

**SURFACE WATER MANHOLE SCHEDULE**

REF	COVER LEVEL	INVERT LEVEL
OUTFALL	90.500	91.435
S1	93.800	90.563
S2	94.136	91.102
S3	94.116	91.219
P.1	94.262	91.535
S4	94.368	91.606
S5	94.077	91.528
S6	94.341	91.789
S7	94.295	91.823
S8	94.361	91.868
S9	94.595	91.997
S10	94.782	92.160
S11	94.558	92.259
AJ12	94.695	93.781
AJ13	94.730	93.758
CP14	94.600	93.737
CP15	94.600	93.850
S16	94.954	92.199
S17	95.501	92.305
AJ18	94.980	94.027
CP19	94.850	93.960
CP20	95.075	94.123
AJ21	94.730	93.751
CP22	94.600	93.885
CP23	94.600	93.850
AJ24	94.580	93.554
CP25	94.450	93.522
CP26	94.450	93.788
AJ27	94.430	93.499
AJ28	94.430	93.507
CP29	94.300	93.442
CP30	94.300	93.550
S31	93.987	91.643
S32	93.898	91.672
S33	93.922	91.705
S34	93.801	91.815
S35	93.757	91.846
S36	93.809	91.876
S37	93.910	91.941
S38	93.881	91.963
S39	93.872	92.012
S40	93.839	92.041
S41	93.840	92.051
S42	93.847	92.111
S43	93.945	92.171
S44	93.831	92.431
S45	94.063	92.533
S46	94.437	92.663
AJ47	94.290	93.355
CP48	94.150	93.285
CP49	94.150	93.400
CP50	94.375	93.552
S51	93.851	92.451
CP52	94.375	92.719
CP52.1	94.375	92.436
CP52.2	94.375	92.175
CP52.3	93.851	92.496
CP53	94.375	93.117
CP54	94.375	93.489
CP55	94.600	93.850
CP56	93.888	92.412
CP57	93.695	92.923
CP58	93.695	93.614
CP59	93.695	93.742
S60	93.878	91.666
S61	93.849	91.755
S62	93.841	92.148
S63	93.864	92.188
S64	94.009	92.236
S65	93.911	92.230
CP66	93.910	92.322
CP67	94.150	93.160
CP68	94.150	93.400
CP69	93.885	92.967
CP70	94.335	93.135
CP71	94.335	93.585
AJ72	94.150	93.170
AJ73	94.130	93.191
CP74	94.000	93.129
CP75	94.050	93.282
CP76	94.000	93.250
S77	94.169	91.801
AJ78	94.290	93.321
AJ79	94.290	93.320
CP80	94.150	93.256
CP81	94.150	93.400
AJDP01	93.500	92.675
AJDP02	93.500	92.561
AJDP03	93.500	92.451
AJDP04	93.450	92.383
AJDP05	93.450	92.225
AJDP06	93.450	92.535



**LEGEND**

- REFER TO ARCHITECTS DRAWINGS FOR SITE BOUNDARY LINE
- OUTLINE OF WAYLEAVE FOR EXISTING 4000 WATERMAIN
- PROPOSED SURFACE WATER SEWER
- PROPOSED INFILTRATION TRENCH
- PROPOSED PERMEABLE PAVED DRIVEWAYS AND CAR PARK
- ROAD SIDE FILTER STRIPS WITH SUBBASE STORAGE AND INFILTRATION TO GROUND WHERE POSSIBLE
- ROAD SIDE TREE FITS WITH SUB-SURFACE STORAGE AND INFILTRATION TO GROUND WHERE POSSIBLE
- BIO RETENTION AREA WITH SURFACE WATER STORAGE AND INFILTRATION TO GROUND WHERE POSSIBLE

