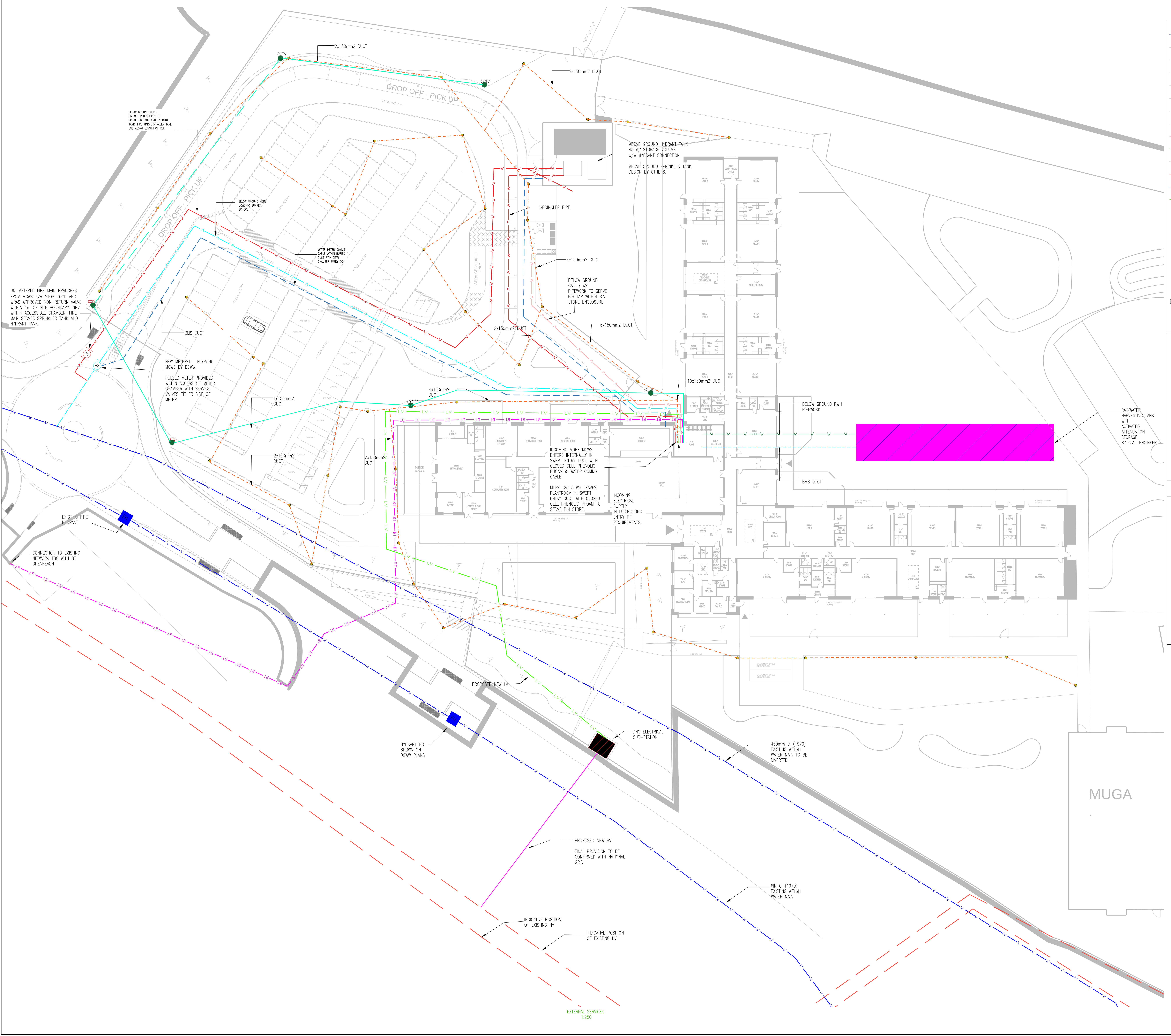
File name C:\USERS\UKTJ001\WSP O365\GOETRE PRIMARY SCHOOL - GENERAL\03 WIP\CS MEP COMBINED SERVICES\02 CAD-BIM MODELS\EXTERNAL SERVICES\26CB01-WSP-XX-XX-DR-N-500001 MEP EXTERNAL SERVICES (IJ SCALES).DWG, printed on 17 January 2024 15:49:37, by John, Iestyn


