



Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
 BROWNLEE BEATON KREKE (REGINA) LTD.  
 NUMBER 525  
 PERMISSION TO CONSULT HELD BY:  
 DISCIPLINE: STRUCTURAL 12/17 SASK. REG. No. SIGNATURE: SKK

**DO NOT SCALE DRAWINGS**

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2016-06-24

Project title/Titre du projet

**AIRPORT HANGAR RENOVATIONS PRINCE ALBERT, SK**

Approved by/Approve par

Designed by/Concept par DS

Drawn by/Desain par CS

Project Manager/Administrateur de Projets RD

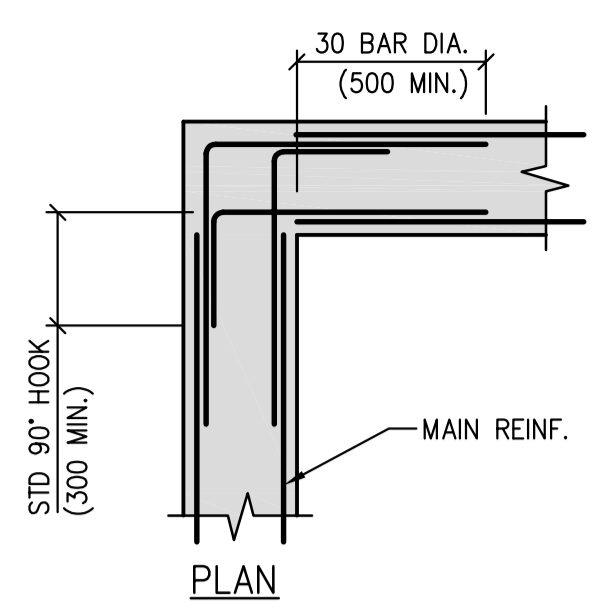
Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie

Client/client

Drawing title/Titre du dessin

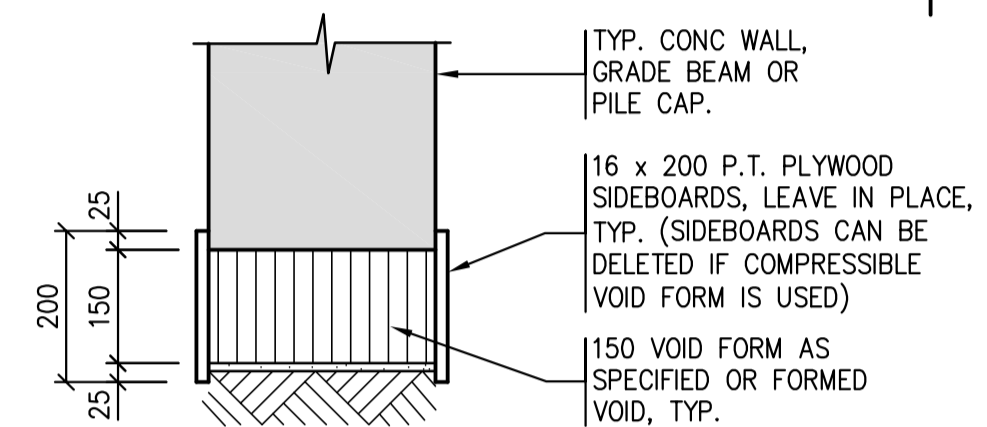
**TYPICAL DETAILS FOUNDATION PLAN PILE SCHEDULE COLUMN SCHEDULE**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
32/2015	S1 OF -	0



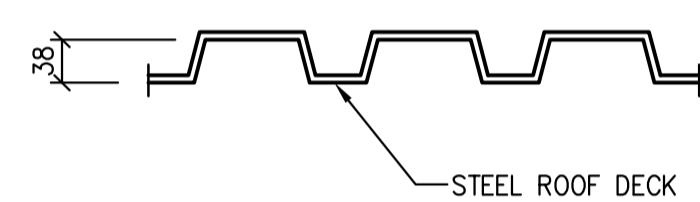
NOTE: 15M CORNER BAR REINFORCING. MATCH SPACING WITH HORIZONTAL REINFORCING OF GRADE BEAM.

