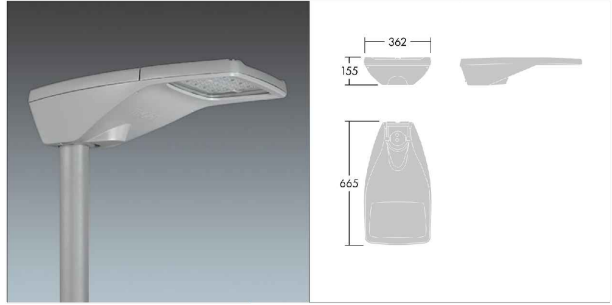


REF: 'X1' LUMAIRES

20W, 2826lm, 4000k, IP66, IK08,  
ROOT MOUNTED MAST LED  
LUMINAIRE MOUNTED @ 6m  
ON LIGHTING COLUMN.



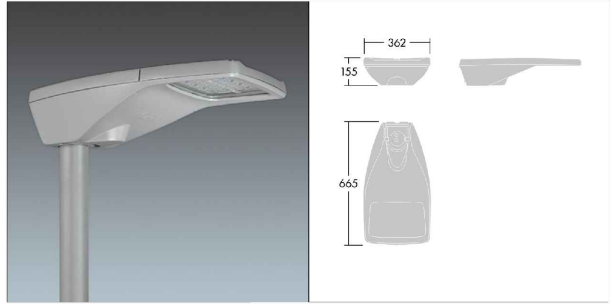
DIMS:  
655 (L) x 362 (W) x 155mm (H)

AS PER LUMINAIRE SCHEDULE

THORN 96268405 CQ

REF: 'X2' LUMAIRES

15W, 2052lm, 4000k, IP66, IK08,  
ROOT MOUNTED MAST LED  
LUMINAIRE MOUNTED @ 6m  
ON LIGHTING COLUMN.



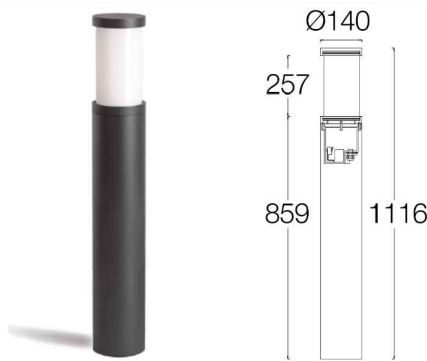
DIMS:  
655 (L) x 362 (W) x 155mm (H)

AS PER LUMINAIRE SCHEDULE

THORN 96268400 CQ

REF: 'X3' LUMAIRES

7.2W, 11407lm, 3000k, LED, IP65 &  
IK06 RATED, ROOT MOUNTED  
BOLLARD WITH 360° LIGHT.

