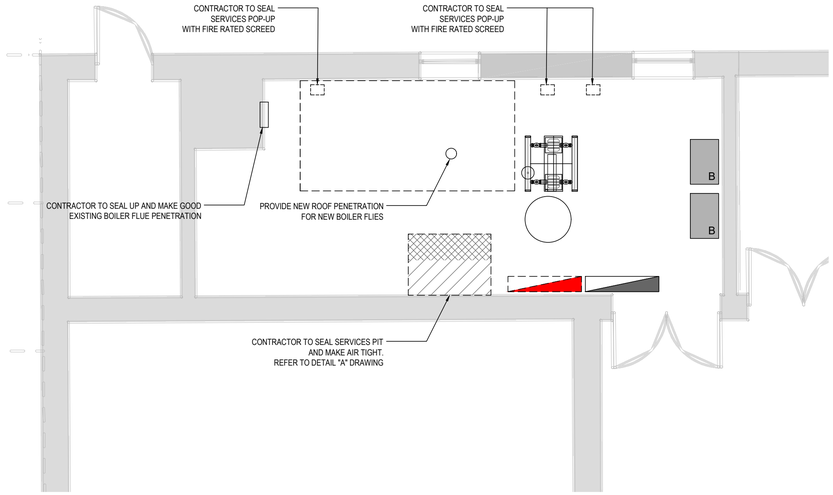
THIS DRAWING IS THE PROPERTY OF ENERJ BUILDING SERVICES ENGINEERING & SHALL NOT BE USED, REPRODUCED OR DISCLOSED TO ANYONE WITHOUT PRIOR WRITTEN PERMISSION OF ENERJ BUILDING SERVICES ENGINEERING & SHALL BE RETURNED UPON REQUEST.

GENERAL NOTES

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE ENERJ SPECIFICATION TOGETHER WITH THE REQUIREMENTS AND BUILDING REGULATIONS OF ALL STATUTORY AUTHORITIES, STANDARDS AND CODES RELEVANT TO THE WORKS.
2. THE ELECTRICAL CONTRACTOR SHALL CO-ORDINATE ALL SERVICES FULLY WITH ALL TRADES BEFORE COMMENCING WORK.
3. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS SHALL BE TAKEN ON SITE.
4. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY INFORMATION TO ALLOW PROPER CO-ORDINATION OF ALL SERVICES.
5. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.
6. EXACT LOCATION OF ALL SERVICES SHALL BE AGREED WITH THE EMPLOYERS REPRESENTATIVE PRIOR TO COMMENCEMENT ON SITE.
7. ALL SERVICES AS SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE FINAL TENDER PRICE.
8. SAMPLE OF ALL EQUIPMENT SHALL BE APPROVED BY CLIENT, ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO ORDERING.
9. ALL DIMENSIONS IN MILLIMETERS, UNLESS STATED OTHERWISE.

SITE SERVICES SERVICES NOTES

1. ALL EXTERNAL ELECTRICAL EQUIPMENT TO BE INGRESS PROTECTED, CORROSION RESISTANT TYPE.
2. ALL DUCT BENDS TO BE EASY SWEEP.
3. DUCTING ROUTES SHOWN ARE INDICATIVE. ALL DUCTING ROUTES TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION
4. DUCTING SHALL BE PROVIDED TO LAMP STANDARDS, BOLLARDS AND EVC WHETHER SHOWN OR NOT.
5. MINIMUM CLEARANCE OF 100mm BETWEEN DUCTS
6. TRENCHING SHALL GENERALLY BE EXCAVATED AT APPROX. 800mm WIDE.
7. DUCTS SHALL BE A MINIMUM OF 750mm BELOW FINISHED SURFACE MEASURED FROM TOP OF DUCT
8. WARNING TAPE SHALL BE INSTALLED BETWEEN DUCTS AND FINISHED SURFACE AT A MAXIMUM DEPTH OF 300mm,AND ALONG THE WHOLE LENGTH OF THE DUCT.
9. THE DUCTS SHALL BE PROVIDED WITH a 10mm DIAMETER KNOT-FREE CONTINUOUS DRAW-ROPE SECURELY ANCHORED AT BOTH ENDS.
10. THE DUCT SHALL BE DUCTS CLEAN AND ITS END SEALED WITH A PLASTIC CAP/WRAPPING FOLLOWING INSTALLATION TO PREVENT INGRESS OF DEBRIS/GRIT/STONES ETC
11. PROVIDE 75mm OF SAND AROUND DUCTS
12. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN LAYERS
13. ALL ACCESS CHAMBERS SHALL BE BLOCKWORK CONSTRUCTION
14. PROVIDE FULL SIZE REMOVABLE ACCESS CHAMBER COVERS.
15. ALL SERVICES TO BE TAKEN AS NEW UNLESS OTHERWISE NOTED AS EXISTING.
16. EXISTING ELECTRICAL SERVICES SHALL BE REMOVED, MADE SAFE, AND DISPOSED OF OFF SITE (EXCEPT THOSE THAT ARE LISTED AS BEING RETAINED)
17. CONTRACTOR TO DISPOSE ANY HAZARDOUS WASTE OF SAFELY IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS AND PAY ANY NECESSARY CHARGES.



