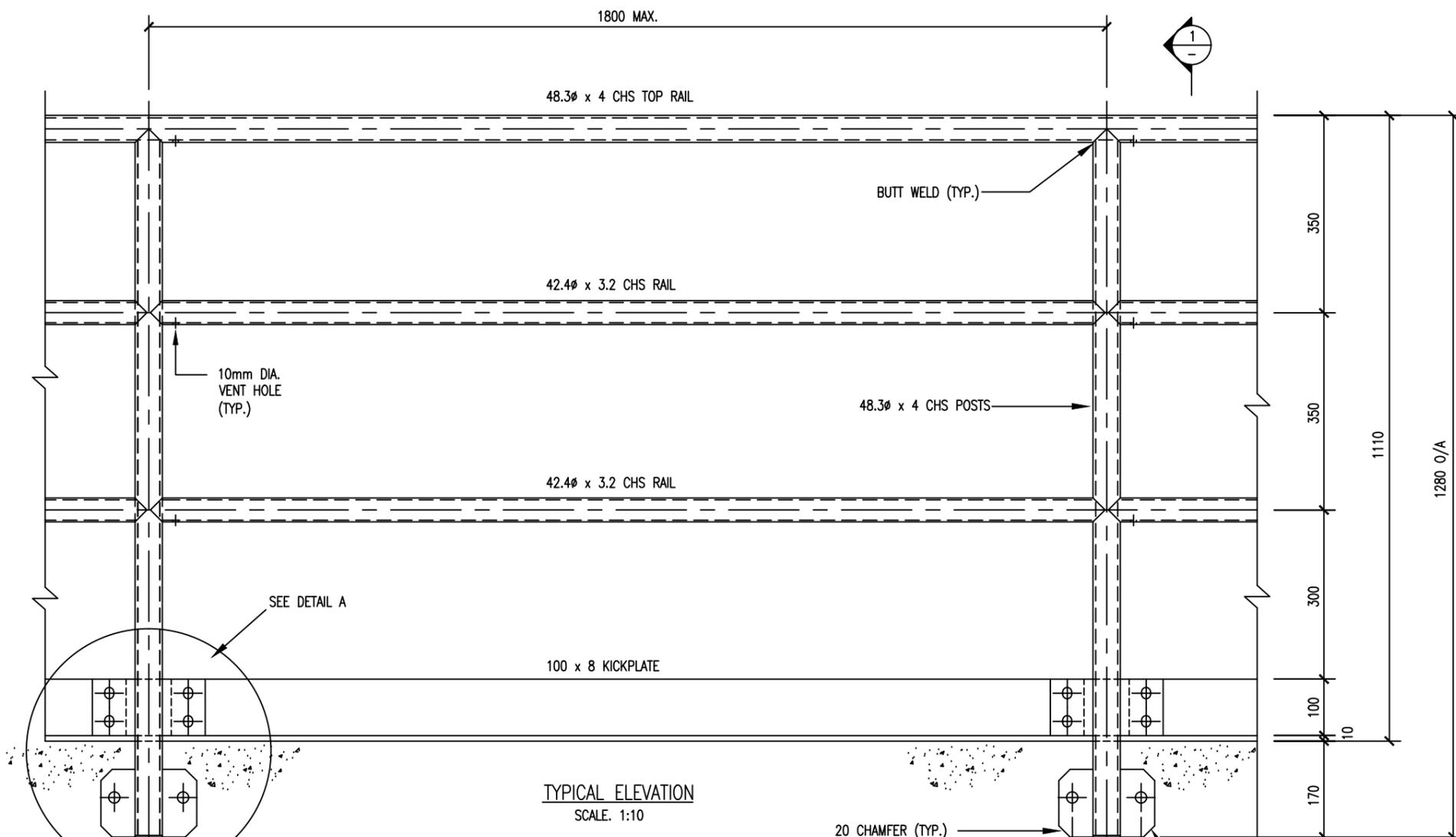
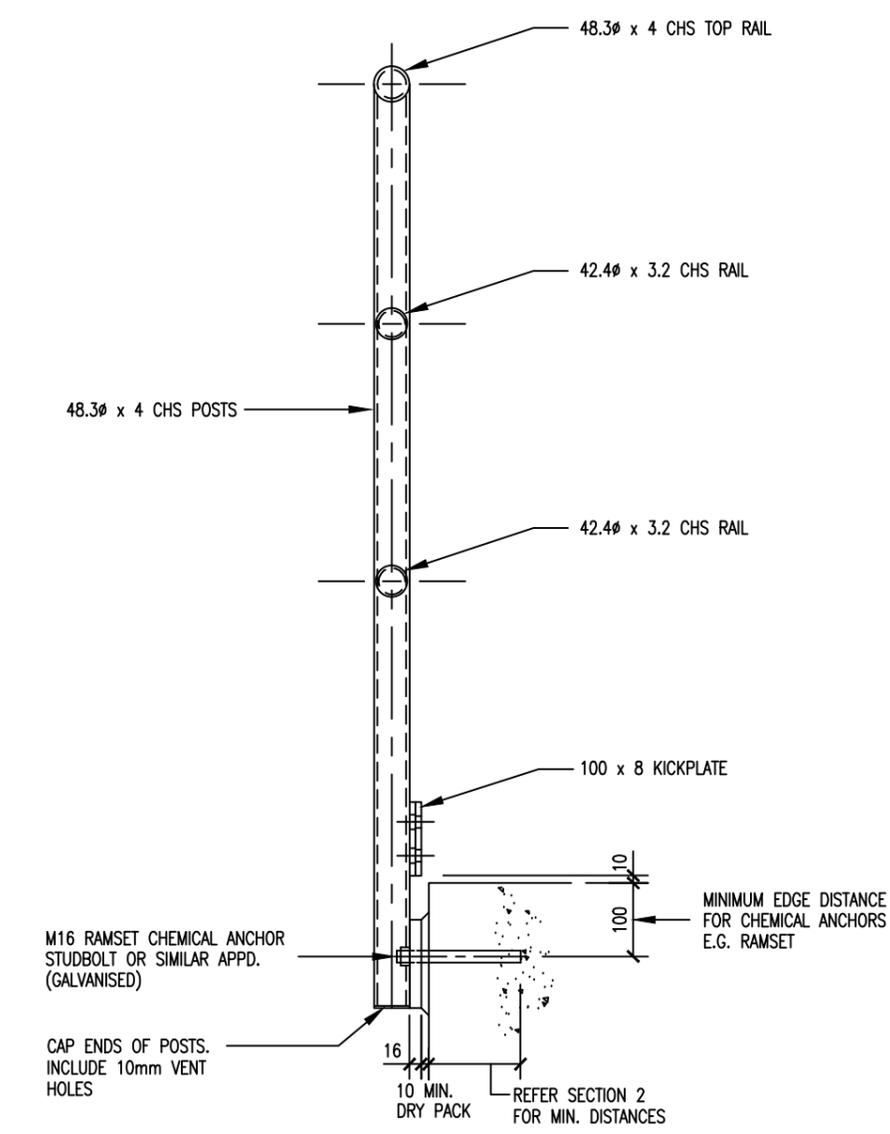


