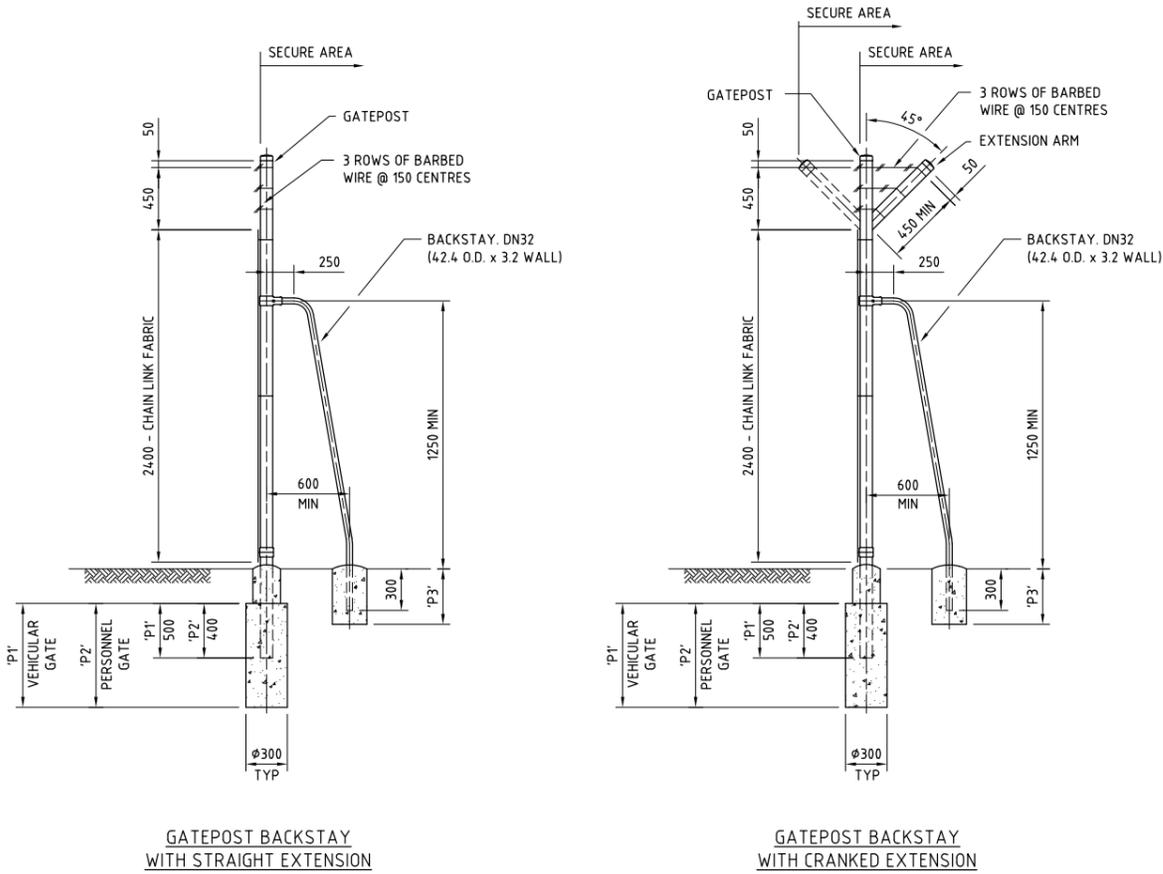


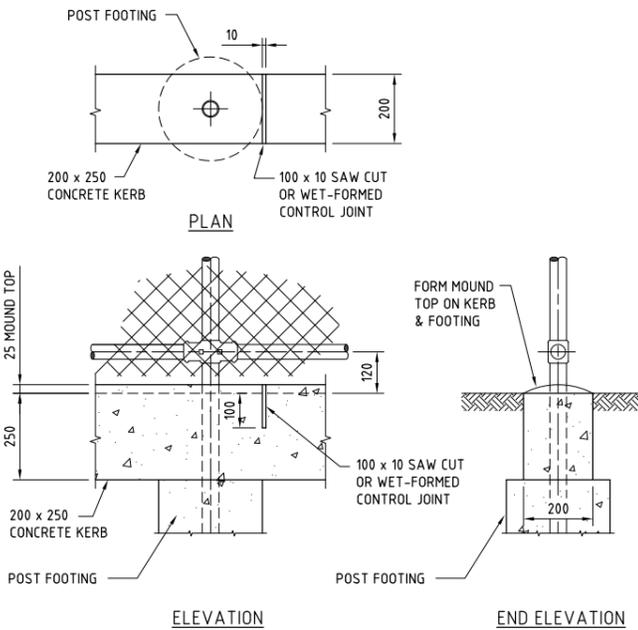
A1

THIS DRAWING MAY ONLY BE USED IN THE COURSE OF AND FOR THE PURPOSE OF CREATING SYDNEY WATER ASSETS. USE THIS DRAWING WITH CARE. THE USER IS RESPONSIBLE FOR THE CORRECT APPLICATION OF THIS DRAWING.



DETAIL A  
SCALE - 1:25  
5000

GROUND TYPE & ALLOWABLE BEARING PRESSURE	DEPTH		
	PIER 'P1'	PIER 'P2'	PIER 'P3'
NATURAL GROUND OR ENGINEERED FILL WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 100 kPa	1100	750	600
ROCK OR SHALE WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 600 kPa	600	500	400



ELEVATION  
DETAIL D  
SCALE 1:10  
5000

NOTES

- CHAIN LINK FABRIC**
- THE CHAIN LINK FABRIC SHALL BE PLASTIC COATED, USING EITHER PVC (POLYVINYL CHLORIDE) OR PE (POLYETHYLENE OR POLYTHENE) COMPLYING WITH AS 2423, WITH A BASE METALLIC COATING NOT LESS THAN W02Z. THE COLOUR FOR THE PLASTIC COATING SHALL BE DETERMINED BY THE PRINCIPAL, BUT SHALL BE EITHER BLACK (N6I TO AS 2700S) OR DARK GREEN (G11 TO AS 2700S).
  - THE CHAIN LINK FABRIC SELVEDGE SHALL BE 'KNUCKLE BARBED' IE. KNUCKLED BOTTOM & BARBED TOP.
