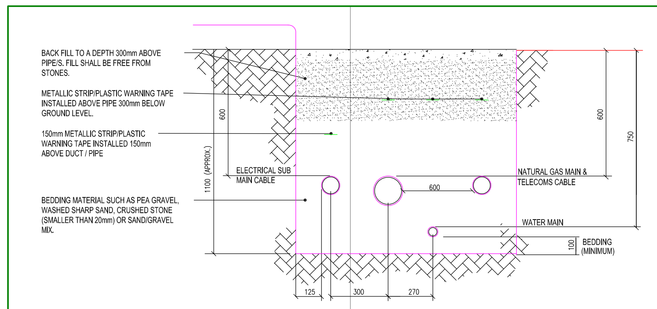
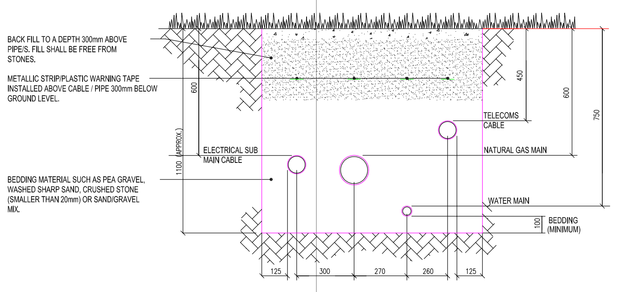
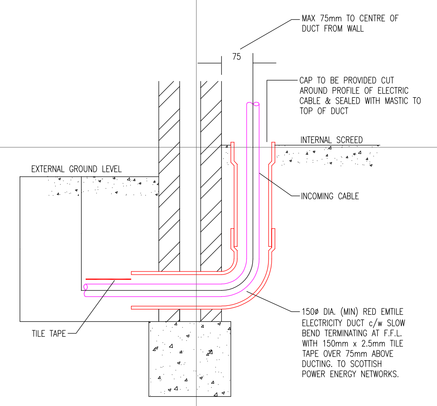


DETAIL A
TYPICAL DETAIL OF UNDERGROUND SERVICES TRENCH WITHIN ROADWAY / CARRIAGEWAY
N.T.S.



DETAIL B
TYPICAL DETAIL OF UNDERGROUND SERVICES TRENCH WITHIN FOOTPATH
N.T.S.



DETAIL C
TYPICAL DETAIL OF CABLE DUCT BUILDING ENTRY
N.T.S.

EXTERNAL LIGHTING CONTROL

NOTES
THIS IS A DESIGN DRAWING NOT AN INSTALLATION DRAWING. DIMENSIONS SHOULD NOT BE SCALED. SITE DIMENSIONS TO BE CHECKED BEFORE PRODUCTION OF CRITICAL MANUFACTURING DRAWINGS. THE DRAWING IS COPYRIGHT AND NO PART MAY BE REPRODUCED WITHOUT WRITTEN CONSENT.

NOTES:

1. THE MAIN CONTRACTOR SHALL PROVIDE ALL ON SITE EXCAVATIONS AND DUCTING AS INDICATED, THE INCOMING ELECTRIC SUPPLY CABLE SHALL BE PROVIDED AND INSTALLED BY OTHERS UTILISING THE DUCTS / EXCAVATIONS PROVIDED.
2. THE MAIN CONTRACTOR SHALL PROVIDE ALL EXCAVATIONS AS INDICATED ON THE DRAWINGS. THE MAIN CONTRACTOR SHALL PROVIDE TILE TAPE ABOVE DUCTS WITHIN THE CARRIAGEWAYS PRIOR TO BACK FILLING.
3. ALL EXTERNAL LIGHTING CIRCUITS TO BE SUPPLIED FROM LOCAL DISTRIBUTION BOARDS VIA A CONTACTOR. THE CONTRACTOR SHALL PROVIDE A SUITABLE SIZE CONTACTOR TO SUIT THE NUMBER OF EXTERNAL LIGHTING CIRCUITS DERIVED FROM THE DISTRIBUTION BOARD. THE CONTACTOR SHALL BE CONTROLLED VIA A CENTRAL TIMECLOCK AND PHOTOCELL.
4. EXTERIOR CABLES / DUCTS TO BE LAID AT A MINIMUM DEPTH OF 450mm IN SOFTDIG / FOOTPATHS AND 650mm MINIMUM DEPTH WITHIN CARPARK / ROADWAY AREAS. DUCTS TO BE COMPLETE WITH DRAW ROPES.
5. WHERE POSSIBLE THE LIGHTING COLUMNS SHALL BE SET BACK A DISTANCE OF 1.5m FROM THE KERB LINE. THE MINIMUM RECOMMENDED DISTANCE FROM THE KERB LINE IS 500mm. IF THE MINIMUM GAP CANNOT BE MAINTAINED THE MAIN CONTRACTOR / GROUND WORKER SHALL PRIOR TO SETTING OUT/INSTALLATION, OBTAIN CLARIFICATION OF THE POSITIONS FROM THE ENGINEERS / ARCHITECT.
6. DRAW PIT POSITIONS INDICATED ON THE DRAWING ARE INDICATIVE ONLY. THE CONTRACTOR SHALL ALSO PROVIDE DRAW PITS IN ACCORDANCE WITH THE FOLLOWING:

