NOTES

A./ Fuses, Isolators and MCB`s shall be identified using indelible markers in space provided on case.

B./ An external warning label shall be fitted to door of cabinet i.e. Electrical flash symbol in accordance with Health and Safety (safety signs and signals) Regulations. The label shall be no Less than 200mm high.

C./ The internal enclosures shall be glass reinforced plastic construction and comply with the minimum sealing of IP55 as detailed for such parts in the NDX drawing. This sealing shall extend to the clear plastic door allowing access to the control actuators. Glands and other penetrations and fittings shall not reduce this IP rating.

D./ Distribution enclosure internal connections shall be made with 10mm2 single insulated copper colour coded cables.

E./ All earth connections shall be insulated stranded copper cable coloured green/yellow.

F./ For a TP / TEDP pillar the incoming fuse, fitted by the electricity supplier, shall be rated at 100 amps.

G./ During pillar installation an earth electrode complete with concrete inspection chamber to be provided in accordance with SHW 1500, BS 7671 AND BS 7430.

H./ The lower aperture on distribution enclosed cover shall be fitted with blanking plate to prevent access to live components.

I./ An RCD test label relating to any RCD devices used within pillar shall be fitted within the pillar as required by BS 7671 clause 514.12.02. The rating of RCD will be detailed in OPCS.

J./ TP / TEDP pillar door shall be fitted with a correctly sized flexible earth bonding braided strap with green/yellow insulation in accordance with the requirements of BS 7671 and BS 7430. Strap shall be of sufficient length to exclude an mechanical strain when pillar door is open.

K./ The main isolator / switch-disconnector shall be correctly rated 100A and be housed separate from the other inner enclosures within the cabinet. The actuator shall be red coloured and be lockable by up to 3 miniature padlocks.

L./ The main isolator / switch-disconnector enclosure to be attached to the distribution enclosure by means of a suitable 25mm diameter polypropylene conduit.

M./ Correctly sized stainless steel wood screws shall be used throughout to allow for the attachment of all components and equipment to the wooden backing board. The fixing holes for these screws shall lie outwith the sealed volume or be covered by sealed caps and have no impact on the IP rating of the enclosure.

NOTES

N./ A separate Order Package Configuration Sheet (OPCS) shall be originated by the installation designer, specifying fuse / mcb / isolator ratings for each cabinet.

O./ A stencilled template shall be fixed to the backing board to indicate the required position of the electricity suppliers series 7 cut-out.

P./ 25mm2 double insulated tails, internal insulation to be correctly coloured, shall be connected to the main isolator with the opposite ends left unterminated in the general position of the series 7 cut-out.

Q./ Unterminated 25mm2 double insulated tails shall be no less than 400mm in length.

R./ Exposed section of double insulated tails shall be no longer than 150mm.

S./ The main external enclosure shall be painted (slate grey) to RAL 7015 aluminium / stainless steel and be in accordance with the requirement specified in the NDX drawings. The enclosure shall be selected to adequately house all required equipment.

T./ An exterior grade varnished plywood backing board shall be fitted within the external cabinet. The backing board shall be suitable for mounting within any of the specified cabinet types. The board shall be dimensioned to allow removal and replacement complete with all components in place.

U./ Brass gland plates shall be used to terminate SWA cables. This plate shall be connected to the main earth terminal block using an appropriately rated conductor.

V./ A plastic shrouded 5 way main earth terminal block, or equivalent, shall be provided to allow for controlled disconnection during testing. This block shall be clearly identified as an earth connection and shall be located adjacent to the series 7 cut-out.

W./ The inner distribution enclosure shall be provided with 2 standard adjustable depth TS35 profile din rails. The upper rail shall be loaded in accordance with the OPCS. The lower rail shall be loaded with 12 off rail mounted terminals.

X./ Rail mounted terminals shall be sized to accommodate cable size from 1.5mm2 to 16mm2. Rail mounted terminals shall be coloured brown and blue alternatively to identify live and neutral conductors. The terminals shall be divided appropriately using separators and end stops.

Y./ 6 no. 25mm diameter holes and 1 no. 20mm diameter hole for earth cable, shall be drilled in the base of the distribution enclosure and the 25mm holes shall then be sealed using suitable threaded plastic blanking plugs, which shall maintain the IP rating of the enclosure.

NOTES

Z./ The brass gland plate located immediately below the distribution enclosure shall be drilled in the same configuration as the distribution enclosure.

AA./ During pillar installation suitable plastic compression glands shall replace blanking plugs in the distribution enclosure when cable is installed.

BB./ Suitably protected drawings and documents (laminated), held in a correctly sized pocket, shall be provided within the cabinet. The pocket shall be mounted on the inside surface of the outer door.

CC./ During pillar installation, outgoing cable glands to be brass E1W and comply with BS 6121.

DD./ All fuses, isolators and MCB`s must be lockable by miniature padlocks and must comply with the following standards;
Fuses - BS 1361
Isolators - BS EN 60 947-3
MCB`s - BS EN 60 898

EE./ A periodic testing label shall be fitted within the pillar, indicating the date of the last inspection and the date of the next inspection in accordance with BS 7671.

ISSUE	AMENDMENTS	APPD/DATE
A	REDRAWN	BD 13/10/09
1	FIRST ISSUE	SM 10/03/08

TRANSPORT SCOTLAND

Note:
The NDX series of drawings represents non site specific installations of standard equipment and site layouts.

This drawing was generated on computer and must not be manually updated

TITLE

TYPICAL NOTES FOR TERMINATION PILLAR / TRAFFIC EQUIPMENT TERMINATION PILLAR (TP / TEDP)

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE +- 1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

DRN S.D. | CHKD S.M. | SCALE N.T.S.
DATE 29.02.08 | DATE 29.02.08

DRG. NO. NDX1011-07no

SHT. NO. 3 of 4