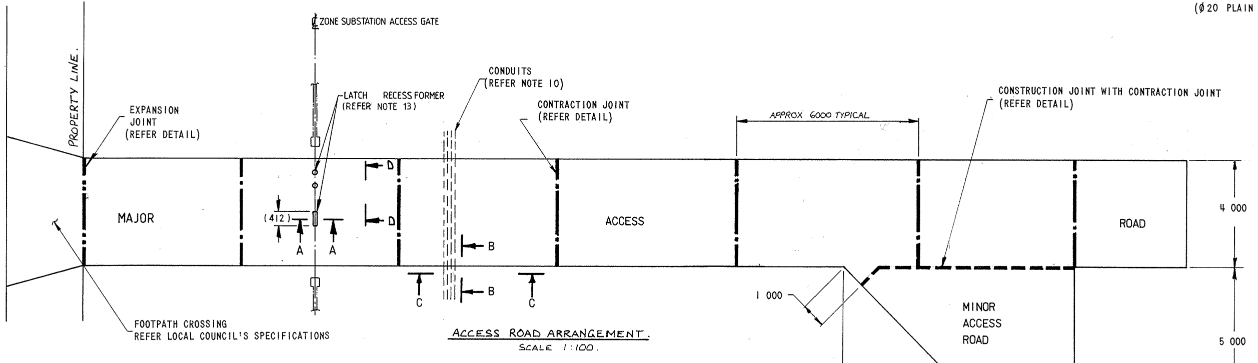
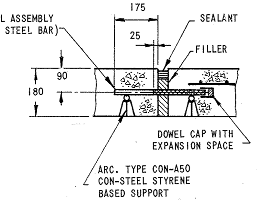


PROPERTY LINE.
℄ ZONE SUBSTATION ACCESS GATE
EXPANSION JOINT (REFER DETAIL)
LATCH RECESS FORMER (REFER NOTE 13)
CONDUITS (REFER NOTE 10)
CONTRACTION JOINT (REFER DETAIL)
APPROX 6000 TYPICAL
CONSTRUCTION JOINT WITH CONTRACTION JOINT (REFER DETAIL)
MAJOR
(412)
A
A
D
D
B
B
C
C
ACCESS
ROAD
4 000
5 000
1 000
MINOR ACCESS ROAD
5 000
4 000
FOOTPATH CROSSING REFER LOCAL COUNCIL'S SPECIFICATIONS

ACCESS ROAD ARRANGEMENT.

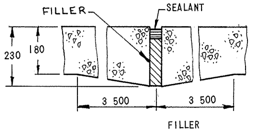
SCALE 1:100.



DOWEL ASSEMBLY (Ø20 PLAIN STEEL BAR)
175
25
SEALANT
FILLER
90
180
DOWEL CAP WITH EXPANSION SPACE
ARC. TYPE CON-A50 CON-STEEL STYRENE BASED SUPPORT

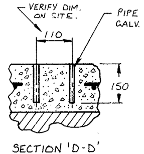
DOWELLED EXPANSION JOINT

REFER NOTE 12



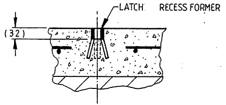
THICKENED EDGE EXPANSION JOINT

REFER NOTE 12



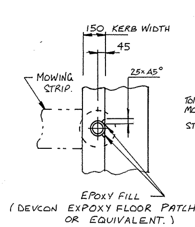
SECTION 'D-D'

CENTRALLY LOCATED UNDER CHAINWIRE GATES.

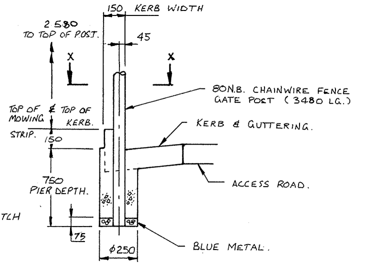


SECTION 'A-A'

CENTRALLY LOCATED UNDER STEEL CLAD GATES.

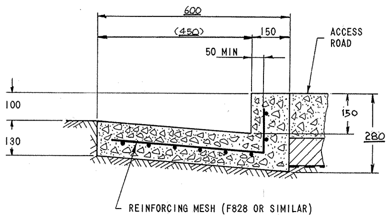


SECTION 'X-X'



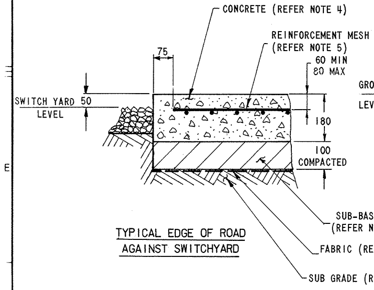
CHAINWIRE FENCE GATE POST INSTALLATION DETAIL.

