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Standard construction hazards that a competent contractor would be aware of have not been identified on this drawing. Any risks not immediately apparent are identified within the CDM Residual Risk Register.

SVP - SOIL VENT PIPE WVP - WASTE VENT PIPE WP - WASTE PIPE AAV - AIR ADMITTANCE VALVE RE - RODDING EYE

EXISTING ABOVE GROUND DRAINAGE PIPEWORK, FITTINGS, BRACKETS, FIXINGS AND ANCILLARY ITEMS TO BE DECOMMISSIONED AND STRIPPED BACK TO THE CONNECTION TO BELOW GROUND
DRAINAGE SYSTEM. WHERE EXISTING CONNECTIONS ARE TO NOT BE
UTILISED AS PART OF THE NEW INSTALLATION, THE CONNECTIONS ARE TO BE SUITABLY SEALED AND CAPPED.

. THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4 TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED
BY BSRIA BG6 :2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON

GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE.

3. PIPEWORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS, BRACKETS & SUPPORT SYSTEMS.

4. PIPELINES PASSING THROUGH A FIRE RATED ELEMENT OF CONSTRUCTION SHALL INCLUDE A SUITABLY RATED FIRE COLLAR. 5. RODDING ACCESS POINTS SHALL BE PROVIDED IN VERTICAL PIPEWORK AT GROUND LEVEL AND EVERY 3RD STOREY. LOCATED 1500mm ABOVE

6. RODDING ACCESS POINTS SHALL BE PROVIDED IN THE ENDS OF HORIZONTAL SOIL AND WASTE PIPEWORK AND AT CHANGES IN PIPE

7. INCLUDE PROPRIETARY WATER-LESS TRAPS AT RELIEF VALVE TUNDISH WASTE PIPE AND CONDENSATE DISPOSAL PIPE CONNECTIONS INTO THE AGD PIPE SYSTEM.

8. SVPS NOT ROUTED TO ABOVE ROOF LEVEL SHALL INCLUDE A PROPRIETARY AIR ADMITTANCE VALVE ASSEMBLY.

9. SVPS WHICH EXIT THE BUILDING THROUGH THE ROOF SHALL BE FITTED WITH A SUITABLE WEATHER FLASHING AND PROPRIETARY PIPE TERMINAL/BIRD SCREEN.

10. WASTE PIPEWORK AND FITTINGS SHALL BE IN PUSH-JOINTED PVCU PIPE, SIZES < 40mm DIA.

11. SOIL PIPEWORK AND FITTINGS SHALL BE PUSH-JOINTED PVCU PIPE, SIZES > 82mm DIA.

P04 22.09.23 SUITABLE FOR TENDER P03 25.08.23 STAGE 4 REVIEW P02 02.06.23 UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS DESCRIPTION A sustainable future... engineered. TGA Consulting Engineers LLP, Salvus House, Aykley Heads, Durham City. DH1 5TS. E: info@tgace.co.uk T: 0191 3862314 ELSECAR: FORGING AHEAD

PURCELL

BUILDINGS 20 & 21 **GROUND FLOOR**

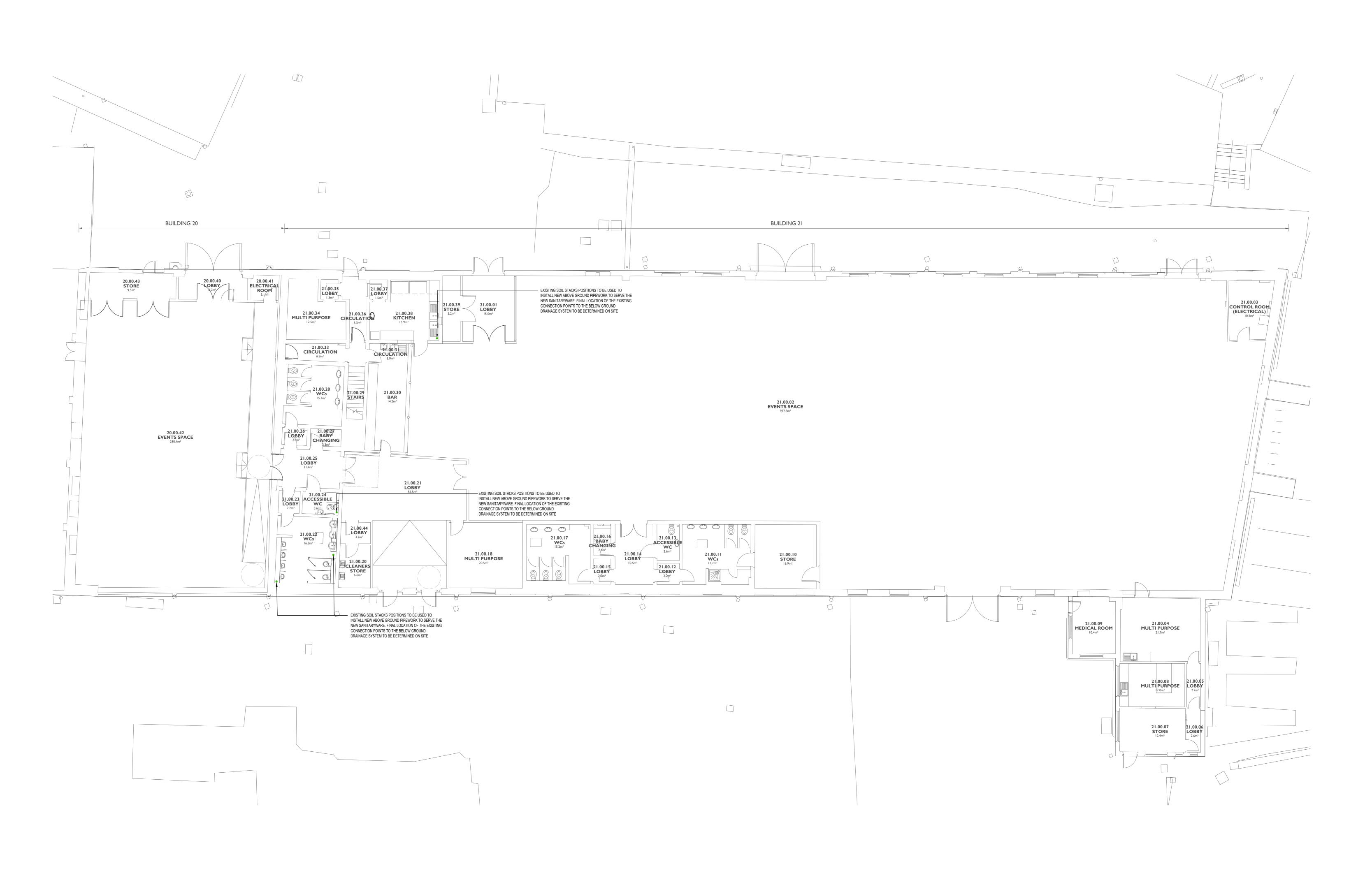
BARNSLEY MBC Suitability: Code Description
D2 FOR TENDER

