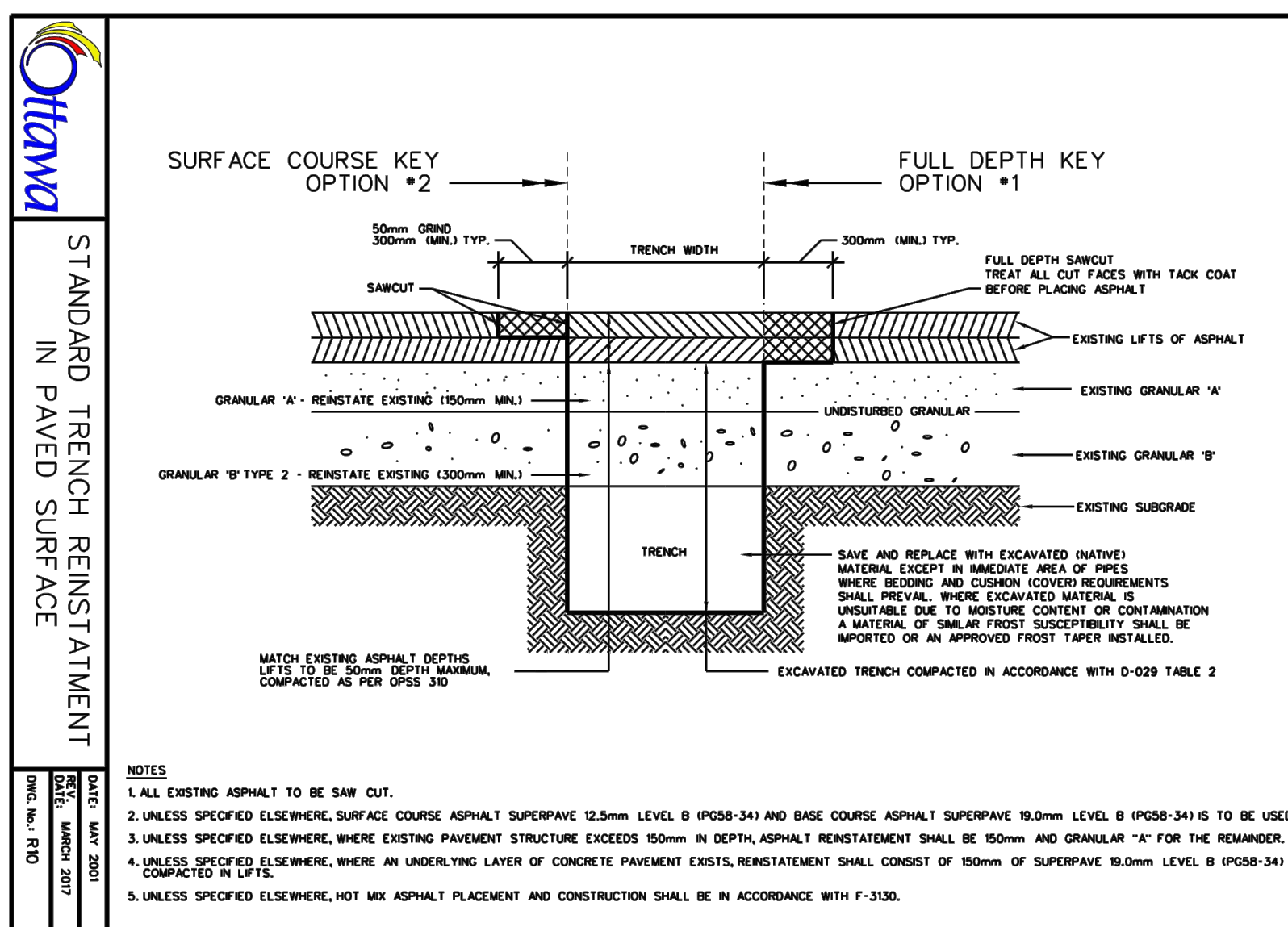


- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
 - OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
 - BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED AND THE CITY OF OTTAWA AS THIRD PARTY.
 - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD. ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ALL ORGANIC MATERIAL AND DEBRIS. ALL CONTAMINATED MATERIAL (IF ANY) SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
 - ALL ELEVATIONS ARE GEODETIC HORIZONTAL (ELLIPSOIDAL) DATUM, NAD-1983 ORIG. - LATITUDE: N45° 19' 15.0" LONGITUDE: W75° 37' 25.7" LOCATED 50m NORTH OF THE INTERSECTION OF ALBION ROAD AND LEITRIM ROAD, FIRST ORDER VERTICAL DATUM, CGVD2013 WITH ELEVATION OF 96.552 AND CGVD 28.78 WITH ELEVATION OF 96.853. THE SITE BENCHMARK IS THE TOP OF THE TOP LEFT BOLT ON THE TRAFFIC LIGHT ON THE NORTH SIDE OF THE MAIN ENTRANCE (ELEV. +114.05). REFER TO FARLEY, SMITH & DENNIS SURVEYING LTD., TOPOGRAPHIC PLAN OF PART OF LOTS 23 AND 24 COINCIDING A GEOGRAPHICAL TOWNSHIP OF GLOUCESTER, CITY OF OTTAWA.
 - REFER TO GEOTECHNICAL REPORT NO. P641812 PREPARED BY PATERSON GROUP, DATED OCTOBER 30, 2019, FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION. PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
 - REFER TO THE DEVELOPMENT SERVICES STUDY AND STORMWATER MANAGEMENT REPORT NO. R2019-196 DATED APRIL 24, 2020, REVISED NOVEMBER 04, 2022 PREPARED BY NOVATECH.
 - REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.
 - SAV CUT AND KEYING ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10). ALL ROAD CUTS TO BE REINSTATED WITH FULL MILL OVERLAY AS PER CITY OF OTTAWA STANDARDS (R10).
 - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES AND GRADING PLAN INDICATING ALL SERVICES AS-BUILT INFORMATION SHOWN ON THE PLANS. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND TIG ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TBM ELEVATIONS, ANY ALIGNMENT CHANGES, AND ALL SURFACE ELEVATIONS AS BUILT GRADES.
 - THE FIRE SUPPRESSION TANK SHOP DRAWING PROVIDED BY THE CONTRACTOR SHALL INCLUDE STRUCTURAL ENGINEERS SEAL AND PROOF OF COLLAPSE FOR VEHICLES POTENTIALLY PARKED ON TOP OF THE TANK.
- GRADING NOTES:**
- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS.
 - EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE SUBC ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL CONSULTANT.
 - ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE PROXACATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS.
 - THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
 - GRADE AND/OR FILL BEHIND PROPOSED CURB AND BETWEEN BUILDINGS AND CURBS, WHERE REQUIRED TO PROVIDE POSITIVE DRAINAGE.
 - MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
 - ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1).
 - AS PER PRIVATE APPROACH BY LAW NO. 2004-447 SECTION 28 (b) THE GRADE OF ANY PART OF A PRIVATE APPROACH TO A BUILDING MAY BE GREATER THAN 6% BUT SHALL NOT EXCEED 12% PROVIDED THAT A SUBSTANCE MELTING DEVICE SUFFICIENT TO KEEP THE PRIVATE APPROACH FREE OF ICE AT ALL TIMES IS INSTALLED AND PROPERLY MAINTAINED BY THE OWNER.
- EROSION AND SEDIMENT CONTROL NOTES:**
- REFER TO ESC PLAN 116111-ESC FOR FURTHER DETAILS.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENTS FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
 - THE CONTRACTOR SHALL PLACE FILTER BAGS UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
 - SILT FENCING FOR ENTIRE PERIMETER OF SITE, SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
 - THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
 - PROVIDE MUD MATS AT ALL CONSTRUCTION ACCESS POINTS TO MINIMIZE SEDIMENT TRANSPORT OFFSITE.
 - EROSION AND SEDIMENT CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.