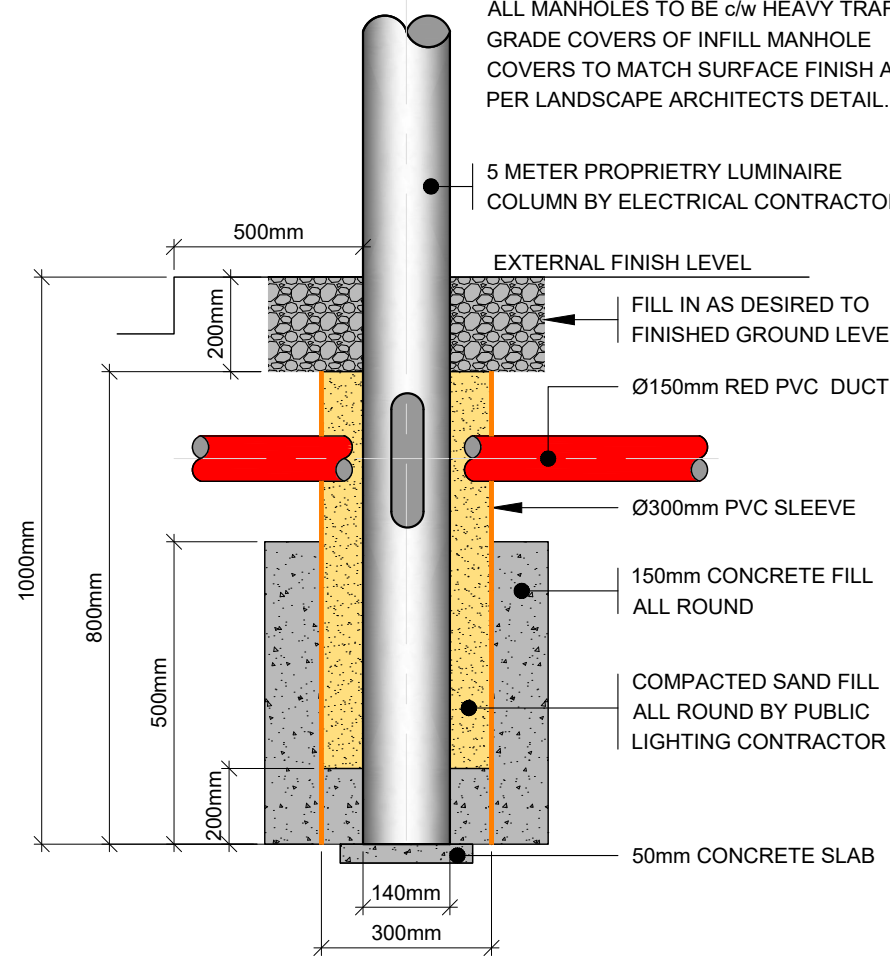


DIMS:  
Ø140mm x 1116mm (H)

AS PER LUMINAIRE SCHEDULE

SLEEVE DETAIL FOR COLUMN LUMINAIRE

NOTE:  
ALL MANHOLES TO BE c/w HEAVY TRAFFIC  
GRADE COVERS OF INFILL MANHOLE  
COVERS TO MATCH SURFACE FINISH AS  
PER LANDSCAPE ARCHITECTS DETAIL.



SITE LIGHTING NOTES

- 1.00 LIGHTING POLES TO BE ALUMINIUM, ROOT MOUNTED, CONE SHAPED WITH TOP TAIL OF 60mm Ø c/w CLASS II 4x16mm² SHUNT TERMINAL CONNECTION BLOCK - HEIGHT 5m ABOVE FINISHED GROUND LEVEL c/w TILTING FACILITY TO ALLOW FOR EASE OF MAINTENANCE.
- 2.00 LIGHTING POLES TO ACCOMMODATE UP TO 3<sup>no</sup>. LIGHT FITTINGS. FITTING BRACKETS TO BE SUITABLE FOR SPECIFIED POLE WITH TOP BRACKET FOR UPPER FITTING. DIRECTION OF FITTINGS TO BE CONFIRMED AND COORDINATED ON SITE.
- 3.00 ALL CABLEING TO EXTERNAL LIGHTING LOCATIONS TO BE WIRED IN 3 Core 6mm² CU/XLPE/SW/LSOH CONTAINED IN HDPE DUCTS.
- 4.00 ALL IN GROUND HDPE DUCTS TO BE INSTALLED BY THE MAIN CONTRACTOR UNDER THE COORDINATION OF THE ELECTRICAL CONTRACTOR.
- 5.00 THE ELECTRICAL CONTRACTOR SHALL, PRIOR TO THE INSTALLATION, VERIFY THE CAPACITY OF THE IN-GROUND DUCT NETWORK TO THE MAIN CONTRACTOR.
- 6.00 EACH EXTERNAL LIGHTING LUMINAIRE SHALL BE SWITCHED BY MINIATURE PHOTO-ELECTRONIC SWITCH INTEGRATED INTO THE LED LUMINAIRE SUCH AS THE SELC 8482 OR APPROVED EQUAL AND EACH LUMINAIRE SHALL BE INDIVIDUALLY CONTROLLED BY THIS PHOTOCELL.
- 7.00 THE PHOTOCELL USED SHALL COMPLY WITH THE LATEST VERSION OF BS5972. THE PHOTOCELL CONTROL SHALL SWITCH ON/OFF THE LUMINAIRE AT 35/ 18 LUX RESPECTIVELY.
- 8.00 ALL OUTGOING CIRCUITS SHALL BE INDIVIDUALLY FUSED BY MEANS OF A 16 OR 20 AMP HRC CUT-OUT TYPE AND CAPABLE OF ACCOMMODATING CABLE SIZES UP TO 25mm². THESE FUSES SHALL BE RATED 20kA MINIMUM RUP TURING CAPACITY AND SHALL COMPLY WITH BS88.
- 9.00 ALL COLUMNS ARE SUPPLIED FROM A PUBLIC LIGHTING MINI-SECTION PILLAR, LOCATED ADJACENT TO THE ESB NETWORKS MINI-SECTION PILLAR. NOT MORE THAN 6 COLUMNS SHALL BE SUPPLIED FROM ANY ONE CIRCUIT AND NOT MORE THAN 4 CIRCUITS SHALL BE TAKEN FROM ANY ONE AUXILIARY MINI-SECTION PILLAR.
- 10.00 THE CONTRACTOR SHALL MAKE A FULL TECHNICAL SUBMITTAL TO THE DESIGN TEAM FOR ALL EXTERNAL LIGHTING FOR APPROVAL PRIOR TO ORDERING.
- 11.00 THE DEVELOPER SHALL NOTE THAT NO EXISTING PUBLIC LIGHTS CAN BE REMOVED WITHOUT THE PERMISSION AND APPROVAL OF PUBLIC LIGHTING SERVICES.
- 12.00 THE DEVELOPER SHALL CONTACT PUBLIC LIGHTING SERVICES AT LEAST 6 WEEKS IN ADVANCE OF WORKS STARTING ON SITE, TO FIND OUT WHAT IS REQUIRED TO BE DONE TO EXISTING PUBLIC LIGHTING THAT IS WITHIN THE SITE BOUNDARY.
- 13.00 ANY COSTS ASSOCIATED WITH THE RE-ARRANGEMENT OR ALTERATION OF THE EXISTING PUBLIC LIGHTING SHALL BE ENTIRELY AT THE DEVELOPER'S EXPENSE, INCLUDING ESB NETWORK COSTS.
- 14.00 WHERE PUBLIC ROADS ARE TO REMAIN IN USE, THEN THE PUBLIC LIGHTING MUST BE MAINTAINED BY THE DEVELOPER IN AN OPERATING CONDITION THROUGHOUT THE DEVELOPMENT PERIOD.
- 15.00 THE ELECTRICAL CONTRACTOR SHALL REFER TO IN2 ENGINEERING DRAWING No.s E-0201 & E-0201 FOR ROUTING OF IN-GROUND DUCTS.
- 16.00 THE CONTRACTOR SHALL MAKE A FULL TECHNICAL SUBMITTAL TO THE DESIGN TEAM FOR ALL EXTERNAL LIGHTING FOR APPROVAL PRIOR TO ORDERING.

