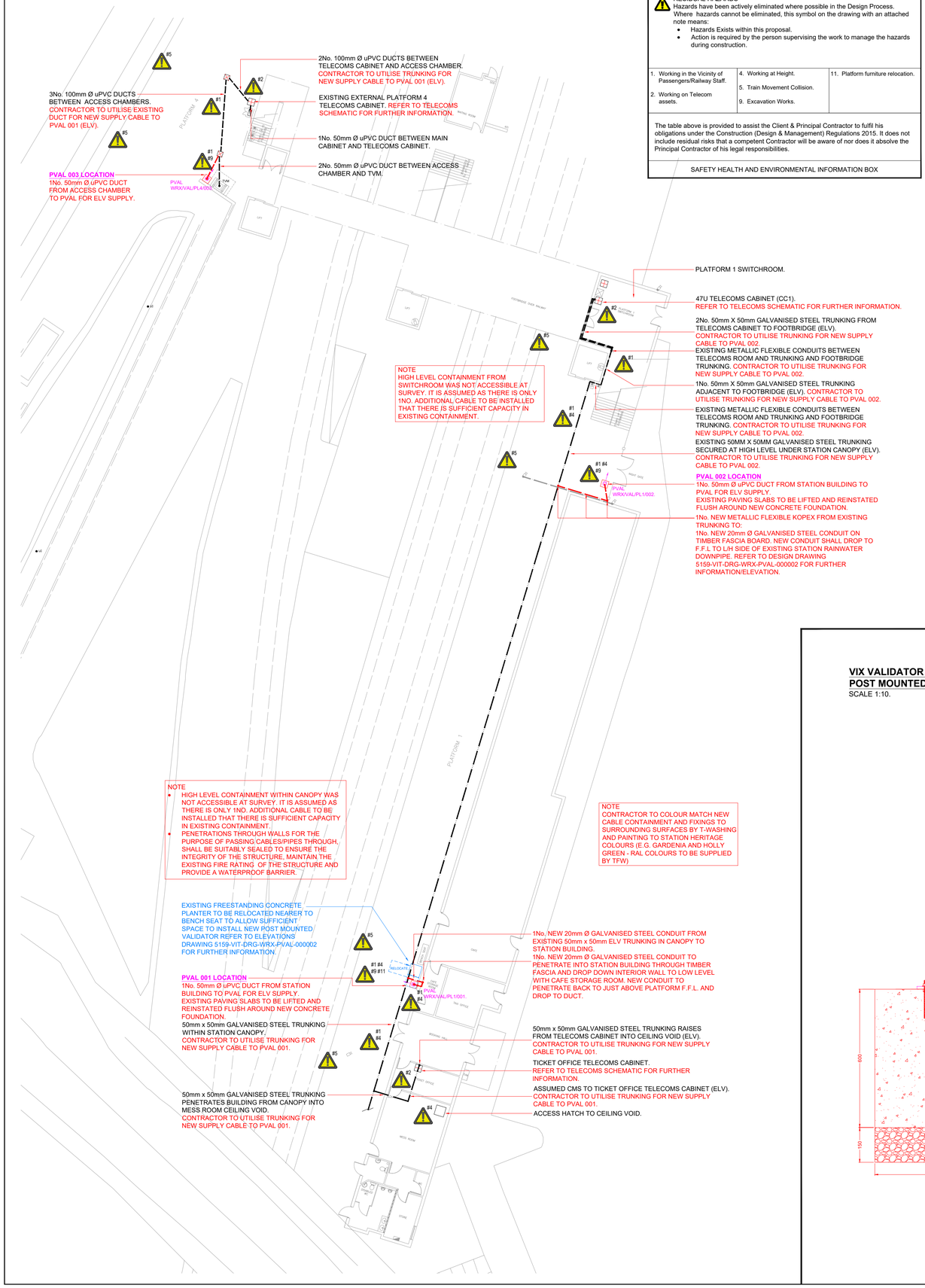
SITE LAYOUT
Scale 1:200



3No. 100mm Ø uPVC DUCTS BETWEEN ACCESS CHAMBERS. CONTRACTOR TO UTILISE EXISTING DUCT FOR NEW SUPPLY CABLE TO PVAL 001 (ELV).

PVAL 003 LOCATION
1No. 50mm Ø uPVC DUCT FROM ACCESS CHAMBER TO PVAL FOR ELV SUPPLY.

2No. 100mm Ø uPVC DUCTS BETWEEN TELECOMS CABINET AND ACCESS CHAMBER. CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 001 (ELV).

EXISTING EXTERNAL PLATFORM 4 TELECOMS CABINET. REFER TO TELECOMS SCHEMATIC FOR FURTHER INFORMATION.

