATER VALVE	
	THRUST BLOCK	
	END CAP	

1	22/12/13	ISSUED FOR DEVELOPMENT AGREEMENT	
0	22/05/16	ISSUED FOR REVIEW	
No.	YY/MM/DD	Revision Description	Appr'd

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SANITARY SEWER EXTENSION 247 MAIN STREET DARTMOUTH, NOVA SCOTIA		
SERVICE PROFILE		
Date MAY 16, 2022	Drawn S. SOO	Project No. FILE NO. 1-6-323 (36964)
Scale AS NOTED	Engineer A. PULSIFER	Plan No.
Reference --	Approved A. PULSIFER	Drawing Name
Surveyed SDMM	Sheet	C3