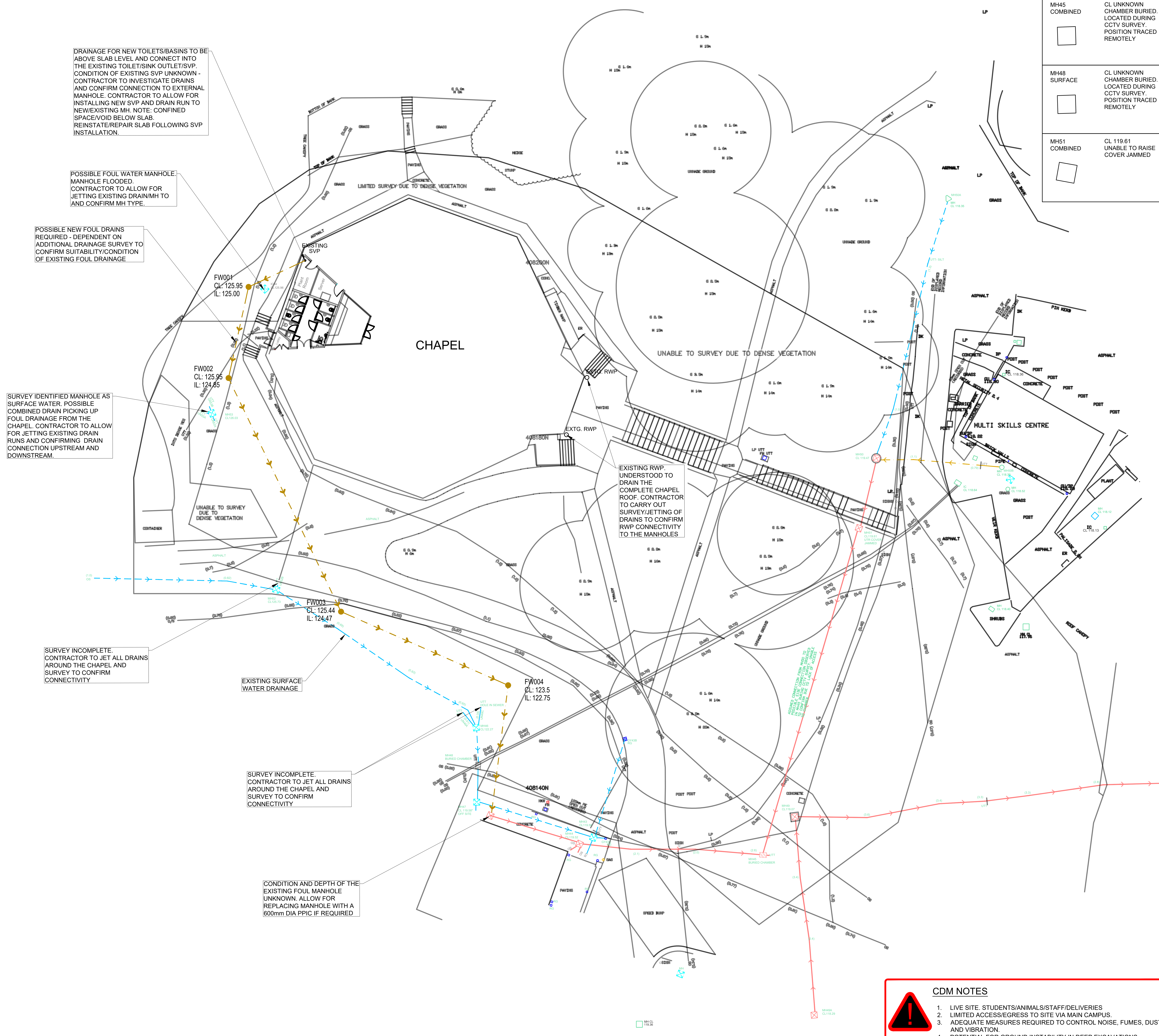
DRAINAGE DESIGN BASED ON UTILITY SURVEY CARRIED OUT BY MET. REFER TO SURVEY DRAWING P21-00027-001 & 002. DATED 09.02.2024. POSSIBLE CHANGES REQUIRED - SUBJECT TO RECEIPT OF PLANNING CONDITIONS



DRAINAGE FOR NEW TOILETS/BASINS TO BE ABOVE SLAB LEVEL AND CONNECT INTO THE EXISTING TOILET/SINK OUTLET/SVP. CONDITION OF EXISTING SVP UNKNOWN - CONTRACTOR TO INVESTIGATE DRAINS AND CONFIRM CONNECTION TO EXTERNAL MANHOLE. CONTRACTOR TO ALLOW FOR INSTALLING NEW SVP AND DRAIN RUN TO NEW/EXISTING MH. NOTE: CONFINED SPACE/VOID BELOW SLAB. REINSTATE/REPAIR SLAB FOLLOWING SVP INSTALLATION.

