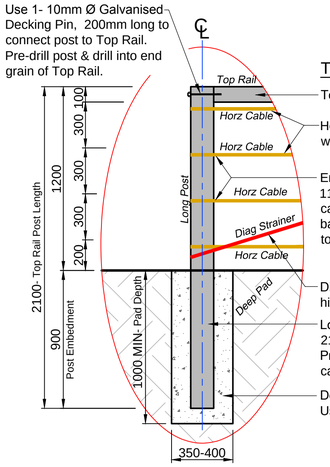
Use 1- 10mm Ø Galvanised Decking Pin, 200mm long to connect post to Top Rail. Pre-drill post & drill into end grain of Top Rail.



Typical Post with Timber Top Rail:

Top Rail- 100 - 125mm Ø H3 Treated Pine Top Rail.

Horz Cables- 4 No. 10mm galvanised braided cable wire with fibre inner, 6 x 24 strand, typical.

End Cable Termination- On each cable strand; use 11mm aluminium 'double' ferrules to terminate the cable. The cable is pulled through the post and tied back into the ferrule. Use a portable hydraulic press to crimp. See Photo 1 & 4.

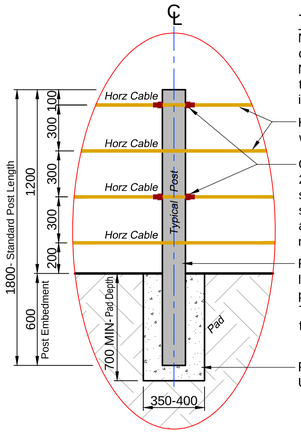
Diag Strainer Cable- 1 No. looped 2.5mm MIN Ø high tensile galvanised fencing wire.

Long Post- 125-150mm Ø H5 Treated Pine Post, 2100mm long, embedded 900mm into Pad. Provide 16mm Ø pre-drilled holes through post for cable placement.

Deep Pad- 1000mm MIN deep x 350-400mm Ø. Use 25MPa conc.

END POST DETAIL

SCALE 1: 20



Typical Post with Cables Both Sides:

NOTE: Provide Timber top Rail mid-span for continuous fencing that is ≥ 50M in length.
NOTE: A timber top rail is not required where there is no change in direction and no opening in the fencing.

Horz Cables- 4 No. 10mm galvanised braided cable wire with fibre inner, 6 x 24 strand, typical.

Cable Termination- Intermediate ferrules are to be 20mm OD x 3mm wall thickness, spaced every second bay on alternate strands, ie: 1st and 3rd strand on the 2nd post in (ie: Gridline 2) , then 2nd and 4th strand on the 3rd post in (ie: Gridline 3) repeating for the length of the fence. See Photo 5.

Post- 125-150mm Ø H5 Treated Pine Post, 1800mm long, embedded 600mm into Pad. Provide 16mm Ø pre-drilled holes through post for cable placement. Top of Posts are to be rasped/sanded/chamfered finish along top edges, refer Photo 5.

Pad- 700mm MIN deep x 350-400mm Ø. Use 25MPa conc.

STANDARD POST DETAIL

SCALE 1: 20

Photo 1

TYPICAL FENCE CORNER CONFIGURATION

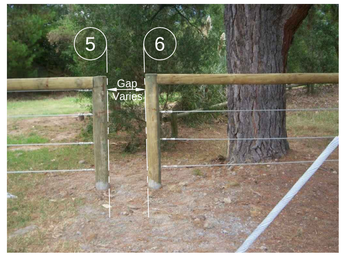


Photo 2

OPENING (INFORMAL ACCESS) EXAMPLE, WIDTH OF OPENING WILL VARY

Photo 3

FENCE CHANGE OF DIRECTION TOP RAIL/ CABLE CONFIGURATION

Photo 4

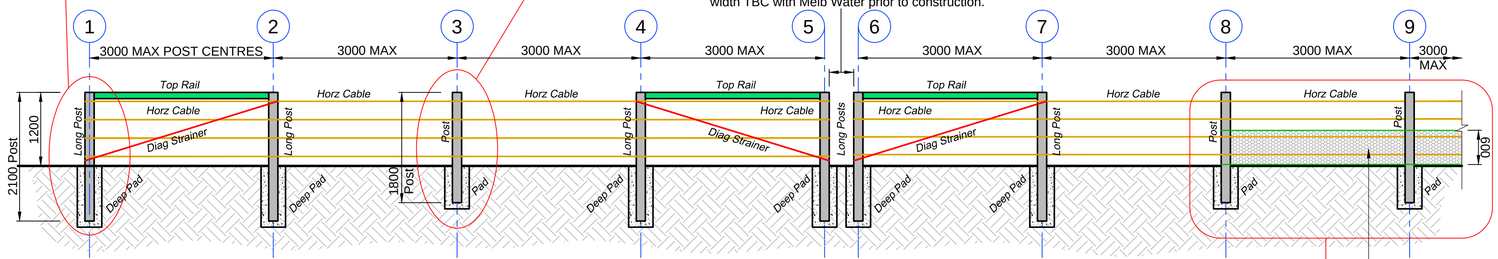
END POST DOUBLE FERRULE TERMINATION OF CABLE

Photo 5

CABLE FERRULES EITHER SIDE OF POST ON ALTERNATING STRANDS

Access Opening:

Consider site security and/or user access requirements. Widths will vary, e.g. for vehicle access gate, shared/all abilities pathways or informal pedestrian access. Opening width TBC with Melb Water prior to construction.