1:100 P04 8193 Drawing Reference:

MECHNICAL ENGINEERING SERVICES

EXISTING ABOVE GROUND DRAINAGE SYSTEM

Project-Originator-Zone-Level-Type-Role-Classification-Number EFAS-TGA-20-00-DR-M-52001



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SVP - SOIL VENT PIPE WVP - WASTE VENT PIPE WP - WASTE PIPE AAV - AIR ADMITTANCE VALVE RE - RODDING EYE

> THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4 TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED BY BSRIA BG6 :2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN

- 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE.
- 3. PIPEWORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS, BRACKETS & SUPPORT SYSTEMS.
- 4. PIPELINES PASSING THROUGH A FIRE RATED ELEMENT OF CONSTRUCTION SHALL INCLUDE A SUITABLY RATED FIRE COLLAR. RODDING ACCESS POINTS SHALL BE PROVIDED IN VERTICAL PIPEWORK
- AT GROUND LEVEL AND EVERY 3RD STOREY. LOCATED 1500mm ABOVE
- 6. RODDING ACCESS POINTS SHALL BE PROVIDED IN THE ENDS OF HORIZONTAL SOIL AND WASTE PIPEWORK AND AT CHANGES IN PIPE
- . INCLUDE PROPRIETARY WATER-LESS TRAPS AT RELIEF VALVE TUNDISH WASTE PIPE AND CONDENSATE DISPOSAL PIPE CONNECTIONS INTO THE
- 8. SVPS NOT ROUTED TO ABOVE ROOF LEVEL SHALL INCLUDE A PROPRIETARY AIR ADMITTANCE VALVE ASSEMBLY.
- SVPS WHICH EXIT THE BUILDING THROUGH THE ROOF SHALL BE FITTED WITH A SUITABLE WEATHER FLASHING AND PROPRIETARY PIPE TERMINAL/BIRD SCREEN.
- 10. WASTE PIPEWORK AND FITTINGS SHALL BE IN PUSH-JOINTED PVCU PIPE, SIZES < 40mm DIA.

1. SOIL PIPEWORK AND FITTINGS SHALL BE PUSH-JOINTED PVCU PIPE, SIZES > 82mm DIA.

P04 22.09.23 SUITABLE FOR TENDER

P02 02.06.23 UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS

DESCRIPTION

A sustainable future... engineered.

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MECHNICAL ENGINEERING SERVICES

BUILDINGS 20 & 21 **GROUND FLOOR**

PURCELL

P04

Drawing Reference:

BARNSLEY MBC

Suitability: Code Description
D2 FOR TENDER

1:100

Project-Originator-Zone-Level-Type-Role-Classification-Number

EFAS-TGA-20-00-DR-M-52002

PROPOSED ABOVE GROUND DRAINAGE SYSTEM

8193

ELSECAR: FORGING AHEAD

P03 25.08.23 STAGE 4 REVIEW

P01 31.03.23 PRELIMINERY ISSUE



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DTB - DROP TO BELOW
DFA - DROP FROM ABOVE

EXISTING DOMESTIC HOT AND COLD WATER SERVICES, INCLUDING
LOCAL WATER HEATERS, PIPEWORK MAINS, PIPEWORK BRANCHES,
BRACKETS, FIXINGS AND ANCIALLARY ITEMS TO BE
DECOMMISSONED STRIPPED OUT AND REMOVED.

NOTES

1. THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4
TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED.

Standard construction hazards that a competent contractor would be aware of have not been identified on this drawing. Any risks not immediately apparent are identified within the CDM Residual Risk Register.

THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4
 TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED
 BY BSRIA BG6:2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON
 GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND
 FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN
 ACTIVITIES.

- ACTIVITIES.

 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE.