**A TYP. GRADE BEAM INTERSECTION** N.T.S.

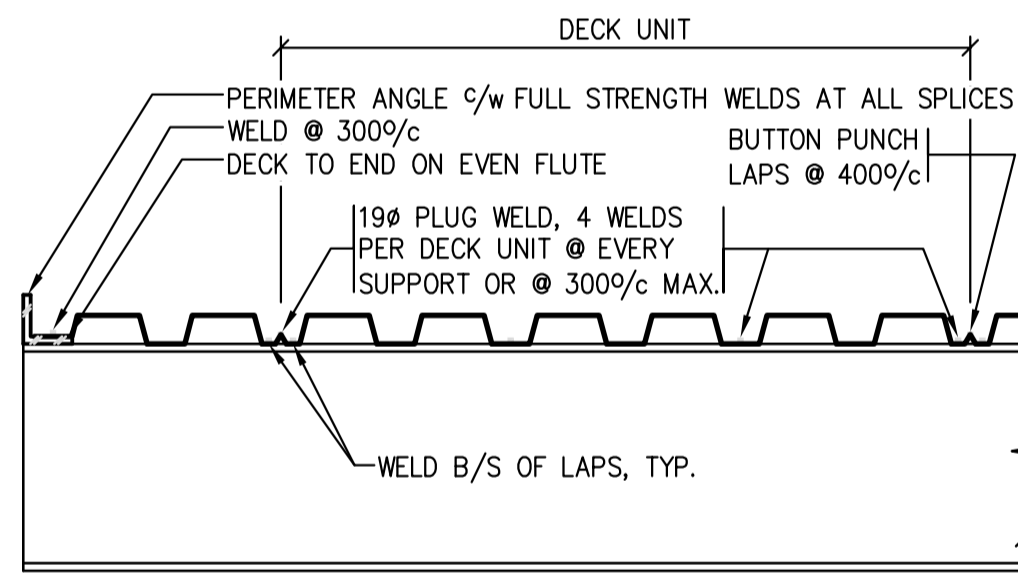


**B TYP. VOID FORM DETAIL** N.T.S.

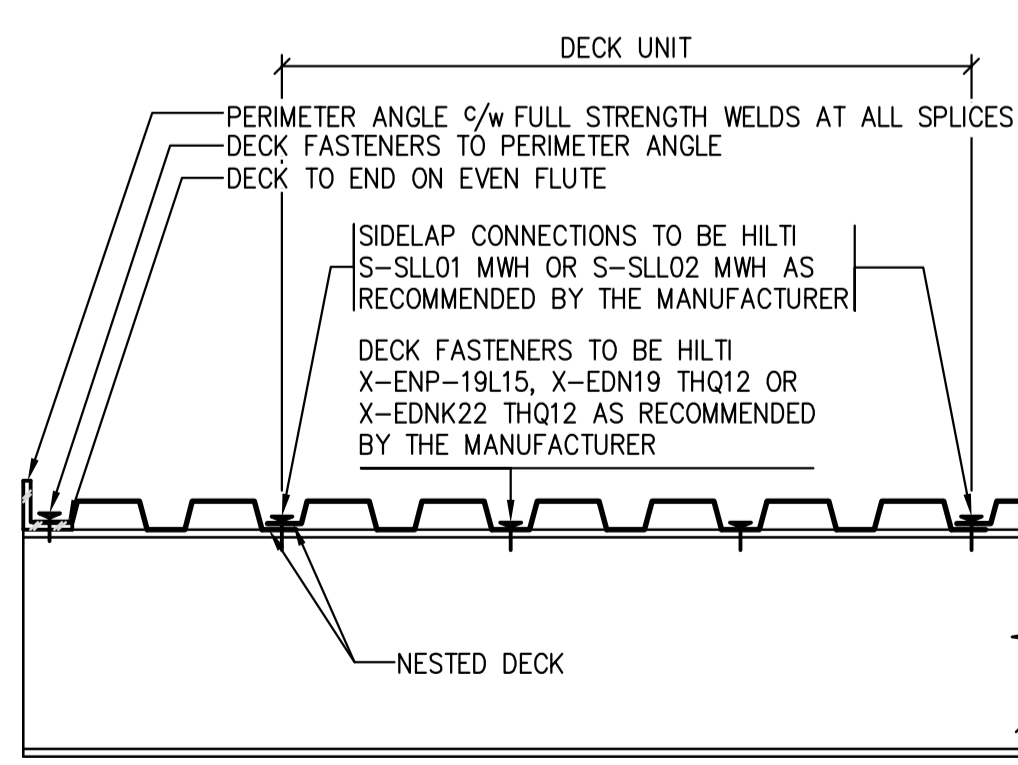
TYPICAL ROOF DECK  
 U/S DECK ELEVATION AS DETAILED  
 38mm x 0.76mm STEEL ROOF DECK  
 ZF075 STANDARD (ZINC WIPE COAT GALVANIZED) U.N.O.