Drawing Index

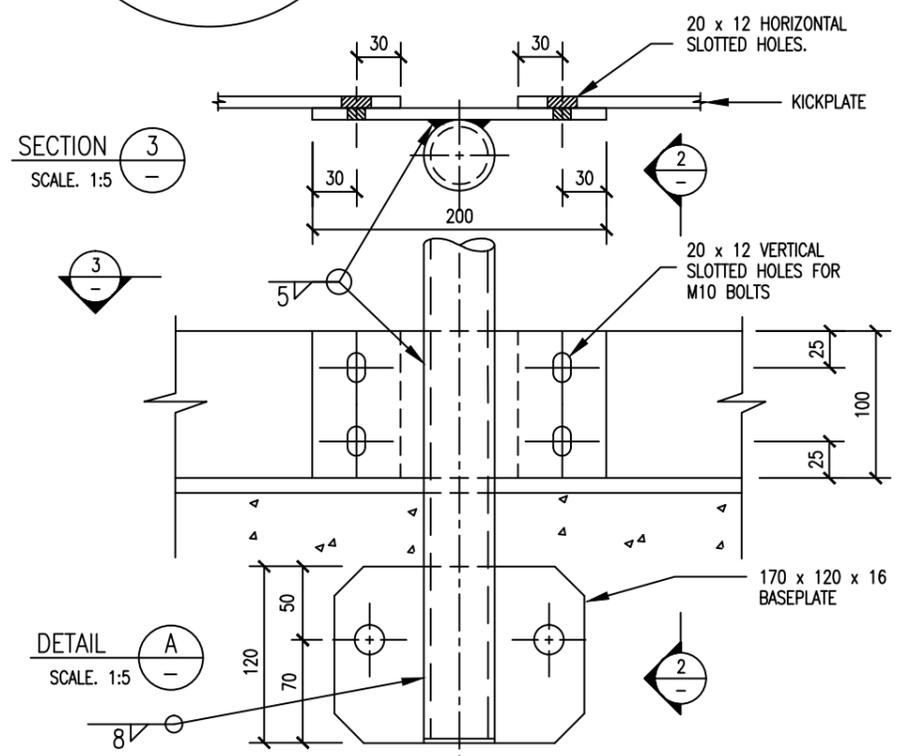
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2001979.047A.pdf	2001979.047	WATERCARE SERVICES STANDARD HANDRAIL FOR NON PUBLIC AREA ELEVATION AND FIXING DETAIL SIDE WALL MOUNTING
2001979.048A.pdf	2001979.048	WATERCARE SERVICES STANDARD HANDRAIL FOR PUBLIC AREA WITH CHILDREN UNDER 6 ELEVATION AND FIXING DETAIL SIDE WALL MOUNTING
2001979.049B.pdf	2001979.049	WATERCARE SERVICES STANDARD HANDRAIL FOR NON PUBLIC AREA ELEVATION AND FIXING DETAIL SURFACE MOUNTING
2001979.050A.pdf	2001979.050	WATERCARE SERVICES STANDARD HANDRAIL FOR PUBLIC AREA WITH CHILDREN UNDER 6 ELEVATION AND DETAIL TOP SURFACE MOUNTING



TYPICAL ELEVATION
SCALE: 1:10

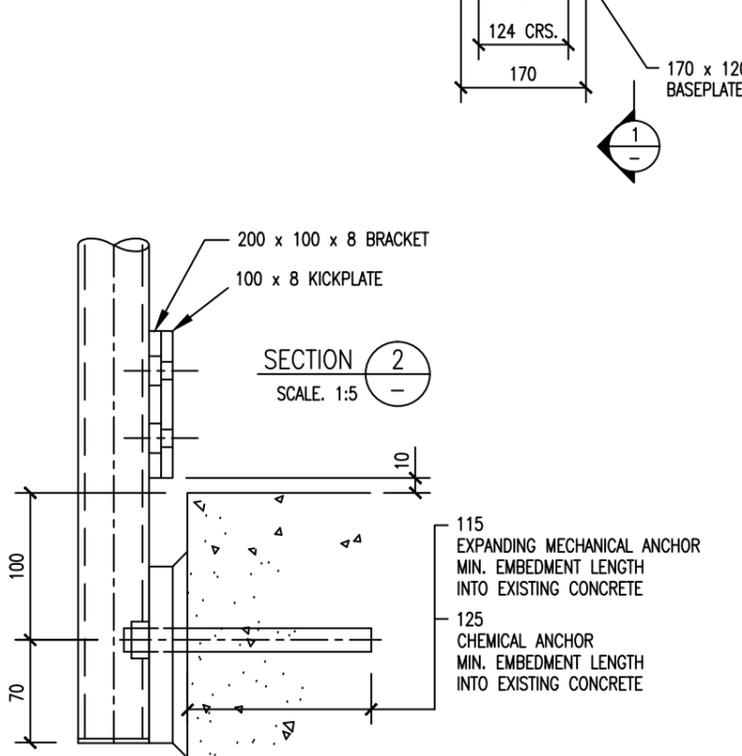


SECTION 1
SCALE: 1:10



SECTION 3
SCALE: 1:5

DETAIL A
SCALE: 1:5



SECTION 2
SCALE: 1:5

BASEPLATE FIXING

- CHEMICAL ANCHOR FIXING OPTIONS AS BELOW :
1. RAMSET EPOXY SET CHEMICAL INJECTION SYSTEM
 2. RAMSET EPCON C6 ANCHOR SYSTEM
 3. OTHER CHEMICAL TYPE ANCHOR SYSTEM WITH A MINIMUM TENSION SAFE WORKING LOAD OF 12kn (ALL WITH DRINKING WATER APPROVAL AND SAFE LOAD WHERE APPLICABLE)

