

NOTE: THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

NOT FOR CONSTRUCTION

No.	REVISION	DATE	BY
2.	REVISED PER CITY COMMENTS	MAR 27/20	CJR
1.	ISSUED FOR SITE PLAN SUBMISSION	JAN 17/20	CJR

SCALE

1:400

0 4 8 12 16

DESIGN

ARM

CJR

ARM

CJR

ARM

JLS

FOR REVIEW ONLY

C.J. RUDDLE

MAR 30/20

PROVINCE OF ONTARIO

NOVATECH

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LOCATION

3026 SOLANDT ROAD, OTTAWA, ONTARIO

DRAWING NAME

GENERAL PLAN OF SERVICES

PROJECT NO.

119200

REV

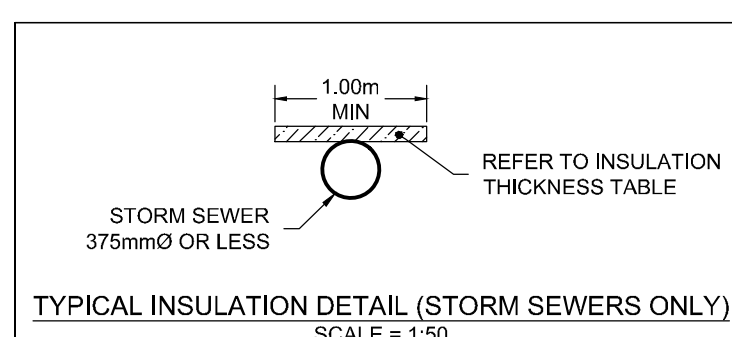
REV 2

DRAWING NO.

119200-GP

REFER TO 119200-ND FOR NOTES AND DETAILS

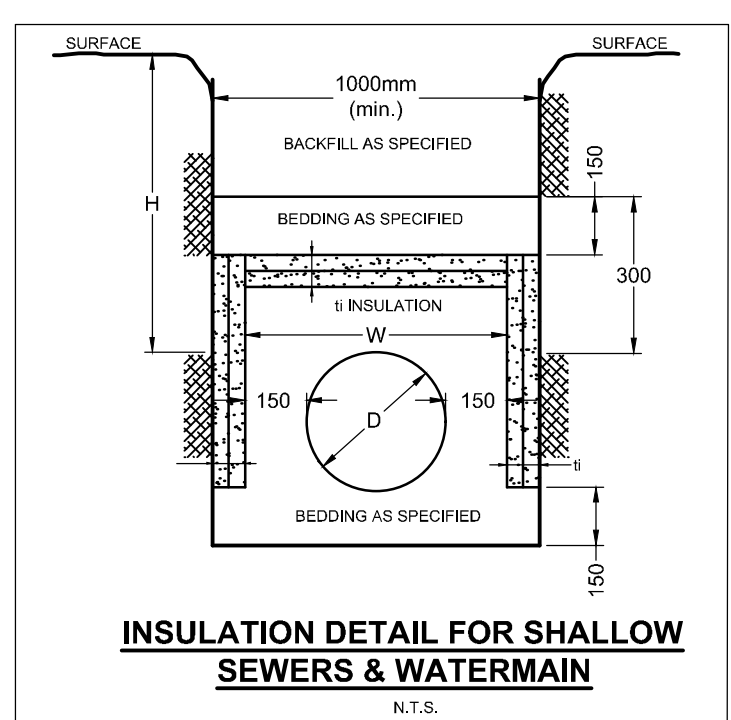
INSULATION THICKNESS TABLE		
FROM MH	TO MH	INSULATION THICKNESS
EX PIPE	STMMH 100	75mm
STMMH 100	STMMH 101	75mm
STMMH 101	STMMH 102	50mm
STMMH 102	STMMH 104	50mm
STMMH 102	STMMH 107	50mm
STMMH 104	CBMH 5	50mm
STMMH 104	STMMH 105	75mm
STMMH 105	STMMH 106	100mm
STMMH 106	CHAMBERS	50mm
STMMH 106	CHAMBERS	75mm
STMMH 106	CHAMBERS	100mm
SANMH 100	SANMH 101	75mm
SANMH 101	BLDG	75mm
SANMH 101	SANMH 102	100mm
SANMH 102	EX SANMH 2	75mm