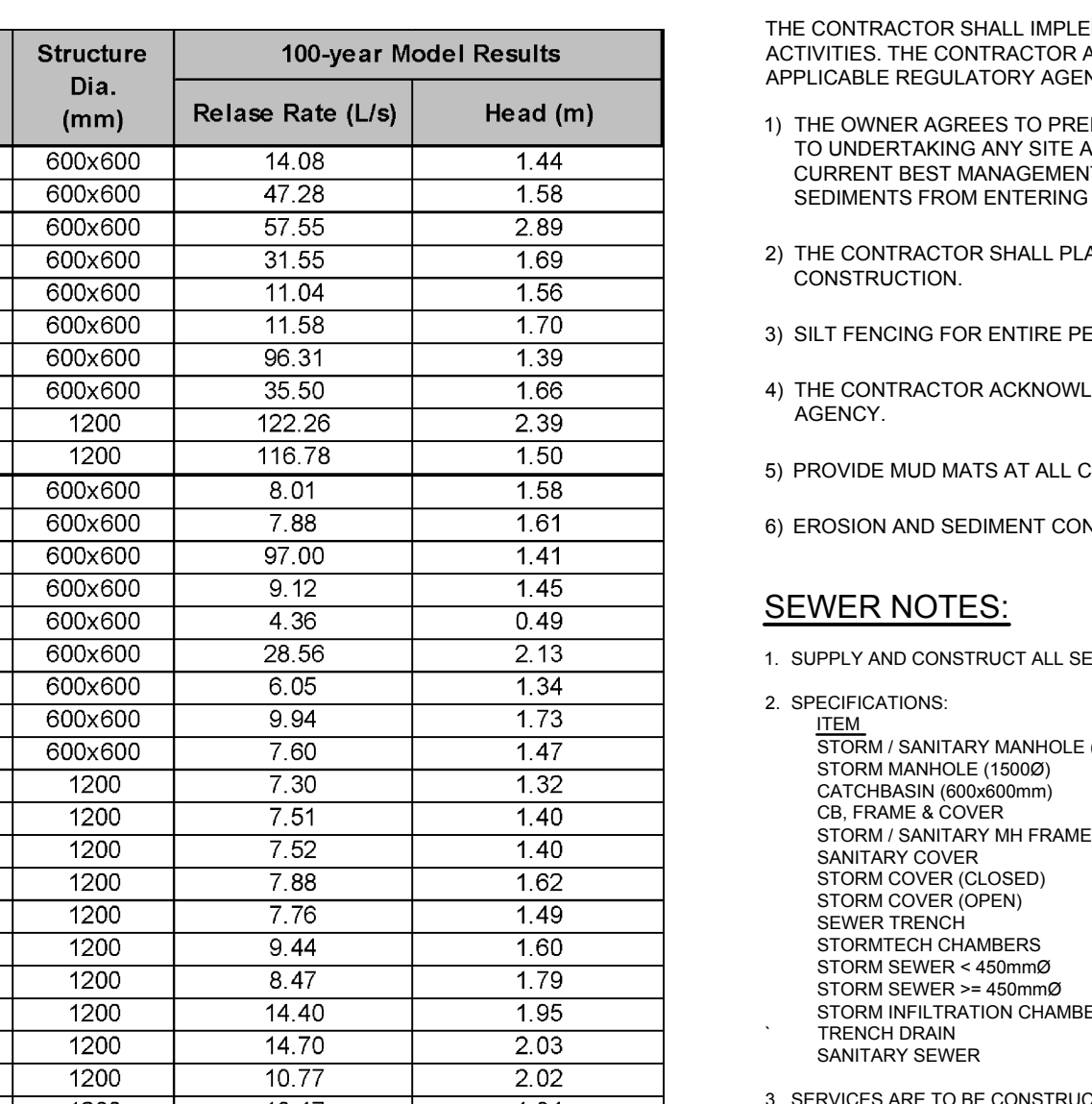
WATTS ACCUTROL RD-105-A-ADJ ROOF DRAIN TABLE

ROOF AREA	ROOF DRAIN ID	WEIR SETTING
R-1	RD-1 - RD-4	OPEN
R-2	RD-5 - RD-14	OPEN
R-3a	RD-15 - RD-19	OPEN
R-3b	RD-20	OPEN
R-4	RD-21 - RD-22	OPEN
R-5a	RD-23 - RD-27	OPEN
R-5b	RD-28	OPEN
R-6	RD-29 - RD-34	OPEN
R-7	RD-35 - RD-37	OPEN
R-8	RD-38 - RD-39	OPEN
R-10	RD-40 - RD-43	OPEN
R-11	RD-44 - RD-45	OPEN
R-12a	RD-46 - RD-54	OPEN
R-12b	RD-55 - RD-63	OPEN
R-13	RD-64 - RD-65	OPEN
R-14	RD-66	OPEN