NOTES

1. BASEPLATE FIXINGS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
2. WELDING TO COMPLY WITH AS1554.1
3. ANY SITE WELD JOINTS ON RAILS TO BE CLEANED AND PAINTED WITH ZINC RICH PAINT
4. ALL JOINTS TO BE MITRE CUT. PIPE ENDS SHALL NOT BE FLATTENED
5. ALL DIMENSIONS AND ANGLES TO BE CHECKED ON SITE
6. ALL STEEL TO BE TO AS1163 GRADE C250 OR EQUIVALENT
7. STEELWORK TO BE FABRICATED IN SECTIONS AS LARGE AS POSSIBLE AND HOT DIPPED GALVANISED AFTER FABRICATION
8. POSITION HANDRAIL BASEPLATES AS PER DETAILS BELOW. EDGE DISTANCES STATED BEING THE DISTANCE FROM BOLT CRS. TO EDGE OF CONCRETE
9. ALL FIXINGS TO BE HOT DIPPED GALVANISED

DESIGNED	R.G.	10-11			
DES. CHECKED	D.B.	10-11			
DRAWN	I.M.	10-11			
DWG. CHECKED	L.C.	10-11			
PROJECT LEADER	S.H.	10-11			
INFRAS'T'R APP'D	S.H.	10-11			
ISSUE	DATE	AMENDMENT	BY	APPD.	
A	10-11	PLAN REDRAWN TO CURRENT CODE REQUIREMENTS	I.M.	D.B.	

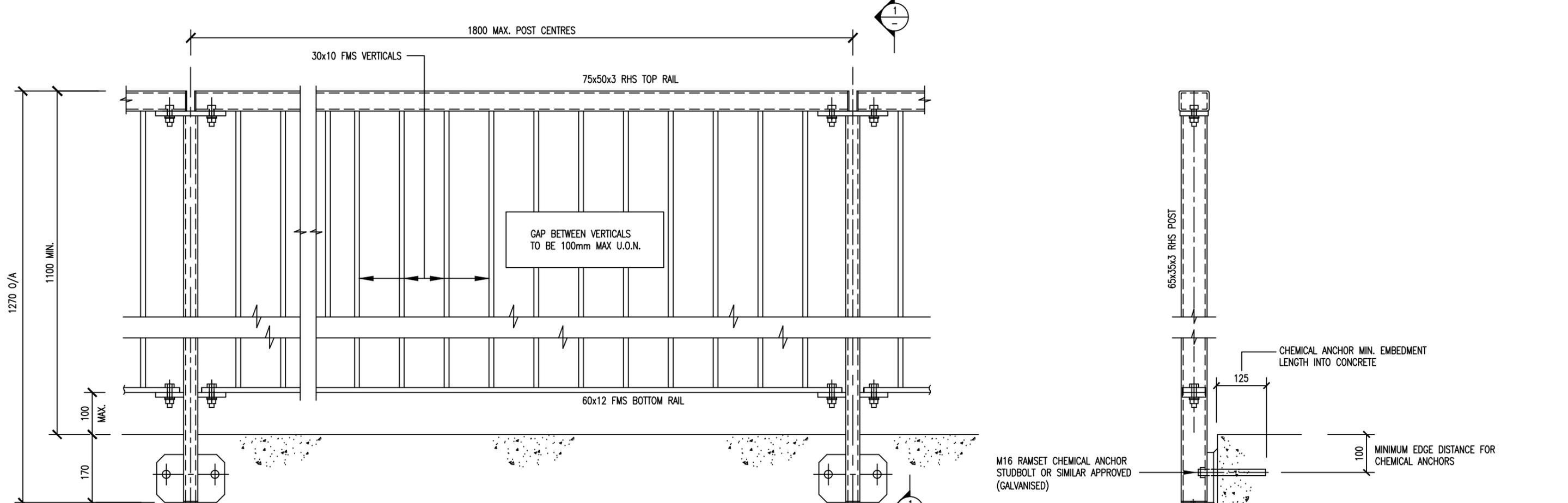
S CUNIS
OPERATIONS

T MUNRO
INFRASTRUCTURE

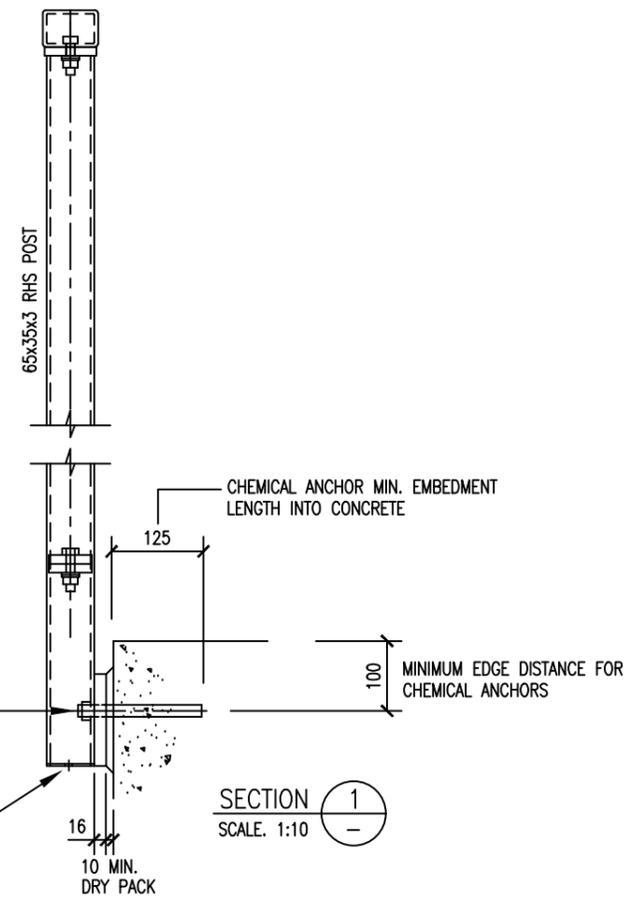
WATERCARE SERVICES STANDARD
HANDRAIL FOR NON PUBLIC AREAS
ELEVATION AND FIXING DETAILS FOR SIDE WALL MOUNTING

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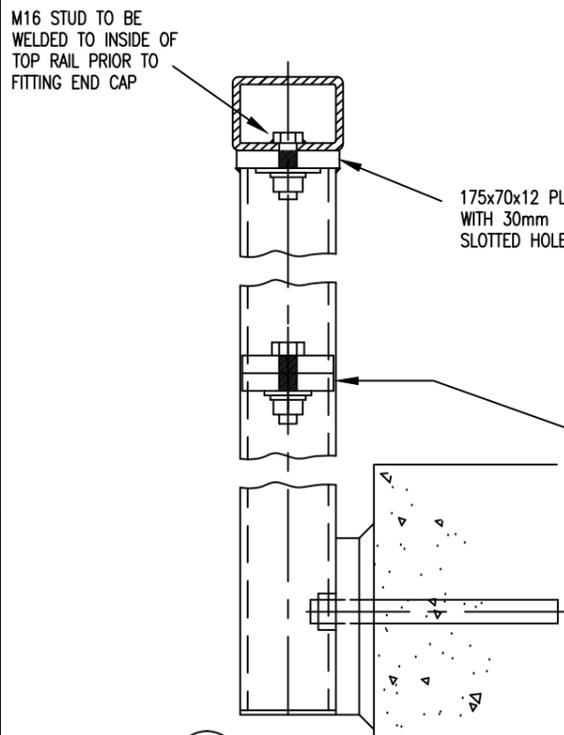
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AS SHOWN			
REF No.		ISSUE	
DWG No.	2001979.047		A



