

GI PIPE BOUNDARY FENCE - FULL DRAWING SET

SHEET 1 OF 7

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED. VERIFY SITE CONDITIONS BEFORE CONSTRUCTION.

PROJECT PARAMETERS

DESIGN BASIS		DRAWING REGISTER	
LAND SIZE	30,480 x 15,240	01	COVER, DRAWING INDEX & GENERAL NOTES
BOUNDARY PERIMETER	91,440	02	BOUNDARY SETTING-OUT PLAN
FRONT GATE	3,660 clear opening, centred	03	TYPICAL FENCE ELEVATIONS & BAY SCHEDULE
GI PIPE	1.5-inch diameter x 5,791 stock length	04	STRIP FOOTING & POST EMBEDMENT DETAILS
POST CUT LENGTH	2,895.6	05	DOUBLE-LEAF GATE GENERAL ARRANGEMENT
FOOTING	100 wide x 300 high continuous strip	06	PIPE, MESH, CORNER & TERMINATION DETAILS
FENCE INFILL	galvanised wire mesh	07	MATERIAL TAKE-OFF & CONSTRUCTION NOTES

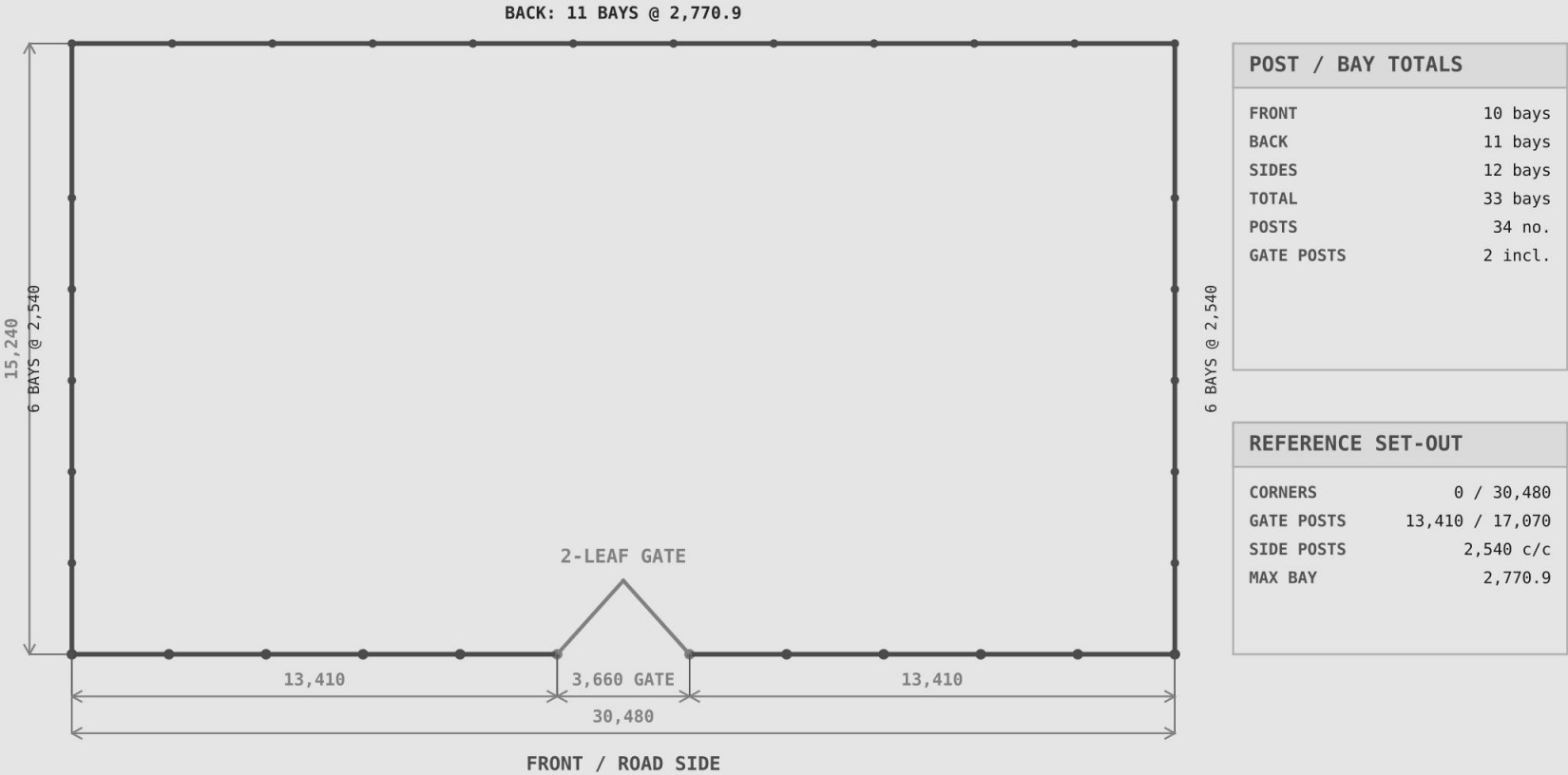
GENERAL NOTES
1. Set out all corners and gate centreline before excavation. 2. Dimensions govern. Do not scale drawings. 3. Confirm boundaries against an approved survey. 4. Hot-dip galvanise or use marine-grade coating on all cut/welded GI surfaces. 5. Concrete grade, reinforcement and soil bearing capacity require local verification. 6. Gate posts and foundations require structural verification for wind and gate loads. 7. Protect underground services and coordinate drainage/finished ground levels. 8. Use stainless or hot-dip galvanised mesh ties, bolts, hinges and fasteners.