1No. 50mm Ø uPVC DUCT BETWEEN MAIN CABINET AND TELECOMS CABINET.

2No. 50mm Ø uPVC DUCT BETWEEN ACCESS CHAMBER AND TVM.

PLATFORM 1 SWITCHROOM.

47U TELECOMS CABINET (CC1). REFER TO TELECOMS SCHEMATIC FOR FURTHER INFORMATION.

2No. 50mm X 50mm GALVANISED STEEL TRUNKING FROM TELECOMS CABINET TO FOOTBRIDGE (ELV). CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 002.

EXISTING METALLIC FLEXIBLE CONDUITS BETWEEN TELECOMS ROOM AND TRUNKING AND FOOTBRIDGE TRUNKING. CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 002.

1No. 50mm X 50mm GALVANISED STEEL TRUNKING ADJACENT TO FOOTBRIDGE (ELV). CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 002.

EXISTING METALLIC FLEXIBLE CONDUITS BETWEEN TELECOMS ROOM AND TRUNKING AND FOOTBRIDGE TRUNKING. CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 002.

EXISTING 50MM X 50MM GALVANISED STEEL TRUNKING SECURED AT HIGH LEVEL UNDER STATION CANOPY (ELV). CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 002.

PVAL 002 LOCATION
1No. 50mm Ø uPVC DUCT FROM STATION BUILDING TO PVAL FOR ELV SUPPLY.
EXISTING PAVING SLABS TO BE LIFTED AND REINSTATED FLUSH AROUND NEW CONCRETE FOUNDATION.

1No. NEW METALLIC FLEXIBLE KOPEX FROM EXISTING TRUNKING TO:
1No. NEW 20mm Ø GALVANISED STEEL CONDUIT ON TIMBER FASCIA BOARD. NEW CONDUIT SHALL DROP TO F.F.L TO LH SIDE OF EXISTING STATION RAINWATER DOWNPIPE. REFER TO DESIGN DRAWING 5159-VIT-DRG-WRX-PVAL-000002 FOR FURTHER INFORMATION/ELEVATION.

NOTE
HIGH LEVEL CONTAINMENT FROM SWITCHROOM WAS NOT ACCESSIBLE AT SURVEY. IT IS ASSUMED AS THERE IS ONLY 1NO. ADDITIONAL CABLE TO BE INSTALLED THAT THERE IS SUFFICIENT CAPACITY IN EXISTING CONTAINMENT.

NOTE
- HIGH LEVEL CONTAINMENT WITHIN CANOPY WAS NOT ACCESSIBLE AT SURVEY. IT IS ASSUMED AS THERE IS ONLY 1NO. ADDITIONAL CABLE TO BE INSTALLED THAT THERE IS SUFFICIENT CAPACITY IN EXISTING CONTAINMENT.
- PENETRATIONS THROUGH WALLS FOR THE PURPOSE OF PASSING CABLES/PIPES THROUGH, SHALL BE SUITABLY SEALED TO ENSURE THE INTEGRITY OF THE STRUCTURE. MAINTAIN THE EXISTING FIRE RATING OF THE STRUCTURE AND PROVIDE A WATERPROOF BARRIER.

NOTE
CONTRACTOR TO COLOUR MATCH NEW CABLE CONTAINMENT AND FIXINGS TO SURROUNDING SURFACES BY T-WASHING AND PAINTING TO STATION HERITAGE COLOURS (E.G. GARDENIA AND HOLLY GREEN - RAL COLOURS TO BE SUPPLIED BY TFW)

EXISTING FREESTANDING CONCRETE PLANTER TO BE RELOCATED NEARER TO BENCH SEAT TO ALLOW SUFFICIENT SPACE TO INSTALL NEW POST MOUNTED VALIDATOR REFER TO ELEVATIONS DRAWING 5159-VIT-DRG-WRX-PVAL-000002 FOR FURTHER INFORMATION.

PVAL 001 LOCATION
1No. 50mm Ø uPVC DUCT FROM STATION BUILDING TO PVAL FOR ELV SUPPLY.
EXISTING PAVING SLABS TO BE LIFTED AND REINSTATED FLUSH AROUND NEW CONCRETE FOUNDATION.

50mm x 50mm GALVANISED STEEL TRUNKING WITHIN STATION CANOPY. CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 001.

50mm x 50mm GALVANISED STEEL TRUNKING PENETRATES BUILDING FROM CANOPY INTO MESS ROOM CEILING VOID. CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 001.