  - THE CHAIN LINK FABRIC SHALL BE INSTALLED & SECURED TO THE OUTSIDE FACE OF THE POSTS & RAILS USING 3.75 THK GALVANISED 'SECUR-TY' CHAIN LINK TIES. THE TIES ARE TO BE SPACED AT 150 MAXIMUM CENTRES ALONG THE BOTTOM RAIL, 220 MAXIMUM CENTRES TO INTERMEDIATE POSTS & 75 MAXIMUM CENTRES ON END POSTS & AT TERMINATIONS. THE CHAIN LINK TIES SHALL BE FINISHED IN A MANNER AS TO NOT PROTRUDE FROM POSTS IE. PERPENDICULAR TO THE FABRIC, AS TO CAUSE INJURY.

POSTS

- ALL PIPE USED FOR POSTS SHALL BE IN ACCORDANCE WITH AS 1163 GRADE C250L0, GALVANISED IN ACCORDANCE WITH AS/NZS 4792.
- ALL POSTS MAY BE SPLICED BY BUTT WELDING, PROVIDED THAT THE SPLICE IS LOCATED IN THE CONCRETE & IS NOT LESS THAN 150 BELOW GROUND LEVEL. WELDS ARE TO BE CLEANED & TREATED WITH ZINC RICH PAINT. THE TOPS OF ALL POSTS SHALL BE FITTED WITH TIGHTLY FITTED GALVANISED STEEL CAPS.

BRACING STRUTS, STAYS & BOTTOM RAILS

- ALL PIPE USED FOR BRACING STRUTS, BRACING STAYS, BACK STAYS & BOTTOM RAILS SHALL BE IN ACCORDANCE WITH AS 1163 GRADE C250L0, GALVANISED IN ACCORDANCE WITH AS/NZS 4792.
- ALL STRUTS, STAYS & BOTTOM RAILS SHALL BE PROVIDED WITHOUT JOINTS.
- ALL STRUTS, STAYS & BOTTOM RAILS SHALL BE SECURELY CONNECTED TO POSTS WITH GALVANISED BOLTED SPLIT CLAMP ON TYPE FITTINGS TO MANUFACTURER'S RECOMMENDATIONS.