**C METAL ROOF DECK DETAIL** N.T.S.

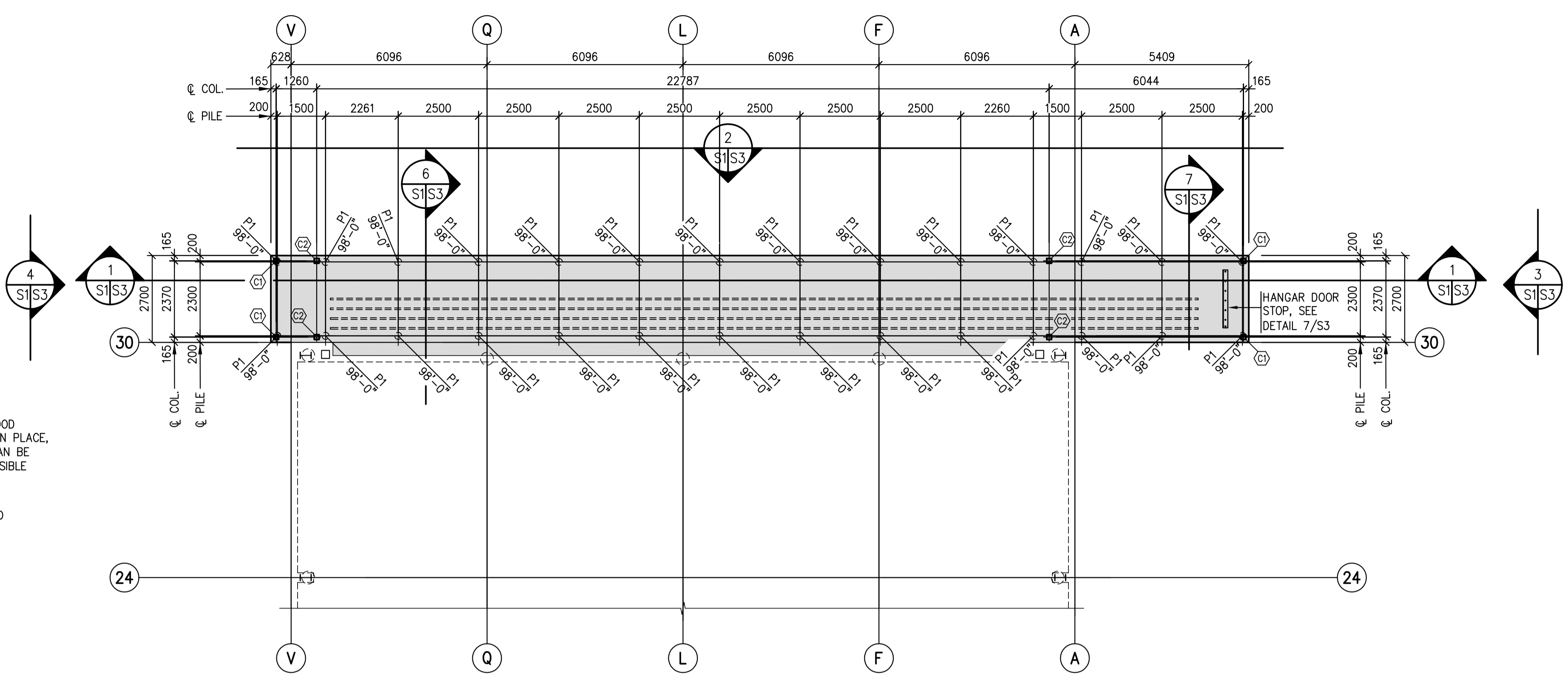


**WELDED ROOF DECK**



**MECHANICAL FASTENED ROOF DECK**

**D ROOF DECK FASTENING DETAILS** N.T.S.



**1 FOUNDATION PLAN** 1:100

- FLOOR CONSTRUCTION TO BE:  
 350 RAIL EMBEDMENT CONCRETE TOPPING w/ IN SLAB HEATING  
 250 REINFORCED CONCRETE SLAB  
 0.15 POLY VAPOUR BARRIER  
 150mm VOID FORM
- T/O MAIN FLOOR CONCRETE @ ELEVATION 100 000
- FLOOR DESIGN LOADS  
 LIVE LOAD = 4.8 KPa  
 DEAD LOAD = 14.4 KPa
- COLUMNS DENOTED ON PLAN THUS SEE TYPICAL COLUMN & BASE PLATE SCHEDULE.