1No. NEW 20mm Ø GALVANISED STEEL CONDUIT FROM EXISTING 50mm x 50mm ELV TRUNKING IN CANOPY TO STATION BUILDING.
1No. NEW 20mm Ø GALVANISED STEEL CONDUIT TO PENETRATE INTO STATION BUILDING THROUGH TIMBER FASCIA AND DROP DOWN INTERIOR WALL TO LOW LEVEL WITH CAFE STORAGE ROOM. NEW CONDUIT TO PENETRATE BACK TO JUST ABOVE PLATFORM F.F.L. AND DROP TO DUCT.

50mm x 50mm GALVANISED STEEL TRUNKING RAISES FROM TELECOMS CABINET INTO CEILING VOID (ELV). CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 001.

TICKET OFFICE TELECOMS CABINET. REFER TO TELECOMS SCHEMATIC FOR FURTHER INFORMATION.

ASSUMED CMS TO TICKET OFFICE TELECOMS CABINET (ELV). CONTRACTOR TO UTILISE TRUNKING FOR NEW SUPPLY CABLE TO PVAL 001.

ACCESS HATCH TO CEILING VOID.

CONSTRUCTION RISK REGISTER.

RESIDUAL HAZARDS
Hazards have been actively eliminated where possible in the Design Process. Where hazards cannot be eliminated, this symbol on the drawing with an attached note means:
- Hazards Exists within this proposal.
- Action is required by the person supervising the work to manage the hazards during construction.

1. Working in the Vicinity of Passengers/Railway Staff.	4. Working at Height.	11. Platform furniture relocation.
2. Working on Telecom assets.	5. Train Movement Collision.	
	9. Excavation Works.	

The table above is provided to assist the Client & Principal Contractor to fulfil his obligations under the Construction (Design & Management) Regulations 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of his legal responsibilities.

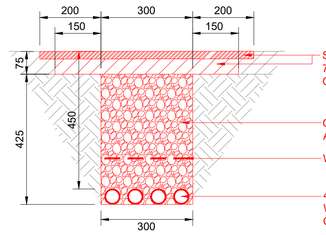
SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX

SYMBOL SCHEDULES

REFERENCE	DESCRIPTION
PVAL	NEW VIX TICKET VALIDATOR AND VIX POST MOUNT. POST AND DEA BANDING SUPPLIED VIX VALIDATOR HEAD INSTALLED BY SPECIALIST CONTRACTOR - VIX). CONCRETE FOUNDATION AND PVAL POST TO BE INSTALLED BY MAIN CONTRACTOR.
	DIRECTIONAL ARROW
TVM	EXISTING TICKET VENDING MACHINE.
	EXISTING CABLE ACCESS CHAMBERS.

	EXISTING TELECOMS CABINET.
	GALVANISED STEEL CABLE CONDUIT (SIZE AND QUANTITY AS INDICATED ON THE LAYOUT DRAWING) NEW INDICATED IN RED.
	GALVANISED CABLE TRUNKING (SIZE AND QUANTITY AS INDICATED ON THE LAYOUT DRAWING) NEW INDICATED IN RED.
	GALVANISED STEEL CABLE TRAY (SIZE AND QUANTITY AS INDICATED ON THE LAYOUT DRAWING) NEW INDICATED IN RED.
	EXISTING uPVC CABLE DUCTING (SIZE AND QUANTITY AS INDICATED ON THE LAYOUT DRAWING) NEW INDICATED IN RED.

DUCTING TRENCH & FLEXIBLE FOOTWAY REINSTATEMENT
Scale 1:10



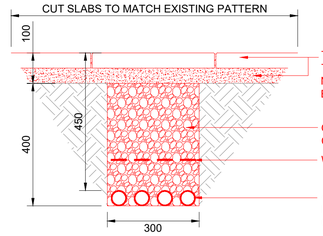
SURFACE COURSE: 25mm THICK AC6 DENSE SURF 70/100 PSV45 BINDER COURSE: 50mm THICK AC20 OPEN BIN 160/220

GRANULAR TYPE1 SUB-BASE MATERIAL, LAID AND COMPACTED IN 3 EQUAL LAYERS

WARNING TAPE

4No. 50mmØ UPVC TWIN WALL FLEXIBLE DUCTS INSTALL WITH DRAW CORD (MULTIPLE DUCT CONFIGURATIONS CAN BE USED FROM 4 DOWN TO 1)

