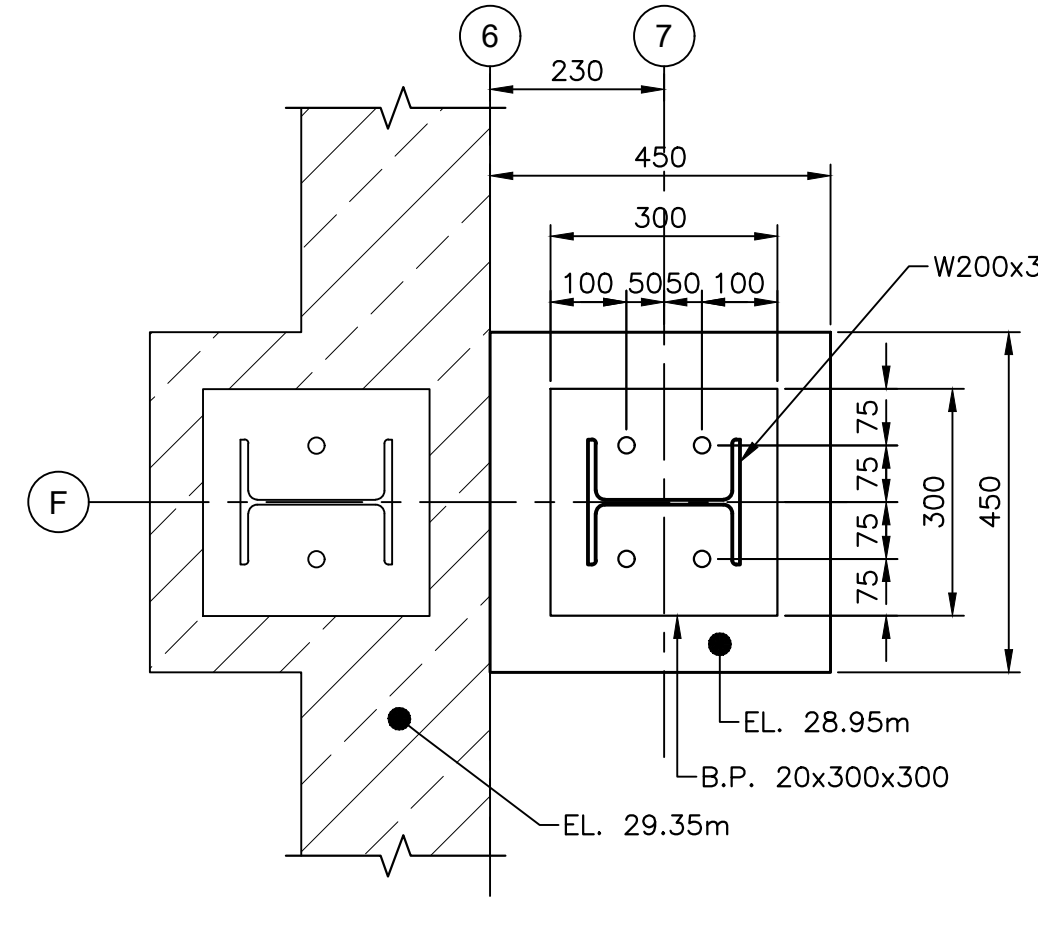


PIER TYPE P4/B.P.1

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

4
S5

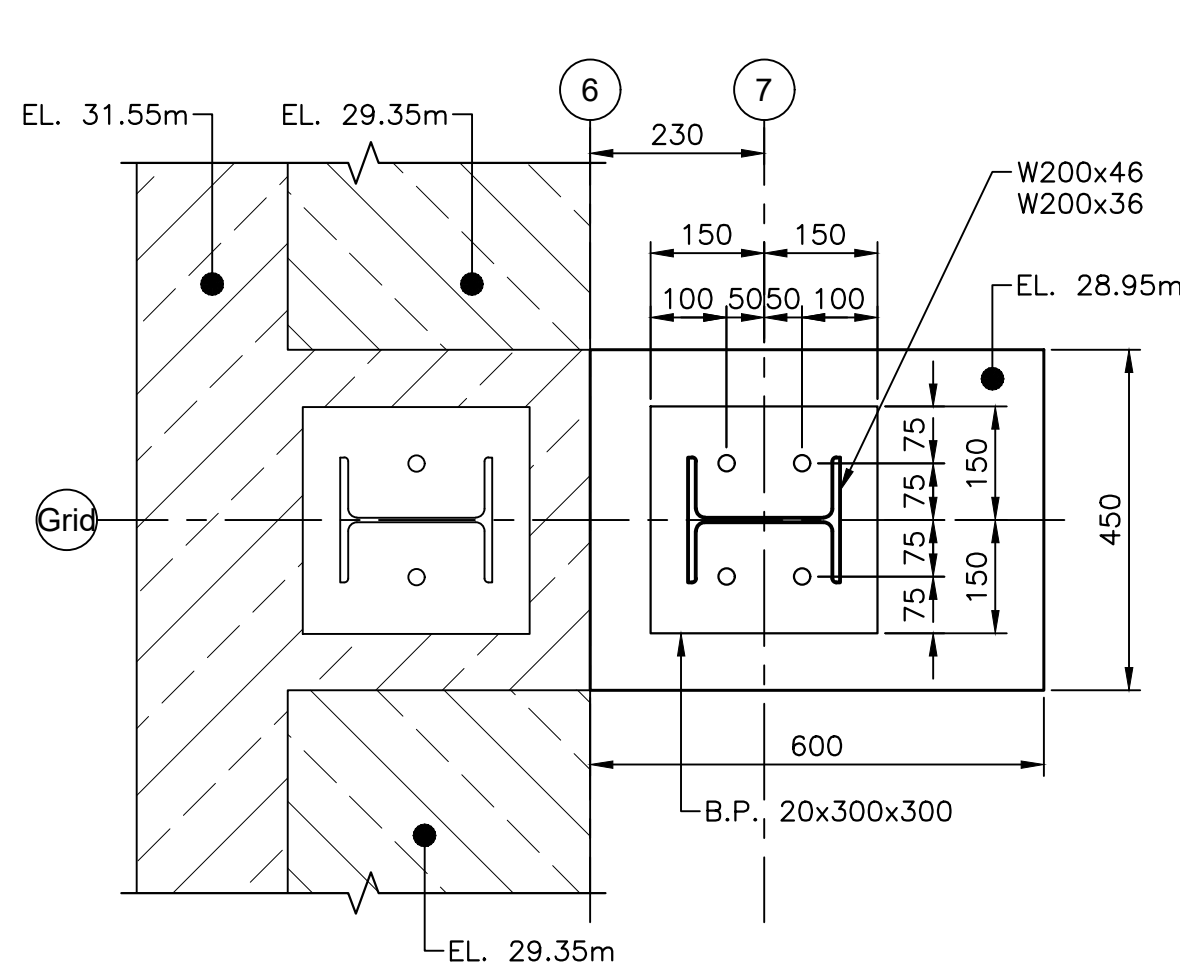


PIER TYPE P3/B.P.2

SCALE : 1:10

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3
S5

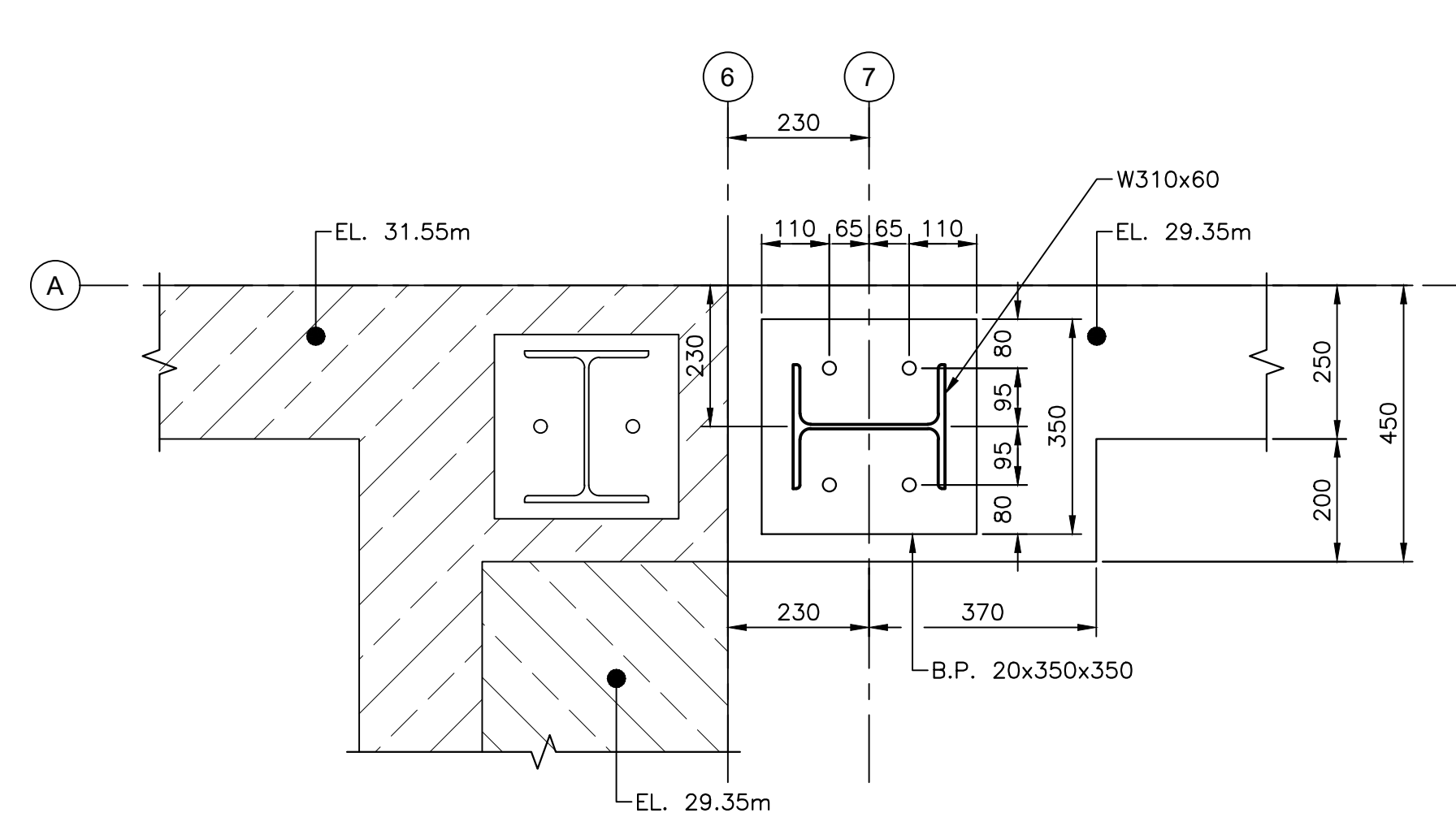


PIER TYPE P2/B.P.2

SCALE : 1:10

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2
S5



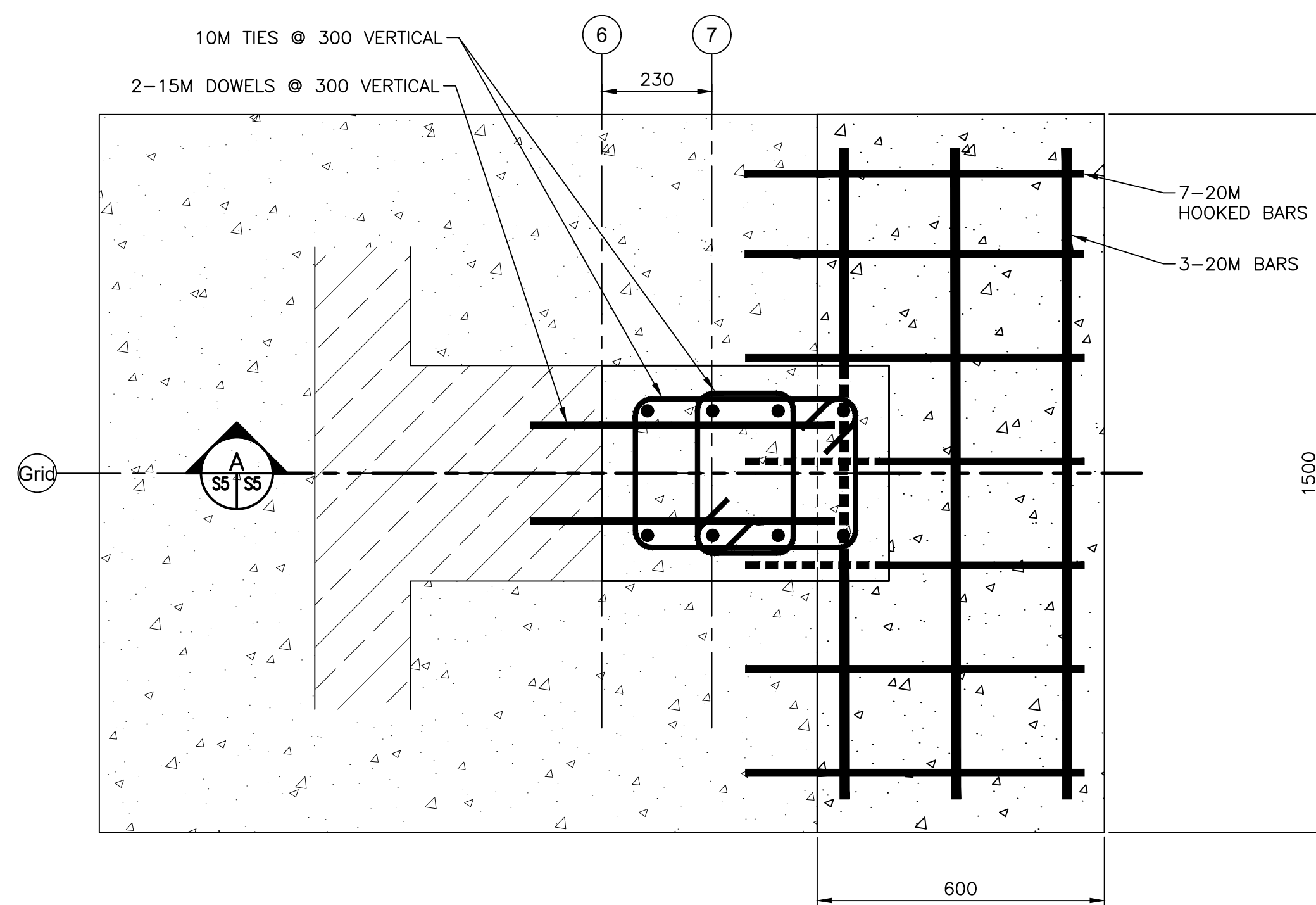
PIER TYPE P1/B.P.1

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

1
S5

1. ALL CONCRETE PRODUCTION, PLACEMENT AND TESTING INCLUDING WEATHER PROTECTION TO CONFORM TO CSA STANDARD CSA-A23.1/A23.2 (LATEST EDITION) AND PROJECT SPECIFICATIONS.
2. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. ALL CONCRETE ADDITIVES SHALL BE APPROVED BY THE ENGINEER. NO CONCRETE SHALL BE POURED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