STATUS: CONCEPT / SETTING-OUT / FABRICATION GUIDANCE

BOUNDARY SETTING-OUT PLAN

SHEET 2 OF 7

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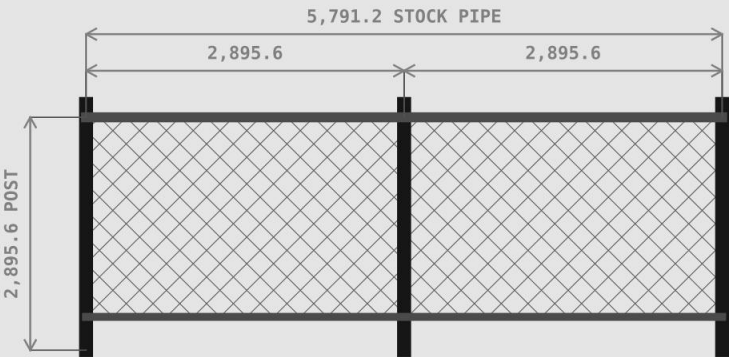


TYPICAL FENCE ELEVATIONS & BAY SCHEDULE

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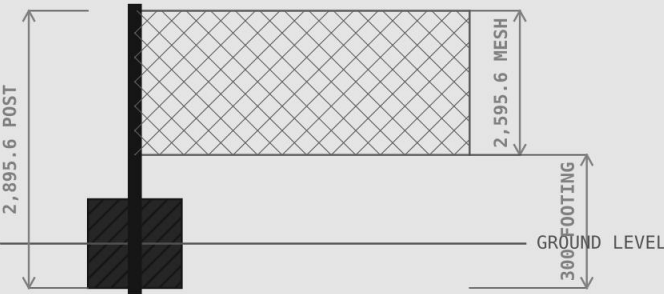
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A. TYPICAL FULL STOCK PIPE WITH CENTRE SUPPORT



BAY / HEIGHT SCHEDULE	
Front left/right	5 bays each @ 2,682
Back boundary	11 bays @ 2,770.9
Side boundaries	6 bays each @ 2,540
Post stock cut	2,895.6 each
Footing embedment	300 through strip
Nominal mesh height	2,595.6 above footing top
Top/bottom rails	1.5-inch GI pipe
Mesh fixing	galvanised/stainless ties @ 300 max
Post cap	sealed GI cap, typ.
Coating	zinc-rich repair to every cut/weld