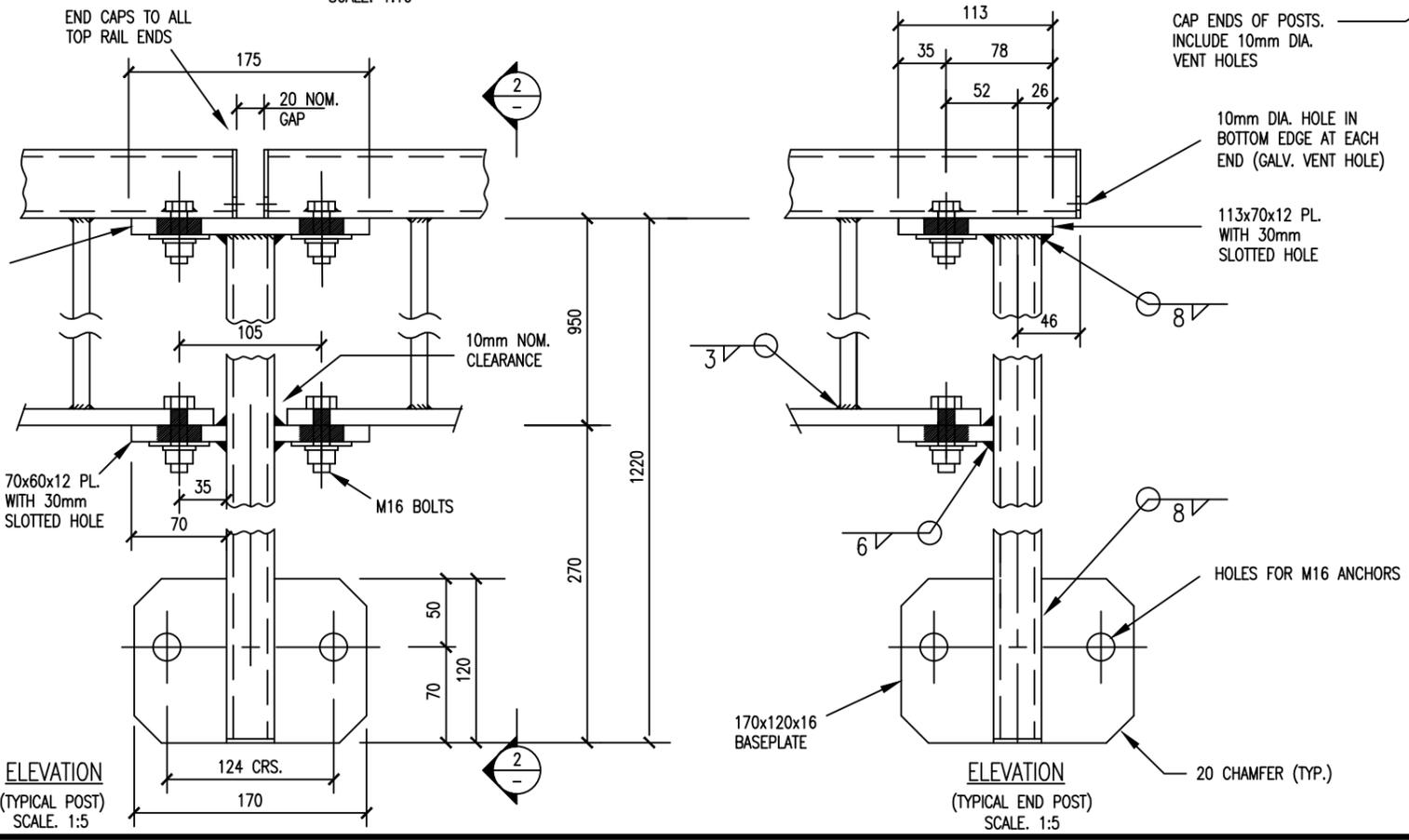
TYPICAL ELEVATION
SCALE: 1:10



SECTION 1
SCALE: 1:10



SECTION 2
SCALE: 1:5



ELEVATION
(TYPICAL POST)
SCALE: 1:5

ELEVATION
(TYPICAL END POST)
SCALE: 1:5

- BASEPLATE FIXING**
CHEMICAL ANCHOR FIXING OPTIONS AS BELOW :
1. RAMSET EPOXY SET CHEMICAL INJECTION SYSTEM
 2. RAMSET EPCON C6 ANCHOR SYSTEM
 3. OTHER CHEMICAL TYPE ANCHOR SYSTEM WITH A MINIMUM TENSION SAFE WORKING LOAD OF 12kn (ALL WITH DRINKING WATER APPROVAL AND SAFE LOAD WHERE APPLICABLE)

- NOTES**
1. BASEPLATE FIXINGS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
 2. WELDING TO COMPLY WITH AS1554.1
 3. ANY SITE WELD JOINTS ON RAILS TO BE CLEANED AND PAINTED WITH ZINC RICH PAINT
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 9. ALL FIXINGS TO BE HOT DIPPED GALVANISED

ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	R.G.	10-11
A	10-11	PLAN REDRAWN TO CODE REQUIREMENTS	I.M.	D.B.	INFRAS'TR APP'D	S.H.	10-11