3. GENERAL CONTRACTOR IS TO ENSURE THAT CONCRETE STRENGTH CYLINDERS ARE CAST AND TESTED BASED ON NOT LESS THAN ONE STRENGTH TEST, CONSISTING OF 3-150x300 STANDARD CYLINDERS, MADE FOR EACH 100cu.m. OF CONCRETE PLACED, AND IN NO CASE SHALL THERE BE FEWER THAN ONE TEST FOR EACH CLASS OF CONCRETE, ON ANY ONE DAY AS PER CAN/CSA A23.2. TEST RESULTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER.
4. CURING, PROTECTION AND FINISHING OF CONCRETE SHALL CONFORM TO CSA-A23.1-14.
5. UNLESS NOTED OTHERWISE, REINFORCING STEEL TO HAVE A MINIMUM CLEAR CONCRETE COVER AS FOLLOWS:
 - a) UNDERSIDE OF FOOTINGS - 50mm
 - b) WALLS - 30mm
 - c) UNDERSIDE OF SLAB - 40mm
6. REINFORCE THE SIDES OF OPENING IN CONCRETE WALLS AND SLABS. PROVIDE 1-15M BAR OR 2-10M BAR EACH FACE FOR EACH 100MM THICKNESS OF CONCRETE. THE BAR SHALL EXTEND THE FULL WIDTH OF OPENING PLUS 600MM EACH SIDE. PROVIDE AN ADDITIONAL 1200MM LONG 15M DIAGONAL BAR EACH FACE AT EACH CORNER FOR CONCRETE OVER 250MM THICK U/N OTHERWISE.
