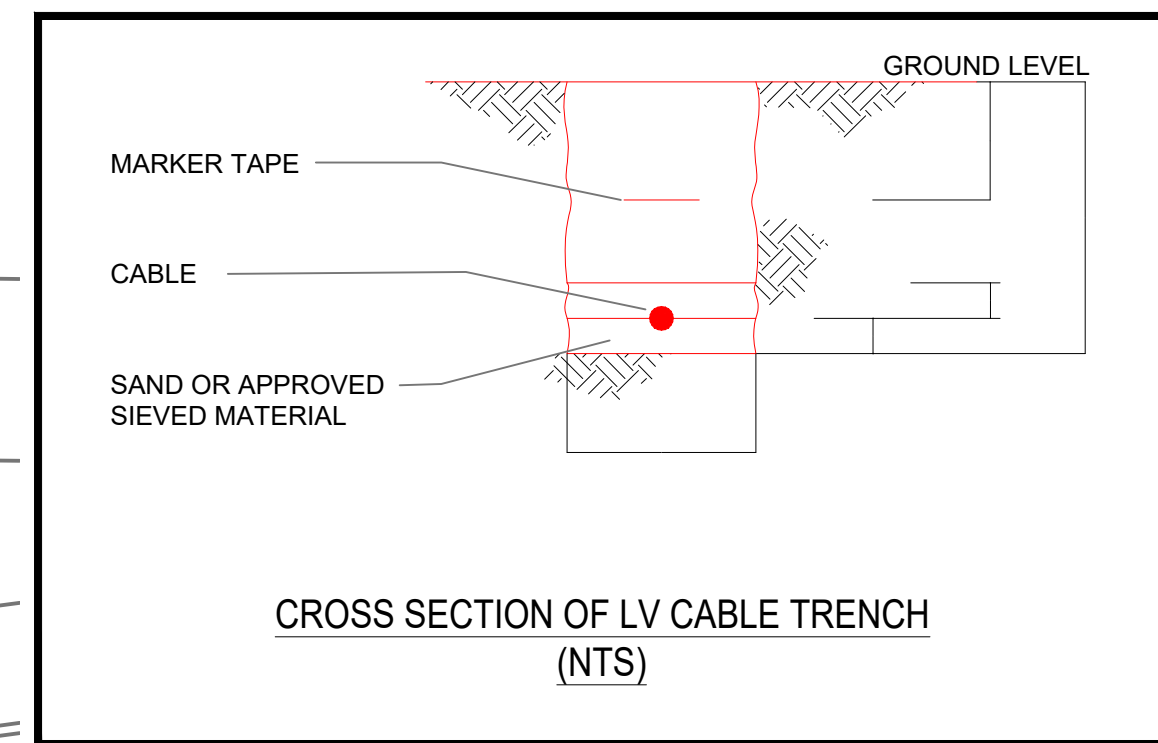




- NOTES
1. ALL OTHER DISCIPLINES' SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THE WATERMAN BUILDING SERVICES SPECIFICATION AND DRAWINGS, AS WELL AS ARCHITECTS, STRUCTURAL ENGINEERS, ACoustIC ENGINEERS' AND FIRE CONSULTANTS. ANY DISCREPANCIES BETWEEN ANY DOCUMENT, DRAWINGS OR SCHEDULE SHOULD BE CLARIFIED AT TENDER OR THE MOST ONEROUS OPTION SHALL BE DEEMED TO HAVE BEEN ALLOWED FOR.
 2. ALL SERVICE ROUTES DETAILED ARE DEEMED APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT ROUTES AND POSITIONS OF ALL INSTALLED SERVICES AND EQUIPMENT IN CONJUNCTION WITH THE COLLEGE EDUCATION / DELIVERY TEAM.
 3. THE EXACT POSITION OF ALL SERVICES AND EQUIPMENT SHALL BE AGREED BY THE CONTRACTOR.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COORDINATING ANY SERVICES INSTALLED WITHIN THE BUILDING FABRIC AND SERVICES INSTALLED BY OTHERS.