- INSTALL 15x750g. DOWELS @ 600/c TO EXTERIOR FOUNDATIONS WHERE SIDEWALKS OR SLABS ABUT BUILDING (USE 20M DOWELS WHEN PLACED THRU RIGID INSULATION)

PILE MARK No.	PILE SHAFT DIA.	WALL THICKNESS	HELIX DIA.		EMBED. LENGTH	FACTORED CAPACITY	DOWEL CODE	REMARKS
			UPPER	LOWER				
P1	219mm	8.2mm	600mm	n/a	6000	80 kN	A	

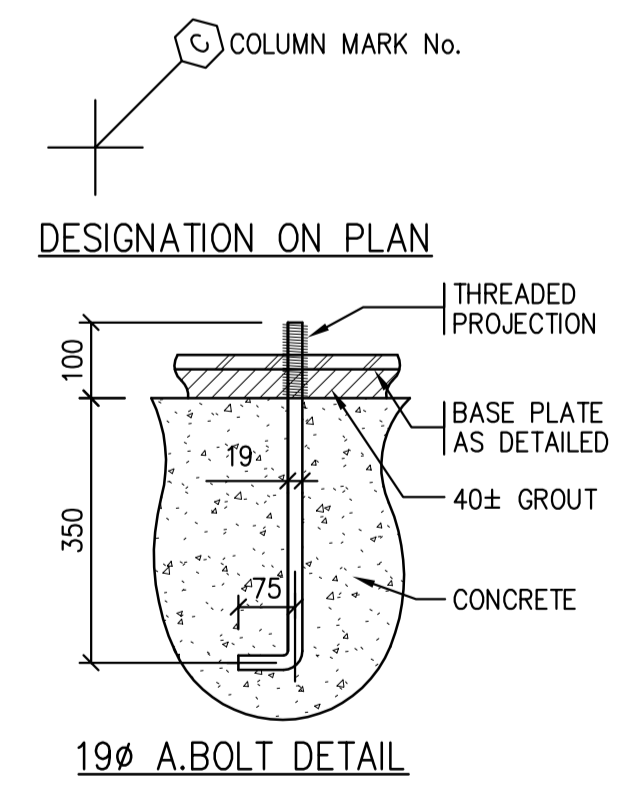
- NOTES:
- ALL PILES TO BE CUT-OFF AT ELEVATION NOTED IN SCHEDULE.
  - ALL PILES CENTERED UNDER GRADE BEAMS, PILE CAPS AND WALLS.
  - PILE CONTRACTOR TO KEEP RECORD OF INSTALLATION TORQUE. TORQUE SHOULD BE MONITORED DURING THE ENTIRE INSTALLATION.
  - ALL PILES TO BE FILLED WITH CONCRETE.

