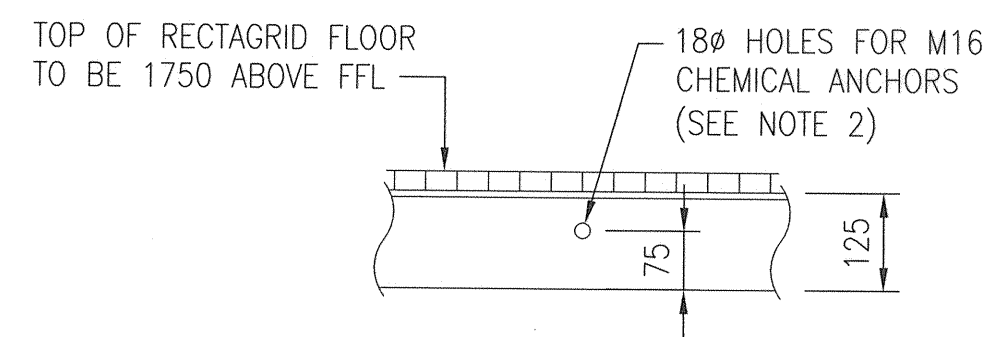
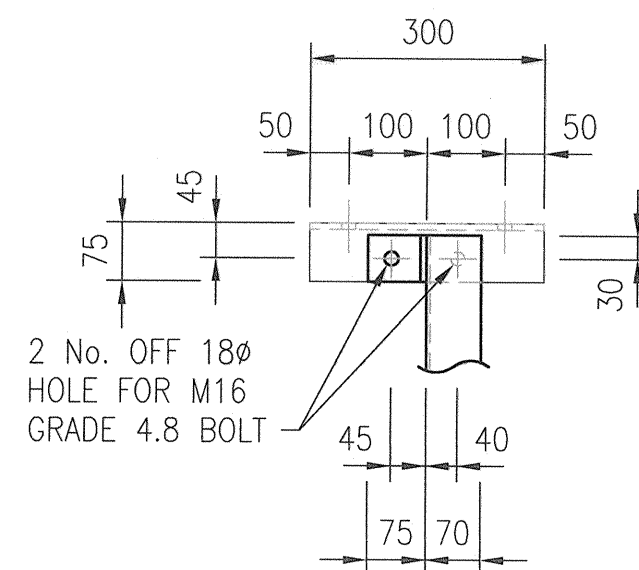
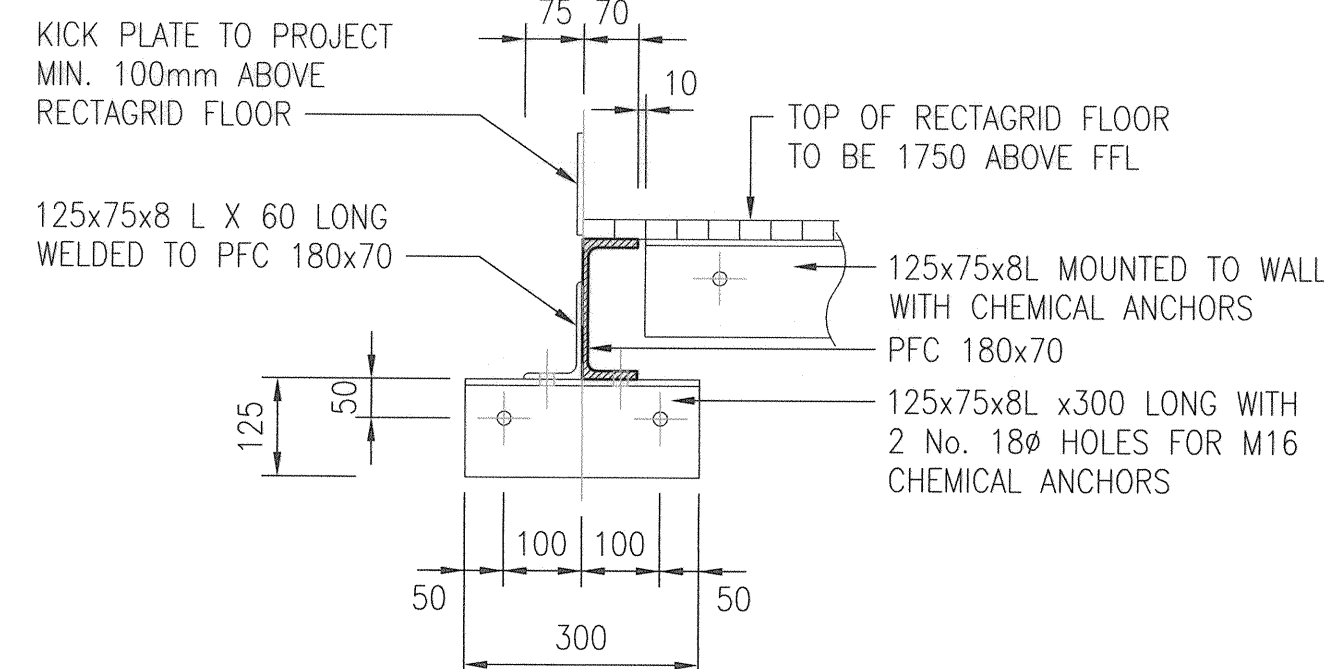