INLET CONTROL DEVICE TABLE:

CB / CBMH ID	IPEX ICD Type (model)	Outlet Pipe Dia (mm)	Structure Dia. (mm)	100-year Model Results Release Rate (L/s)	Head (m)
EX-CB117	HF-77	250	600x600	14.08	1.44
EX-CB137	RD-137	200	600x600	47.28	1.58
EX-CB14	HF-130	200	600x600	57.55	2.89
EX-CB60	HF-110	250	600x600	31.55	1.69
EX-CB64	LMF-100	250	600x600	11.04	1.56
EX-CB72	LMF-100	200	600x600	11.58	1.70
EX-CB82	HF-202	200	600x600	98.31	1.39
EX-CB84	HF-118	200	600x600	35.50	1.66
EX-MH105	HF-199	450	1200	122.25	2.39
EX-MH112	HF-218	300	1200	118.78	1.50
PR-CB13	LMF-85	250	600x600	8.01	1.58
PR-CB14	LMF-85	250	600x600	7.88	1.61
PR-CB1917	HF-202	250	600x600	97.00	1.41
PR-CB18	LMF-95	250	600x600	9.12	1.45
PR-CB29	LMF-85	250	600x600	4.36	0.49
PR-CB32	HF-100	300	600x600	28.56	2.13
PR-CB36	LMF-80	250	600x600	6.05	1.34
PR-CB40	LMF-95	250	600x600	9.94	1.73
PR-CB41	LMF-85	250	600x600	7.80	1.47
PR-CBMH104	LMF-85	250	1200	7.30	1.32
PR-CBMH105	LMF-85	250	1200	7.51	1.40
PR-CBMH106	LMF-85	250	1200	7.52	1.40
PR-CBMH107	LMF-85	250	1200	7.88	1.62
PR-CBMH108	LMF-85	250	1200	7.76	1.49
PR-CBMH109	LMF-90	300	1200	9.44	1.60
PR-CBMH110	LMF-85	250	1200	8.47	1.79
PR-CBMH111	LMF-105	300	1200	14.40	1.95
PR-CBMH112	LMF-105	300	1200	14.70	2.03
PR-CBMH114	LMF-95	300	1200	10.77	2.02
PR-CBMH115	LMF-95	300	1200	10.47	1.94
PR-CBMH118	HF-130	300	1200	54.22	1.64
PR-MH100	LMF-95	450	1200	8.74	1.42
PR-TD02	HF-130	200	300x1400	35.43	1.13

3-hour Chicago Storm
 *IPEX ICD's sized based on 100-year model results.