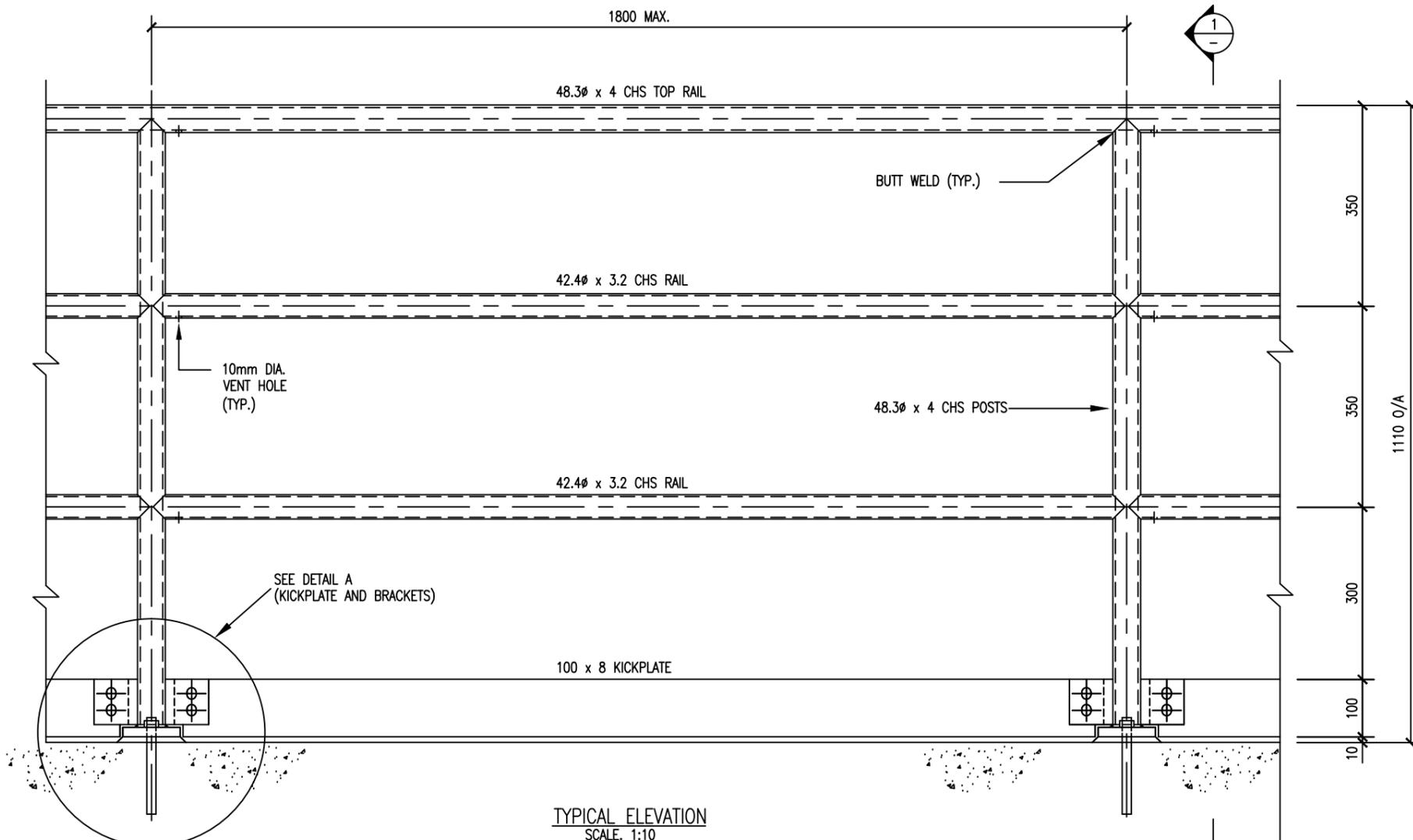
S CUNIS	OPERATIONS
T MUNRO	INFRASTRUCTURE

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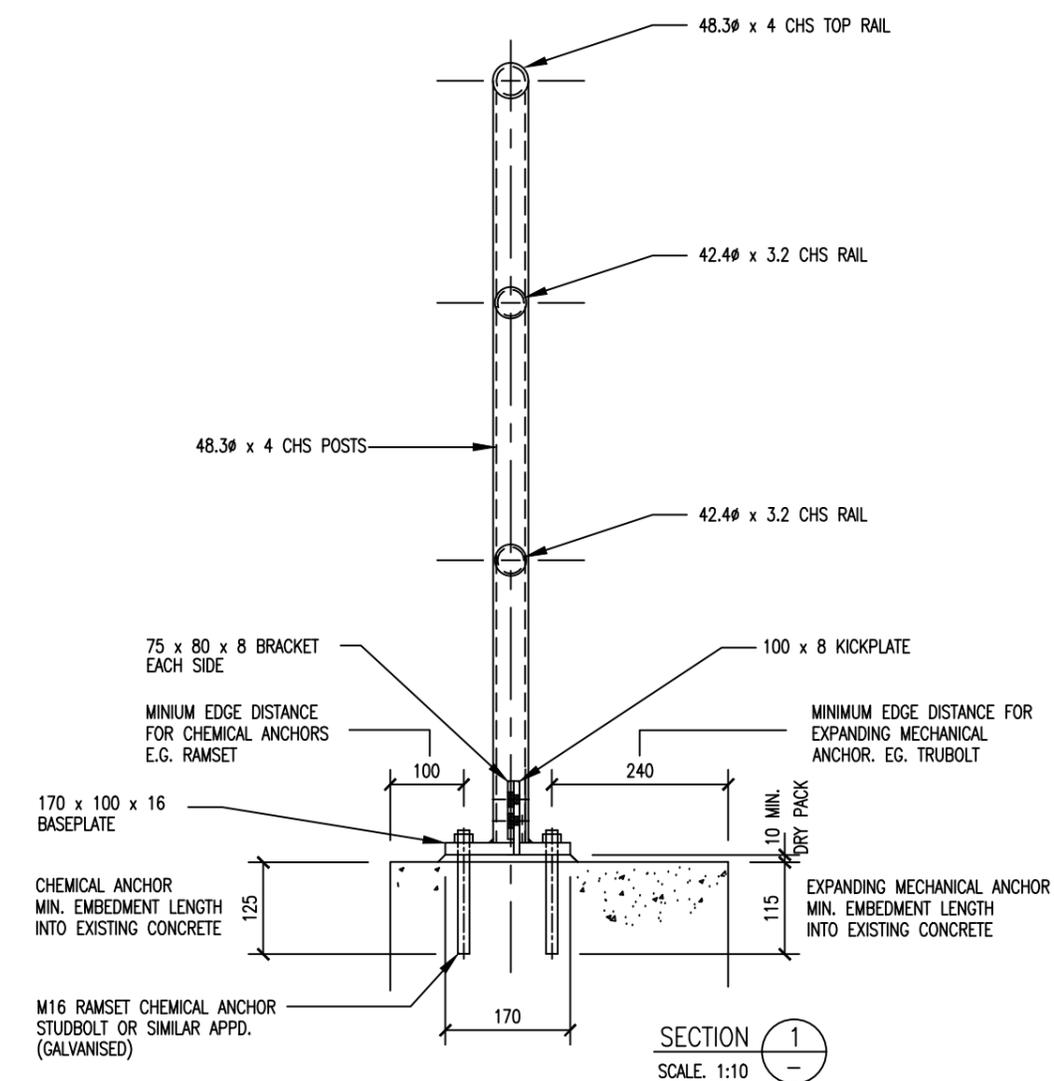
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WATERCARE SERVICES STANDARD
HANDRAIL PUBLIC AREAS WITH CHILDREN UNDER 6
ELEVATION AND FIXING DETAILS FOR SIDE WALL MOUNTING