7. CONSTRUCTION JOINTS SHALL BE LOCATED TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE. CONSTRUCTION JOINTS SHALL BE KEVED AND 15M DOWEL X 900MM LONG AT 600MM C/C ADDED.
8. UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL SPLICES TO BE: TENSION LAP SPLICES, CLASS "B". NO MORE THAN 50% OF REINFORCING STEEL TO BE SPLICED AT ANY GIVEN LOCATION.
9. ALL CORNERS AND INTERSECTIONS TO HAVE CORNER BARS, SAME SIZE AND SPACING AS MAIN BARS. PROVIDE TENSION LAP WITH MAIN BARS.
10. REINFORCING STEEL TO BE INSPECTED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO CONCRETE POUR.
11. SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. DRAWINGS TO BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEWFOUNDLAND AND LABRADOR.
12. GENERAL CONTRACTOR TO INSPECT THE GRANULAR BASE ELEVATION FOR VARIATIONS IN EXCESS OF +/- 10 MM [3/8].
13. PROTECT ADJACENT SURFACES FROM DAMAGE OR STAINING AS REQUIRED.
14. INSTALL ISOLATION JOINT FOR FULL SLAB THICKNESS BETWEEN FREE SLAB EDGES AND PERIMETER WALLS WHEREVER THE CONCRETE FLOOR IS NOT TIED TO THE FOUNDATION WALL WITH REBAR.
15. BULKHEADS SHALL BE CONSTRUCTED FOR THE FULL SLAB THICKNESS, STRAIGHT AND LEVEL WITH THE FINISHED FLOOR ELEVATION AND SHALL BE LOCATED IN ACCORDANCE WITH THE APPROVED JOINT LAYOUT. DOWELS SHALL BE INSTALLED IN THE CENTRE OF THE FLOOR ALIGNED TO PERMIT HORIZONTAL MOVEMENT. DO NOT USE DEFORMED REBAR FOR DOWELS.
16. LIQUID PENETRATING DENSIFIERS SHALL BE INSTALLED BY FLOOD COAT OR SPRAY METHOD IN ACCORDANCE WITH THE MANUFACTURERS APPLICATION INSTRUCTIONS. A PERIOD OF AIR DRYING IS DESIRABLE PRIOR TO APPLICATION. ACCEPTABLE PRODUCT SIKAFLOOR 3S BY SIKA.
17. THE GENERAL CONTRACTOR SHALL REVIEW THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY STANTEC (FILE # 121620920) INCLUDED IN THE PROJECT SPECIFICATIONS PRIOR TO COMMENCING SITE WORKS AND CONSTRUCTION.