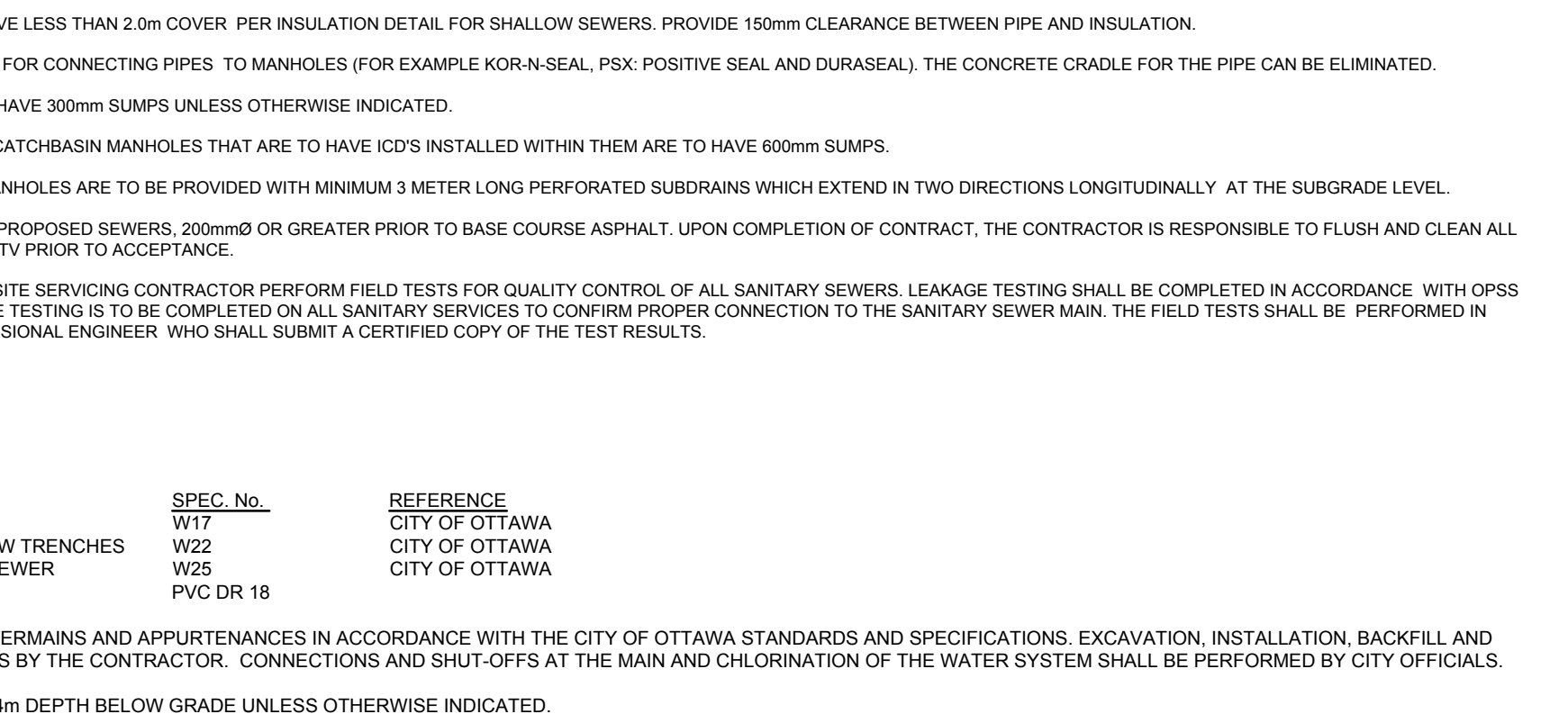