SUPPORT CABLES

- TOP & MIDDLE SUPPORT CABLES SHALL BE FITTED TO EACH FENCE PANEL & SHALL BE HEAVY GALVANISED 3.15 THK DOUBLE TWISTED CABLE WIRE TO AS 2423.
- THE TOP SUPPORT CABLE SHALL BE POSITIONED ONE HALF DIAMOND BELOW THE TOP SELVEDGE OF THE CHAIN LINK FABRIC.
- THE TWO COMPONENT WIRES OF EACH SUPPORT CABLE SHALL BE TWISTED TOGETHER AT INTERVALS BETWEEN POSTS TO FORM A TIGHT SPIRAL PITCH & PROVIDE 100-120kg TENSION ON THE CABLES TO SUPPORT THE CHAIN LINK FABRIC. THE TENSIONING OF THE SUPPORT CABLES IS NOT TO COMMENCE UNTIL THE CONCRETE FOOTINGS HAVE CURED.
- THE ENDS OF CABLE WIRES SHALL BE FIRMLY SECURED TO ALL TERMINAL POSTS. EACH CABLE WIRE IS TO BE WRAPPED AROUND THE TERMINAL POST TWICE, WITH THE END NEATLY TIED OVER A MINIMUM OF FOUR TIGHT COMPACT TWISTS AROUND THE CABLE WIRE, WITH THE ENDS CUT OFF FLUSH WITH THE CABLES.

EXTENSIONS & TOPPINGS

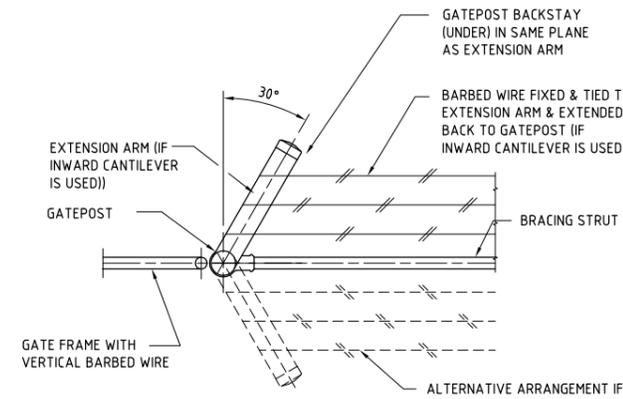
- ALL EXTENSIONS SHALL BE CONTINUATIONS OF THE FENCE POSTS, GALVANISED IN ACCORDANCE WITH AS/NZS 4792.
- ALL TOPPINGS (BARBED WIRE) TO BE CONVENTIONAL TWIST OR REVERSE TWIST WIRE IN ACCORDANCE WITH AS 2423. THE STRANDS SHALL BE STRAINED & PERMANENTLY SECURED TO THE EXTENSIONS.

GATES & LOCKING ARRANGEMENTS

- ALL GATES SHALL OPEN OUTWARDS, SUBJECT TO NO OPERATIONAL OR SAFETY ISSUES.
- ALL JOINTS SHALL BE FULLY WELDED JOINTS (STAGGERED WELDING IS NOT PERMITTED). TWO COATS OF APPROVED ZINC RICH PAINT SHALL BE APPLIED IN ACCORDANCE WITH AS 4680 TO ANY SURFACES DAMAGED DURING WELDING.
- ALL GATES SHALL BE COVERED WITH CHAIN LINK FABRIC TO MATCH THE FENCE. THE FABRIC SHALL BE DRAWN TAUT & LACED WITH 2 THK LACING WIRE TO THE OUTER FRAME & TIED TO EACH INTERNAL MEMBER. BARBED WIRE SHALL BE FITTED & STRAINED TAUT TO THE GATE EXTENSIONS TO MATCH THE LINES OF BARBED WIRE ON THE FENCE.
- ALL GATES SHALL BE FITTED WITH TWO CLAMP ON OR INTERLOCKING TYPE HINGES.
- PERSONNEL GATES SHALL BE FITTED WITH A SLIDING BOLT FABRICATED USING Ø12 ROUND GALVANISED PLAIN CARBON STEEL. THE BOLT IS TO ENGAGE INTO A GATEPOST OR ADJACENT STRUCTURE. THE SLIDING BOLT SHALL BE SECURED USING A PADLOCK KEYED TO SYDNEY WATER'S KEYING SYSTEM. THE PADLOCK SHALL BE ENDORSED 'INTRUDER RESISTANT AREA' APPLICATION, AS LISTED IN THE COMMONWEALTH OF AUSTRALIA SECURITY EQUIPMENT CATALOGUE.
- VEHICULAR GATES SHALL BE FITTED WITH A FLAG PIN DROP BOLT COMPLETE WITH A PADLOCK & A SHORTER DROP BOLT, ATTACHED TO THE OTHER GATE FRAME. BOTH BOLTS SHALL ENGAGE IN FERRULES FIXED INTO THE ROADWAY. THE PADLOCK SHALL BE KEYED TO SYDNEY WATER'S KEYING SYSTEM. THE PADLOCK SHALL BE ENDORSED 'INTRUDER RESISTANT AREA' APPLICATION, AS LISTED IN THE COMMONWEALTH OF AUSTRALIA SECURITY EQUIPMENT CATALOGUE.