- AT EACH SIGNIFICANT CHANGE OF DIRECTION.
- AT INTERVALS NOT EXCEEDING 20M IN STRAIGHT RUNS.
- AT EACH CHANGE IN DEPTH I.E. EACH SIDE OF ROAD CROSSINGS.
- WHERE OTHERWISE REQUIRED TO FACILITATE DRAWING IN.

CC DENOTES FOR CAR CHARGING POINT
PP DENOTES FOR PAY POINT

SCHEDULE OF SYMOBLS:

- EX1 — 24W 3300lm 4000K LED EXTERNAL BOLLARD LUMINAIRE AS ERCO CASTOR BOLLARD 360° OPTIC
- EX2 — 12W 1650lm 4000K LED EXTERNAL BOLLARD LUMINAIRE AS ERCO CASTOR BOLLARD 180° OPTIC
- EXTERNAL IP66 RATED TWIN SOCKET OUTLET AS MK56481GRY
- MAIN SECTION BOARD, FURTHER TO LV SCHEMATIC FOR FURTHER DETAILS
- TPSN RCBO / MCB DISTRIBUTION BOARD, SEE LV SCHEMATIC FOR DETAILS.
- FEEDER PILLAR, SPAN RCBO / MCB DISTRIBUTION BOARD, CONTAINED WITHIN IP67 ENCLOSURE. SEE LV SCHEMATIC FOR DETAILS.
- IP65 ISOLATOR RATING & USE AS INDICATED
- DRAW PIT
- PROPOSED 100mm PVC DUCT FOR LV CABLING USE AS INDICATED ON THE DRAWING (NO DUCT REQUIRED IN SOFT DIG / BELOW FOOT PATH FOR LV CABLES, ELV CABLES TO BE DUCTS FOR ENTIRE LENGTH)
- PROPOSED 100mm PVC DUCT FOR ELV CABLING USE AS INDICATED ON THE DRAWING
- PROPOSED 100mm PVC DUCT FOR ELV CABLING FOR BMS SPECIALIST EXTERNAL WIRING
- WP P1 — WIRELESS ACCESS POINT TYPE AS INDICATED ON DRAWING
- SINGLE CAT 6a RJ45 OUTLET AS MK LOGIC PLUS REF: K181 WH + 1No. K5846
- GC — EXTERNAL 630A GENERATOR CONNECTION POINT
- CO — CONTACTOR
- TC — TIMECLOCK
- PC — PHOTOCELL

C05 A5 AE	Updated to suit duct routes	06.12.16	DS
C04 A5 AE	Revised Following PDI 55A	21.11.16	DS
C03 A5 AE	Revised Following Variation Instruction	08.08.16	DS
C02 A5 AE	Amended Following Comments	16.7.1	DS
C01 A5 AE	Construction Issue	26.02.16	DAc
P1 A5 AE	Pre-Construction Issue General Amendments	22.10.15	DAc
Rev By Chkd	Amendments	Date	App

Drawing Status: CONSTRUCTION

Client: Northumberland National Park Authority

Project: The Sill

Drawing: Electrical Engineering External Services Layout

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Scale		Engineer	Date
1:250	@ A0		June 2015

Drawing Number: 3736_00_XX_DR_E_201 — Rev.: C05

File Path:

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