REFER NOTE 14.
REFER DRWG 059903

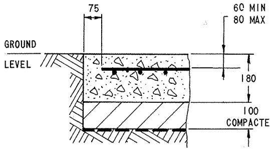


KERB & GUTTER DETAIL WITH KERB ADJOINING ACCESS ROAD

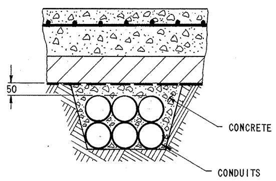
(REFER NOTE 11)



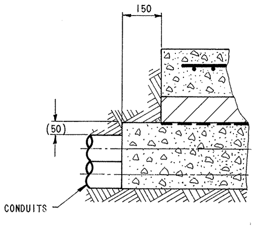
TYPICAL EDGE OF ROAD AGAINST SWITCHYARD



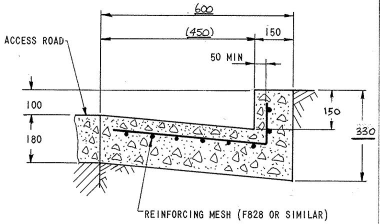
TYPICAL EDGE OF ROAD AGAINST GROUND



SECTION 'C-C'

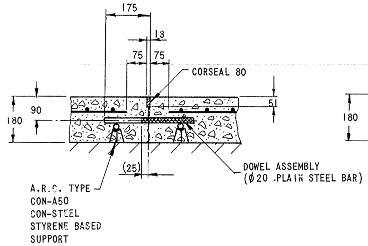


SECTION 'B-B'



KERB & GUTTER DETAIL WITH GUTTER ADJOINING ACCESS ROAD

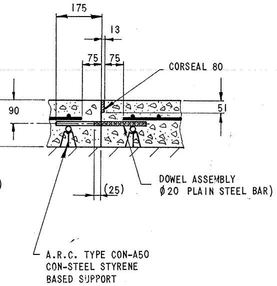
(REFER NOTE 11)



175
13
75
75
CORSEAL 80
90
180
51
(25)
DOWEL ASSEMBLY (Ø20 .PLAIN STEEL BAR)
A.R.C. TYPE CON-A50 CON-STEEL STYRENE BASED SUPPORT

CONTRACTION JOINT

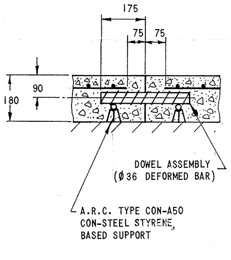
(REFER NOTES 6&7)



175
13
75
75
CORSEAL 80
90
180
51
(25)
DOWEL ASSEMBLY Ø20 PLAIN STEEL BAR)
A.R.C. TYPE CON-A50 CON-STEEL STYRENE BASED SUPPORT

CONSTRUCTION JOINT WITH CONTRACTION JOINT

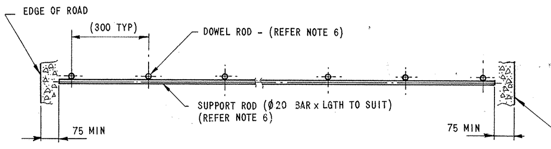
(REFER NOTES 6&7)



175
75
75
90
180
DOWEL ASSEMBLY (Ø36 DEFORMED BAR)
A.R.C. TYPE CON-A50 CON-STEEL STYRENE, BASED SUPPORT

CONSTRUCTION JOINT

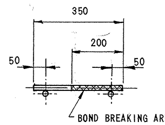
(REFER NOTES 6&7)



EDGE OF ROAD
(300 TYP)
DOWEL ROD - (REFER NOTE 6)
SUPPORT ROD (Ø20 BAR x LGTH TO SUIT) (REFER NOTE 6)
75 MIN
75 MIN
EDGE OF ROAD

DOWEL ASSEMBLY

(REFER NOTE 6)



Endeavour Energy

NOTES

1. SUBGRADE

THE SUBGRADE IS TO BE FIRM & CONSISTENT. THE SUBSTATION DESIGN ENGINEER IS TO BE CONSULTED IF THE SUBGRADE HAS VARYING MOISTURE CONTENT AND/OR AREAS OF LOOSE OR VARYING CONSISTENCY.