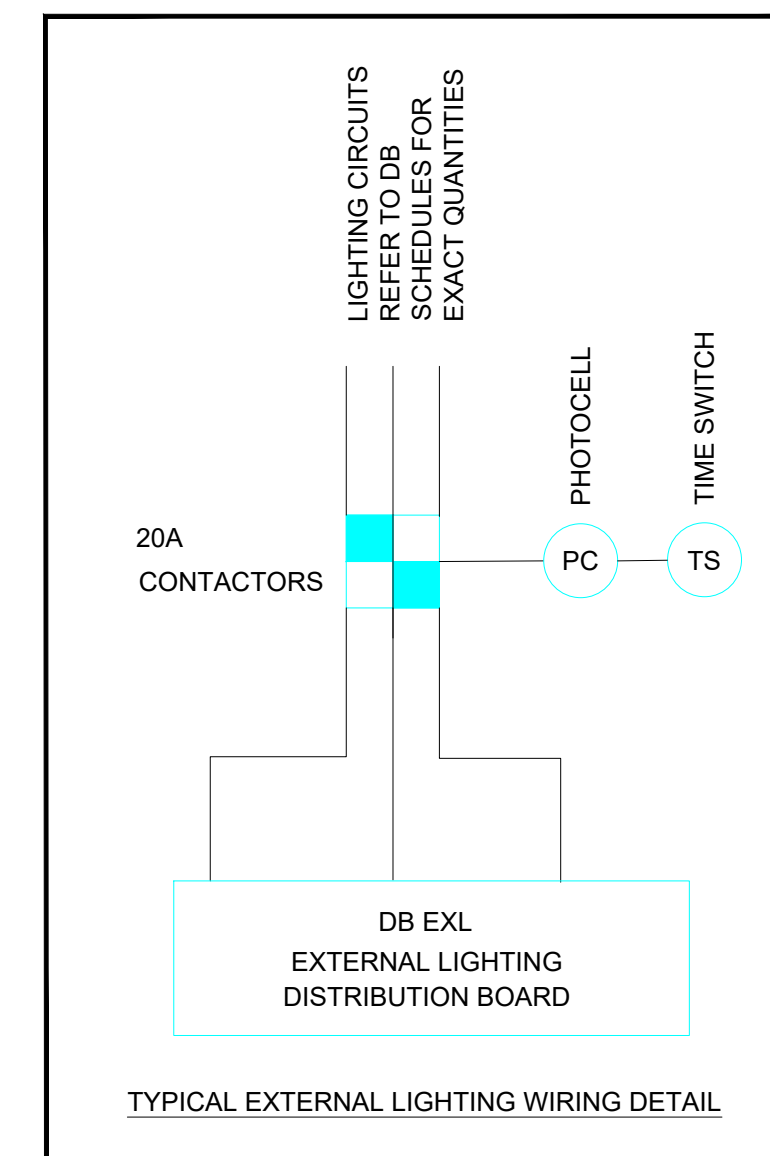
EXTERNAL LIGHTING NOTES

1. ALL EXTERNAL BURIED CABLING TO BE DIRECT IN THE GROUND IN SOFT DIG AREAS WHERE POSSIBLE, WHERE THE CABLES PASS HARDSTANDING AREAS THE CONTRACTOR SHALL INSTALL A DUCT.
2. REFER TO LUMINAIRE SCHEDULE FOR TYPE AND DETAILS OF LUMINAIRES.

TABLE 2 OF BS EN 12464-2:2014 (MAXIMUM OBTRUSIVE LIGHT PERMITTED FOR EXTERIOR LIGHTING INSTALLATIONS) STIPULATES FOR ENVIRONMENTAL ZONE 4E (TOWN CENTRES) THAT THE PRE-CURFEW LUX LEVEL ON ADJACENT PROPERTIES SHALL NOT EXCEED 25 LUX AND POST-CURFEW LUX AT 5 LUX WITH UPWARD LIGHT OUTPUT RATIO NOT EXCEEDING 25%. THIS SCHEME HAS 12% ULOR AND 1 LUX PRE-CURFEW AROUND THE COLLEGE BUILDING. ALL LIGHTING WILL EXTINGUISH AT 22.00 AND HENCE ALL POST-CURFEW LIGHT LEVELS WILL BE ZERO.

LIGHTING CONTROLS STRATEGY

THE LIGHTING WILL BE CONTROLLED VIA PHOTOCELL SENSORS WHICH WILL TURN ON THE LIGHTING ONCE DAYLIGHT HAS REDUCED. A TIME CLOCK LOCATED ADJACENT TO THE LIGHTING DISTRIBUTION BOARD WILL TURN OFF THE LIGHTING AT A PREDETERMINED TIME.



P06	SF	09.05.22	EXTERNAL LIGHTING AMENDED
P05	SF	20.04.22	EXTERNAL DUCTING & DRAW PITS ADDED
P04	SF	06.04.21	UPDATED TO LATEST LIGHTING LAYOUT
P03	NM	18.06.21	STAGE 4 - ISSUED FOR TENDER
P02	NM	23.04.21	STAGE 4 ISSUE
P01	NM	02.02.21	STAGE 3 ISSUE
<i>Rev</i>	<i>By</i>	<i>Date</i>	<i>Description</i>

PEL

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Project: Bury College

Drawing Title:

Electrical Services
External Lighting & Power Layout

Date: JANUARY 2021

Rev:	P06	Drawing Number:	BCS-WBS-ZZ-ZZ-DR-E-63101
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LIGHT LEVELS				
AREA	AVG (lux)	MAX	MIN	MIN/AVG
M1	35.2	58.5	13.4	0.38
M2	22.3	36.2	7.3	0.33