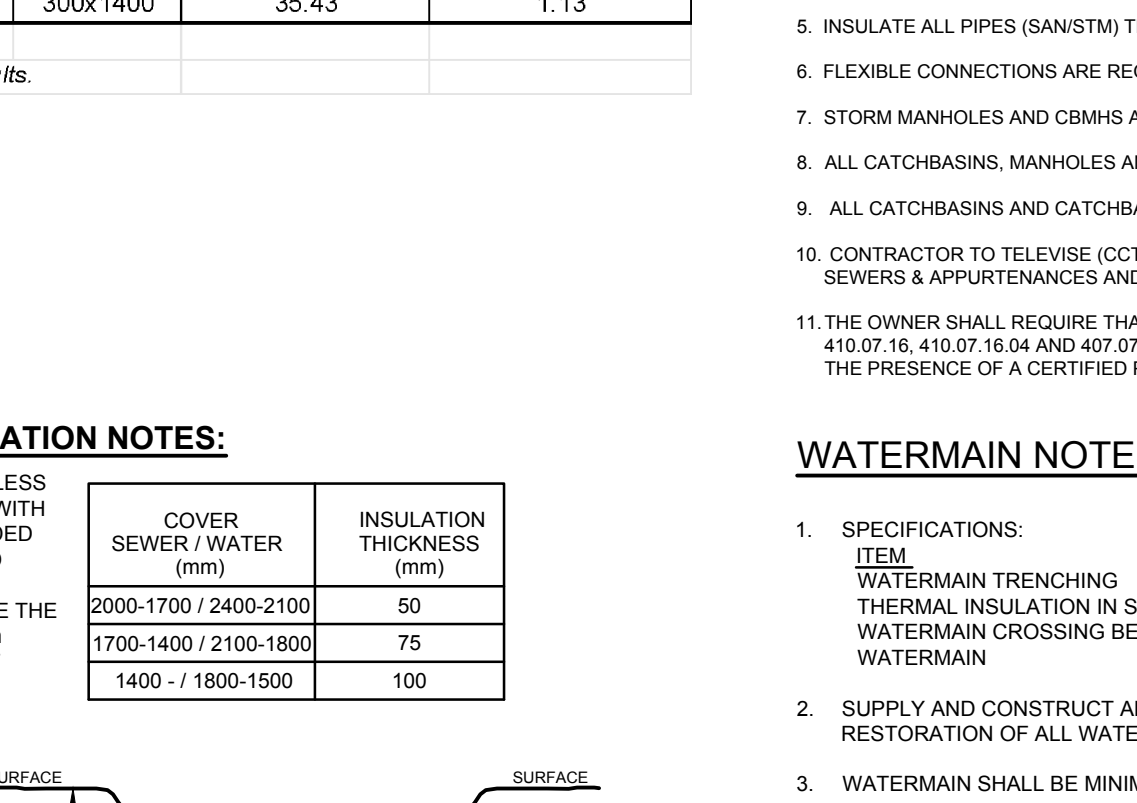
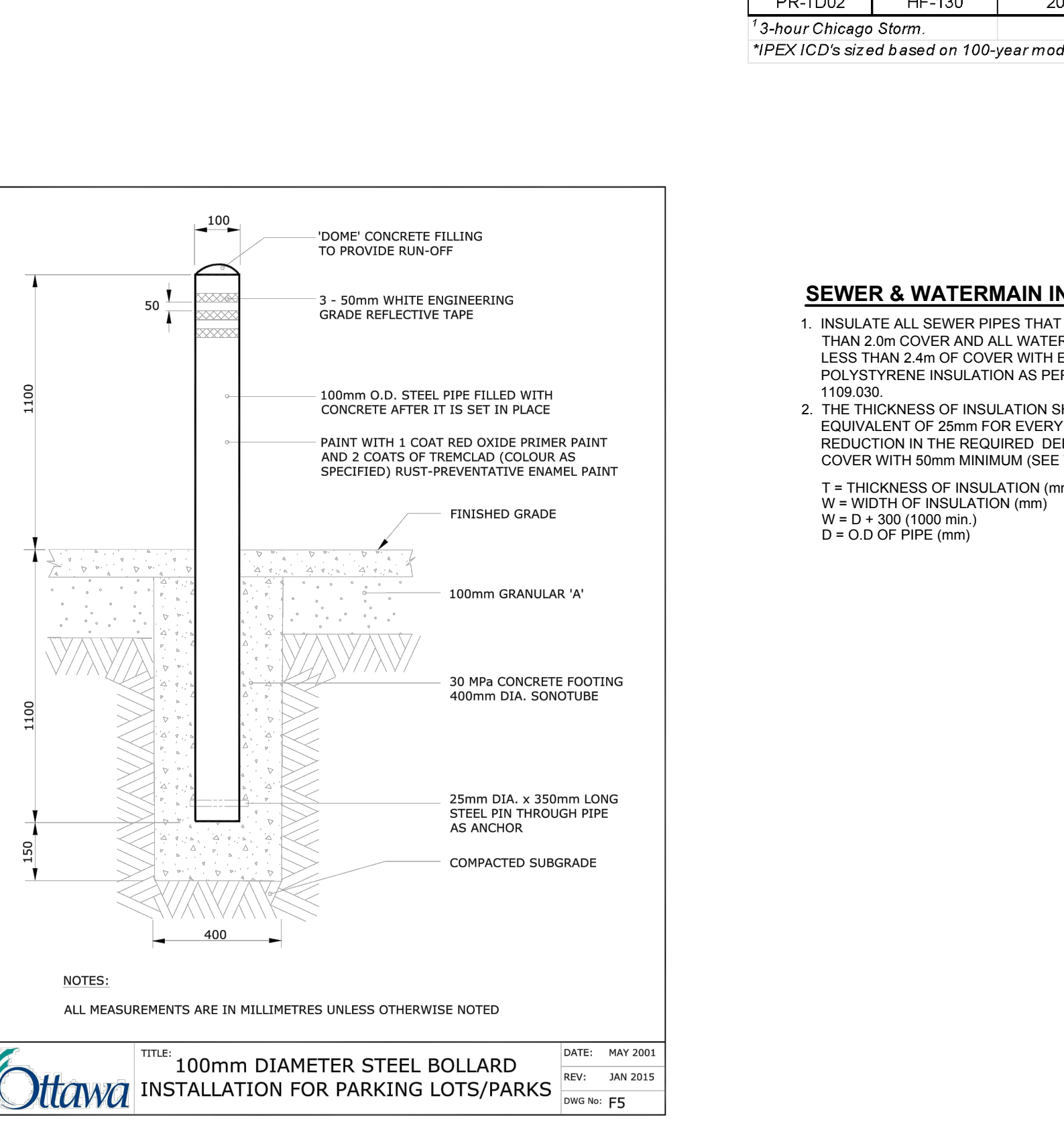