DOWEL NOTES:  
 A. 2-15Mx1100g DOWELS, EXTEND 550 ABOVE PILE CUTOFF ELEVATION

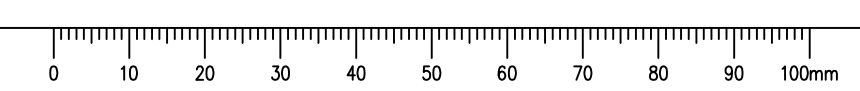
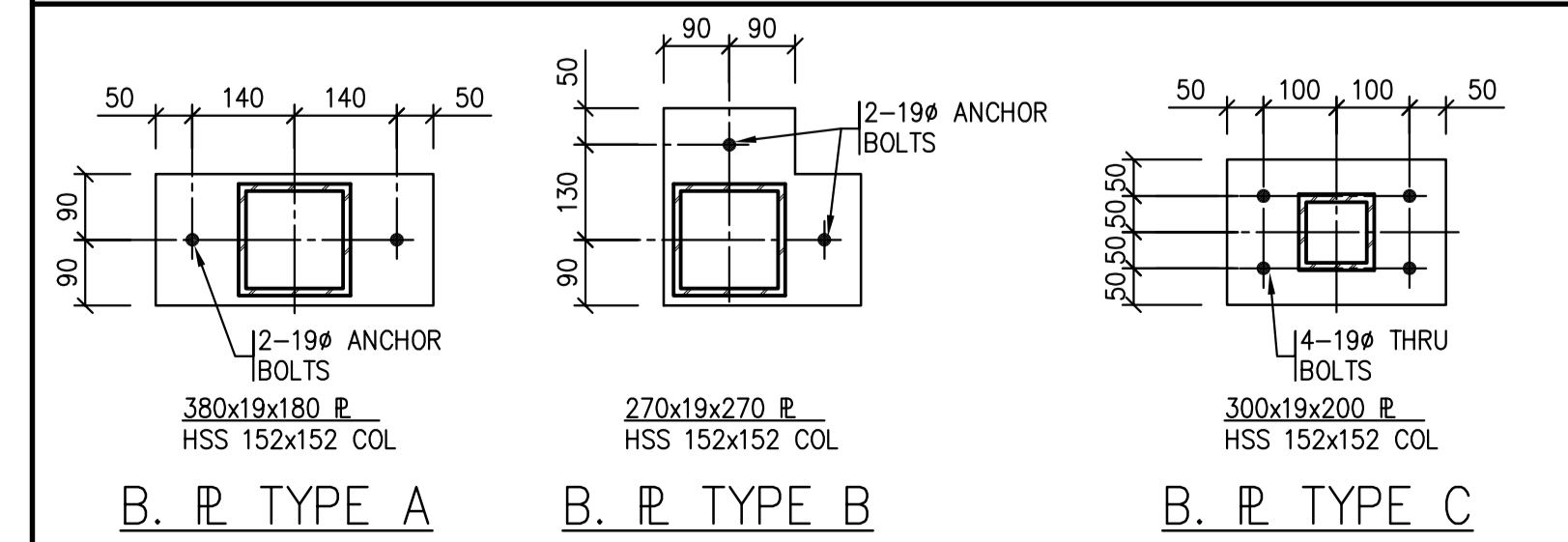
**2 TYPICAL STEEL PIPE HELIX SCREW PILE DETAIL** N.T.S.

**COLUMN & BASE PLATE SCHEDULE**

MARK NO.	COLUMN SIZE	BASE PL. TYPE.	U/S PL. ELEVATION	REMARKS
C1	HSS 152x152x4.8	A	100 040	
C2	HSS 152x152x4.8	B	100 040	
C3	HSS 102x102x4.8	C	107 483	NO GROUT