18. THE MINIMUM DEPTH OF SOIL COVER FOR ALL EXTERIOR FOUNDATIONS SHALL BE 1.8M MEASURED FROM THE UNDERSIDE OF THE FOOTING TO EXTERIOR FINISH GRADE. TO REDUCE THE POTENTIAL FOR AD-FREEZING, BACKFILL MATERIAL USED AROUND FOUNDATION WALLS SHOULD BE FREE OF ORGANICS AND DELETERIOUS MATERIAL, FREE DRAINING AND CLASSED AS NON-FROST SUSCEPTIBLE.
19. ALL FOOTINGS ARE TO REST ON UNDISTURBED GLACIAL TILL OR BEDROCK HAVING A MINIMUM SAFE BEARING CAPACITY OF 250 KPA, U/N OTHERWISE. BEARING LEVEL TO BE INSPECTED BY A GEOTECHNICAL CONSULTANT PRIOR TO POURING.
20. THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS SHALL NOT EXCEED A RISE OF 1 IN A RUN OF 2. MAX STEP APPROXIMATELY 600MM.
21. FOUNDATION WALL SHALL BE BACK FILLED EVENLY ON EACH SIDE OF WALL WITH BACK FILL HEIGHTS NOT VARYING MORE THAN 300MM FROM ONE SIDE TO THE OTHER, U/N OTHERWISE.



