

**NOTES / LEGEND**

**COPYRIGHT**  
 THIS DRAWING IS COPYRIGHT AND MAY NOT BE ALTERED, REPRODUCED OR USED OTHER THAN FOR THE CONTRACT WORKS FOR WHICH IT IS ISSUED WITHOUT THE WRITTEN PERMISSION OF CALLAGHAN GREEN LTD.

**WARNING**  
 DO NOT SCALE THIS DRAWING.  
 VERIFY ALL DIMENSIONS AND STRUCTURAL DETAILS ON SITE.  
 IF IN DOUBT, ASK BEFORE ACTING.

**RELATED DOCUMENTS**  
 READ THIS DRAWING IN CONJUNCTION WITH THE APPROPRIATE SPECIFICATIONS.

**CHECKING**  
 THIS DRAWING HAS BEEN GENERATED USING A COMPUTER AIDED DRAWING SYSTEM. AS THE SYSTEM GENERATES A NEW DRAWING AT EACH REVISION, ONLY THE LATEST EDITION WILL HAVE BEEN INITIALED AND CHECKED.

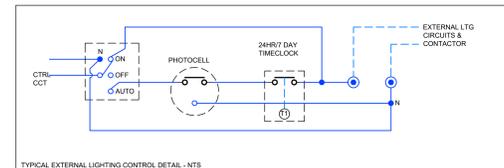
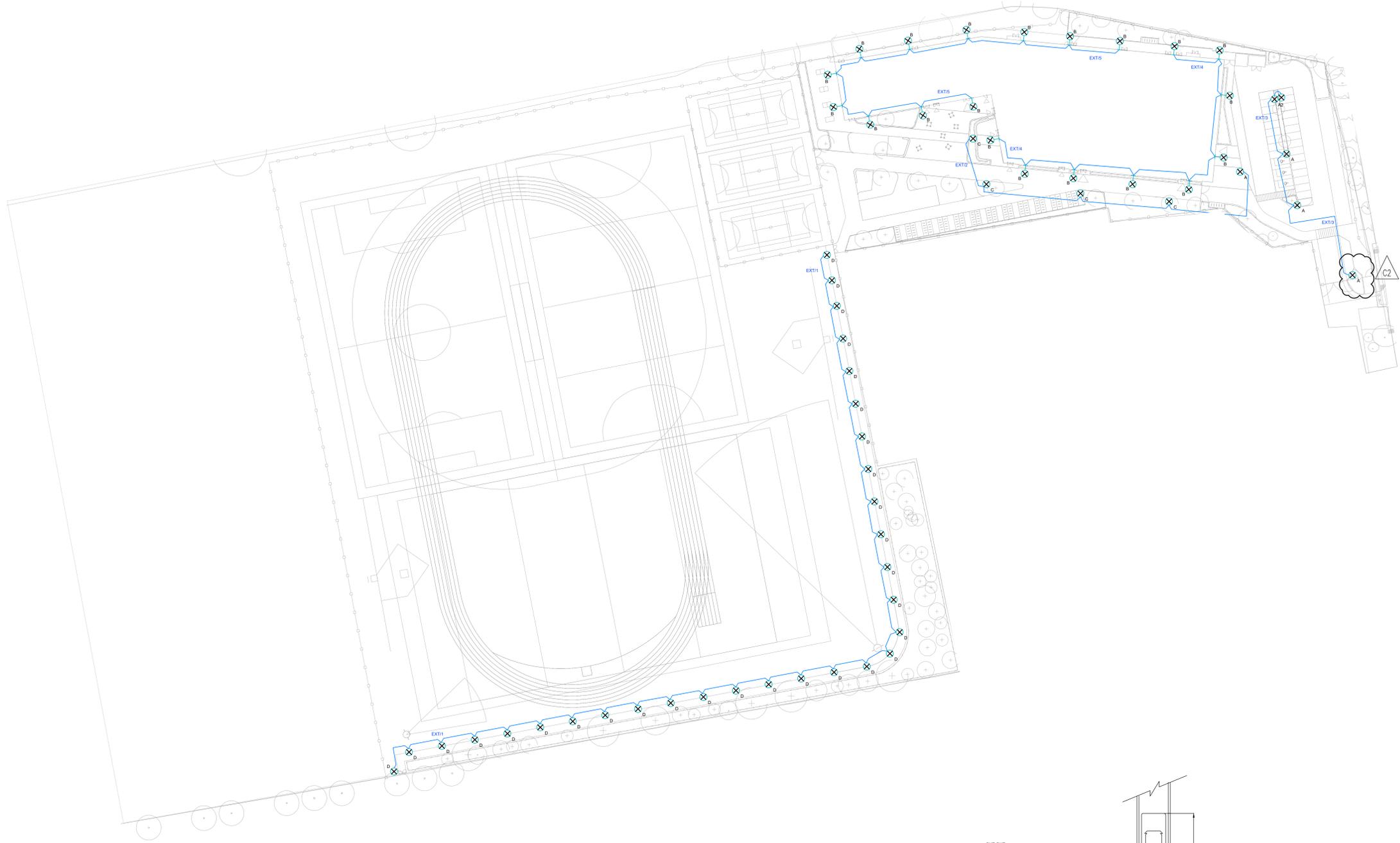
**GENERAL**