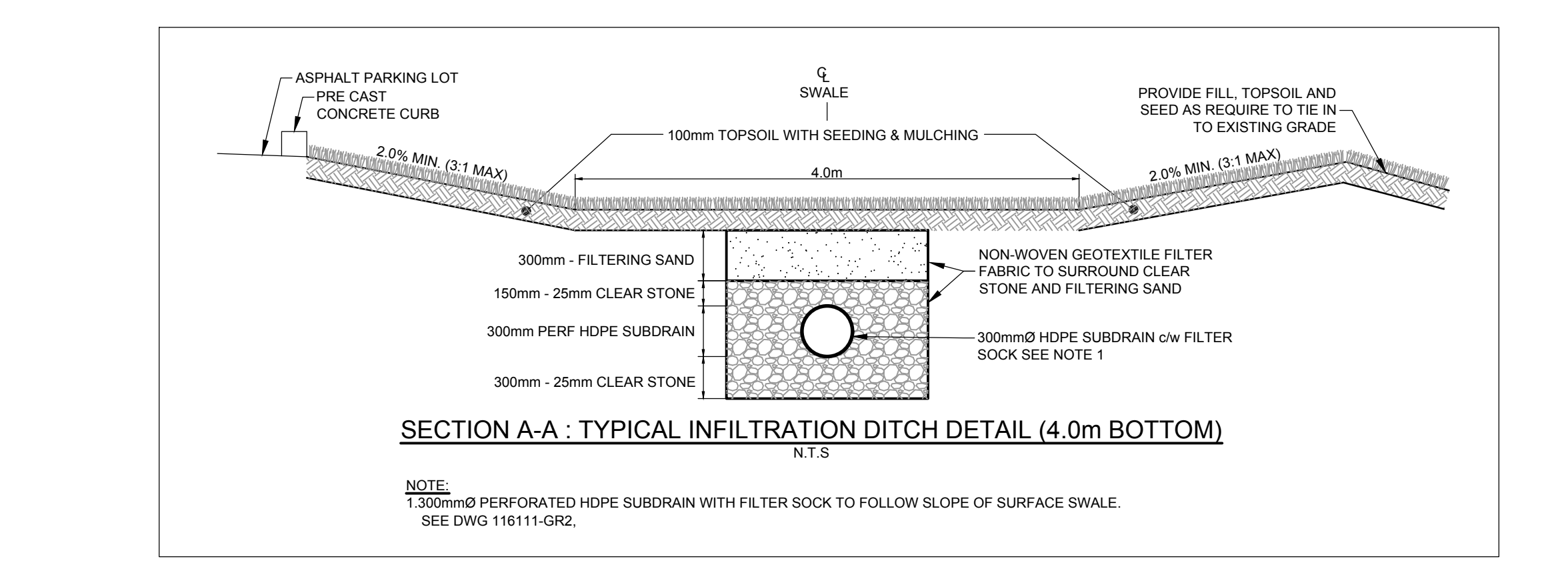
