

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole	Cover
S1	39.724							
E. 342823.115	0.758					1200	E	D400
N. 398619.581			0	1.000	38.741	225		
S2	40.195		1	1.000	38.644	225		
E. 342844.408	1.326					1200	E	D400
N. 398615.233			0	1.001	38.644	225		
S3	40.243		1	1.001	38.569	225		
E. 342841.052	1.449					1200	E	D400
N. 398598.793			0	1.002	38.569	225		
S4	40.252							
E. 342805.901	1.397					1200	E	D400
N. 398573.203			0	2.000	38.630	225		
S5	40.733		1	2.000	38.500	225		
E. 342834.627	2.008					1200	B	D400
N. 398567.336			0	2.001	38.500	225		
S6	40.526		1	1.002	38.463	225		
E. 342836.272	1.838		2	2.001	38.463	225		
N. 398575.375			0	1.003	38.463	225		
S7	40.832		1	1.003	38.408	225		
E. 342848.288	2.199					1200	B	D400
N. 398572.917			0	1.004	38.408	225		
S8	40.550		1	1.004	38.302	225		
E. 342853.079	2.023					1200	B	D400
N. 398596.338			0	1.005	38.302	225		
S9 HYDRO-BRAKE	40.539		1	1.005	38.283	225		
E. 342853.943	2.031					1500	HYDRO-BRAKE	D400
N. 398600.568			0	1.006	38.283	225		
S10 EXISTING MANHOLE	40.470		1	1.006	38.265	225		
E. 342851.465	1.980					EXISTING	EXISTING	EXISTING
N. 398603.898								

- IMPORTANT NOTES**
- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
 - ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
 - THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC PRIOR TO COMMENCING THE WORKS. THE NOTES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CON REGULATIONS AT ALL TIMES
 - THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES
 - EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
 - ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
 - ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
 - ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A. NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
 - WHERE 'ULTRA RIB' UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
 - A CLASS 5 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4.
 - SUB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
 - ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE
 - ALL MANHOLE COVERS TO BE RECESSED TO ACCEPT FINISH AS DETAILED BY LANDSCAPE ARCHITECT
 - SLOW REST BENDS TO BE USED IN ALL LOCATIONS MADE UP FROM 2x60-45 DEG BENDS (600mm TO INVERT FROM FFL)
 - MANHOLE POSITIONS AND ACCESS COVERS TO BE ACCURATELY SET-OUT BY LANDSCAPE ARCHITECT TO SUIT EXTERNAL FINISHES
 - ALL DRAINS CAST THROUGH FOUNDATIONS TO HAVE ROCKER PIPES ON BOTH SIDES OF FOUNDATION
 - ALL POP UP POSITIONS TO BE CONFIRMED SET OUT DIMENSIONS TO BE AGREED & PROVIDED BY OTHERS
 - ALL DISCHARGE RATES TO BE CONFIRMED BY M&E DESIGNER
 - ALL SURFACE WATER COLLECTION FEATURES TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT
 - STORAGE HAS BEEN PROVIDED IN A CELLULAR STORAGE TANK AND UP-SIZED MANHOLES AND PIPES.
 - EXISTING SEWER DEPTHS HAVE BEEN APPROXIMATED FROM LIMITED INFORMATION. NEW CONNECTIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF ANY DRAINAGE WORKS.
 - LANDSCAPE ARCHITECT TO CONFIRM GULLY AND DRAINAGE CHANNEL LOCATIONS TO LANDSCAPED AREAS.
 - FOUL NETWORK TO BE CONFIRMED FOLLOWING CONFIRMATION OF BRANCH CONNECTION POINTS FROM BUILDING M&E DESIGNER
 - CCTV SURVEY OF EXISTING SITE DRAINAGE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORKS STARTING ON SITE

P1	09.11.2022	PRELIMINARY ISSUE	LS	KOB	KOB
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:	PRELIMINARY
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CLIENT:	HUYTON ASPHALT LTD
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ARCHITECT:	DK-ARCHITECTS
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PROJECT:	LEES ROAD KNOWSLEY INDUSTRIAL PARK KNOWSLEY
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TITLE:	MANHOLE SCHEDULE
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STATUS:	PROJECT No:	PROJECT	ORIGINATOR	VOL	SYST	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	221-160	LRK	-AJP	-ZZ	-00	-DR	-C	-0002	P01	

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
NTS	LS	LS	KOB	KOB	NOV 2022