B. CONSTRUCTED HEIGHT AT STRIP FOOTING



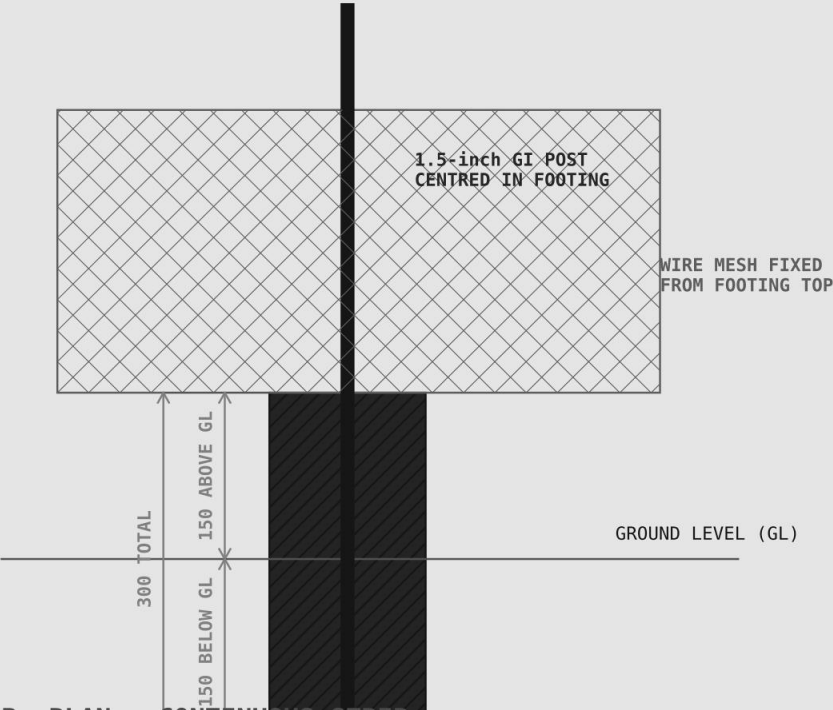
NOTE: Finished visible fence height varies with site grading and final footing top level.

STRIP FOOTING & POST EMBEDMENT DETAILS

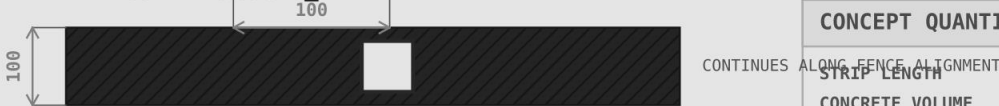
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SHEET 4 OF 7

A. ELEVATION / CROSS-SECTION



B. PLAN - CONTINUOUS STRIP



FOOTING NOTES

1. Continuous strip along fence alignment, excluding gate opening.
2. Strip size: 100 wide x 300 high, 150 above + 150 below GL.
3. Centre posts in strip and keep plumb during concrete placement.
4. Provide concrete cover and reinforcement only to engineer's detail.
5. Confirm mix strength, soil, salt exposure and ground-water conditions.
6. Slope footing top slightly to shed water away from GI post.
7. Seal post base/open ends against trapped water and internal corrosion.
8. Gate-post foundations are separate and require structural verification.
9. Do not place concrete around unprotected cut or welded GI surfaces.
10. Maintain fence alignment and post centres shown on Sheet 2.