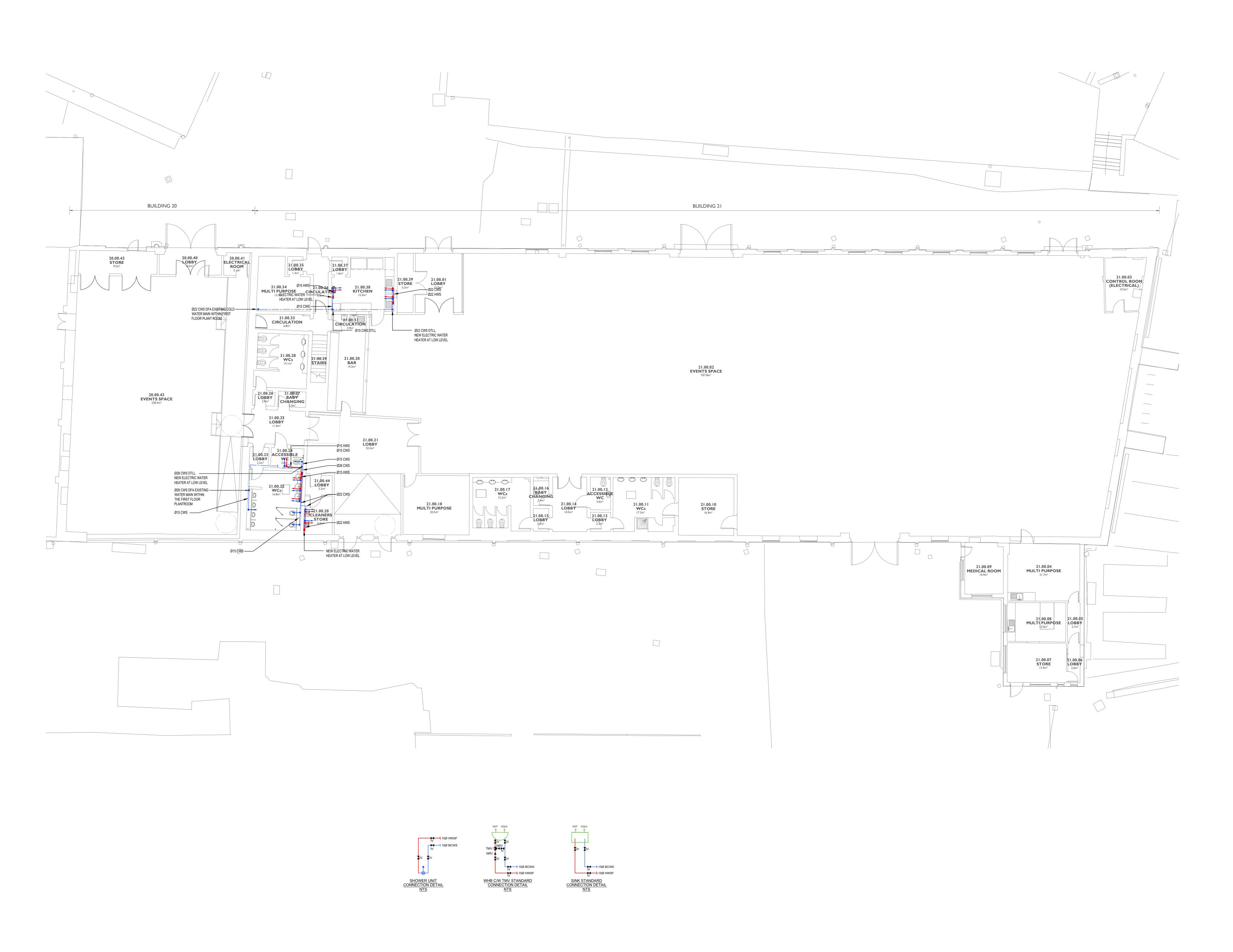
 3. PIPEWORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS, BRACKETS & SUPPORT SYSTEMS.

 4. ALL EQUIPMENT, VALVES AND OTHER ACCESSORIES SHALL BE FULLY
- 5. PIPELINES PASSING THROUGH A FIRE RATED ELEMENT OF CONSTRUCTION SHALL INCLUDE A SUITABLY RATED FIRE COLLAR.
- 6. ALL DOMESTIC APPLIANCES AND ITEMS OF SANITARYWARE SHALL INCLUDE A $\frac{1}{4}$ TURN TERMINAL ISOLATING VALVE.
- 7. WHITE GOODS AND OTHER DOMESTIC APPLIANCES SHALL INCLUDE A SINGLE CHECK VALVE AT THE POINT OF CONNECTION TO THE
- PIPEWORK SHALL BE IN FRIATHERM CPVC PLASTIC.

 ALL WASH HAND BASINS SHALL INCLUDE A TMV2 COMPILAL
- 9. ALL WASH HAND BASINS SHALL INCLUDE A TMV2 COMPLIANT THERMOSTATIC MIXING VALVE. SET TEMPERATURE TO 41°C.
- THERMOSTATIC MIXING VALVES SHALL INCLUDE A SINGLE CHECK VALVE ON HOT AND COLD WATER CONNECTIONS.
 ALL PIPELINES SHALL INCLUDE THERMAL INSULATION AND A VAPOUR BARRIER IN THE RUNNING LENGTH.
- 12. THERMAL INSULATION SHALL BE CONTINUOUS THROUGH SUPPORTS
- AND OVER PIPE FITTINGS.

 13. VALVES, STRAINERS, AND OTHER PIPELINE ACCESSORIES SHALL INCLUDE PROPRIETARY TIE-ON INSULATED JACKETS.
- PIPELINES SHALL INCLUDE SERVICE IDENTIFICATION/ DIRECTION OF FLOW LABELLING





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> Standard construction hazards that a competent contractor would be aware of have not been identified on this drawing. Any risks not immediately apparent are identified within the CDM Residual Risk Register. LEGEND PIPEWORK AT LOW LEVEL

-- PIPEWORK AT HIGH LEVEL CWS - COLD WATER SERVICED
DTLL - DROP TO LOW LEVEL RFB - RISE FROM BELOW RTA - RISE TO ABOVE RTCV - RISE TO CEILING VOID DTB - DROP TO BELOW DFA - DROP FROM ABOVE

NOTES THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4
TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED BY BSRIA BG6:2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN

- 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE. 3. PIPEWORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING
- LENGTH USING PROPRIETARY CLIPS, BRACKETS & SUPPORT SYSTEMS. 4. ALL EQUIPMENT, VALVES AND OTHER ACCESSORIES SHALL BE FULLY
- 5. PIPELINES PASSING THROUGH A FIRE RATED ELEMENT OF

CONSTRUCTION SHALL INCLUDE A SUITABLY RATED FIRE COLLAR.

- 6. ALL DOMESTIC APPLIANCES AND ITEMS OF SANITARYWARE SHALL INCLUDE A $\frac{1}{4}$ - TURN TERMINAL ISOLATING VALVE.
- WHITE GOODS AND OTHER DOMESTIC APPLIANCES SHALL INCLUDE A SINGLE CHECK VALVE AT THE POINT OF CONNECTION TO THE
- 8. PIPEWORK SHALL BE IN FRIATHERM CPVC PLASTIC.
- ALL WASH HAND BASINS SHALL INCLUDE A TMV2 COMPLIANT THERMOSTATIC MIXING VALVE. SET TEMPERATURE TO 41°C.
- 10. THERMOSTATIC MIXING VALVES SHALL INCLUDE A SINGLE CHECK VALVE ON HOT AND COLD WATER CONNECTIONS.
- 11. ALL PIPELINES SHALL INCLUDE THERMAL INSULATION AND A VAPOUR BARRIER IN THE RUNNING LENGTH.
- 12. THERMAL INSULATION SHALL BE CONTINUOUS THROUGH SUPPORTS AND OVER PIPE FITTINGS.
- 13. VALVES, STRAINERS, AND OTHER PIPELINE ACCESSORIES SHALL INCLUDE PROPRIETARY TIE-ON INSULATED JACKETS.