DUCTING TRENCH & CONCRETE PAVING SLAB REINSTATEMENT
Scale 1:10



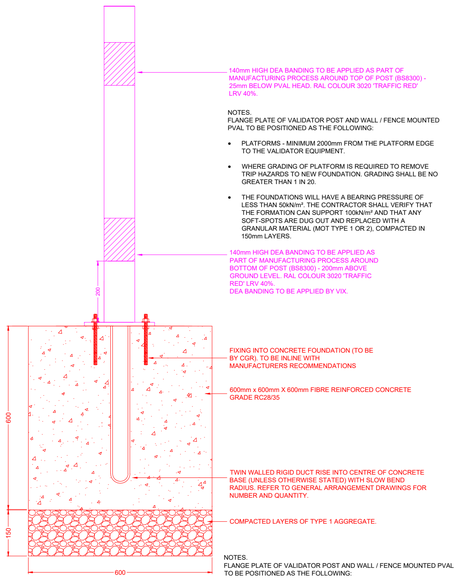
TYPICALLY 450x450x50mm SLABS LAID ON A 50mm THICK SAND & CEMENT MORTAR BED. *WHERE NECESSARY CUT PAVING SLABS TO SUIT EXISTING PATTERN & REINSTATEMENT SIZE

GRANULAR TYPE1 SUB-BASE MATERIAL, LAID AND COMPACTED IN 3 EQUAL LAYERS

WARNING TAPE

4No. 50mmØ UPVC TWIN WALL FLEXIBLE DUCTS INSTALL WITH DRAW CORD (MULTIPLE DUCT CONFIGURATIONS CAN BE USED FROM 4 DOWN TO 1)

VIX VALIDATOR INSTALLATION DETAILS
POST MOUNTED WITHIN INFIL AREAS
SCALE 1:10.



140mm HIGH DEA BANDING TO BE APPLIED AS PART OF MANUFACTURING PROCESS AROUND TOP OF POST (BS8300) - 25mm BELOW PVAL HEAD. RAL COLOUR 3020 'TRAFFIC RED' LRV 40%.

NOTES.
FLANGE PLATE OF VALIDATOR POST AND WALL / FENCE MOUNTED PVAL TO BE POSITIONED AS THE FOLLOWING:
- PLATFORMS - MINIMUM 2000mm FROM THE PLATFORM EDGE TO THE VALIDATOR EQUIPMENT.
- WHERE GRADING OF PLATFORM IS REQUIRED TO REMOVE TRIP HAZARDS TO NEW FOUNDATION. GRADING SHALL BE NO GREATER THAN 1 IN 20.
- THE FOUNDATIONS WILL HAVE A BEARING PRESSURE OF LESS THAN 50kN/m². THE CONTRACTOR SHALL VERIFY THAT THE FORMATION CAN SUPPORT 100kN/m² AND THAT ANY SOFT-SPOTS ARE DUG OUT AND REPLACED WITH A GRANULAR MATERIAL (MOT TYPE 1 OR 2), COMPACTED IN 150mm LAYERS.

140mm HIGH DEA BANDING TO BE APPLIED AS PART OF MANUFACTURING PROCESS AROUND BOTTOM OF POST (BS8300) - 200mm ABOVE GROUND LEVEL. RAL COLOUR 3020 'TRAFFIC RED' LRV 40%.
DEA BANDING TO BE APPLIED BY VIX.

FIXING INTO CONCRETE FOUNDATION (TO BE BY CGR), TO BE INLINE WITH MANUFACTURERS RECOMMENDATIONS

600mm x 600mm X 600mm FIBRE REINFORCED CONCRETE GRADE RC25/35

TWIN WALLED RIGID DUCT RISE INTO CENTRE OF CONCRETE BASE (UNLESS OTHERWISE STATED) WITH SLOW BEND RADIUS. REFER TO GENERAL ARRANGEMENT DRAWINGS FOR NUMBER AND QUANTITY.

COMPACTED LAYERS OF TYPE 1 AGGREGATE.

NOTES.
FLANGE PLATE OF VALIDATOR POST AND WALL / FENCE MOUNTED PVAL TO BE POSITIONED AS THE FOLLOWING:
- PLATFORMS - MINIMUM 2000mm FROM THE PLATFORM EDGE TO THE VALIDATOR EQUIPMENT.
- WALKWAYS - MINIMUM 1500mm FROM WALKWAY EDGE TO THE VALIDATOR EQUIPMENT.
- THE FOUNDATIONS WILL HAVE A BEARING PRESSURE OF LESS THAN 50kN/m². THE CONTRACTOR SHALL VERIFY THAT THE FORMATION CAN SUPPORT 100kN/m² AND THAT ANY SOFT-SPOTS ARE DUG OUT AND REPLACED WITH A GRANULAR MATERIAL (MOT TYPE 1 OR 2), COMPACTED IN 150mm LAYERS.