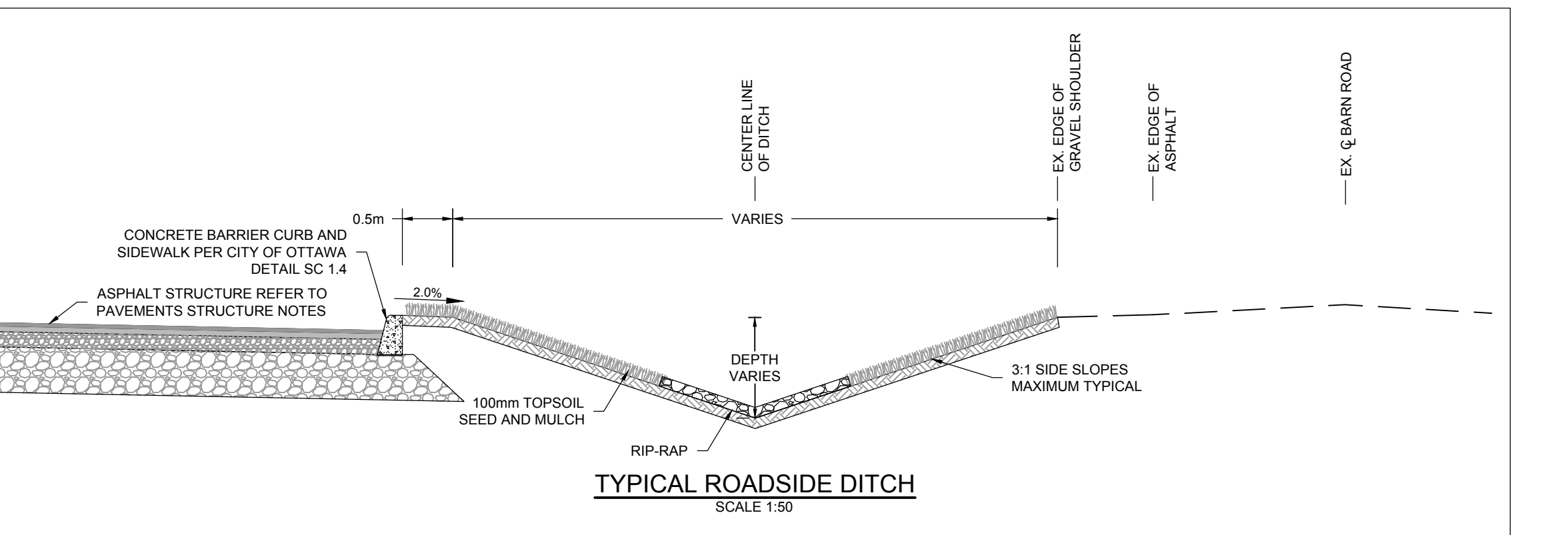