DETAIL 1
SCALE 1:10

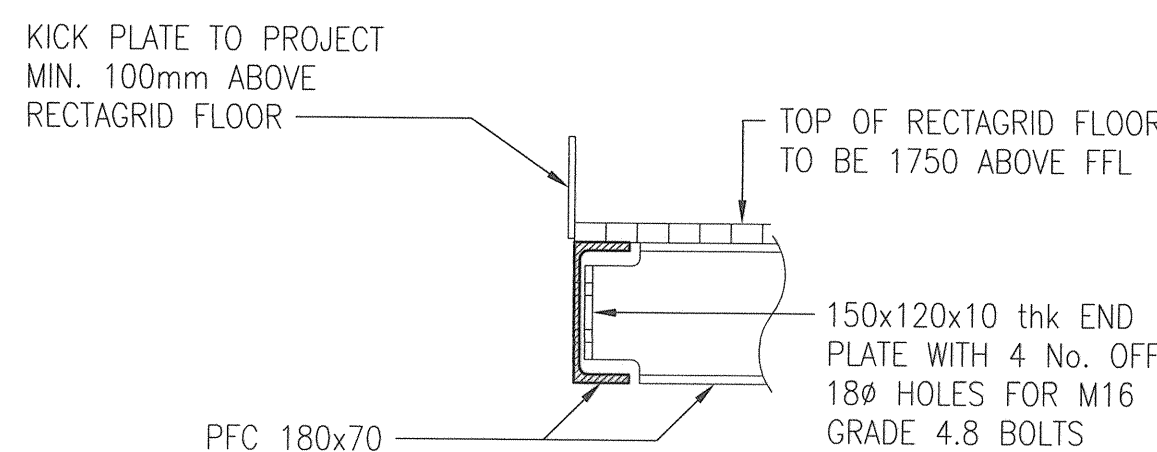


PLAN

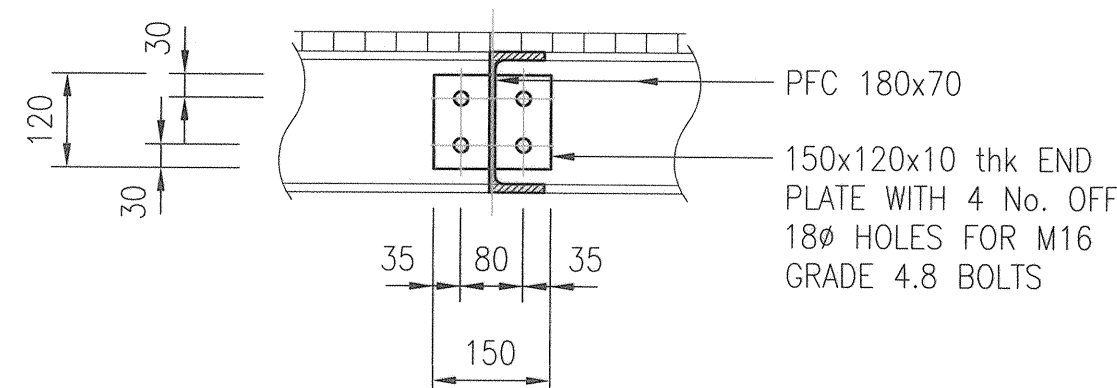


ELEVATION

DETAIL 2
SCALE 1:10
4 No. OFF REQUIRED

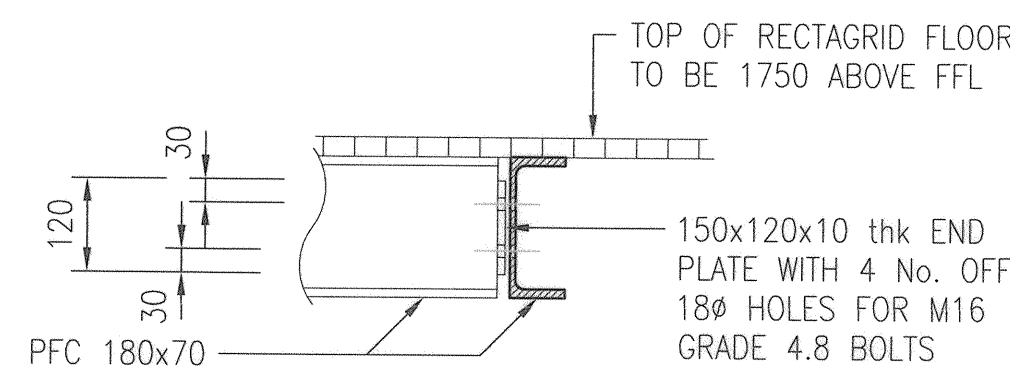


PLAN

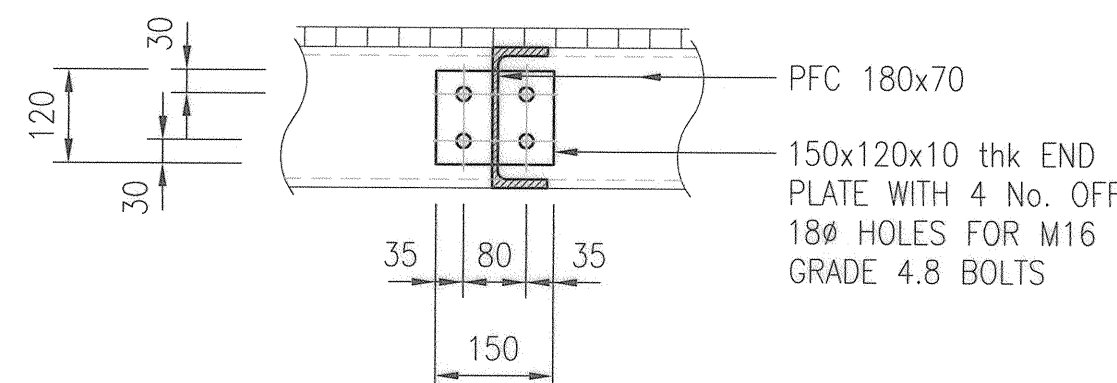


ELEVATION

DETAIL 3
SCALE 1:10
3 No. OFF REQUIRED

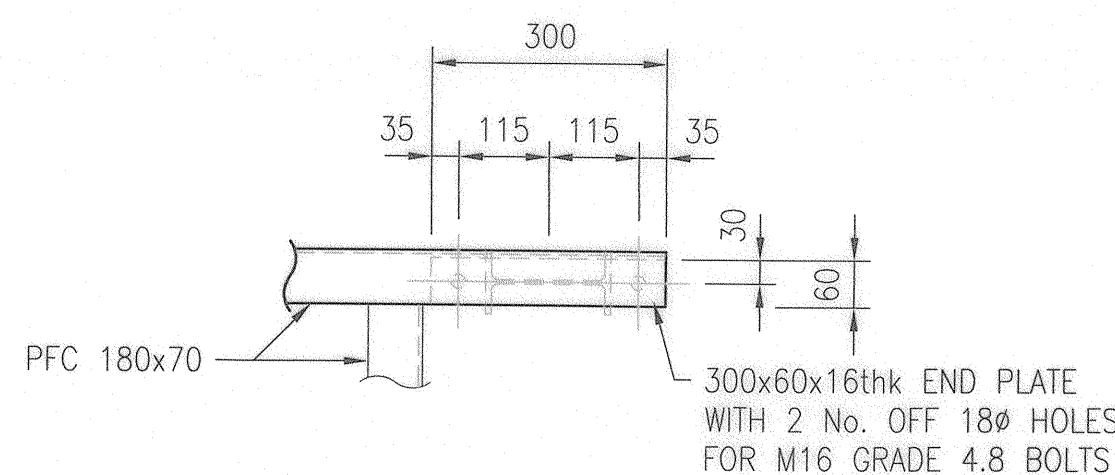


PLAN

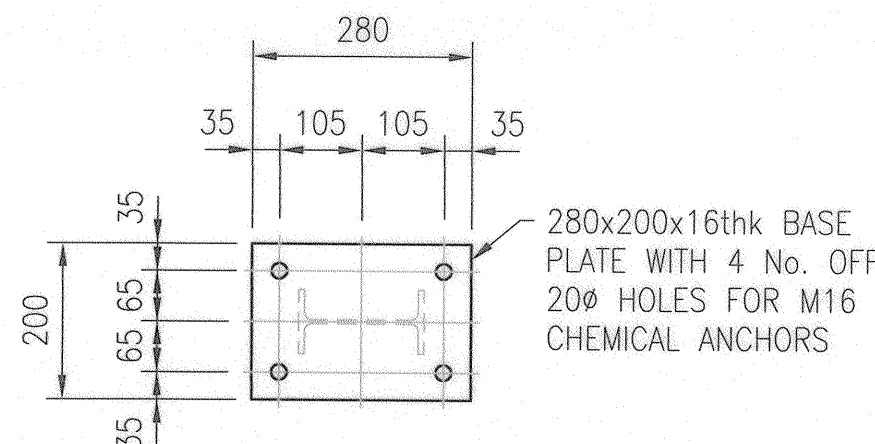


ELEVATION

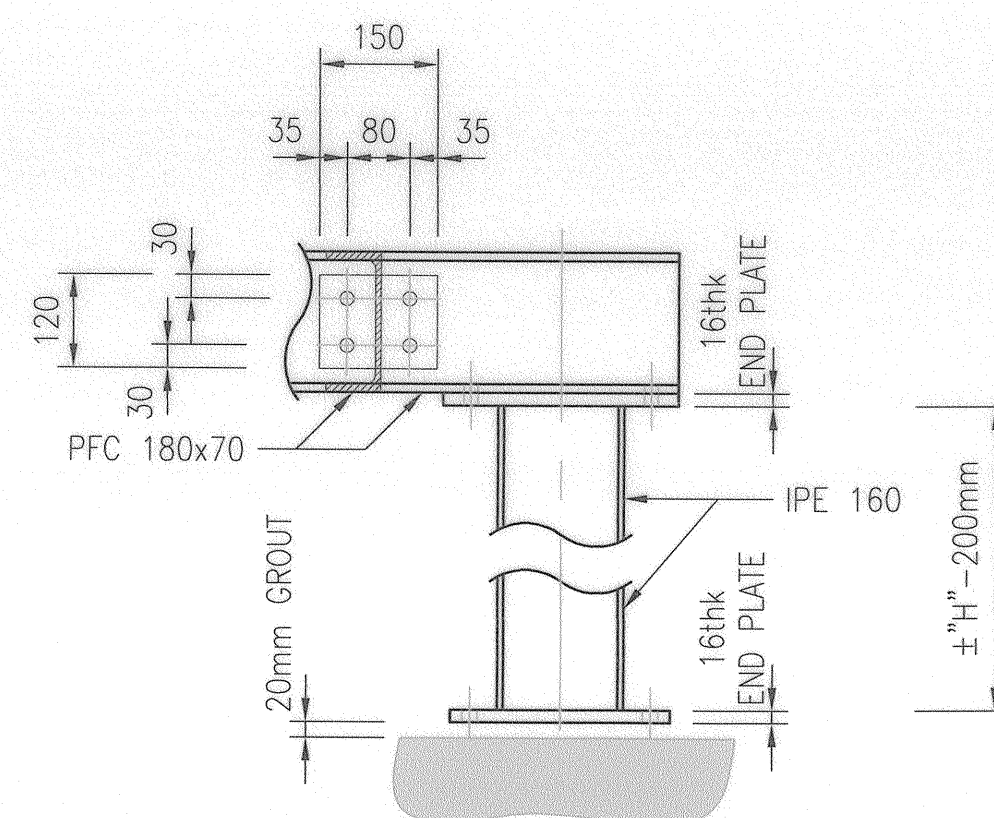
DETAIL 4
SCALE 1:10
1 No. OFF REQUIRED



DETAIL 5 PLAN
SCALE 1:10
1 No. OFF REQUIRED



DETAIL 6 PLAN
SCALE 1:10
1 No. OFF REQUIRED



DETAIL 5 AND 6 ELEVATION
SCALE 1:10
1 No. OFF REQUIRED

12. WHERE TEMPORARY BRACING OR PROPPING IS NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, ERECTION, MAINTENANCE AND REMOVAL OF SUCH SUPPORTS.