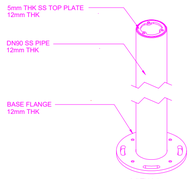
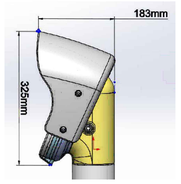


IMAGE 1 : FRONT VIEW - RUGGED VALIDATOR



IMAGE 2 : SIDE VIEW - RUGGED VALIDATOR WITH HOOD ON A POLE



REFER TO VIX ASSURE RUGGED TECHNICAL SPECIFICATION : DPU-00091 FOR FULL DETAILS

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WARNING DO NOT SCALE FROM THIS DRAWING. VERIFY ALL DIMENSIONS AND STRUCTURAL DETAILS ON SITE.

GENERAL NOTES:

SCOPE & RESPONSIBILITY
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS.

EXISTING SERVICES
- THE CONTRACTOR MUST CONFIRM POSITIONS ON SITE BEFORE INSTALLATION AND ADJUST ROUTES AS REQUIRED TO MAINTAIN SEPARATION AND ACCESSIBILITY.

CABLING AND CONTAINMENT
- ALL NEW LV AND ELV CABLING SHALL BE SEGREGATED IN ACCORDANCE WITH BS 7671 (18TH EDITION) AND RELEVANT IET GUIDANCE NOTES.
- USE EXISTING CONTAINMENT ROUTES WHERE PRACTICAL

CABLE IDENTIFICATION
- ALL NEW EQUIPMENT AND CABLING SHALL BE CLEARLY LABELLED WITH DURABLE TAGS INDICATING DESTINATION AND CIRCUIT REFERENCE. LABELS SHALL BE BLACK ON WHITE, 3 MM LETTERING.

TESTING & CERTIFICATION
- UPON COMPLETION, ALL NEW ELECTRICAL AND TELECOMS INSTALLATIONS SHALL BE TESTED, COMMISSIONED, AND CERTIFIED TO CURRENT IET STANDARDS. TEST RESULTS AND AS BUILT INFORMATION SHALL BE ISSUED AS PART OF HANDOVER DOCUMENTATION.

COORDINATION & ACCESS
- COORDINATE INSTALLATION WORKS WITH BUILDING USERS TO MINIMISE DISRUPTION.

WORKMANSHIP & MATERIALS
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CURRENT BRITISH STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

HEALTH, SAFETY & ENVIRONMENT
- COMPLY WITH THE CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015.
- ENSURE GOOD HOUSEKEEPING, MAINTAIN SAFE ACCESS ROUTES, AND ALWAYS USE APPROPRIATE PPE.

DECOMMISSIONING & WASTE
- REMOVE ALL REDUNDANT CABLING AND EQUIPMENT. DISPOSE OF WASTE MATERIALS RESPONSIBLY IN ACCORDANCE WITH SITE ENVIRONMENTAL POLICY.

FINISHES & MAKING GOOD
- REINSTATE ALL AFFECTED FINISHES / AREAS TO MATCH EXISTING CONDITIONS UPON COMPLETION OF WORKS.

REFERENCE	DESCRIPTION
	INDICATES WORKS BY OTHERS.
	INDICATES NEW / PROPOSED.
	INDICATES EXISTING TO BE RELOCATED.
	INDICATES EXISTING TO BE REMOVED.
	INDICATES EXISTING TO REMAIN.

THIS DRAWING IS TO BE PRINTED IN COLOUR

Rev	Drawn	App	Date	Description
B03	SD	ME	18/02/2026	Landlords Consent (powder coating amended to t-washed and painted)
B02	SD	ME	16/02/2026	Landlords Consent (paint colours added, plus s/s conduit fixings into mortar joints)
B01	SD	ME	17/12/2025	Landlords Consent
P02	SD	ME	08/12/2025	Preliminary Issue TFW for review and comment. CGR comments captured.
P01	SP	GH	24/11/2025	Preliminary Issue.

Drawing Status: **LANDLORDS CONSENT**

Client: centregreat rail; TRAFNIDIAETH CYMRU TRANSPORT FOR WALES

Project:
PVAL SCHEME
WREXHAM GENERAL STATION

Drawing Title:
ELECTRICAL ENGINEERING
PROPOSED SITE LAYOUT & INSTALLATION INFORMATION

Designed	Steve Preece	Signed	Date 18/02/2026
Drawn	Steve Preece	Signed	Date 18/02/2026
Checked	Shaun Davies	Signed	Date 18/02/2026
Approved	Geraint Harris	Signed	Date 18/02/2026

Original Scale: As Shown
Original Size: A1

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Project No.: 21015-CGR-WLS-WRX-DRG-PVAL-000001
Rev.: B03