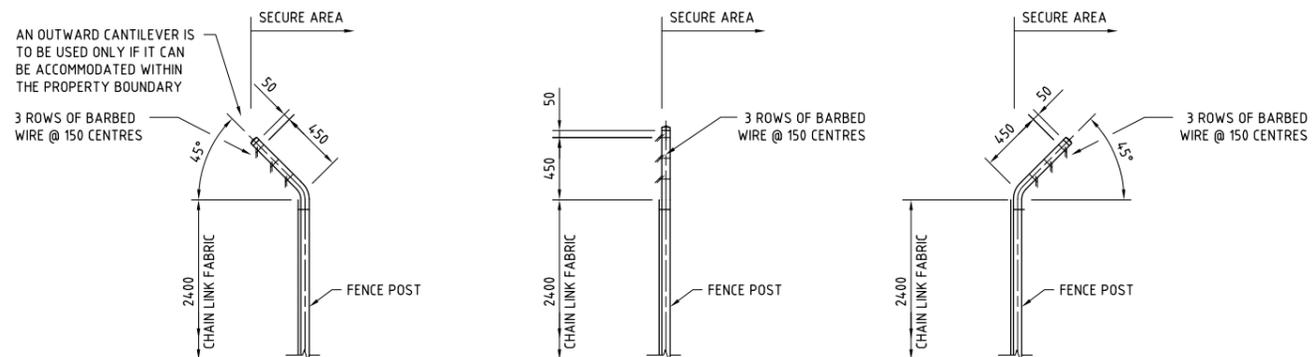
MISCELLANEOUS

- ALL WELDS SHALL BE 6 CONTINUOUS FILLET U.N.O. IN ACCORDANCE WITH AS 1554 PART 1.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 & AS 4100.
- CONCRETE QUALITY (TO AS3972):  
CLASS GRADE N25  
MAXIMUM AGGREGATE SIZE 10 mm
- WHERE ELECTRO-MECHANICAL STRIKE MECHANISMS ARE INCORPORATED INTO THE DESIGN, RELEASE MECHANISMS SHALL BE SHROUDED TO PREVENT TAMPERING.



PLAN AT GATEPOSTS

DETAIL C  
SCALE - N.T.S.  
5000



OUTWARD CANTILEVER EXTENSION  
(PREFERRED FOR UNMANNED SITES)

VERTICAL EXTENSION  
(PREFERRED FOR MANNED SITES)

INWARD CANTILEVER EXTENSION  
(LEAST PREFERRED)

DETAIL B  
SCALE - 1:25  
5000

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING No. DTC/5000



APPROVED  
P. GILLMAN  
MANAGER - E & ES

DEEMED TO COMPLY DRAWINGS  
INTRUDER RESISTANT PERIMETER BARRIER TYPE 1  
CHAIN LINK FABRIC SECURITY FENCE & GATES  
SHEET 2 OF 2

DTC	
5001	
ISSUE	DATE
A	01.03.13

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ENGINEERING & ENVIRONMENTAL SERVICES

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LETTER	DETAILS OF ISSUE / AMENDMENT	APP'D	DATE