CONCEPT QUANTITY

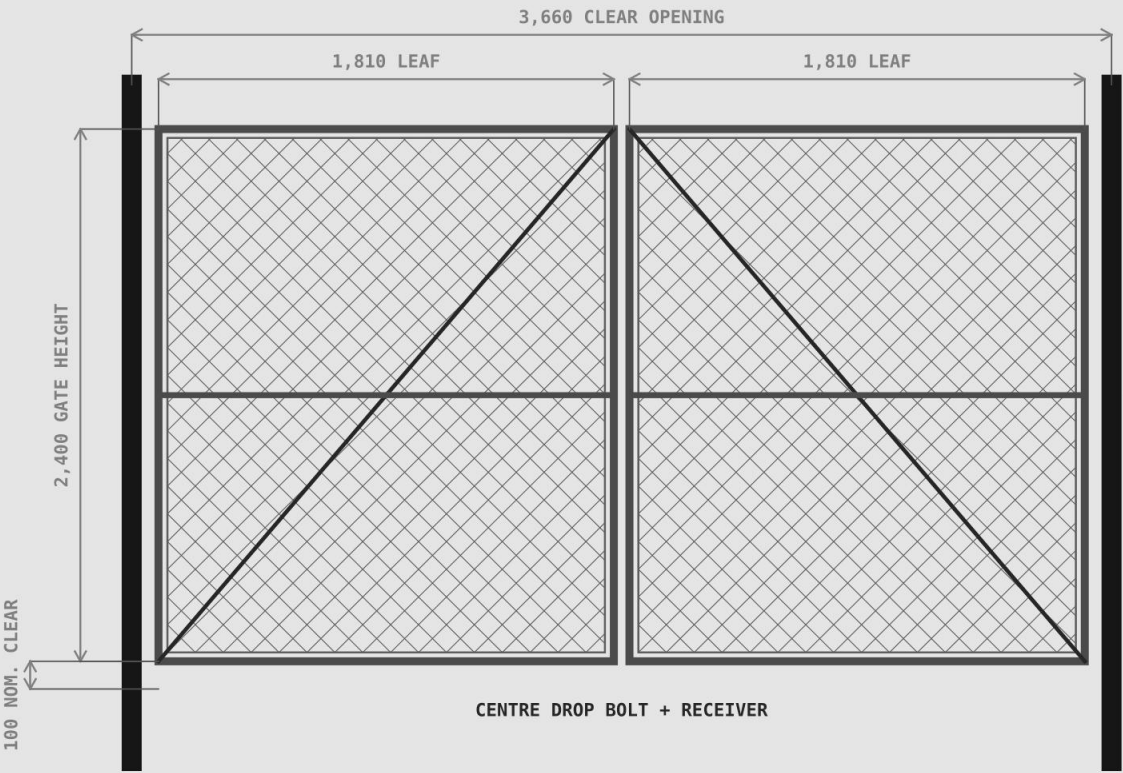
STRIP LENGTH	87.780 m
CONCRETE VOLUME	2.633 m3 before waste

DOUBLE-LEAF GATE - GENERAL ARRANGEMENT

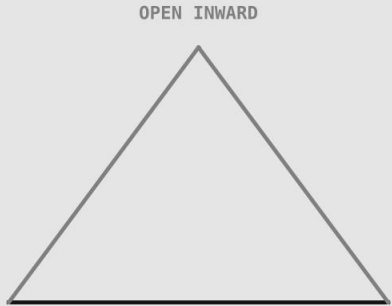
SHEET 5 OF 7

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FRONT ELEVATION



PLAN / SWING



GATE FABRICATION NOTES

1. Two equal nominal 1,810 mm leaves.
2. Allow 10 mm hinge gaps + 20 mm centre gap.
3. Provide diagonal brace to each leaf as shown.
4. Minimum 3 heavy-duty hinges per leaf.
5. Provide centre latch and lock provision.
6. Provide drop bolts to both leaves.
7. Gate post and footing must be verified.
8. Check swing direction and road clearance.
9. Zinc-repair all cuts and welds.

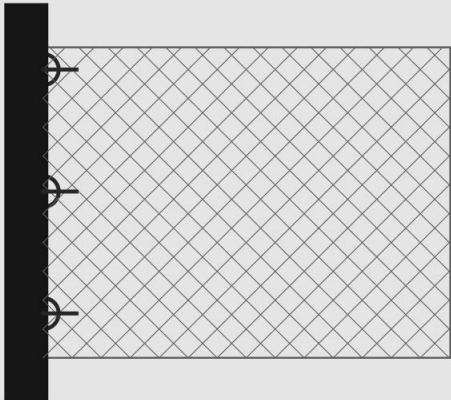
CAUTION: 1.5-inch GI gate posts may be insufficient for a 3,660 mm gate under high wind loads. Obtain local structural approval.