13. ALL SHOP DETAIL DRAWINGS OF STRUCTURAL STEELWORK TO BE SUBMITTED TO DESIGN ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
14. HANDRAILS AND STANCHIONS SHALL BE "ANDREW MENTIS" BALL TYPE GALVANISED OR APPROVED EQUIVALENT ALL HANDRAIL STANCHIONS TO BE SIDE MOUNTED "GOOSENECK" TYPE STANCHIONS ARE NOT PERMITTED
15. WELDING SHALL BE PERFORMED BY CODED WELDERS. SUPPORTING DOCUMENTATION TO BE SUBMITTED TO THE ENGINEER.
16. FLOORING SHALL BE RECTAGRID TYPE RS40 WITH 25 x 4.5 BEARER BARS Banded ON ALL SIDES AND CUT OUTS AND FIXED TO STEEL FRAMEWORK WITH STANDARD GALVANISED CLIPS 130 x 8 thk. KICKPLATES ON ALL OPEN EDGES

PLATFORMS STANDARD DETAILS NOTES:

1. PLATFORM "A".
 - 1.1. APPLIES WHERE THE FOLLOWING CRITERIA ARE MET:
 - 1.1.1. ACCESS CATLADDER GOES THROUGH THE PLATFORM.
 - 1.1.2. SUBJECT TO THE CONDITIONS SPECIFIED BELOW.