NOTE: TOP LAYER FOOTING REINFORCING OMITTED FOR CLARITY

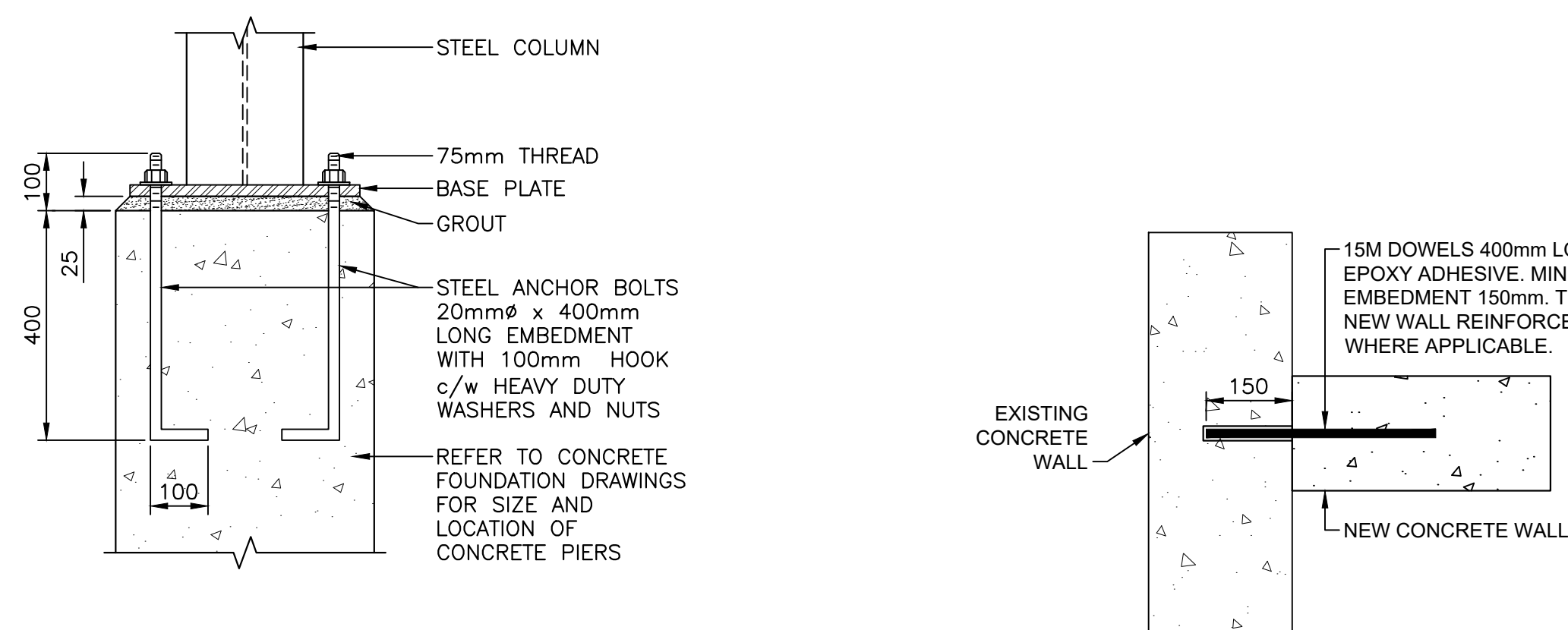
DETAIL: REINFORCED PIER FOOTING F1

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

7
S5

CONCRETE AND FOUNDATION NOTES



TYPICAL BASE PLATE DETAIL

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

11
S5

TYPICAL INTERSECTION DETAIL

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

10
S5

DETAIL: REINFORCED PIER FOOTING F2

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