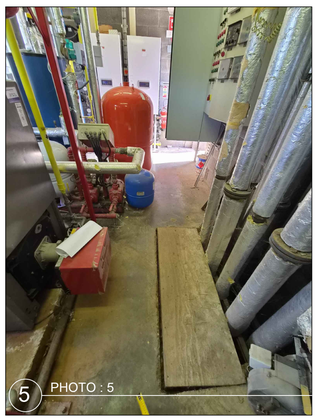
1 BW.100 BUILDERS WORKS BOILER PLANT ROOM LAYOUT
1:50 @ A1

SEALING OF EXISTING FLOOR SERVICE OPENING

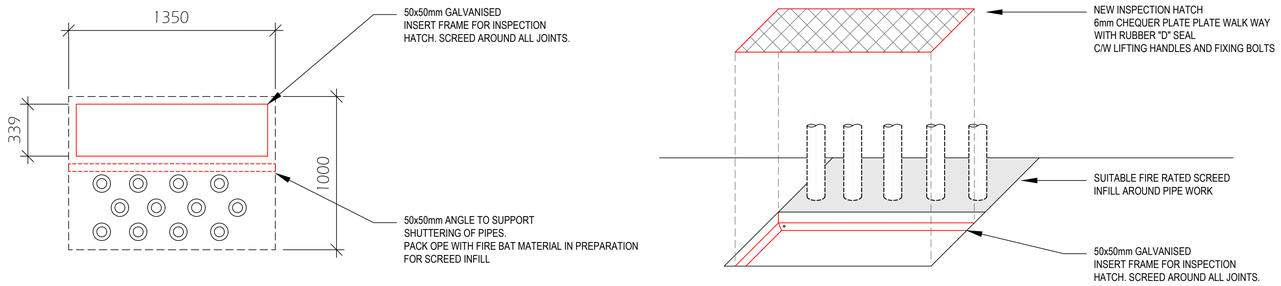
REMOVE THE EXISTING TIMBER COVERING AND ALL LOOSE MATERIAL, DEBRIS AND UNSUITABLE INFILL FROM THE FLOOR OPENING. CLEAN AND PREPARE THE OPENING AND EXPOSED CONCRETE SURFACES TO PROVIDE A SOUND SUBSTRATE.

PROVIDE A PROPRIETARY CASTABLE FIRE-RATED SEALING SCREED SYSTEM AROUND THE EXISTING SERVICE PENETRATIONS.
INSTALLATION SHALL INCLUDE:

- TEMPORARY NON-COMBUSTIBLE SHUTTERING OR PERMANENT HIGH-DENSITY MINERAL-WOOL BACKING BENEATH THE OPENING, INSTALLED IN ACCORDANCE WITH THE TESTED SYSTEM DETAIL;
- MINIMUM SEALING-SCREED DEPTH OF 100 MM, UNLESS A GREATER DEPTH IS REQUIRED BY THE SELECTED MANUFACTURER'S TESTED DETAIL;
- ALL PIPEWORK, INSULATION, SLEEVES AND SERVICE PENETRATIONS ARRANGED AND PREPARED IN ACCORDANCE WITH THE SELECTED SYSTEM'S FIELD OF APPLICATION;
- APPROVED FIRE-RATED COLLARS, WRAPS, SEALANTS OR INSULATION CONTINUATION DETAILS WHERE REQUIRED FOR COMBUSTIBLE PIPES, INSULATED METALLIC PIPES OR COMPOSITE SERVICES;
- CONTINUOUS FILLING OF ALL GAPS AND VOIDS AROUND SERVICES AND BETWEEN THE SEALING SCREED AND THE EXISTING FLOOR CONSTRUCTION;
- SUITABLE CORROSION PROTECTION TO EXPOSED METALLIC COMPONENTS THAT WILL BE IN CONTACT WITH THE SEALING SCREED;
- MAINTENANCE OF THE REQUIRED SEPARATION DISTANCES BETWEEN INDIVIDUAL SERVICES AND BETWEEN SERVICES AND THE PERIMETER OF THE OPENING;
- FINISHING OF THE UPPER SURFACE FLUSH WITH, OR SLIGHTLY PROUD OF, THE SURROUNDING FLOOR.
- PROVIDE A SEPARATE LOAD-RATED, BOLTED AND GASKETED ACCESS HATCH OVER THE INSPECTION-ACCESS PORTION OF THE PIT. THE ACCESS HATCH SHALL REMAIN FULLY REMOVABLE AND SHALL NOT INTERRUPT OR COMPROMISE THE TESTED FIRE-SEALING ARRANGEMENT AROUND THE SERVICE PENETRATIONS.



5 PHOTO : 5



2 BW.100 DETAIL "A" - SERVICES PIT DETAIL DRAWING
1:50 @ A1

REV	DESCRIPTION	DRN	ENG	APP	DATE
T1	ISSUED FOR TENDER	JH	JH	JH	26.08.26

EnerJ
BUILDING SERVICES ENGINEERING AND BUILDING PERFORMANCE
T +353 86 028 6302 E johnhayes@enerj.ie
T +353 87 933 9298 E johnhssett@enerj.ie

PROJECT
COLÁISTE MHUIRE
BOILER UPGRADE EMERGENCY WORKS

CLIENT
KILKENNY AND CARLOW
EDUCATION AND TRAINING BOARD

DRAWING TITLE
MECHANICAL SERVICES
LPHW BOILER SYSTEM
BOILER HOUSE BUILDERS WORKS

SCALE	SHEET SIZE	PROJECT No.	DRAWING No.	REV.
1:50	A1	26-020	BW-100	T1