SITE LIGHTING REFERENCE KEY

- LIGHTING CIRCUIT
- X1 LED ROAD LIGHTING LANTERN LUMINAIRE
  - X2 LED ROAD LIGHTING LANTERN LUMINAIRE
  - X3 LED BOLLARD LUMINAIRE
  - X4 4m HIGH DECORATIVE POST-TOP LANTERN LUMINAIRE
  - X5 DECORATIVE POST-TOP LANTERN LUMINAIRE
  - LC LIGHTING COLUMN 6m HIGH
  - MCP - ## LIGHTING MICO-PILLAR



**IN2**  
ENGINEERING DESIGN PARTNERSHIP  
Dublin | Athlone | Belfast | London

Unit E&F, Mountpleasant Business Centre  
Mountpleasant Avenue Upper, Dublin, D06 P5N8  
t. +353.1.496 0900 e. info@in2.ie w. www.in2.ie

STATUS	DATE	DESCRIPTION	DRN	ENG	APP	REV
S2	04.11.2022	ISSUED FOR PLANNING	DS	SC	DG	P07

S2	28.09.2022	ISSUED FOR PLANNING	DS	SC	DG	P06
S2	11.03.2022	ISSUED FOR PLANNING	OH	OH	DG	P05
S2	04.01.2022	ISSUED FOR PLANNING	OH	OH	DG	P04
S2	13.10.2021	ISSUED FOR PLANNING	OH	OH	DG	P03
S2	11.10.2021	ISSUED FOR PLANNING	OH	OH	DG	P02
STATUS	DATE	DESCRIPTION	DRN	ENG	APP	REV

PROJECT

**CARLISLE RESIDENTIAL  
KIMMAGE ROAD LOWER**

CLIENT

**1 TERENCE LAND LIMITED**

PROJECT REF:  
D2124

DRAWING TITLE

**ELECTRICAL SERVICES INSTALLATION  
SITE PLAN  
SITE LIGHTING LAYOUT**

SIZE

A1

SCALE

1:500

DRAWING No.

D2124-IN2-00-ZZ-DR-E-0101

STATUS

S2

REVISION

P07