14. PIPELINES SHALL INCLUDE SERVICE IDENTIFICATION/ DIRECTION OF FLOW LABELLING

P05 22.09.23 SUITABLE FOR TENDER P03 05.06.23 ARCHITECTS COMMENTS INCORPORATED P02 02.06.23 UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS P01 31.03.23 PRELIMINARY ISSUE DESCRIPTION A sustainable future... engineered. TGA Consulting Engineers LLP,
Salvus House, Aykley Heads, Durham City. DH1 5TS.
E: info@tgace.co.uk T: 0191 3862314

ELSECAR: FORGING AHEAD

MECHANICAL ENGINEERING SERVICES PROPOSED DOMESTIC WATER SERVICES BUILDINGS 20 & 21 **GROUND FLOOR**

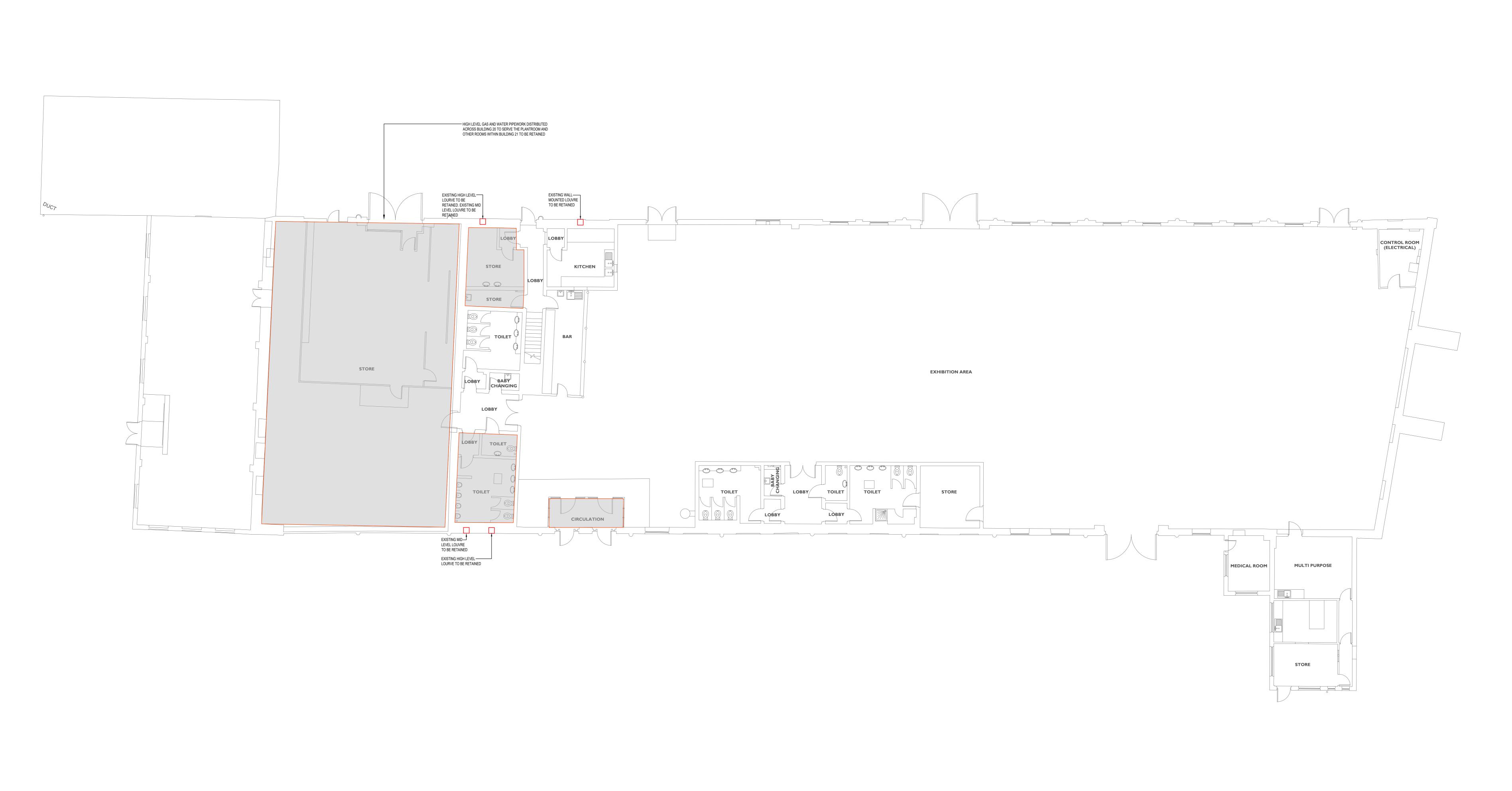
PURCELL

BARNSLEY MBC

Suitability: Code Description
D2 FOR TENDER 1:100 P05 8193

Drawing Reference: Project-Originator-Zone-Level-Type-Role-Classification-Number

EFAS-TGA-20-00-DR-M-53002



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Standard construction hazards that a competent contractor would be aware of have not been identified on this drawing. Any risks not immediately apparent are identified within the CDM Residual Risk Register.

EXISTING HEATING, VENTILATION AND COOLING SYSTEM EMITTERS, PIPEWORK, DUCTWORK, BRACKETS, FIXINGS AND ANCILLARY ITEMS TO BE DECOMMISSIONED, STRIPPED OUT AND REMOVED.

THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4
 TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED
 BY BSRIA BG6 :2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON
 GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND
 FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN
 ACTIVITIES.

GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND
FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN
ACTIVITIES.

2. READ IN CONJUNCTION WITH ALL OTHER RELATED DESIGN INFORMATION
INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND STRUCTURAL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE.

VENTILATION DUCTWORK SHALL BE IN GALVANISED STEEL TO BESA SPECIFICATION DW144.

 BENDS SHALL BE MEDIUM RADIUS. SQUARE BENDS SHALL INCLUDE

TURNING VANES.

6. SQUARE BENDS WITHOUT TURNING VANES SHALL NOT BE USED.

7. GALVANISED STEEL DUCTWORK, PASSING THROUGH FIRE RATED ELEMENTS OF CONSTRUCTION, SHALL INCLUDE SUITABLY RATED FIRE DAMPERS IN ACCORDANCE WITH THE PUBLISHED FIRE STRATEGY..

8. DUCTWORK WORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING

LENGTH USING PROPRIETARY CLIPS AND BRACKETS.

9. INCLUDE VOLUME CONTROL DAMPERS AND MOTORISED DAMPERS WHERE INDICATED ON THE DRAWINGS.

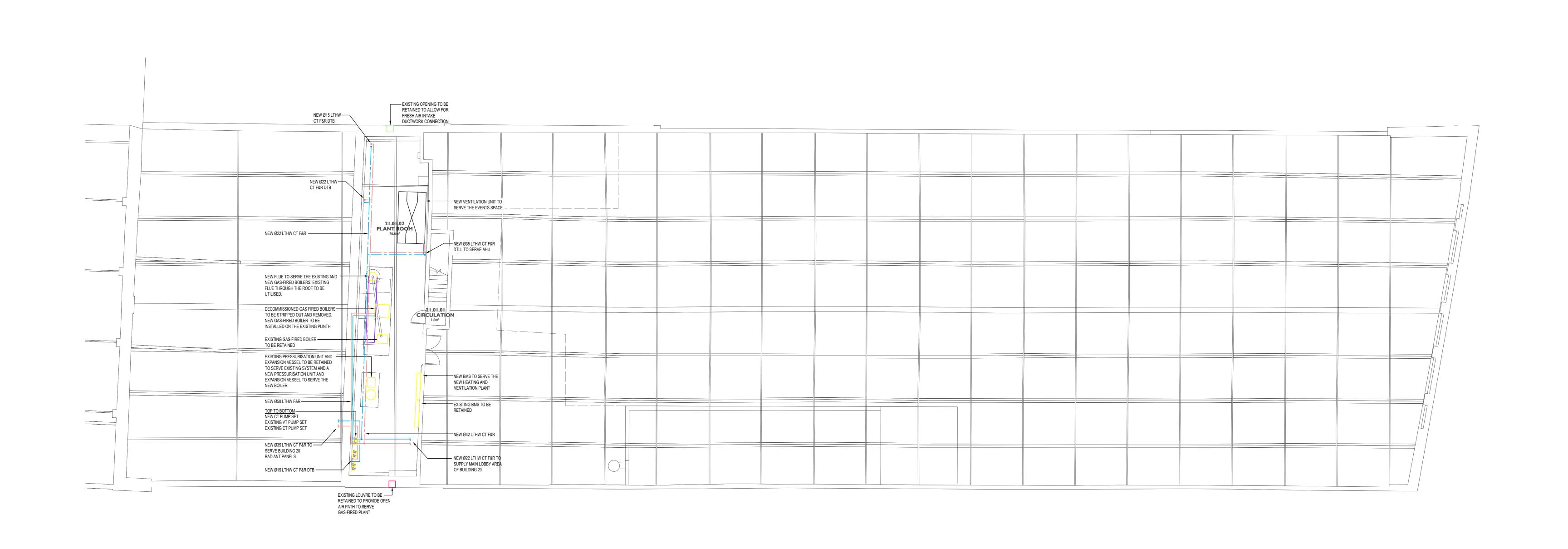
ALL DAMPERS AND OTHER DUCTWORK ACCESSORIES SHALL BE ACCESSIBLE. INCLUDE ADEQUALITY SIZED ACCESS DOORS.

THERMAL INSULATION SHALL BE CONTINUOUS IN THE RUNNING LENGTH,
 CONTINUOUS THROUGH SUPPORTS AND OVER FITTINGS.

 DUCTLINES SHALL INCLUDE DIRECTION OF FLOW AND SERVICE.

12. DUCTLINES SHALL INCLUDE DIRECTION-OF-FLOW AND SERVICE IDENTIFICATION LABELLING.

P04 22.09.23 SUITABLE FOR TENDER P03 25.08.23 STAGE 4 REVIEW P02 02.06.23 UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS DESCRIPTION A sustainable future... engineered. TGA Consulting Engineers LLP, Salvus House, Aykley Heads, Durham City. DH1 5TS. E: info@tgace.co.uk T: 0191 3862314 ELSECAR: FORGING AHEAD MECHNICAL ENGINEERING SERVICES EXISTING HEATING, VENTILATION & AIR CONDITIONING SERVICES BUILDINGS 20 & 21 GROUND FLOOR PURCELL BARNSLEY MBC Suitability: Code Description
D2 FOR TENDER 1:100 P04 8193 Drawing Reference: Project-Originator-Zone-Level-Type-Role-Classification-Number EFAS-TGA-20-00-DR-M-56001



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LOW SURFACE TEMPERATURE RADIATOR

----- PIPEWORK IN FLOOR VOID PIPEWORK AT LOW LEVEL PIPEWORK AT HIGH LEVEL DTLL DROP TO LOW LEVEL F&R FLOW & RETURN

LTHW LOW TEMPERATURE HOT WATER THIS DRAWING SHOWS THE DESIGN PROPOSAL FOR A WORKSTAGE 4 TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED BY BSRIA BG6 :2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN

2. READ IN CONJUNCTION WITH ALL OTHER RELATED DESIGN INFORMATION INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND STRUCTURAL

3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE.