STANDARD FENCING ELEVATION

SCALE 1: 50

Optional Litter Trim:

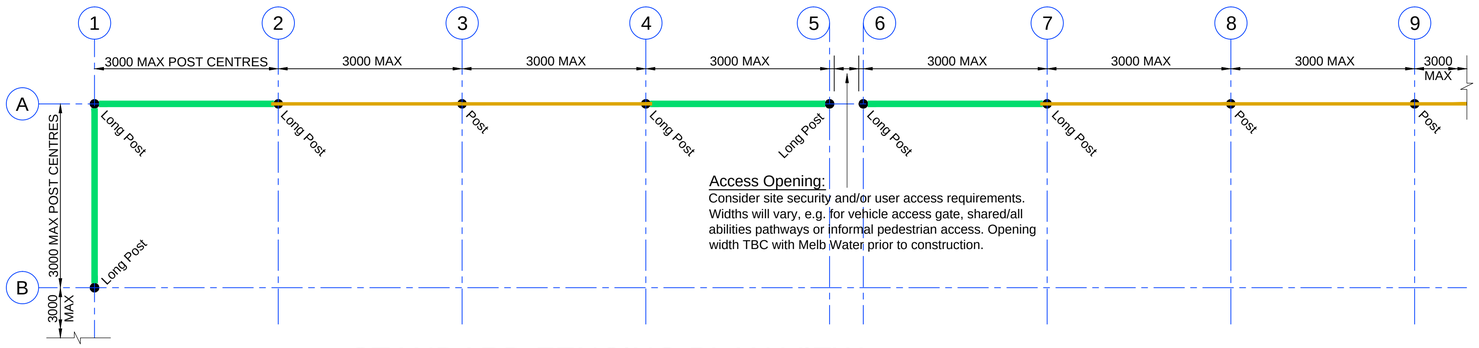
Hatched area indicates 600mm high Chicken Wire; use Heavy Duty Galvanised 600 x 40 x 1.4mm netting. Install Top & Bottom tensioned wires only. Chicken wire to be flush with ground to catch wind blown debris. See Photos 6 and 7.
Do not connect wire/fencing to main fencing cables.

Photo 6

CORNER POST WITH OPTIONAL LITTER TRIM

Photo 7

TYPICAL END POST CABLE TERMINATION & OPTIONAL LITTER TRIM TERMINATION



Access Opening:

Consider site security and/or user access requirements. Widths will vary, e.g. for vehicle access gate, shared/all abilities pathways or informal pedestrian access. Opening width TBC with Melb Water prior to construction.

STANDARD FENCING PLAN VIEW

SCALE 1: 50

Photo 8

TYPICAL ELEVATION OF END BAY & STANDARD BAY FENCING

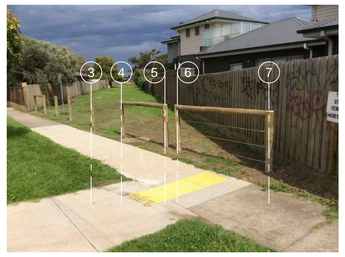


Photo 9

TYPICAL ELEVATION OF END BAY, FENCE OPENING & STANDARD BAY FENCING

NOTES :

1. All timber shall be CCA treated,
2. All steelwork & fixings shall be galvanised,
3. When directed by Melbourne Water; All fencing near Power Easements shall be suitably earthed as per AusNet Guidelines.

0 200 400 600 800 1000 2000mm
SCALE 1 : 20 AT ORIGINAL SIZE

0 0.5 1.0 1.5 2.0 2.5 5.0M
SCALE 1 : 50 AT ORIGINAL SIZE

FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APPD	DATE
-	-	-	-	-	-	-	-
A	ISSUED FOR CONSTRUCTION	GMHS	-	TM	-	-	13.10.2020

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Melbourne Water
-

DRAFTER	DESIGNER	DESIGN MANAGER APPROVAL	PROJECT MANAGER APPROVAL
T. Michaels	-	-	-
DRAFTING CHECK	ENGINEERING REVIEW		
B. Michael	-		

TITLE HEAVY DUTY CABLE FENCE
-
GENERAL ARRANGEMENT

PROJECT DATUM Project Datum
SCALE 1:100
Original Size A1

MELBOURNE WATER CORPORATION

CODE	MWC DRAWING NUMBER	REV
G	GS/FEN/008	A

TC 13 Oct 2020 4:39 PM - T:\TMC \\20-028- Melb Water Details\HEAVY DUTY CABLE FENCE, Rev A.DWG