2x150mm2 DUCT
CCTV
BELOW GROUND MDPE UN-METERED SUPPLY TO SPRINKLER TANK AND HYDRANT TANK. FIRE MARKER/TRACER TAPE LAID ALONG LENGTH OF RUN
DROP OFF - PICK UP
BELOW GROUND MDPE MCWS TO SUPPLY SCHOOL
WATER METER COMMS CABLE WITHIN BURIED DUCT WITH DRAW CHAMBER EVERY 50m
UN-METERED FIRE MAIN BRANCHES FROM MCWS c/w STOP COCK AND WRAS APPROVED NON-RETURN VALVE WITHIN 1m OF SITE BOUNDARY. NRV WITHIN ACCESSIBLE CHAMBER. FIRE MAIN SERVES SPRINKLER TANK AND HYDRANT TANK.
BMS DUCT
NEW METERED INCOMING MCWS BY DCWW.
PULSED METER PROVIDED WITHIN ACCESSIBLE METER CHAMBER WITH SERVICE VALVES EITHER SIDE OF METER.
1x150mm2 DUCT
2x150mm2 DUCT
4x150mm2 DUCT
ABOVE GROUND HYDRANT TANK 45 m³ STORAGE VOLUME c/w HYDRANT CONNECTION
ABOVE GROUND SPRINKLER TANK DESIGN BY OTHERS.
SPRINKLER PIPE
SERVICE VEHICLE ONLY
4x150mm2 DUCT
BELOW GROUND CAT-5 WS PIPEWORK TO SERVE BIB TAP WITHIN BIN STORE ENCLOSURE
6x150mm2 DUCT
10x150mm2 DUCT
INCOMING MDPE MCWS ENTERS INTERNALLY IN SWEPT ENTRY DUCT WITH CLOSED CELL PHENOLIC PHOAM & WATER COMMS CABLE.
MDPE CAT 5 WS LEAVES PLANTROOM IN SWEPT ENTRY DUCT WITH CLOSED CELL PHENOLIC PHOAM TO SERVE BIN STORE.
INCOMING ELECTRICAL SUPPLY INCLUDING DNO ENTRY PIT REQUIREMENTS.
BELOW GROUND RWH PIPEWORK
BMS DUCT
RAINWATER HARVESTING TANK WITH ACTIVATED ATTENUATION STORAGE BY CIVIL ENGINEER
EXISTING FIRE HYDRANT
CONNECTION TO EXISTING NETWORK TBC WITH BT OPENREACH
PROPOSED NEW LV
HYDRANT NOT SHOWN ON DCWW PLANS
DNO ELECTRICAL SUB-STATION
450mm DI (1970) EXISTING WELSH WATER MAIN TO BE DIVERTED
PROPOSED NEW HV
FINAL PROVISION TO BE CONFIRMED WITH NATIONAL GRID
6IN CI (1970) EXISTING WELSH WATER MAIN
INDICATIVE POSITION OF EXISTING HV
INDICATIVE POSITION OF EXISTING HV
MUGA