2. FABRIC

ONE LAYER OF POLYTRAC 155 GEOTEXTILE FABRIC TO BE LAID ON SUBGRADE. ON JOINS, OVERLAP 300 mm ON FIRM SUBGRADES OR 600 mm ON LOOSE SUBGRADES (THE FABRIC IS AVAILABLE IN 5 m x 100 m ROLLS FROM FLETCHER MANUFACTURING)

3. SUB-BASE

THE SUB-BASE IS TO BE FORMED USING ROADBASE WITH A MAX AGGREGATE SIZE OF 20 mm. THE ROADBASE IS TO BE WELL CONSOLIDATED & DAMPENED WITH WATER PRIOR TO POURING CONCRETE.

4. CONCRETE

a) TO COMPLY WITH AS 3600 & THE FOLLOWING.
   SLUMP - 60 mm
   MAX AGG SIZE - 20 mm
   CEMENT - TYPE GP TO AS 3972
   GRADE OF CONCRETE - 30.
b) TO BE CONTINUOUS.POUR.
c) TO BE VIBRATED USING AN IMMERSION VIBRATOR.
d) TO BE FINISHED BY SCREEDING, WOOD FLOAT (TO FILL HOLLOWS), SCREEDING, BULL FLOAT & BROOM IN THAT ORDER.

5. REINFORCEMENT MESH

a) TYPE F72 TO AS 1304 GRADE 450.
b) SHEET SIZE 6 m x 2,4 m.
c) END LAPS TO BE 450 mm.
d) SIDE LAPS TO BE 200 mm & THE TWO LONGITUDINAL OUTSIDE WIRES OF ADJOINING SHEETS TO BE WIRED AT 500 mm CENTRES.
e) MINIMUM CONCRETE COVER ON SIDES & END TO BE 75 mm . MINIMUM CONCRETE COVER ON TOP TO BE 60 mm.
f) MESH TO BE LAID WITH LONGITUDINAL WIRES ALONG LENGTH OF ROAD.
g) MESH TO BE HELD IN POSITION WHILE CONCRETE IS BEING POURED.
h) MESH TO BE SUPPORTED ON PLASTIC TIPPED BAR CHAIRS WHICH ARE TO BE EVENLY SPACED AT 1000 mm CENTRES. (SPACING TO BE REDUCED IF MESH IS HEAVILY LOADED DURING CONSTRUCTION).

6. DOWELS

a) FOR CONTRACTION OR CONSTRUCTION/CONTRACTION JOINTS, DOWELS TO BE Ø 20mm PLAIN ROUND BAR GRADE 230 S TO AS 1302.
   FOR A CONSTRUCTION JOINT, DOWELS TO BE Ø 36 mm DEFORMED BAR GRADE 410C TO AS 1302.
b) ALL DOWELS TO BE 350 mm LONG.
c) SUPPORT RODS TO BE Ø 20 mm PLAIN ROUND BAR GRADE 230S TO AS1302.
d) AREA SHOWN THUS 'XXXXXX' ARE BOND BREAKING AREAS AND ARE TO BE LIGHTLY GREASED.
e) THE BOND BREAKING END OF DOWELS MAY BE WIRE TIED TO SUPPORT BAR BUT NOT SO AS TO PREVENT LONGITUDINAL MOVEMENT. (WHICH MAY RESULT FROM PAVEMENT EXPANSION & CONTRACTION).
f) NON GREASED ENDS OF DOWEL MAY BE TACK WELDED OR WIRE TIED TO SUPPORT BAR TO PREVENT DISTURBANCE DURING CONCRETE PLACEMENT.
g) DOWEL ASSEMBLY SUPPORT BAR TO BE SAT ON A.R.C. TYPE CON-A50 CON-STEEL STYRENE BASED SUPPORTS AT 1 m CENTRES.
h) NO PART OF THE DOWEL ASSEMBLY OTHER THAN THE DOWEL ITSELF SHOULD CROSS THE LINE OF THE PAVEMENT JOINT.