THERMAL INSULATION SHALL BE CONTINUOUS IN THE RUNNING LENGTH, CONTINUOUS THROUGH SUPPORTS AND OVER FITTINGS.

P02 22.09.23 SUITABLE FOR TENDER P01 25.08.23 STAGE 4 REVIEW DESCRIPTION



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ELSECAR: FORGING AHEAD

MECHANICAL ENGINEERING SERVICES PROPOSED HEATING SERVICES BUILDING 20 & 21 FIRST FLOOR

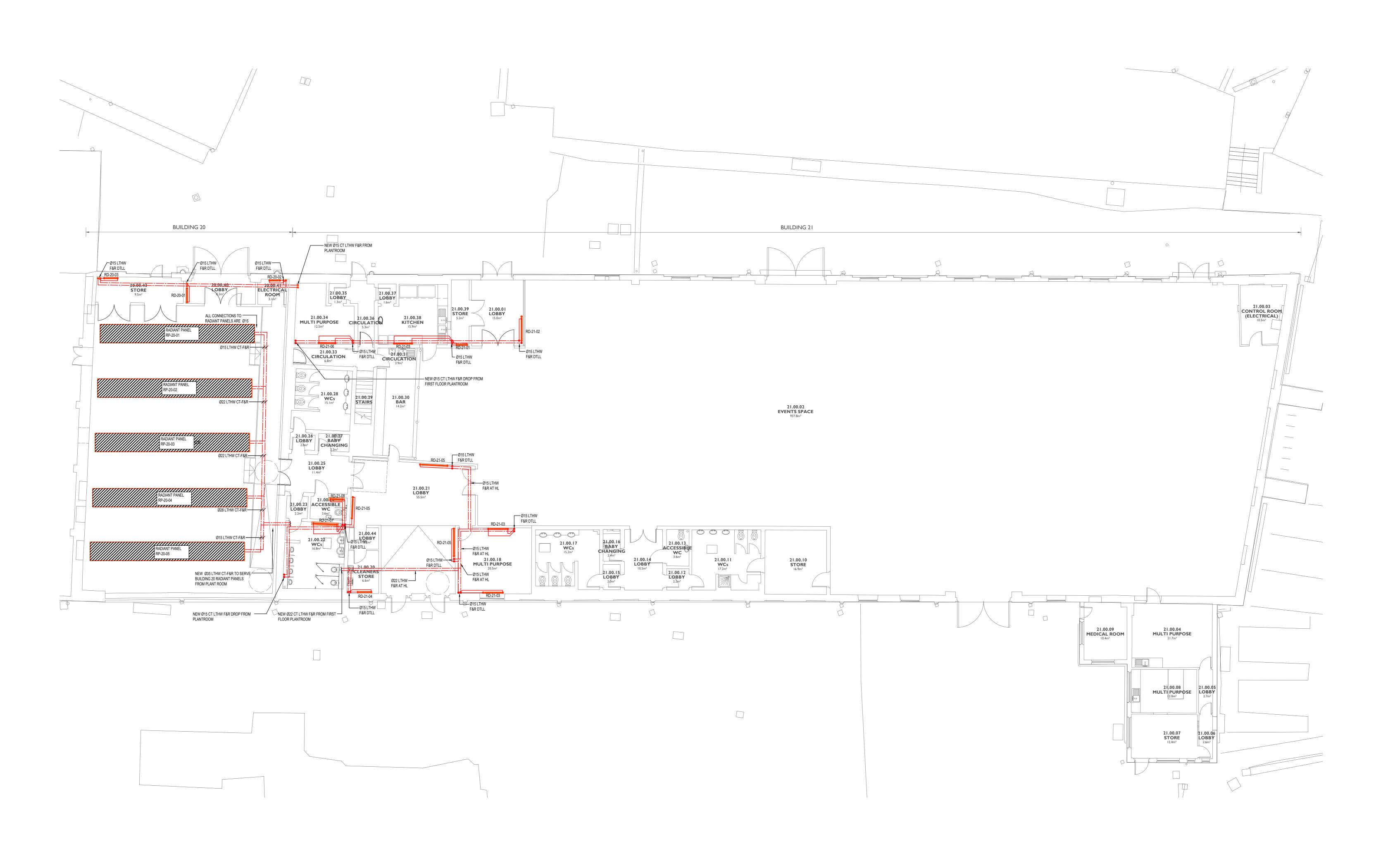
PURCELL

BARNSLEY MBC Suitability: Code Description
D2 FOR TENDER

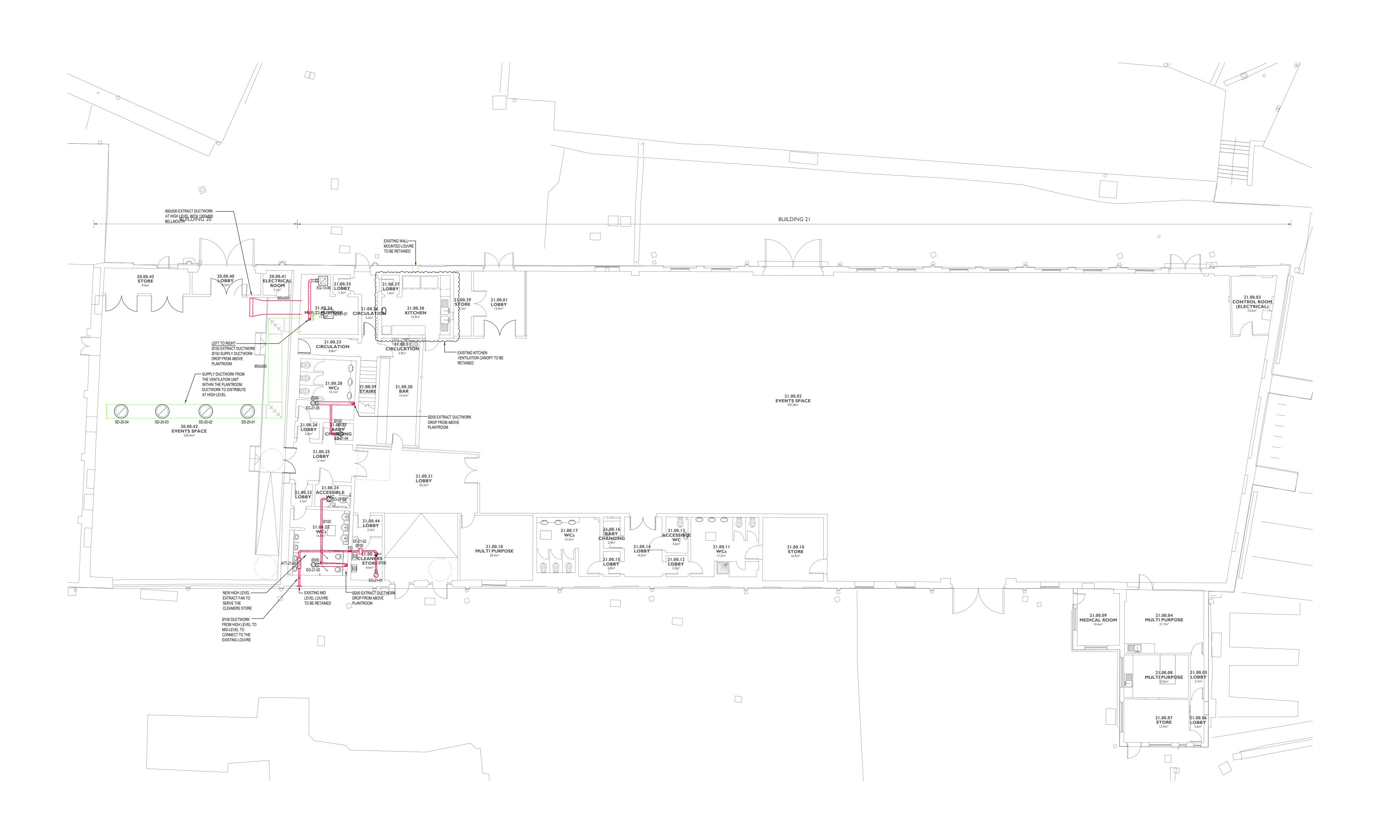
TGA Proj No: Stage: 4 1:100 P02

Drawing Reference:

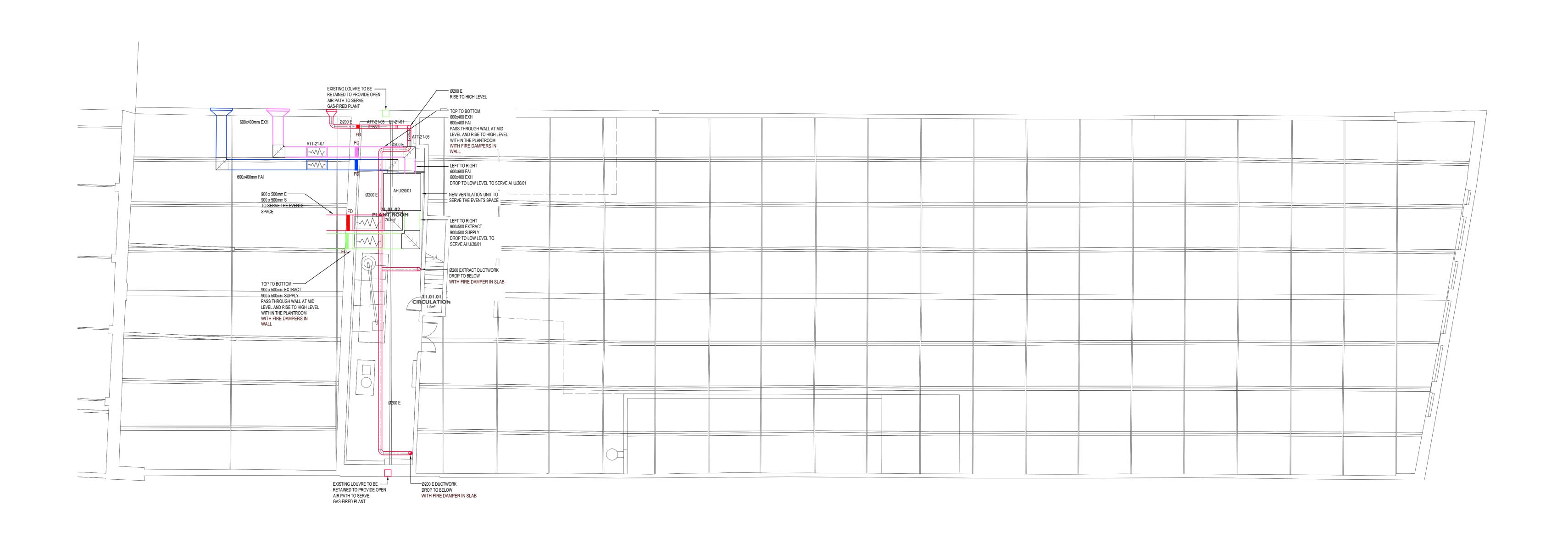
Project-Originator-Zone-Level-Type-Role-Classification-Number EFAS-TGA-20-01-DR-M-56001



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TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED
BY BSRIA BG6 :2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN ACTIVITIES. READ IN CONJUNCTION WITH ALL OTHER RELATED DESIGN INFORMATION INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND STRUCTURAL INFORMATION. 3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE. 4. THERMAL INSULATION SHALL BE CONTINUOUS IN THE RUNNING LENGTH, CONTINUOUS THROUGH SUPPORTS AND OVER FITTINGS. P05 29.09..23 UPDATED PIPE SIZES P04 22.09..23 SUITABLE FOR TENDER P03 25.08.23 STAGE 4 REVIEW P02 02.06.23 UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS DESCRIPTION A sustainable future... engineered. TGA Consulting Engineers LLP,
Salvus House, Aykley Heads, Durham City. DH1 5TS.
E: info@tgace.co.uk T: 0191 3862314 ELSECAR: FORGING AHEAD MECHNICAL ENGINEERING SERVICES PROPOSED HEATING SERVICES BUILDINGS 20 & 21 GROUND FLOOR PURCELL BARNSLEY MBC Suitability: Code Description
D2 FOR TENDER Revision: 1:100 8193 Drawing Reference: Project-Originator-Zone-Level-Type-Role-Classification-Number EFAS-TGA-20-00-DR-M-56002