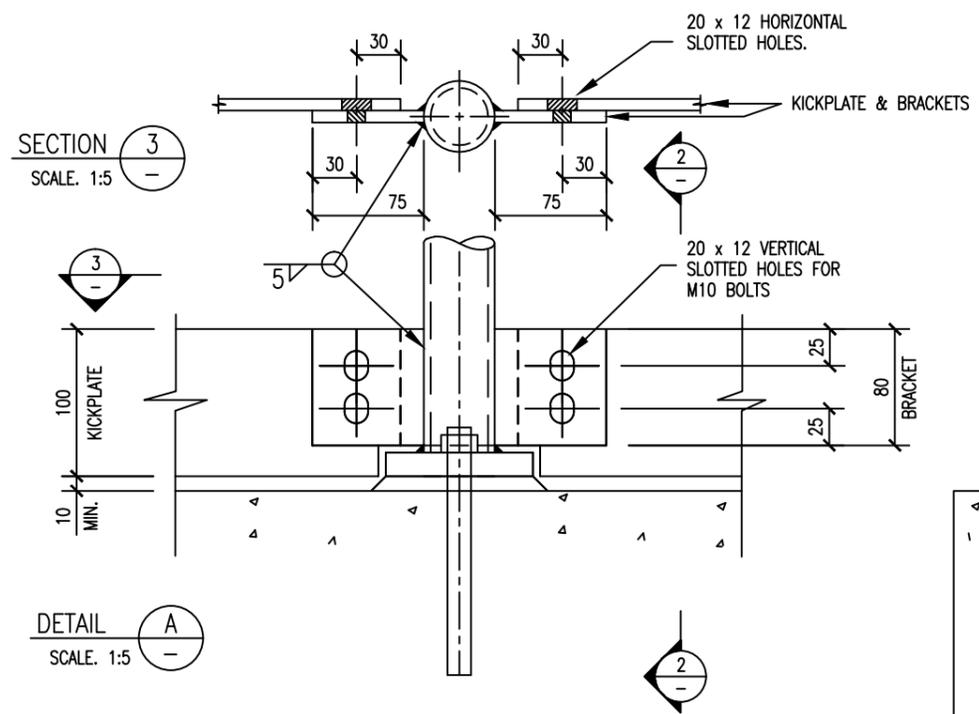
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ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.		ISSUE	
DWG No.	2001979.048		A



TYPICAL ELEVATION
SCALE: 1:10

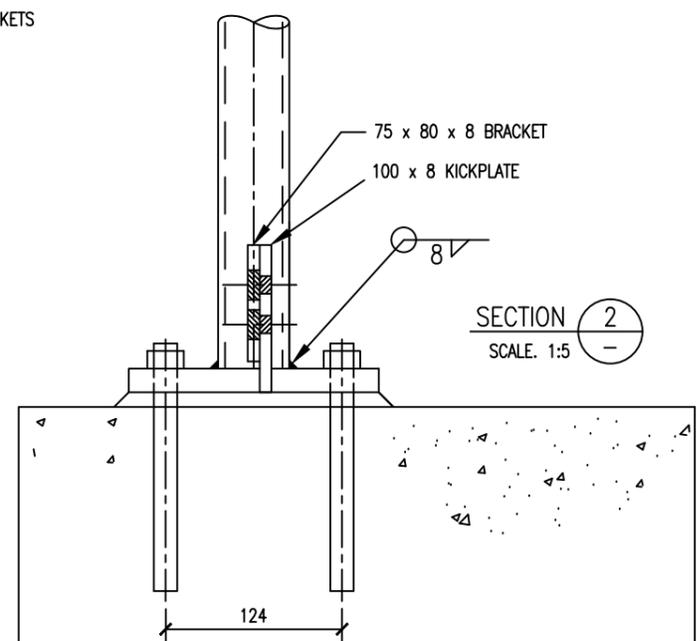


SECTION 1
SCALE: 1:10



SECTION 3
SCALE: 1:5

DETAIL A
SCALE: 1:5



SECTION 2
SCALE: 1:5

BASEPLATE FIXING

- CHEMICAL ANCHOR FIXING OPTIONS AS BELOW :
1. RAMSET EPOXY SET CHEMICAL INJECTION SYSTEM
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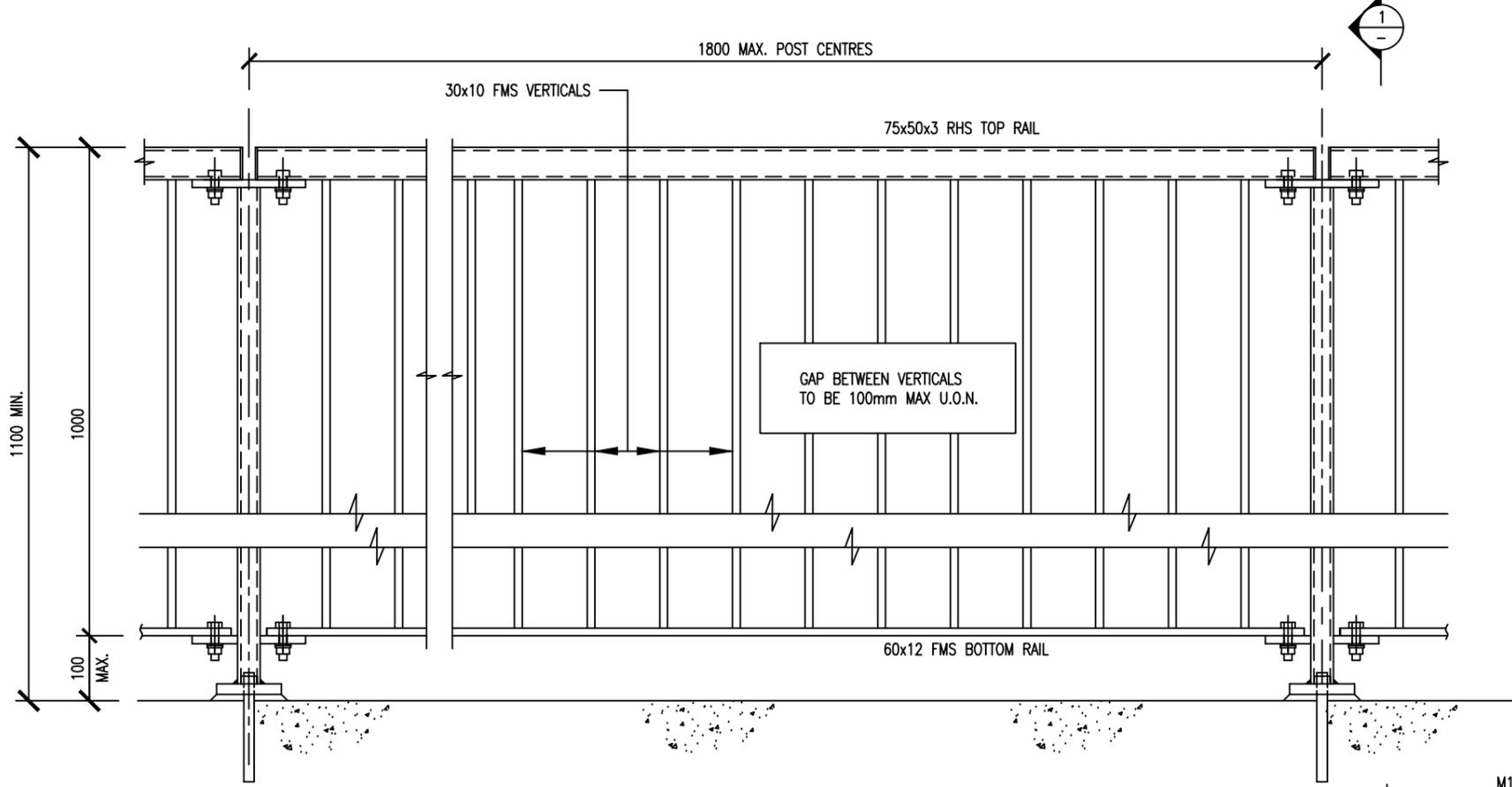
NOTES