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWING SPECIFICATIONS AND SCHEDULES.
- ALL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM THE SUBSTRUCTURE AND NOT BE RELIANT ON THE CEILING OR OTHER SERVICES.
- ALL PENETRATIONS THROUGH WALL SHALL BE FILLED TO SUIT THE ACOUSTIC PERFORMANCE AND/OR THE FIRE REQUIREMENTS AS DETAILED ON THE ARCHITECT'S DRAWINGS.
- ALL FINAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

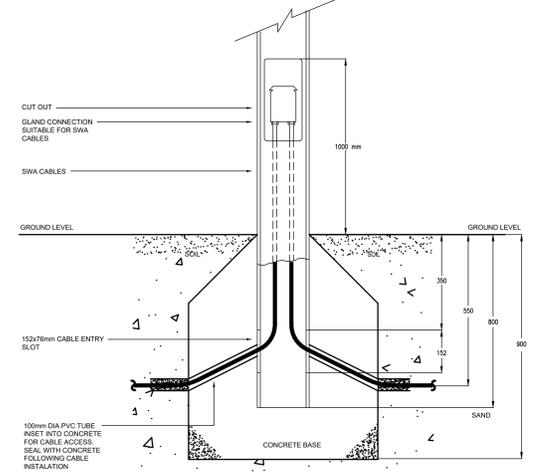
**NOTES:**

- ALL DIMENSIONS ARE IN MM UNLESS INDICATED OTHERWISE.
- ALL ELECTRICAL INSTALLATION WORKS TO BE IN ACCORDANCE WITH BS7171 IET WIRING REGULATIONS.
- FINAL SELECTION OF AND LUMINAIRE FINISHES ARE TO BE CONFIRMED PRIOR TO ORDER PLACEMENT.
- CABLE ROUTES TO BUILDING MOUNTED LUMINAIRES TO BE INTERNAL.
- ALL LIGHTING COLUMNS ARE TO BE ROOT MOUNTED WITH BUILDING CONCRETE BACK FILLED FOR ADDITIONAL SUPPORT. ALL CABLEING TO BE VIA BELOW GROUND DUCT NETWORK AND LAD DIRECT IN GROUND WHERE PRACTICABLE I.E. SOFT DIG LANDSCAPE.
- LIGHTING COLUMNS TO BE COMPLETE WITH LUCY ROD PROTECTED FUSED CUT OUT WITHIN THE BASE.
- ALL DUCTS AND INSPECTION CHAMBERS TO BE SEALED TO PREVENT WATER INGRESS.
- INSPECTION CHAMBER COVERS TO BE APPROPRIATELY GRADED FOR VEHICULAR TRAFFIC AREAS.
- EXTERNAL LIGHTING IS DESIGNED TO ACHIEVE THE REQUIREMENTS OF AN E3 INSTALLATION AS DETAILED IN TABLES 1 & 2 OF LP GUIDANCE.

**NOTES FOR THE REDUCTION OF GLOMERAL LIGHT**  
 THE EXTERNAL LIGHTING IS TO BE CONTROLLED BY A PHOTOCELL AND TIME SWITCH ARRANGEMENT WITH A MANUAL OVERRIDE SWITCH.  
 THE EXTERNAL LIGHTING TIME SWITCH IS TO BE SET SO THAT ALL EXTERNAL LIGHTING IS TO BE OFF BETWEEN 2300HRS AND 0500HRS.



LIGHTING LEGEND	
A	40w LED Viva City Pro 4000k 80cm with FW70 Optic column mounted at 6m 5136 0.00 1 A2 BACK-BACK - KINGFISHER LIGHTING
A2	2 x 40w LED Viva City Pro 4000k 80cm with FW70 Optic column mounted at 6m - KINGFISHER LIGHTING
B	7.5w LED Quarto bulkhead with cyclc optic building mounted at 3 & 4m - KINGFISHER LIGHTING
C	15w LED Viva City Pro with T3A Optic column mounted at 6m - KINGFISHER LIGHTING
D	25w LED 4000k Gemini bollard - KINGFISHER LIGHTING



EXACT PLANT DEPTH REQUIREMENTS SHALL BE OBTAINED FROM THE SPECIFIED COLUMN MANUFACTURER PRIOR TO INSTALLATION.

REV	DATE	DESCRIPTION	CHKD	CHKD	APPRD
C2	27.10.20	COLUMN RELOCATED	RR	RH	DP
C1	14.04.20	ISSUED FOR CONSTRUCTION	RR	RH	DP
P2	13.03.20	CIRCUITS ADDED	RR	RH	DP
D1	09.08.19	ISSUED FOR COMMENT	AM	RH	DP

**CONSTRUCTION**

DESIGNER  
**CGP | MEP**

CLIENT  
**BOWMER KIRKLAND**

PROJECT  
**TURING HOUSE**

DRAWING TITLE  
**ELECTRICAL SERVICES  
 EXTERNAL LIGHTING LAYOUT**

**TClarke**  
 TCLARKE CONTRACTING  
 LOWFIELD HOUSE  
 HORSFORTH, LEEDS, LS19 4EF  
 Tel: 0113 258 8711  
 Fax: 0113 258 8855  
 Email: info@tclarke.co.uk

SCALE	DRAWN BY	CHECKED BY	DATE
1:500@A0	AM	DP	17.04.19

DRAWING No.  
**FS0316-TCL-XX-XX-DR-E-9020**