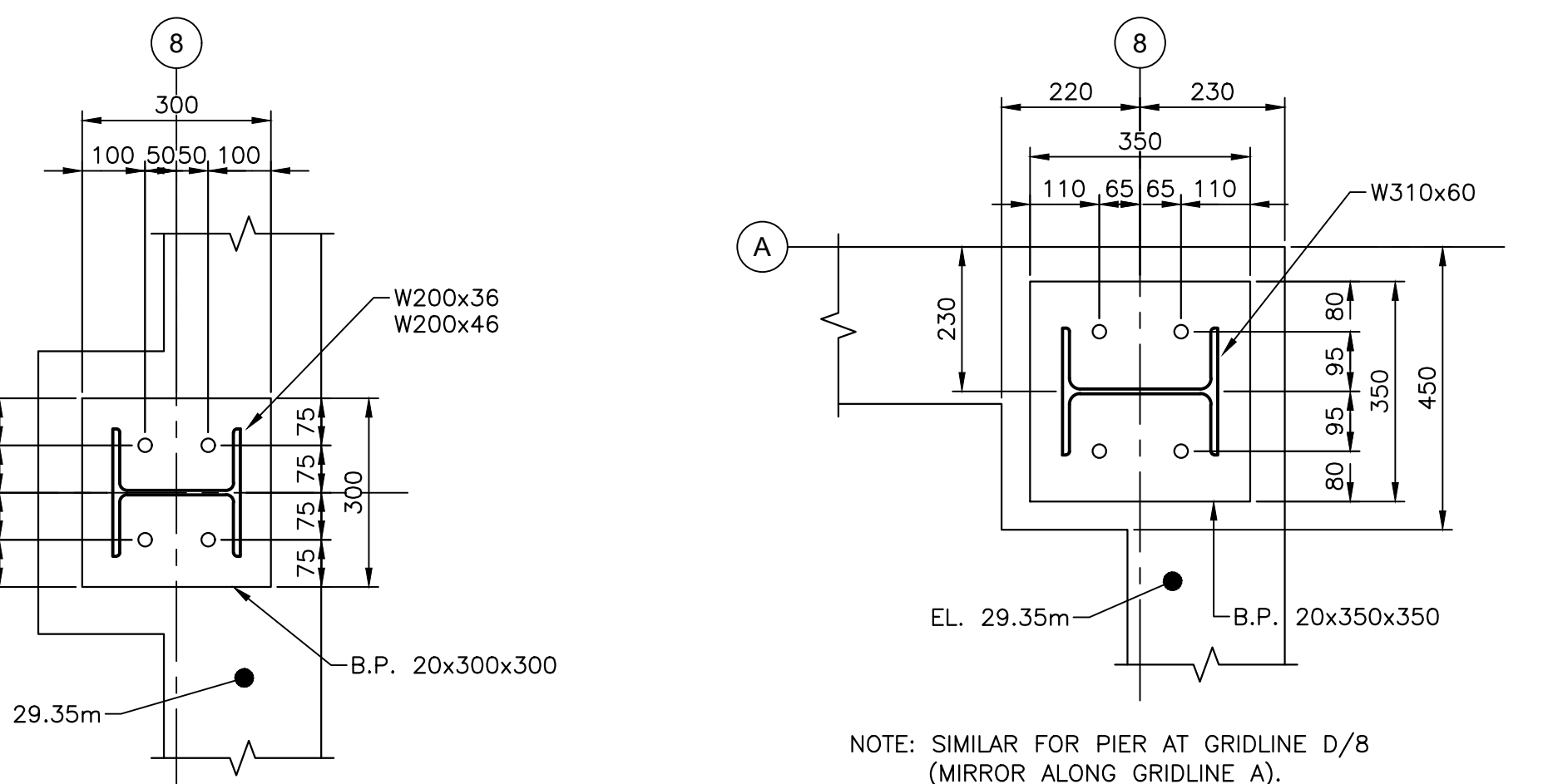
9
S5

SECTION

SCALE : 1:10

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A
S5

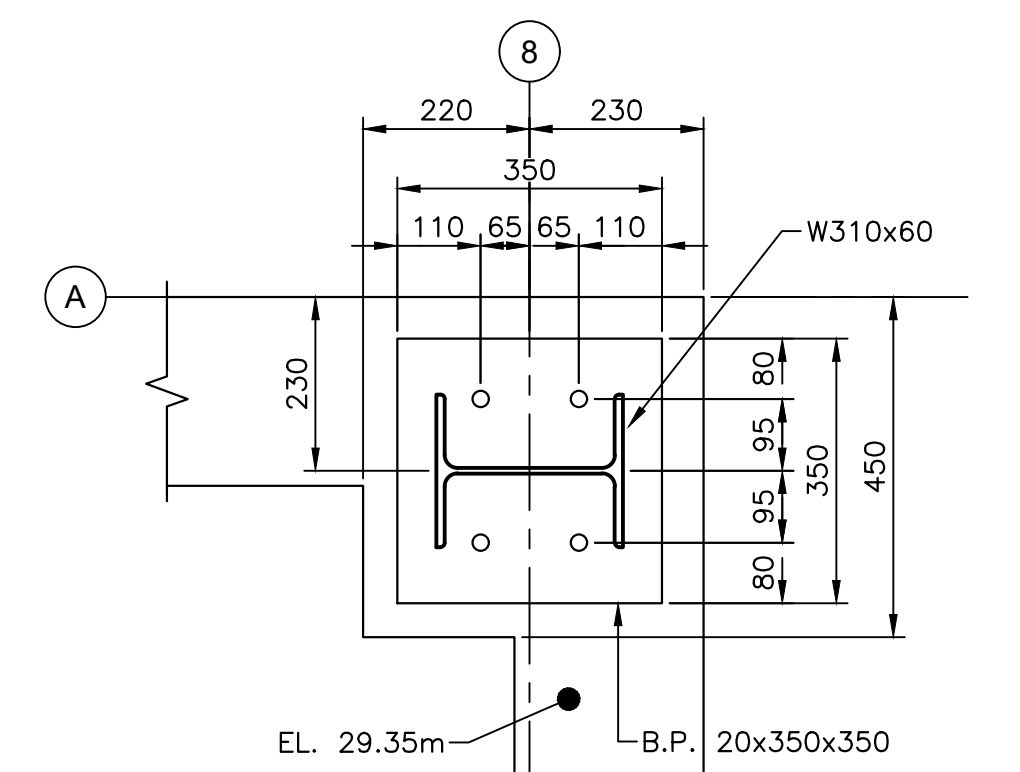


PIER TYPE P6/B.P.2

SCALE : 1:10

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6
S5



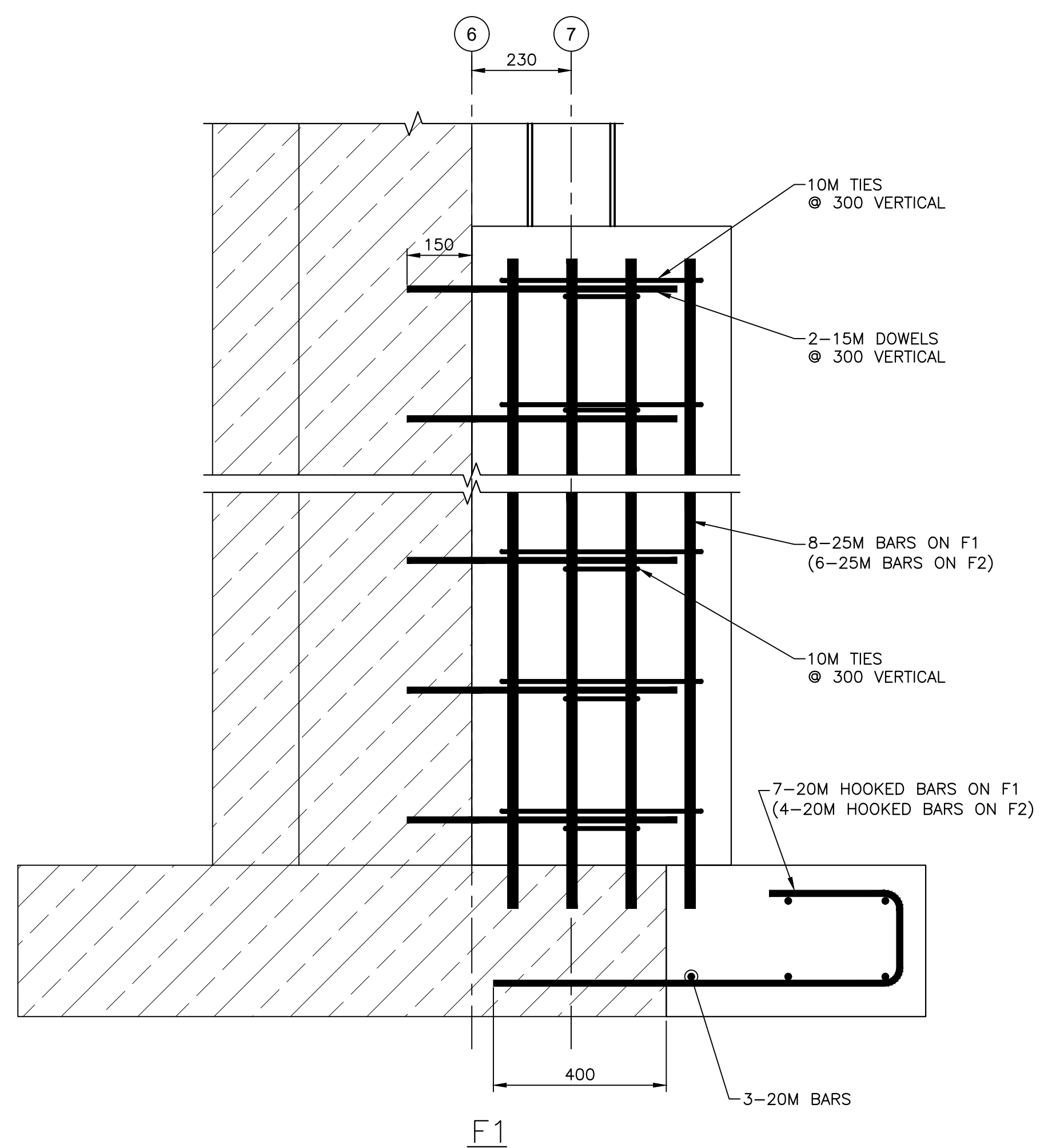
PIER TYPE P5/B.P.1

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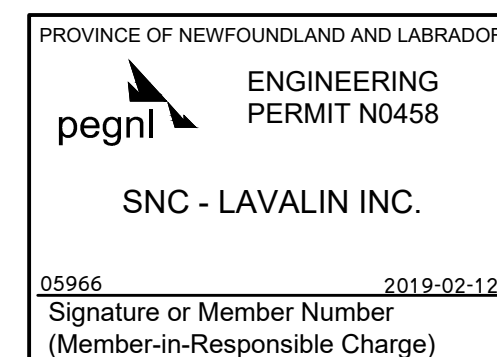
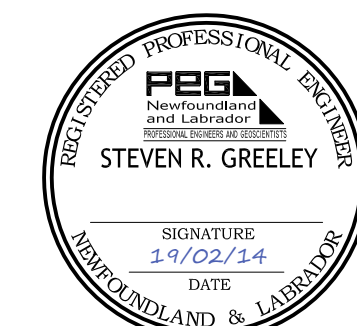
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5
S5

NOTE: SIMILAR FOR PIER AT GRIDLINE D/8 (MIRROR ALONG GRIDLINE A).



F1



C02	RE-ISSUED FOR TENDER	02/14 2019
C01	ISSUED FOR TENDER	09/28 2018
revisions		date

project

MAINTENANCE GARAGE
REHABILITATION
ST. ANTHONY AIRPORT

drawing

PIER AND BASE PLATE
DETAILS

designed S.G.

date 2017.05.29

drawn J.V.

date 2017.05.29

approved

date

Tender

PWSC Project Manager

Administrateur de projets TPSC

project number

R.077269.001

drawing no.

S5