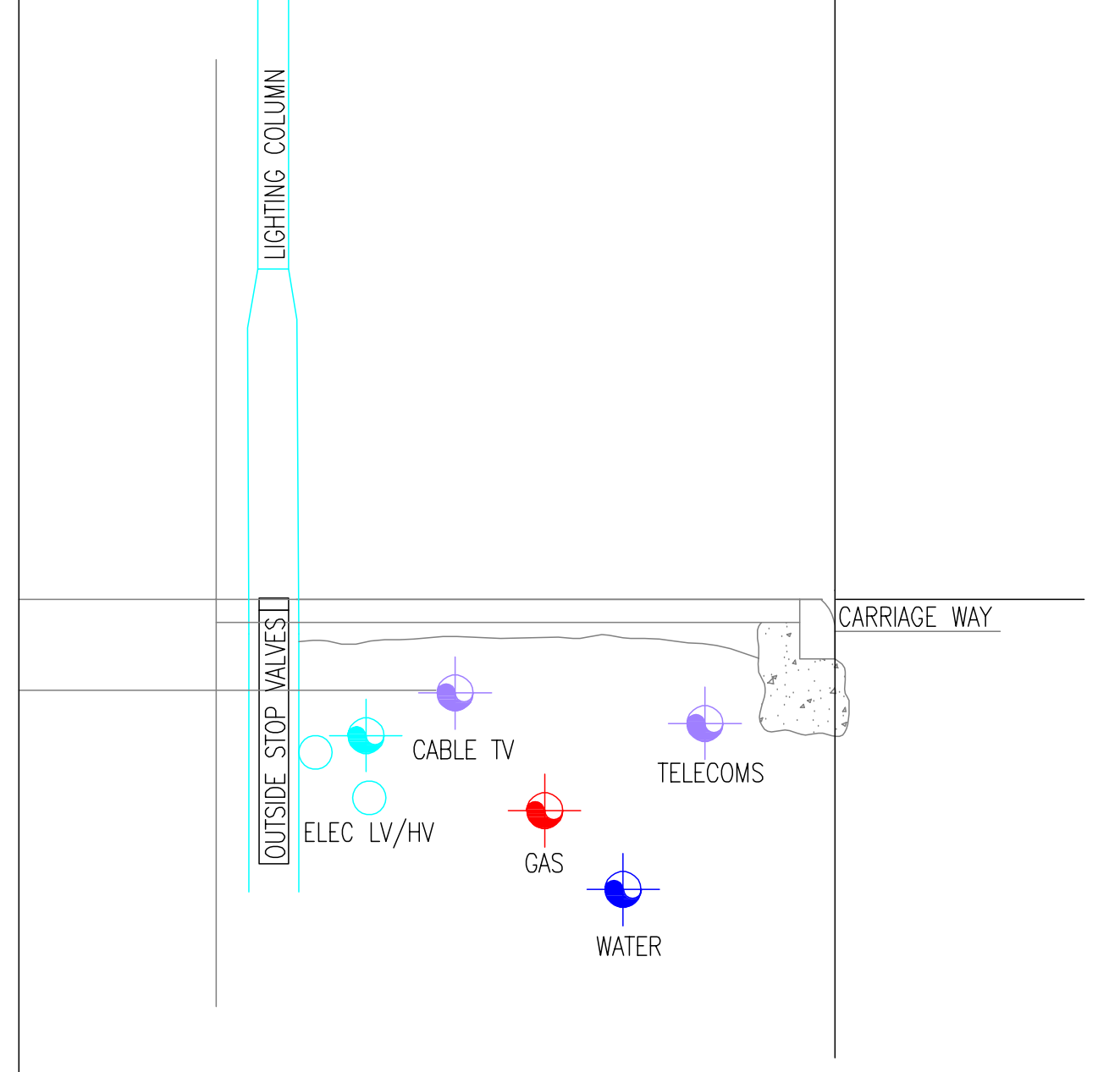
EXTERNAL SERVICES
1:250

LEGEND

—W—W—W—	EXISTING WATER MAIN
—W—W—W—	MCWS – POTABLE
—W—W—W—	CAT–5 WS
– – – – –	BMS DUCT
—W—W—W—	RWH PIPEWORK
— BT — BT —	EXISTING OPENREACH BT
— BT — BT —	PROPOSED OPENREACH BT
———	PROPOSED NEW HV
– – – – –	EXISTING HV
— LV — LV —	PROPOSED 200mm DIAMETER LV
-·-·-·-	PROPOSED LV (EXTERNAL LIGHTING)
—W—W—W—	MCWS – FIRE MAIN
— — —	PROPOSED ELV COMMS
– – – – –	PROPOSED BMS DUCT
Ⓜ	METER
FH	FIRE HYDRANT
●	LIGHTING COLUMN
CCTV ●	CCTV COLUMN WITH FIXED DOME CAMERA
▨	BELOW GROUND PLANT
▨	ABOVE GROUND PLANT

NOTES
1. ROUTES OF SERVICES ARE INDICATIVE ONLY. PLEASE REFER TO STATUTORY BODY MAPS.
2. SUITABLE BARRIER PIPE SHALL BE PROVIDED TO ALL WATER SERVICES

TYPICAL DETAIL SHOWING THE SEPARATION OF BURIED SERVICES
N.T.S



NOTES
1. ALL DIMENSIONS ARE IN mm
2. SEPARATION OF SERVICES ARE BASED ON THE NATIONAL JOINT UTILITIES GROUP PUBLICATION No.7 (RECOMMENDED POSITIONING OF UTILITIES MAINS AND PLANT FOR NEW WORKS) AND REPRESENT THE PREFERRED ARRANGEMENT IN STRAIGHT ROUTES ON RESIDENTIAL ESTATES. VARIATIONS MAY BE NECESSARY AT CURVES AND CHANGES OF GRADIENT.
3. THE SPACE ALLOCATED IN CONSIDERED TO BE THE ABSOLUTE MINIMUM AND IN CERTAIN CIRCUMSTANCES Eg. WHERE BOTH HV AND LV CABLES ARE LAID. THE LV CABLE WILL BE LAID IN THE ALTERNATIVE POSITION AND ADDITIONAL WIDTH MAY BE REQUIRED.
4. WHERE SERVICES ARE TO BE CONNECTED TO GAS MAINS, A MINIMUM DISTANCE OF 2.0m IS REQUIRED BETWEEN THE BUILDING LINE AND THE CENTRE LINE OF THE MAIN.