 - 1.2. "F" IS THE DISTANCE FROM THE OUTERMOST EDGE OF VALVE CASING/FLANGE TO THE WALL, LIMITED TO 700mm, WHERE "F" EXCEEDS 700mm REFER TO STANDARD DETAIL "C".
 - 1.3. "C" = "E" - "D".
 - 1.4. WHERE "E" IS THE DISTANCE FROM THE INSIDE OF WALL "A" TO THE OUTERMOST POINT OF THE VALVE CASING/FLANGE.
 - 1.5. IF "C" > 1750mm REFER TO DETAIL "Z" FOR INTERMEDIATE GRID SUPPORTS - THE CONTRACTOR'S ATTENTION IS DRAWN TO THE SPAN DIRECTION OF THE RECTAGRID IN THE VARIOUS DETAILS.
 - 1.6. "D" IS THE DISTANCE FROM THE OUTERMOST EDGE OF THE VALVE CASING OR FLANGE, WHICHEVER IS OUTERMOST, TO THE RECTAGRID PLATFORM. 150mm ≤ "D" ≤ 200mm.
 - 1.7. "H" IS THE LEVEL GIVEN BY THE DIFFERENCE BETWEEN THE HEIGHT FROM THE T.O.C OF THE CHAMBER FLOOR TO THE CENTER OF THE VALVE SPINDLE GEAR BOX (J) AND 1200mm I.E. "H" = "J" - 1200mm.
2. PLATFORM "B".