PIPE, MESH, CORNER & TERMINATION DETAILS

SHEET 6 OF 7

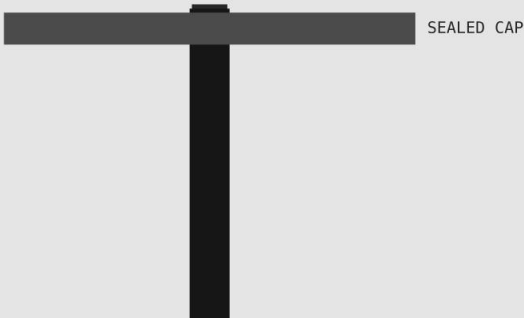
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A. MESH TIE TO POST



GALVANISED / SS TIES @ 300 MAX

B. TOP RAIL / POST CAP



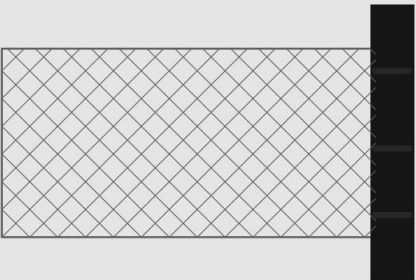
CLAMPED OR WELDED CONNECTION; ZINC-REPAIR

C. 90-DEGREE CORNER



OPTIONAL DIAGONAL BRACE

D. END / GATE POST TERMINATION



TENSION / TIE BANDS

CONNECTION NOTES

- No sharp wire ends exposed.
- Isolate dissimilar metals.
- Deburr every cut edge.
- Keep mesh taut and level.
- Tie spacing: 300 max.
- Reinforce corners/ends.
- Seal hollow sections.
- Marine-grade protection.

MATERIAL TAKE-OFF & CONSTRUCTION NOTES

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CONCEPT MATERIAL TAKE-OFF

ITEM	DESCRIPTION / BASIS	NET REQUIREMENT	ORDER GUIDE
GI POSTS	34 posts x 2,895.6; 2 posts per stock length	34 posts / 17 pipes	18 pipes incl. allowance
FENCE RAILS	2 continuous rows; boundary less gate opening	175.560 m / 32 pipes	34 pipes incl. allowance
GATE FRAME	2 leaves, mid-rails and diagonal braces	approx. 30.1 m	6 pipes incl. allowance
TOTAL GI PIPE	1.5-inch dia. x 5,791.2 stock lengths	55 pipes calculated	58 pipes recommended
WIRE MESH	Fence 87.78 x 2.5956 + gate infill	approx. 236.6 m2	249 m2 incl. 5%
STRIP CONCRETE	87.78 x 0.10 x 0.30	2.633 m3	2.90 m3 incl. 10%
MESH TIES	At 300 max vertically to posts/rails	Site measured	Marine-grade GI/SS
POST CAPS	One per post, including gate posts	34 no.	36 no.
HINGES	Heavy duty, minimum 3 per leaf	6 no.	6 no. + fixings
GATE HARDWARE	Latch, lock loop, 2 drop bolts/receivers	1 set	1 complete set
COATING	Zinc-rich repair + compatible marine topcoat	All cuts/welds	As manufacturer data

CONSTRUCTION SEQUENCE

- 1 SURVEY / SET OUT
- 2 EXCAVATE STRIP
- 3 PLUMB POSTS
- 4 PLACE CONCRETE
- 5 FIX RAILS / MESH
- 6 INSTALL GATE
- 7 COAT / INSPECT

Quantities are conceptual and exclude excavation, reinforcement, formwork, transport, wastage beyond shown allowances and gate-post foundation upgrades.