DO NOT SCALE

NOTES:

PURPOSE OF DRAWING:

[ ] CONCEPT DRAWING
[X] DEVELOPED DESIGN DRAWING
[ ] TECHNICAL DESIGN DRAWING

1. THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DOCUMENTS AND DRAWINGS PROVIDED BY WSP.
2. THE DRAWING INDICATES THE DESIGN INTENT FOR THE WORKS.
3. THE DRAWING DOES NOT INDICATE THE PRECISE POSITION OF SERVICES AND SHOWS THE INTENDED LOCATIONS OF BUILDING SERVICES ITEMS AND SERVICE ROUTES IN SUCH DETAIL AS TO INDICATE THE DESIGN. THE DRAWING DOES NOT SHOW ALL COMPONENTS THAT MAY BE NECESSARY TO LOCATE SERVICES IN A FULLY COORDINATED MANNER.
4. THE POSITIONS OF ALL CONNECTION POINTS, ACCESSORIES, EQUIPMENT AND OTHER BUILDING SERVICES ITEMS AS SHOWN ON THE DRAWING ARE APPROXIMATE AND FOR GUIDANCE IN THE PREPARATION OF THE TENDER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO–ORDINATION OF THE INSTALLATION AND SHALL TAKE ACCOUNT OF ALL OTHER WORKS AND TRADES EITHER DURING OR PRIOR TO THEIR INCORPORATION INTO THE WORKS.
6. COORDINATION WORKING DRAWINGS, INSTALLATION DRAWINGS AND BUILDERS WORK DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR.
7. WSP IS NOT RESPONSIBLE FOR THE DESIGN AND CO–ORDINATION OF ACCESS PLATFORMS, ACCESS COVERS, GRATINGS, LADDERS, STAIRS, RAILS AND PROTECTING ELEMENTS REQUIRED FOR FUTURE MAINTENANCE AND OPERATION OF THE WORKS.
8. THE DRAWING SHALL BE USED FOR THE INTENDED PURPOSE ONLY AND WSP WILL NOT BE HELD RESPONSIBLE FOR ANY OTHER USE.

DIMENSIONS:

1. DIMENSIONS SHALL NOT TO BE SCALED FROM THE DRAWING AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DIMENSIONS AND LEVELS ON SITE FOR THE ACTUAL SETTING OUT OF THE WORKS.
2. WSP IS NOT RESPONSIBLE FOR CHECKING DIMENSIONS ON SITE.
3. WSP IS NOT RESPONSIBLE FOR SETTING OUT GRID LINES, BUILDING LINES ETC.
4. WSP IS NOT RESPONSIBLE FOR DIMENSIONS USED IN THE ORDERING AND MANUFACTURING OF EQUIPMENT AND THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

HEALTH AND SAFETY

1. THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE HEALTH AND SAFETY INFORMATION PROVIDED IN THE TENDER DOCUMENTATION AND/OR WITHIN THE PRE–CONSTRUCTION INFORMATION.
2. BEFORE COMMENCEMENT OF WORKS ASSOCIATED WITH THE DRAWING REFER TO ALL RELEVANT HEALTH AND SAFETY INFORMATION FOR THE WORKS INCLUDING RESIDUAL RISK INFORMATION.
3. THE DRAWING HAS BEEN BASED ON INFORMATION PROVIDED BY THE PARTIES AND WSP DO NOT WARRANT THE ACCURACY OF THIS INFORMATION.

HEALTH AND SAFETY SYMBOLS LEGEND

●	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION
ℹ	INDICATES A RESIDUAL RISK FOR INFORMATION
⊘	INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION
⚠	INDICATES A RESIDUAL RISK AS A WARNING

REV	DATE	BY	DESCRIPTION	CHK	APP
P02	17/01/2024	IJ	DRAWING NUMBER UPDATES	JJ	DI
P01	15/12/2023	IJ	STAGE 3 ISSUE	JJ	DI

DRAWING STATUS:
S3 - DESIGN TEAM REVIEW

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PROJECT:
GOETRE PRIMARY SCHOOL

TITLE:
MEP EXTERNAL SERVICES

SCALE @ A0:	CHECKED:		APPROVED:
AS SHOWN	JJ		DI
PROJECT No:	DESIGNED:	DRAWN:	DATE:
70088857	IJ	IJ	December 23

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REV: P02

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