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9. ALL FIXINGS TO BE HOT DIPPED GALVANISED. VENT HOLES TO BE PROVIDED WHERE REQUIRED.

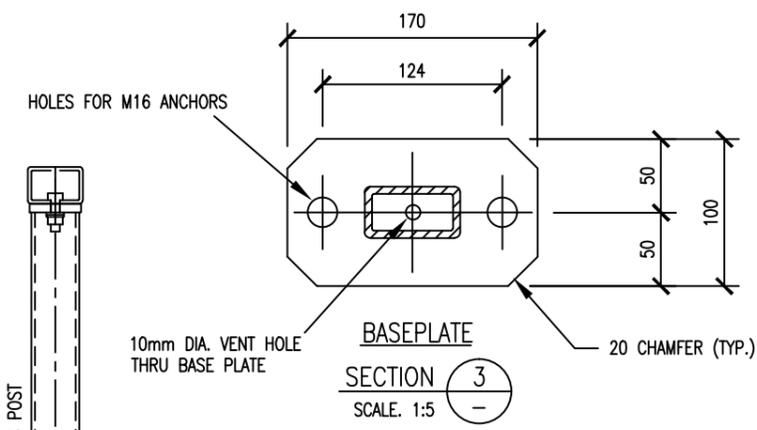
DESIGNED		R.G.	10-11	S CUNIS			CAD FILE 2001979.049B	DATE 29-03-12
DES. CHECKED		D.B.	10-11	OPERATIONS			ORIGINAL SCALE A3 AS SHOWN	CONTRACT No. -
DRAWN		I.M.	10-11	T MUNRO			REF No.	ISSUE
DWG. CHECKED		L.C.	10-11	INFRASTRUCTURE			DWG No. 2001979.049	B
B	10-11	PLAN REDRAWN TO CODE REQUIREMENTS	I.M.	D.B.	PROJECT LEADER	S.H.	10-11	
A	08-03	KICK PLATE ADDED	MSP	SJWB	INFRASTR'R APP'D	S.H.	10-11	
ISSUE	DATE	AMENDMENT	BY	APPD.				