SEWER & WATERMAIN INSULATION NOTES:

- 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).

COVER SEWER / WATER (mm)	INSULATION THICKNESS (mm)
2000-1700 / 2400-2100	50
1700-1400 / 2100-1800	75
1400 / 1800-1500	100

T = THICKNESS OF INSULATION (mm)
 W = WIDTH OF INSULATION (mm)
 D = O.D OF PIPE (mm)



APPROVED
 By Allison Hamlin at 1:10 pm, Aug 03, 2023

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.

NO.	REVISION	DATE	BY
7	REVISED PER CITY COMMENTS	JUN 2023	MJH
6	ISSUED FOR GMP	JUN 14/23	MJH
5	REVISED PER CITY COMMENTS	MAR 03/23	MJH
4	DESIGN DOCUMENTS PACKAGE	NOV 15/22	MJH
3	REVISED PER CITY COMMENTS	NOV 08/22	MJH
2	REVISED PER CITY COMMENTS	APRIL 24/20	CJR
1	ISSUED FOR SITE PLAN APPROVAL	NOV 2019	CJR

SCALE: AS NOTED

FOR REVIEW ONLY

DESIGN	CHECKED	DRAWN	APPROVED
MJH	CJR	MJR	CJR
			JLS

LOCATION: 4837 ALBION ROAD, CITY OF OTTAWA HARD ROCK OTTAWA

DRAWING NAME: NOTES AND DETAILS GENERAL

PROJECT NO.: 116111

REV: REV #7

DRAWING NO.: 116111-ND1

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