7. GROOVES

a) CONSTRUCTION JOINT WITH CONTRACTION JOINT:- GROOVE TO BE MADE & FILLED WITH 13 mm WIDE x 51 mm DEEP 'CORSEAL 80' WHEN PLACING CONCRETE.
b) CONTRACTION JOINT:- EITHER CUT A SLOT 13 mm WIDE BY 51 mm DEEP USING CONCRETE SAW WITHIN 36 HOURS OF POURING, OR GROOVE CAN BE MADE & FILLED WITH 'CORSEAL 80' WHEN POURING CONCRETE. ('CORSEAL 80' MADE BY GRELM P/L).

8. CURING

FOLLOWING FINISHING (NOTE 4d) AND WHEN CONCRETE HAS HARDENED SUFFICIENTLY APPLY 'STERNSEAL' EXTERIOR CURING AGENT. REFER SC1104.

9. CONCRETE TESTING

4 TEST CYLINDERS TO BE TAKEN (2 SAMPLES). TEST CERTIFICATES MUST BE LODGED WITH COUNCIL.

10. CONDUITS

CABLE CONDUITS & DRAINAGE DUCTS TO BE INSTALLED PRIOR TO CONSTRUCTION OF ACCESS ROAD.

11. KERB & GUTTER

KERB & GUTTERING CONCRETE TO CONFORM TO THAT SHOWN IN NOTE 4.
REINFORCING MESH TO BE TYPE F828 TO AS 1304 (OR SIMILAR)
REINFORCING MESH TO HAVE A MINIMUM OF 50 mm COVER.

12. EXPANSION JOINT

FILLER & SEALANT TO BE IN ACCORDANCE WITH 'CEMENT & CONCRETE ASSOCIATION OF AUSTRALIA' TECHNICAL NOTE NUMBER 48.

13. ACCESS GATE RETENTION

- TO BE POSITIONED CENTRALLY BENEATH ACCESS GATE LATCH.
- STEEL CLAD GATES
  RECESS FORMER (REFER SECTION 'A-A' DRG 054495)
  OR
- CHAINWIRE GATES.
  2 OFF 20 N.B. MED GALV. PIPE 150 LG.
  (REFER SECTION 'D-D'.)

14. CHAINWIRE FENCE GATE POST TO BE INSTALLED AS SHOWN WHEN KERB/GUTTER & ACCESS ROAD IS INSTALLED PRIOR TO CHAIN WIRE FENCE INSTALLATION.

REFERENCE DRAWINGS	
CHAIN WIRE FENCE DETAIL.	059903
LATCH RECESS FORMER	E54495

DO NOT SCALE
DIMENSIONS IN MILLIMETRES

ORIGINAL SCALE 1:10 & AS SHOWN
APPROVED
DRAWN L.W.S.
DESIGN TERRY PARR
CH'KD D.J.Z.
CO-ORD D'SERV

P. Thomson
CHIEF ELECT. ENG. DATE 14-5-84

ZONE SUBSTATION 180mm REINFORCED CONCRETE ACCESS ROAD ARRANGEMENT & DETAIL

B 52751 ~~A~~
SHEET No OF SHEETS
~~F~~ G
INDEX REF A 2 (B)

AMENDMENTS

	AMENDMENT	DR'N	CH'D	DATE	No.	M.S.D. / S.D.E.
A	ORIGINAL ISSUE					
B	LATCH RECESS FORMER DETAIL ADDED.	D.S.C.	D.J.Z.	21-5-85	CH No 463	M.S.D. K.K.
C	CURING AGENT WAS WHITE WAX.	T.P.		17-6-86	DA No 86-182	M.S.D. T.P.
D	NOTE 8 "COVERAGE REF REMOVED & SC1104 REF ADDED.	D.M.M.	R.I.H.	18-3-88	JR No 880065	S.D.E. T.P.
E	CHAINWIRE GATE POST INSTALLATION DETAIL, SECTION 'D-D' & NOTE 13 & 14 ADDED. KERB DIMENSIONS 280, 330 & 600 WERE 300, 350 & 750 RESPECTIVELY.	K.P.S.	R.I.H.	16-12-88	J.R. No 880319	S.D.E. R.J.M.
F	PROPEX 2002 CHANGED TO POLYTRAC 155 GEOTEXTILE FABRIC	P.A.S.	R.I.H.	30-5-89	J.R. No 890115	S.D.E.
G	ARRGT DIM WAS 6150 NOTE 4 A.S. NUMBERS UPDATED. NOTES ADDED SECTION VIEWS 'A-A' AND 'D-D'.	R.M.M.	R.I.H.	20-8-93	J.R. No 920274	S.D.E. JRC