WATERCARE SERVICES STANDARD
HANDRAIL FOR NON PUBLIC AREAS
ELEVATION AND FIXING DETAILS FOR TOP SURFACE MOUNTING

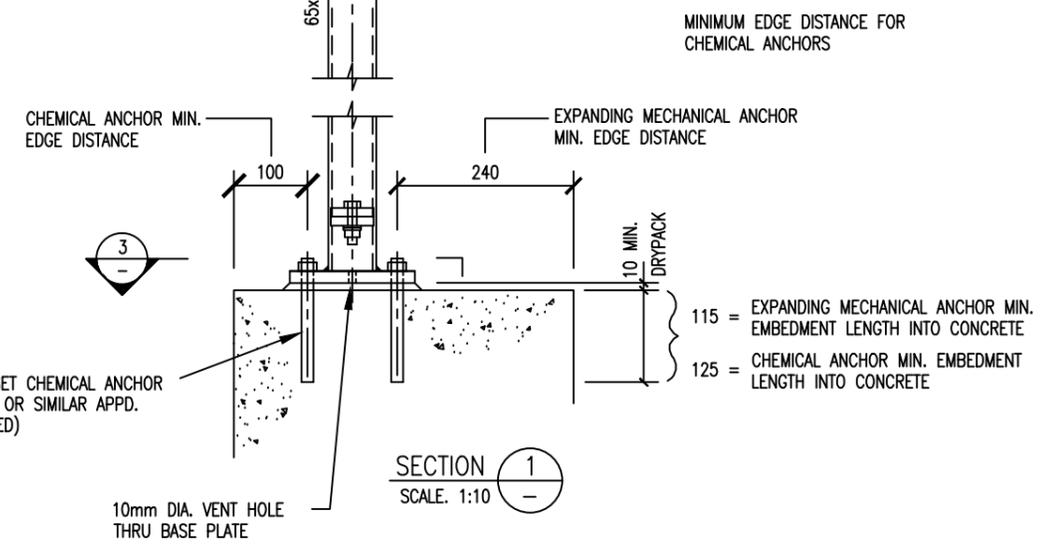
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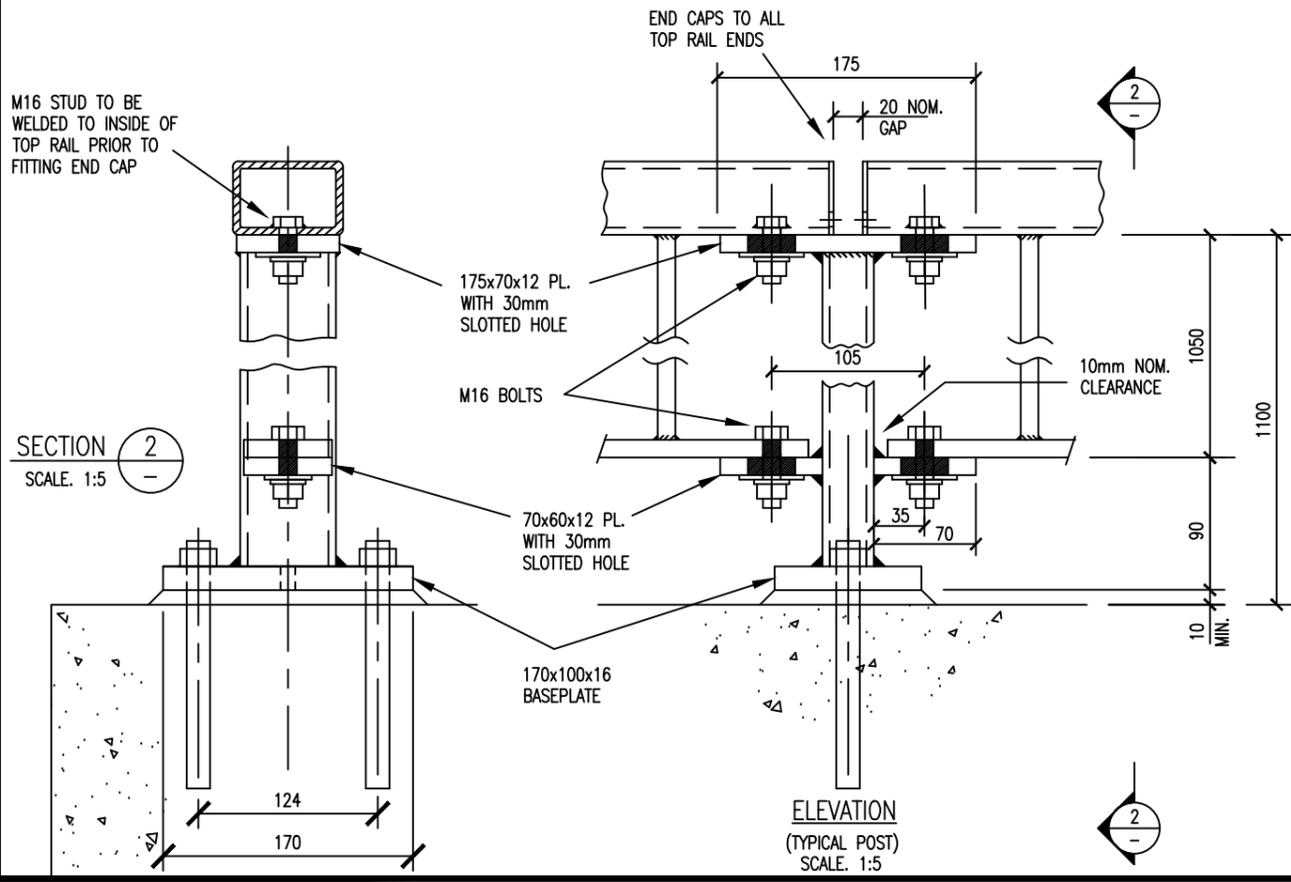
TYPICAL ELEVATION
SCALE: 1:10



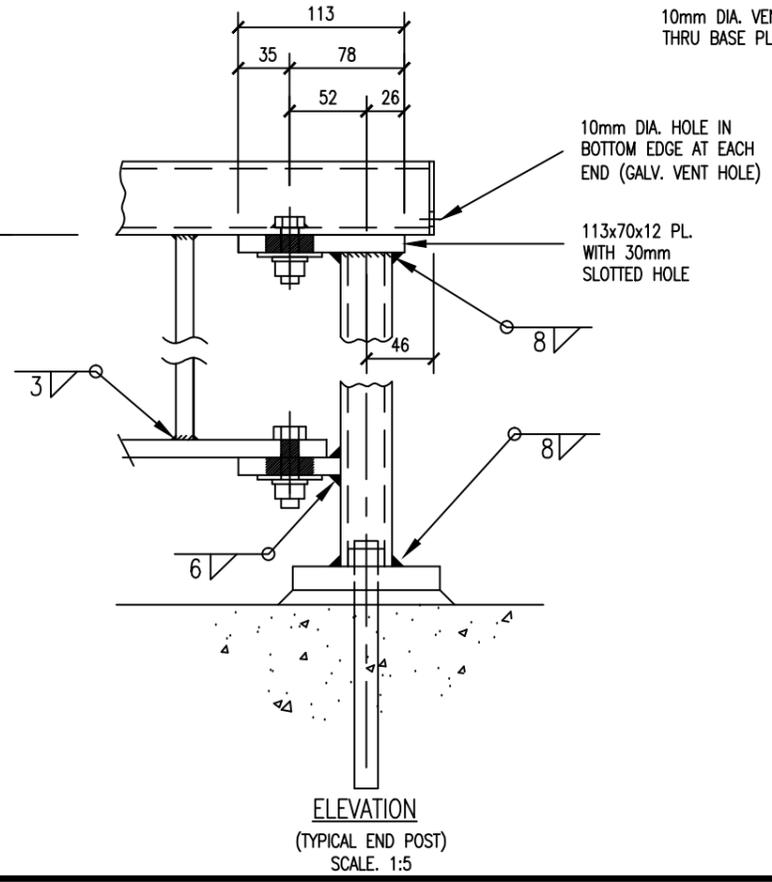
SECTION 3
SCALE: 1:5



SECTION 1
SCALE: 1:10



SECTION 2
SCALE: 1:5



ELEVATION
(TYPICAL END POST)
SCALE: 1:5

BASEPLATE FIXING

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ISSUE	DATE	AMENDMENT	BY	APPD.
A	10-11	PLAN REDRAWN TO CODE REQUIREMENTS	I.M.	D.B.

DESIGNED	R.G.	10-11
DES. CHECKED	D.B.	10-11
DRAWN	I.M.	10-11
DWG. CHECKED	L.C.	10-11
PROJECT LEADER	S.H.	10-11
INFRASTR'R APP'D	S.H.	10-11

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WATERCARE SERVICES STANDARD
HANDRAIL PUBLIC AREAS WITH CHILDREN UNDER 6
ELEVATION AND FIXING DETAILS FOR TOP SURFACE MOUNTING

CAD FILE	2001979.050A	DATE	29-03-12
ORIGINAL SCALE	A3 AS SHOWN	CONTRACT No.	-
REF No.		ISSUE	
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