 - 2.1. APPLIES WHERE THE FOLLOWING CRITERIA ARE MET:
 - 2.1.1. ACCESS CATLADDER DOES NOT GO THROUGH THE WORKING PLATFORM.
 - 2.1.2. SUBJECT TO THE CONDITIONS SPECIFIED IN SECTION 1 ABOVE (WHERE APPLICABLE).
 3. PLATFORM "C".
 - 3.1. WHERE "M" EXCEEDS 1750mm REFER TO DETAILS "Z"
 - 3.2. SUBJECT TO THE CONDITIONS SPECIFIED IN SECTIONS 1 AND 2 ABOVE (WHERE APPLICABLE)
 4. STANDARD DETAIL "Z".
 - 4.1. "K" IS LIMITED TO 1750mm.
 - 4.2. WHERE "K" EXCEEDS 1750mm, ADDITIONAL INTERMEDIATE SUPPORTS ARE TO BE ADDED.
 5. THE CONTRACTOR IS REQUIRED TO EXERCISE THEIR PROFESSIONAL JUDGEMENT WHEN USING THESE STANDARD DETAILS AS THEY ARE NOT EXHAUSTIVE.
 6. ALL DRAWINGS ARE TO BE SUBMITTED TO RAND WATER FOR REVIEW AND APPROVAL BEFORE FABRICATION OF COMPONENTS/CONSTRUCTION.
 7. DESIGN OF RECTAGRID TO COMPLY WITH RELEVANT SANS STANDARDS.