SEWER & WATERMAIN INSULATION NOTES:

- INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 2.0m COVER AND ALL WATERMAIN WITH LESS THAN 2.4m OF COVER WITH EXPANDED POLYSTYRENE INSULATION AS PER OPSD 1109.030.
 - THE THICKNESS OF INSULATION SHALL BE THE EQUIVALENT OF 25mm FOR EVERY 300mm REDUCTION IN THE REQUIRED DEPTH OF COVER WITH 50mm MINIMUM (SEE TABLE).
- T = THICKNESS OF INSULATION (mm)
W = WIDTH OF INSULATION (mm)
W = D + 300 (1000 min.)
D = O.D OF PIPE (mm)

COVER SEWER / WATER (mm)	INSULATION THICKNESS (mm)
2000-1400 / 2400-2100	50
1400-1100 / 2100-1800	75
1100-800 / 1800-1500	100



150mmØ WATERMAIN TABLE - 3026 SOLANDT ROAD		
STATION	SURFACE ELEVATION	TOP OF WM ELEVATION
0+000.0	79.75	77.75
0+011.5	79.90	77.50
0+017.2	80.00	77.60

200mmØ WATERMAIN TABLE - 3026 SOLANDT ROAD		
STATION	SURFACE ELEVATION	TOP OF WM ELEVATION
1+000.0	79.85	77.55
1+018.3	79.35	77.55
1+022.0	79.92	77.52
1+064.6	79.92	77.52
1+032.4	80.15	77.75

TEMPEST LMF/MHF ICDs	
LOCATION	MODEL NO. / ORFICE DIAMETER
CBMH 103	VORTEX 85
CBMH104	108mm
CBMH 5	VORTEX 71
MH 108	108mm

NORTH

KEY PLAN

N.T.S.

- LEGEND
- PROPERTY LINE
 - PROPOSED CURB
 - DC PROPOSED DEPRESSED CURB AS PER CITY DETAIL SC1.1
 - PROPOSED WATER SERVICE
 - PROPOSED HYDRANT c/w LEAD & VALVE
 - V&VB PROPOSED VALVE AND VALVE BOX
 - Y PROPOSED SIAMESE CONNECTION
 - L PROPOSED CAP
 - PROPOSED SANITARY SERVICE c/w MANHOLE
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED STORMTECH STC-740 UNDERGROUND STORAGE SYSTEM (REFER 119200-ND FOR DETAILS)
 - PROPOSED PIPE INSULATION
 - PROPOSED INLET CONTROL DEVICE
 - SEEPAGE BARRIER (REFER TO GEOTECH REPORT FOR DETAILS)
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF FLOW
 - PROPOSED PAVEMENT MARKINGS
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - LIMITS OF CONSTRUCTION
 - WATER METER LOCATION
 - REMOTE WATER METER LOCATION
 - PERFORATED SUBDRAIN
 - EXISTING STRUCTURE/LIGHT POST REMOVALS
 - EXISTING PIPE REMOVALS
 - EXISTING UTILITY POLE c/w GUY WIRES
 - EXISTING WATERMAIN c/w VALVE & VALVE CHAMBER
 - EXISTING HYDRANT c/w VALVE & LEAD
 - SAN MH EXISTING SANITARY MANHOLE & SEWER
 - STMMH EXISTING STORM MANHOLE & SEWER
 - CB 1 EXISTING CATCHBASIN
 - B EXISTING BELL LINE
 - T EXISTING UNDERGROUND TRAFFIC LINE
 - P EXISTING UNDERGROUND POWER LINE
 - LS EXISTING STREETLIGHT
 - TB-B EXISTING BELL TERMINAL BOX
 - EXISTING EASEMENT

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