- NOTES:**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS.
  - ALL LEVELS ARE IN METRES O.D. MALIN HEAD.
  - THE POSITION AND LEVELS OF EXISTING SERVICES INsofar as they are KNOWN AND AS SHOWN ON THE DRAWINGS MAY NOT BE ACCURATE AND MERELY INDICATE THEIR PRESENCE IN THE WORKING AREA. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING SERVICES ON SITE.
  - THE SURVEY INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM A TOPOGRAPHICAL SURVEY UNDERTAKEN BY MURPHY GEOSPATIAL IN MAY 2021, DRAWING REFERENCE MGL41890\_T\_ITM\_Rev2
  - FOR DETAILS OF LONGITUDINAL SECTIONS REFER TO DRG. No. 21003-TJOC-ZZ-ZZ-DR-C-0068, 21003-TJOC-ZZ-ZZ-DR-C-0069 & 21003-TJOC-ZZ-ZZ-DR-C-0070
  - FOR DETAILS OF MANHOLES REFER TO DRG. No. 21003-TJOC-ZZ-ZZ-DR-C-0076 & 21003-TJOC-ZZ-ZZ-DR-C-0077
  - FOR DETAILS OF BEDDING REFER TO DRG. No. 21003-TJOC-ZZ-ZZ-DR-C-0074
  - FOR DETAILS OF BUILDING DRAINAGE CONNECTIONS REFER TO ARCHITECTS AND M/E DRAWINGS
  - ALL PIPEWORK IS 150mmØ UNLESS OTHERWISE NOTED.
  - WHERE EXCAVATIONS FOR DRAINAGE ENDOACH ON THE BEARING FOR FOUNDATIONS (I.E. PIPE IS BELOW FOUNDATION OR BELOW 45° LINE EXTENDING OUT AND DOWN FROM THE BOTTOM OF THE FOUNDATION), SUCH EXCAVATIONS SHALL BE BACKFILLED WITH LEAN MIX CONCRETE TO FORMATION LEVEL OF FOUNDATIONS. NEW FOUNDATIONS WILL BE INSTALLED AT A DEPTH TO SUIT THE PROPOSED NEW DRAINAGE.
  - PIPE BEDDING AND BACKFILL SHALL BE AS PER DRAWING 21003-TJOC-ZZ-ZZ-DR-C-0074 WITH CLASS E BEDDING FOR FLEXIBLE PIPE (UPVC AND THERMOPLASTIC STRUCTURED WALL PIPE) AND CLASS B BEDDING FOR RIGID PIPE (CONCRETE). BACKFILLING OF TRENCHES ABOVE PIPE BED AND SURROUND SHALL BE CLAUSE 804 MATERIAL WHERE TRENCHES ARE BENEATH ROADS, UNLESS SITUATION IS AS PER NOTE 10 ABOVE. WHERE PIPES ARE LAID UNDER SLABS AND CONCRETE SURFACES, THE TRENCHES SHALL BE BACKFILLED WITH HARD CORE COMPLYING WITH THE REQUIREMENTS OF SR21 AND IS EN 12424
  - SURFACE WATER SEWERS WITH A DIAMETER OF 150mm AND 225mm SHALL BE UPVC. ALL SURFACE WATER SEWERS WITH A DIAMETER OF 300mm AND GREATER SHALL BE CONCRETE PIPES UNLESS NOTED OTHERWISE. REFER TO LONG SECTIONS FOR SPECIFIED PIPE MATERIAL.
  - WHERE AN UNDERGROUND PIPE IS BUILT INTO A STRUCTURE THERE SHALL BE TWO FLEXIBLE JOINTS ADJACENT TO THE STRUCTURE. THE FIRST SHALL BE NOT MORE THAN ONE PIPE DIAMETER FROM THE OUTSIDE FACE OF THE STRUCTURE. THE LENGTH OF THE NEXT PIPE (ROCKER PIPE) SHALL NOT EXCEED 750mm FOR PIPES UP TO 4500.
  - SETTING OUT OF ALL SVP'S AND RWP'S TO ARCHITECTS DETAILS.
  - DRAINAGE TO LANDSCAPED AND NON CARRIAGEWAY PAVED AREAS BY LANDSCAPE ARCHITECTS.
  - ALL MANHOLES TO BE SET OUT ON SITE AND CO-ORDINATED WITH PROPOSED AND EXISTING SERVICES PRIOR TO CONSTRUCTION.
  - COVER LEVEL TO BE CO-ORDINATED WITH PROPOSED LANDSCAPING LEVELS.
  - ALL MANHOLE COVERS IN TRAFFICKED AREAS TO BE A MINIMUM OF CLASS D400 SOLID TOP COVERS. RECESSED COVERS TO BE PROVIDED IN PAVED LANDSCAPED AREAS.

REFER TO DRAWINGS 21003-TJOC-ZZ-ZZ-DR-C-0065 & 21003-TJOC-ZZ-ZZ-DR-C-0066 FOR PIPE SIZES AND FALLS AND DRAWINGS 21003-TJOC-ZZ-ZZ-DR-C-0071 & 21003-TJOC-ZZ-ZZ-DR-C-0072 FOR STORMTECH SURFACE WATER ATTENUATION DETAILS.

NOTE: WHERE FOUL SEWERS OR SURFACE WATER PIPES CROSS OVER THE EXISTING WATERMAIN, THEY SHALL CROSS AT RIGHT ANGLES TO THE EXISTING WATERMAIN AND SHALL BE LOCATED MIDWAY BETWEEN THE WATERMAIN JOINTS. THERE SHALL BE A MINIMUM OF 500mm VERTICAL SEPARATION DISTANCE BETWEEN THE TOP OF EXISTING WATERMAIN AND UNDERSIDE OF FOUL SURFACE WATER PIPE AT THE CROSSING POINT.

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CO2	AP	ISSUED AS ADDITIONAL INFORMATION	21.04.2022
CO1	AP	ISSUED FOR PLANNING	16.11.2021
REV	STAT	DESCRIPTION	DATE

DRAWING STATUS: ISSUED FOR PLANNING		
CHECKED BY: RON	REVIEWED BY: JM	APPROVED BY: JM

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PROJECT:	PROPOSED RESIDENTIAL DEVELOPMENT AT GORDON PARK
CLIENT:	GREENWALK DEVELOPMENT LTD.
DRAWING TITLE:	PROPOSED SURFACE WATER LAYOUT OVERALL PLAN
SCALE:	1:500 (A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - PIPE - HOLE - NUMBER	21003-TJOC-ZZ-ZZ-DR-C-0064
REV:	CO2