DRG No. RA_26695/003

GENERAL PLATFORM NOTE:

CONTRACTOR TO GO ACCESS ALL PLATFORM TYPES BEFORE PROPOSING A SOLUTION.

STRUCTURAL STEEL NOTES:

1. ALL STEEL SECTIONS TO BE GRADE S355JR STEEL AND SHALL COMPLY WITH SANS 1431.
2. FIXINGS TO THE CONCRETE SHALL BE STAINLESS STEEL "UPAT EXPRESS ANCHOR BOLTS EXA 16/110" OR AN APPROVED EQUIVALENT. ALL OTHER NUTS AND BOLTS SHALL BE HOT DIPPED GALVANISED
3. ALL STRUCTURAL STEEL WORK SHALL BE INSPECTED, FABRICATED AND ERECTED IN ACCORDANCE WITH SANS 1200 H.
4. ALL WELDS SHALL CONFORM TO SANS 10162: PART 1 AND SANS 2001-CSI.
5. ELECTRODES FOR ALL WELDS SHALL BE APPROVED BY THE CIVIL DESIGN ENGINEER.
6. ALL WELDS TO BE METAL ARC WELDING EXECUTED BY QUALIFIED WELDERS. SUPPORTING DOCUMENTATION TO BE SUBMITTED TO THE CIVIL DESIGN ENGINEER.
7. CAT LADDERS AND GRAB RAIL TO BE SUPPLIED AND INSTALLED BY CONTRACTOR (REFER TO DRG. No. A7406 AND A9858)
8. ALL LARGE DIAMETER STEEL PIPES TO BE SUPPLIED AND POSITIONED BY RAND WATER AND CAST IN BY CONTRACTOR
9. VALVE SUPPORTS TO BE INSTALLED UNDER ALL VALVES
10. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE PRIOR TO FABRICATION OF STEEL.
11. ALL STEELWORK TO BE HOT DIPPED GALVANISED TO SABS 763 - 1977 (HEAVY DUTY) BY A SABS ACCREDITED GALVANISER

REVISIONS

No	DATE	CHECKED	APPROVED	DESCRIPTION

REFERENCE DRAWINGS

NUMBER	TITLE
RA_26695/001	DETAILS OF GATE VALVE ACCESS PLATFORM
RA_26695/002	DETAILS OF GATE VALVE ACCESS PLATFORM



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SAP No.		CHECKED BY	<i>[Signature]</i>
CONTRACT No.		D.O.M. C. TUMBARE	<i>[Signature]</i>
DESIGNED BY	<i>[Signature]</i>	APPROVED	<i>[Signature]</i> Pr Eng
DRAWN BY	MMAQINA	REG. No.	
DATE	2016-04-07	DATE	07/04/2016

RAND WATER STANDARDS

DETAILS OF GATE VALVE ACCESS STEEL PLATFORM

STATION	WKS	DOC. TYPE	S
R W		D C S	A

SCALE 1:25

DRG No. RA_26695/003

REVISION
0

RA26695/003