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TECHNICAL DESIGN LEVEL OF DETAIL AND COMPLETENESS AS DEFINED
BY BSRIA BG6 :2018. ALL QUANTITIES AND LOCATIONS ARE BASED ON GENERIC EQUIPMENT SELECTIONS AND SHALL BE CONFIRMED AND FULLY COORDINATED AS PART OF THE CONSTRUCTION STAGE DESIGN 2. READ IN CONJUNCTION WITH ALL OTHER RELATED DESIGN INFORMATION INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND STRUCTURAL 3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTATED OTHERWISE. 4. VENTILATION DUCTWORK SHALL BE IN GALVANISED STEEL TO BESA SPECIFICATION DW144. 5. BENDS SHALL BE MEDIUM RADIUS. SQUARE BENDS SHALL INCLUDE 6. SQUARE BENDS WITHOUT TURNING VANES SHALL NOT BE USED. 7. GALVANISED STEEL DUCTWORK, PASSING THROUGH FIRE RATED ELEMENTS OF CONSTRUCTION, SHALL INCLUDE SUITABLY RATED FIRE DAMPERS IN ACCORDANCE WITH THE PUBLISHED FIRE STRATEGY.. 8. DUCTWORK WORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS AND BRACKETS. 9. INCLUDE VOLUME CONTROL DAMPERS AND MOTORISED DAMPERS WHERE INDICATED ON THE DRAWINGS. 10. ALL DAMPERS AND OTHER DUCTWORK ACCESSORIES SHALL BE ACCESSIBLE. INCLUDE ADEQUALITY SIZED ACCESS DOORS. 11. THERMAL INSULATION SHALL BE CONTINUOUS IN THE RUNNING LENGTH, CONTINUOUS THROUGH SUPPORTS AND OVER FITTINGS. DUCTLINES SHALL INCLUDE DIRECTION-OF-FLOW AND SERVICE IDENTIFICATION LABELLING. P04 22.09.23 SUITABLE FOR TENDER P03 25.08.23 STAGE 4 P02 02.06.23 UPDATED TO ARCHITECTS COMMENTS AND LAYOUTS DESCRIPTION A sustainable future... engineered. TGA Consulting Engineers LLP,
Salvus House, Aykley Heads, Durham City. DH1 5TS.
E: info@tgace.co.uk T: 0191 3862314 ELSECAR: FORGING AHEAD MECHANICAL ENGINEERING SERVICES PROPOSED VENTILATION BUILDINGS 20 & 21 **GROUND FLOOR** PURCELL BARNSLEY MBC Suitability: Code Description
D2 FOR TENDER 1:100 P04 8193 Drawing Reference: Project-Originator-Zone-Level-Type-Role-Classification-Number EFAS-TGA-20-00-DR-M-57001



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specifications and related documents. Standard construction hazards that a competent contractor would be aware of have not been identified on this drawing. Any risks not immediately apparent are identified within the CDM Residual Risk Register.

THIS IS A STAGE 3 DRAWINGS AND PROVIDES A TYPICAL LAYOUT ONLY.
 REFER TO STAGE 3 REPORT FOR FURTHER INFORMATION.

2. READ IN CONJUNCTION WITH ALL OTHER RELATED DESIGN INFORMATION INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND STRUCTURAL

3. DUCT SIZES AND EQUIPMENT SELECTIONS ARE PROVISIONAL AND WILL BE CONFIRMED IN STAGE 4.

4. VENTILATION DUCTWORK SHALL BE IN GALVANISED STEEL TO BESA SPECIFICATION DW144.

5. BENDS SHALL BE MEDIUM RADIUS. SQUARE BENDS SHALL INCLUDE TURNING VANES. 6. SQUARE BENDS WITHOUT TURNING VANES SHALL NOT BE USED.

7. GALVANISED STEEL DUCTWORK, PASSING THROUGH FIRE RATED ELEMENTS OF CONSTRUCTION, SHALL INCLUDE SUITABLY RATED FIRE DAMPERS IN ACCORDANCE WITH THE PUBLISHED FIRE STRATEGY..

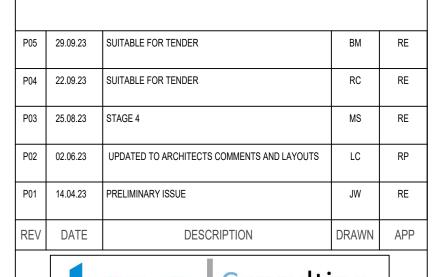
8. DUCTWORK WORK SHALL BE ADEQUATELY SUPPORTED IN THE RUNNING LENGTH USING PROPRIETARY CLIPS AND BRACKETS.

9. INCLUDE VOLUME CONTROL DAMPERS AND MOTORISED DAMPERS WHERE INDICATED ON THE DRAWINGS.

10. ALL DAMPERS AND OTHER DUCTWORK ACCESSORIES SHALL BE ACCESSIBLE. INCLUDE ADEQUALITY SIZED ACCESS DOORS.

11. THERMAL INSULATION SHALL BE CONTINUOUS IN THE RUNNING LENGTH, CONTINUOUS THROUGH SUPPORTS AND OVER FITTINGS.

12. DUCTLINES SHALL INCLUDE DIRECTION-OF-FLOW AND SERVICE IDENTIFICATION LABELLING.





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ELSECAR: FORGING AHEAD

MECHANICAL ENGINEERING SERVICES PROPOSED VENTILATION LAYOUT BUILDING 20 & 21 FIRST FLOOR

PURCELL

BARNSLEY MBC

Suitability: Code Description
D2 FOR TENDER TGA Proj No: Stage: 4

1:100 P05 Drawing Reference:

Project-Originator-Zone-Level-Type-Role-Classification-Number EFAS-TGA-20-01-DR-M-57001