**BASE PLATE SCHEDULE** ALL BASE PLATES TO BE PLACED OVER 40 GROUT UNLESS NOTED OTHERWISE

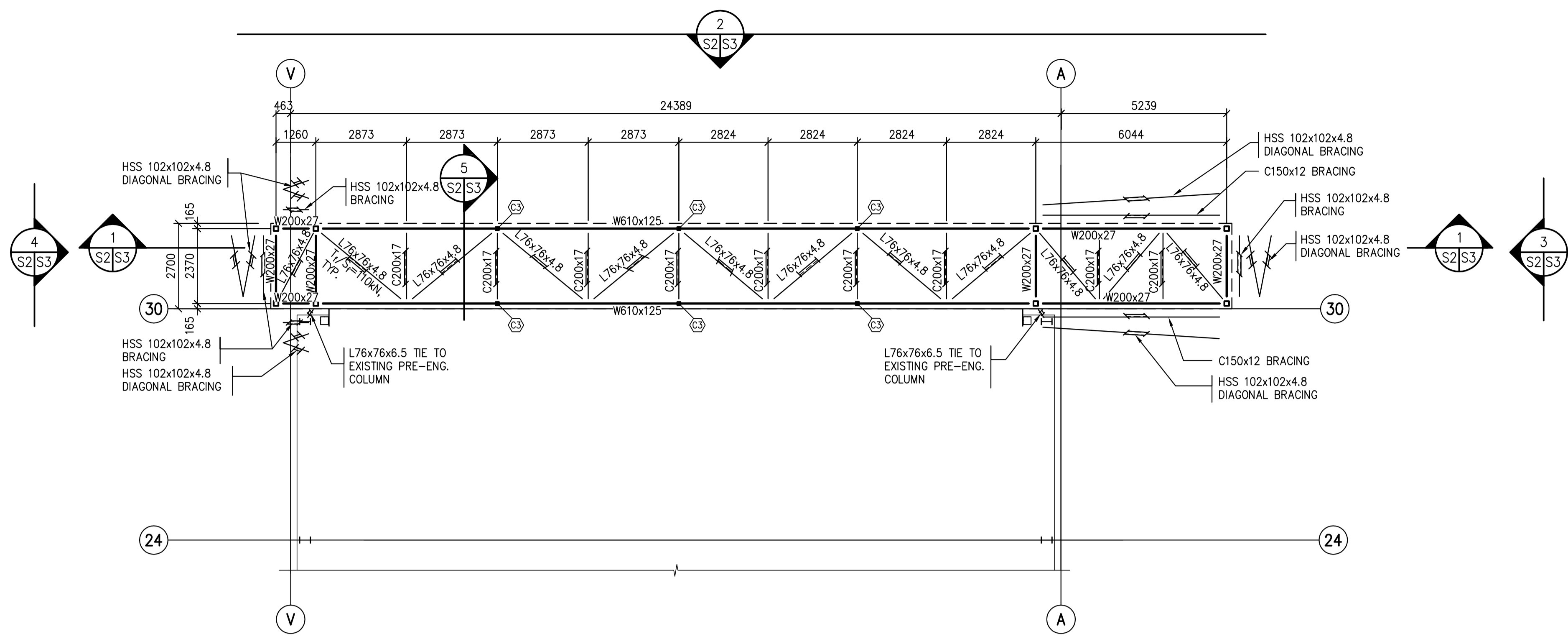




**STRUCTURAL ENGINEERS**  
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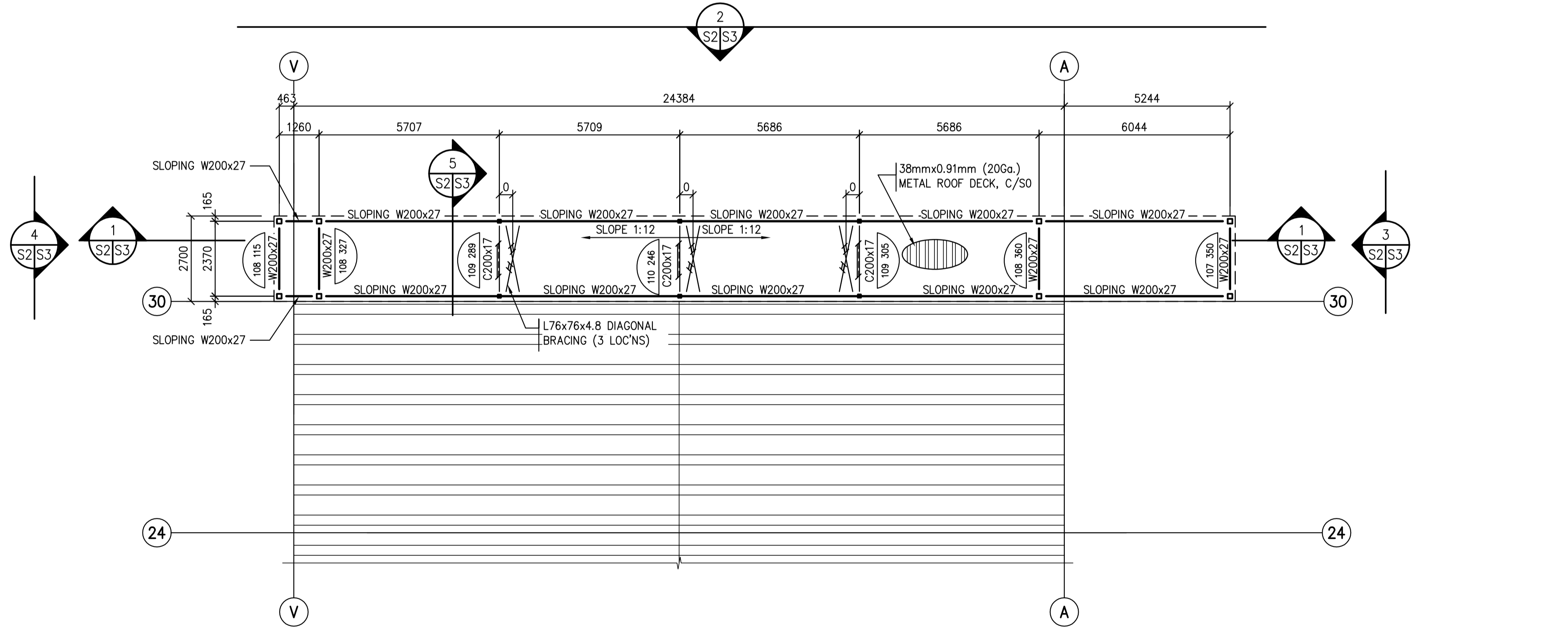


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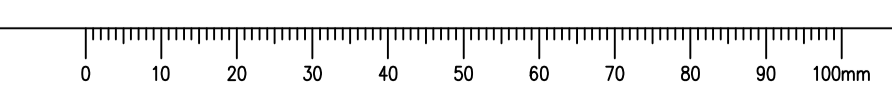
**1 PLAN - HANGAR DOOR SUPPORT**  
 1:100  
 NORTH

- NOTES:**
- REFER TO DRAWING S0 FOR GENERAL NOTES.
  - U/S OF STEEL AT ELEVATION 106 875 UNLESS NOTED OTHERWISE THUS
  - COLUMNS DENOTED ON PLAN THUS SEE TYPICAL COLUMN & BASE PLATE SCHEDULE.



**2 PLAN - ROOF**  
 1:100  
 NORTH

- NOTES:**
- REFER TO DRAWING S0 FOR GENERAL NOTES.
  - T/O STEEL DENOTED THUS
  - ROOF CONSTRUCTION TO BE:  
 38mm x 0.91mm (20Ga.) METAL ROOF DECK  
 STRUCTURAL STEEL AS PER PLAN
  - ROOF DESIGN LOADS:  
 DEAD LOAD = 1.2 kPa  
 LIVE LOAD = 1.6 kPa (PLUS BUILT-UP SNOW LOAD AS PER N.B.C.C.)  
 TOTAL LOAD = 2.8 kPa



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**PLAN - HANGAR DOOR SUPPORT PLAN - ROOF**

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32/2015	S2 OF -	0

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**FRAMING ELEVATION  
 SECTIONS / DETAILS**

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32/2015	<b>S3</b> OF -	<b>0</b>