POSSIBLE FOUL WATER MANHOLE. MANHOLE FLOODED. CONTRACTOR TO ALLOW FOR JETTING EXISTING DRAIN/MH TO AND CONFIRM MH TYPE.

POSSIBLE NEW FOUL DRAINS REQUIRED - DEPENDENT ON ADDITIONAL DRAINAGE SURVEY TO CONFIRM SUITABILITY/CONDITION OF EXISTING FOUL DRAINAGE

SURVEY IDENTIFIED MANHOLE AS SURFACE WATER. POSSIBLE COMBINED DRAIN PICKING UP FOUL DRAINAGE FROM THE CHAPEL. CONTRACTOR TO ALLOW FOR JETTING EXISTING DRAIN RUNS AND CONFIRMING DRAIN CONNECTION UPSTREAM AND DOWNSTREAM.

EXISTING RWP. UNDERSTOOD TO DRAIN THE COMPLETE CHAPEL ROOF. CONTRACTOR TO CARRY OUT SURVEY/JETTING OF DRAINS TO CONFIRM RWP CONNECTIVITY TO THE MANHOLES

SURVEY INCOMPLETE. CONTRACTOR TO JET ALL DRAINS AROUND THE CHAPEL AND SURVEY TO CONFIRM CONNECTIVITY

EXISTING SURFACE WATER DRAINAGE

SURVEY INCOMPLETE. CONTRACTOR TO JET ALL DRAINS AROUND THE CHAPEL AND SURVEY TO CONFIRM CONNECTIVITY

CONDITION AND DEPTH OF THE EXISTING FOUL MANHOLE UNKNOWN. ALLOW FOR REPLACING MANHOLE WITH A 600mm DIA PPIC IF REQUIRED

SCHEDULES FOR DRAINAGE CHAMBERS FROM MET SURVEY DRAWING

MH35 SURFACE CL 120.74 CHAMBER: 900Ø PIPE X: 150Ø IL 119.96 PIPE A: 150Ø IL 120.05 SILT: 1.14mbgl WATER: 0.77mbgl	MH43 SURFACE CL 119.56 CHAMBER: 0.72m x 0.72m PIPE X: IL 118.02 PIPE A: IL 118.03 PIPE B: IL 118.70 PIPE X,A&B: 150Ø PIPE C: 100Ø IL 118.31	MH44 COMBINED CL 119.52 CHAMBER: 0.90 x 0.90 PIPE X: 225Ø IL 117.71 PIPE A: 150Ø IL 117.78 PIPE B: 100Ø IL 117.87 PIPE C: 225Ø IL 117.73
MH45 COMBINED CL UNKNOWN CHAMBER BURIED. LOCATED DURING CCTV SURVEY. POSITION TRACED REMOTELY	MH46 CATCH PIT CL 122.27 CHAMBER: UTM PIPE X: 150Ø IL 121.36 PIPE A: 100Ø IL 121.82 PIPE B: 150Ø IL 121.60 PIPE C: 150Ø IL 122.57 SILT: 0.95mbgl WATER: 0.91mbgl	MH47 SURFACE CL: 119.58* CHAMBER: 0.90m x 0.90m PIPE X: 150Ø IL 118.22 PIPE A: 150Ø IL 118.23 PIPE B: 150Ø IL 118.35
MH48 SURFACE CL UNKNOWN CHAMBER BURIED. LOCATED DURING CCTV SURVEY. POSITION TRACED REMOTELY	MH49 COMBINED CL 119.07 CHAMBER: 1.00m x 0.80m PIPE X: 225Ø IL 115.26 PIPE A: 225Ø IL 115.28	MH50 COMBINED CL 119.47 CHAMBER: 1050Ø PIPE X: 225Ø IL 117.46 PIPE A: 225Ø IL 117.48 PIPE B: 100Ø IL 117.59
MH51 COMBINED CL 119.61 UNABLE TO RAISE COVER JAMMED	MH52 SURFACE CL 125.73 CHAMBER: 0.80m x 0.60m PIPE X: 150Ø IL 124.95 PIPE A: 150Ø IL 124.96 PIPE B: 100Ø IL 124.97	MH53 SURFACE CL 126.03 CHAMBER: 0.45m x 0.60m PIPE X: 100Ø IL 126.20 PIPE A: 100Ø IL 126.22 PIPE B: 100Ø IL 126.23

DO NOT SCALE, IF IN DOUBT ASK. DO NOT INTERROGATE CAD BASE

DRAINAGE NOTES:

1. THIS DRAWING HAS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS & ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. FOR DRAINAGE DETAILS REFER TO DRAWING P15715-510
3. FOR LOCATION OF ALL R.W.P's & INTERNAL POP-UP's REFER TO ARCHITECTS DRAWING. ALL DOWN PIPES TO BE FITTED WITH ACCESS HANDHOLES ABOVE F.F.L. OR GROUND LEVEL.
4. ALL GULLY CONNECTIONS TO BE 150Ø U.N.O. ALL S.V.P. CONNECTIONS TO BE MINIMUM 100Ø OR TO MATCH S.V.P. DOWNPIPE IF GREATER. ALL R.W.P. CONNECTIONS TO BE 150Ø OR TO MATCH R.W.P. DOWNPIPE.
5. ALL PIPES UP TO 450Ø TO BE UPVC PIPES. PIPES GREATER THAN 450Ø TO BE CONCRETE.
6. PIPES UNDER ROADS HAVING 1200mm OR LESS COVER ARE TO BE ENCASED IN CONCRETE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
7. MANHOLE COVER LEVELS ARE INDICATIVE AND SHOULD BE SET TO SUIT FINISHED ROAD LEVEL AND CAMBER.
8. ALL EXTERNAL MANHOLES WITHIN ROADS TO BE FITTED WITH LOADCLASS D400 COVERS U.N.O. ALL EXTERNAL MANHOLES WITHIN SOFT LANDSCAPING TO BE FITTED WITH LOADCLASS C250 COVERS U.N.O. ALL IN ACCORDANCE WITH BS EN 124:2015 (ALL PARTS).
9. INVERT LEVELS OF EXISTING DRAINS AND MANHOLES TO BE CONFIRMED ON SITE PRIOR TO COMMENCING OPERATIONS.
10. DRAINAGE DESIGN AND INSTALLATION TO BE TO THE SATISFACTION OF THE LOCAL BUILDING CONTROL DEPARTMENT AND TO COMPLY WITH BS EN 752:2017, BS EN 1610:2015, BS EN 12056-1:2000, BS EN 12056-2:2000 and BS EN 12056-3:2000.
11. ADOPTABLE DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF 'SEWERS FOR ADOPTION'.
12. ALL NEW INSPECTION CHAMBERS TO BE 450mm DIA UNLESS NOTED OTHERWISE. PPIC TO BE ENCASED IN CONCRETE.
13. NEW PIPES TO BE 150mm DIA UNLESS NOTED ON THE DRAWING OTHERWISE
14. SURFACE WATER AT 1:100 MIN AND FOUL AT 1:80 FALLS

KEY:

SW000 CL: IL:	150Ø, Xm @ 1:X	SURFACE WATER MH & DRAINAGE RUN
FW000 CL: IL:	150Ø, Xm @ 1:X	FOUL WATER MH & DRAINAGE RUN
FW RISE CL: IL:	XXØ, Xm @ 1:X	PROPOSED FOUL WATER P/S & RISING MAIN
SW RISE CL: IL:	XXØ, Xm @ 1:X	PROPOSED SURFACE WATER P/S & RISING MAIN
EX SW CL: IL:	XXØ, Xm @ 1:X	EXISTING SURFACE WATER MH & DRAINAGE RUN
EX FW CL: IL:	150Ø, Xm @ 1:X	EXISTING FOUL WATER MH & DRAINAGE RUN
SW RISE CL: IL:	XXØ, Xm @ 1:X	EXISTING SURFACE WATER P/S & RISING MAIN
EX CW CL: IL:	XXØ, Xm @ 1:X	EXISTING COMBINED WATER MH & DRAINAGE RUN
	✕—✕—✕—✕	EXISTING DRAINAGE TO BE REMOVED
	○ RE	SURFACE RODDING EYE
	○ RWP	RAINWATER PIPE
	● SVP	SOIL VENT PIPE
	● ST	DENOTES CHANNEL SILT TRAP
	G	SURFACE GULLY WITH SILT TRAP. TO BE RODDABLE
	SW DRAINAGE CHANNEL	SURFACE SLOT DRAIN. ACO OR SIMILAR PRODUCT. TO BE AGREED WITH CLIENT
		EXISTING DRAINAGE CHANNEL

CDM NOTES

1. LIVE SITE. STUDENTS/ANIMALS/STAFF/DELIVERIES
2. LIMITED ACCESS/EGRESS TO SITE VIA MAIN CAMPUS.
3. ADEQUATE MEASURES REQUIRED TO CONTROL NOISE, FUMES, DUST AND VIBRATION.
4. POTENTIAL FOR GROUND INSTABILITY IN DEEP EXCAVATIONS. SANDS/GRAVELS
5. RISK OF EXISTING KNOWN/UNKNOWN SERVICE ROUTES ACROSS SITE, REFER TO MET UTILITY DRAWING P21-00027 FEB 2024
6. CONTRACTOR TO INVESTIGATE LEVEL OF EXISTING DRAINAGE AT PROPOSED CONNECTION POINTS PRIOR TO INSTALLING DRAINAGE RUNS

REV.	DATE.	REVISION.	BY.	CHK.
–		FIRST ISSUE.	PH	SJ

Hopwood Hall College

Milnrow Chapel
Middleton Campus

Drainage Layout Plan

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PLANNING

DATE CREATED: May 2024
SCALE: 1:500 @ A1
CONTRACT No: P15715
DRAWING No: 500
REV: -