

3D View

Notes:

- Foundation design by others (specialist sub-contractor). Arup's design responsibility stops at the super structure and does not include foundation design.
- All steel to be grade E350 unless noted otherwise.
- Architectural setting out of Safdarjung Station and platforms by others.
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- No dimensions shall be scaled from this drawing
- Fabrication / shop drawings shall be approved by the Engineer prior to commencing fabrication.

01 | 14/11/23 | For information

Issue	Date	

ARUP

Arup IP Limited
Off Western Express Highway Andheri (East)
5th Floor Jet Prime Suren Road
Mumbai
www.arup.com

Client

Rail Land Development Authority
Ministry of Railways

Project Title

Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Safdarjung Station

Drawing Title

General Arrangement
Rendered 3d View

Scale at A1

1:200

By/Chkd/Appd

PB/EB/FA&FB

Role

Structural

Status

S4 - Submission

Arup Job No

284197

Rev

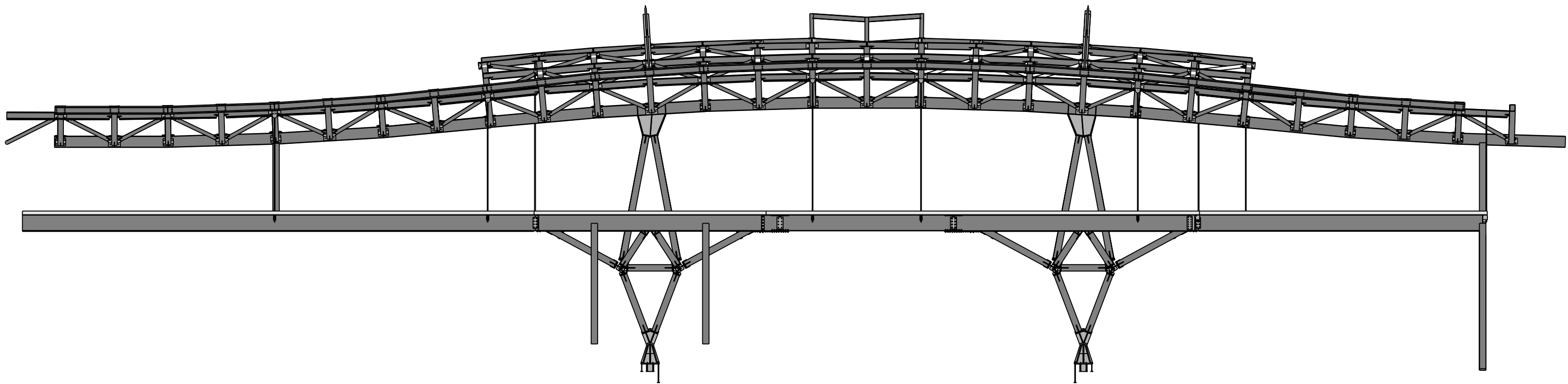
01

ID

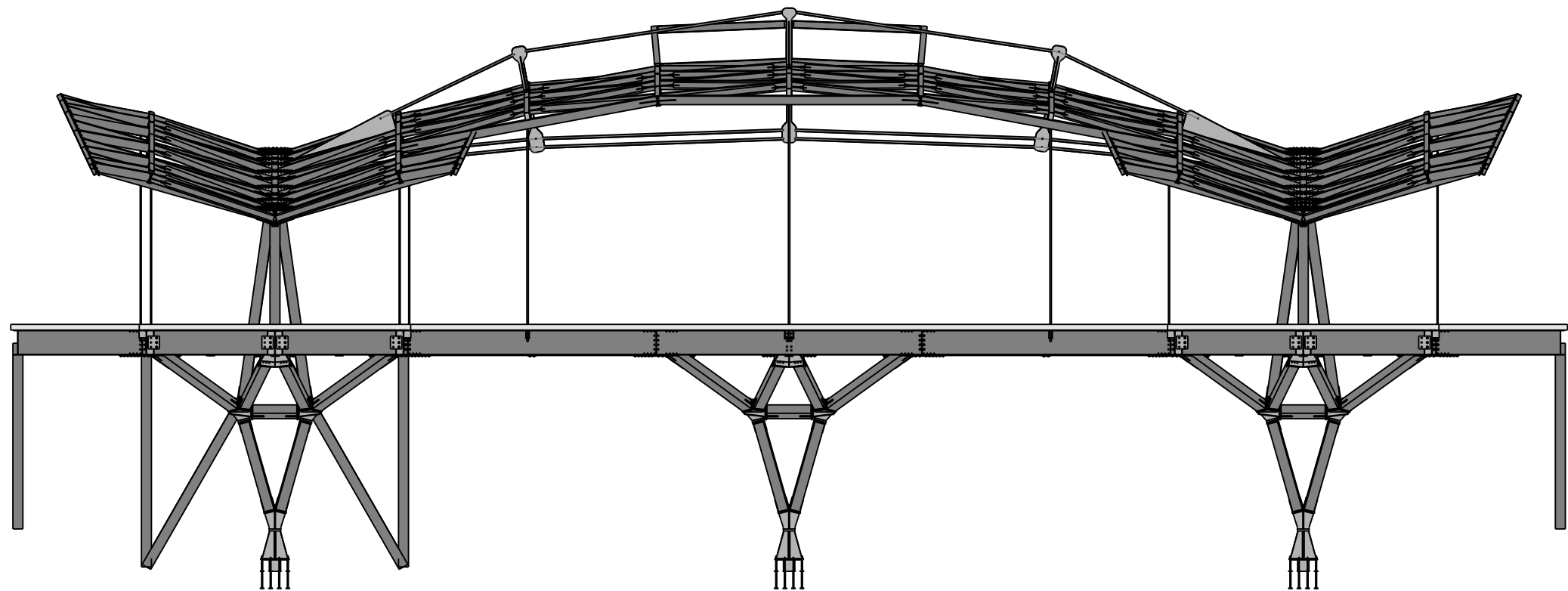
284197-ARP-ZZ-ZZ-DR-SX-000501



The 3D drawings were sent for information only and have not been updated - refer to Tekla model for the latest geometry (Arup, 26/04/2024)



Side Elevation



Front Elevation



The 3D drawings were sent for information only and have not been updated - refer to Tekla model for the latest geometry (Arup, 26/04/2024)

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01 | 14/11/23 | For information

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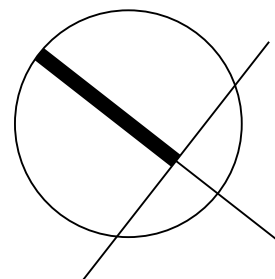
Project Title

Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Safdarjung Station

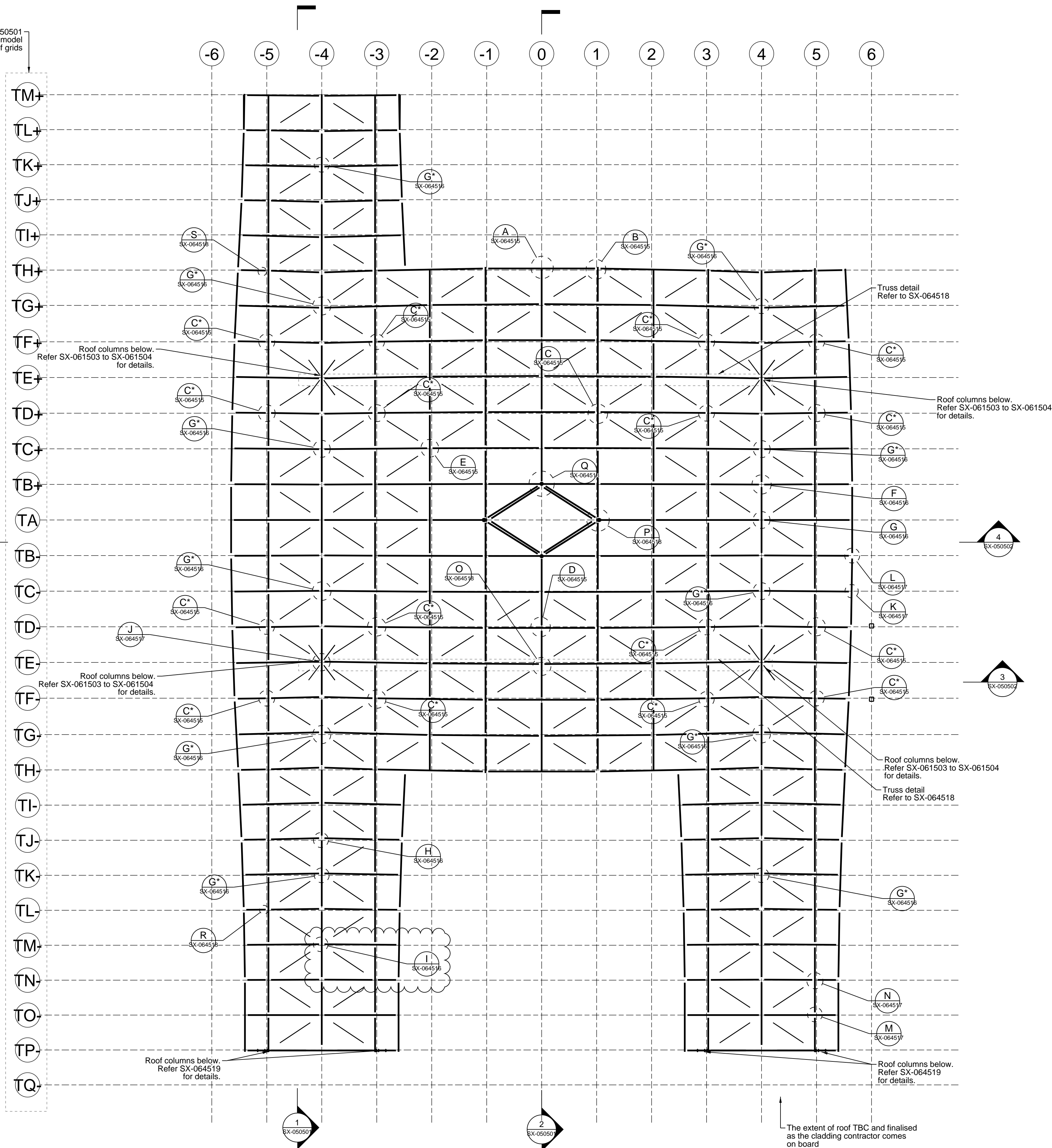
Drawing Title

General Arrangement
Rendered Elevations

Scale at A1	1:200	By/Chkd/Appd	PB/EB/FA&FB
Role	Structural		
Status	S4 - Submission		
Arup Job No	284197	Rev	01
ID	284197-ARP-ZZ-ZZ-DR-SX-000502		



See section drawings SX-050501
and Tekla model
for the proper location of grids

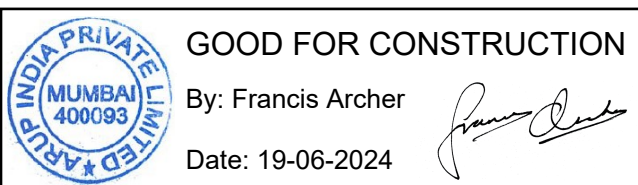
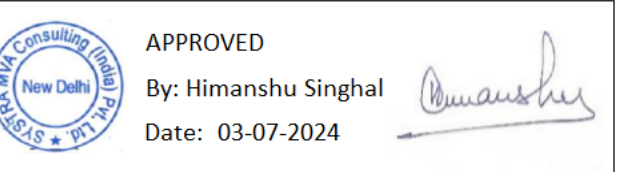


Roof Plan
Scale 1:200

PRECISE SETTING OUT GEOMETRY TO
BE READ FROM TEKLA MODEL

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03	19/06/24	Good for Construction
02	09/02/24	Good for Construction
01	14/11/23	Good for Construction
Issue	Date	

ARUP

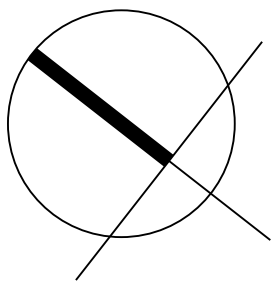
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www.arup.com

Client
Rail Land Development Authority
Ministry of Railways

Project Title
Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Safdarjung Station

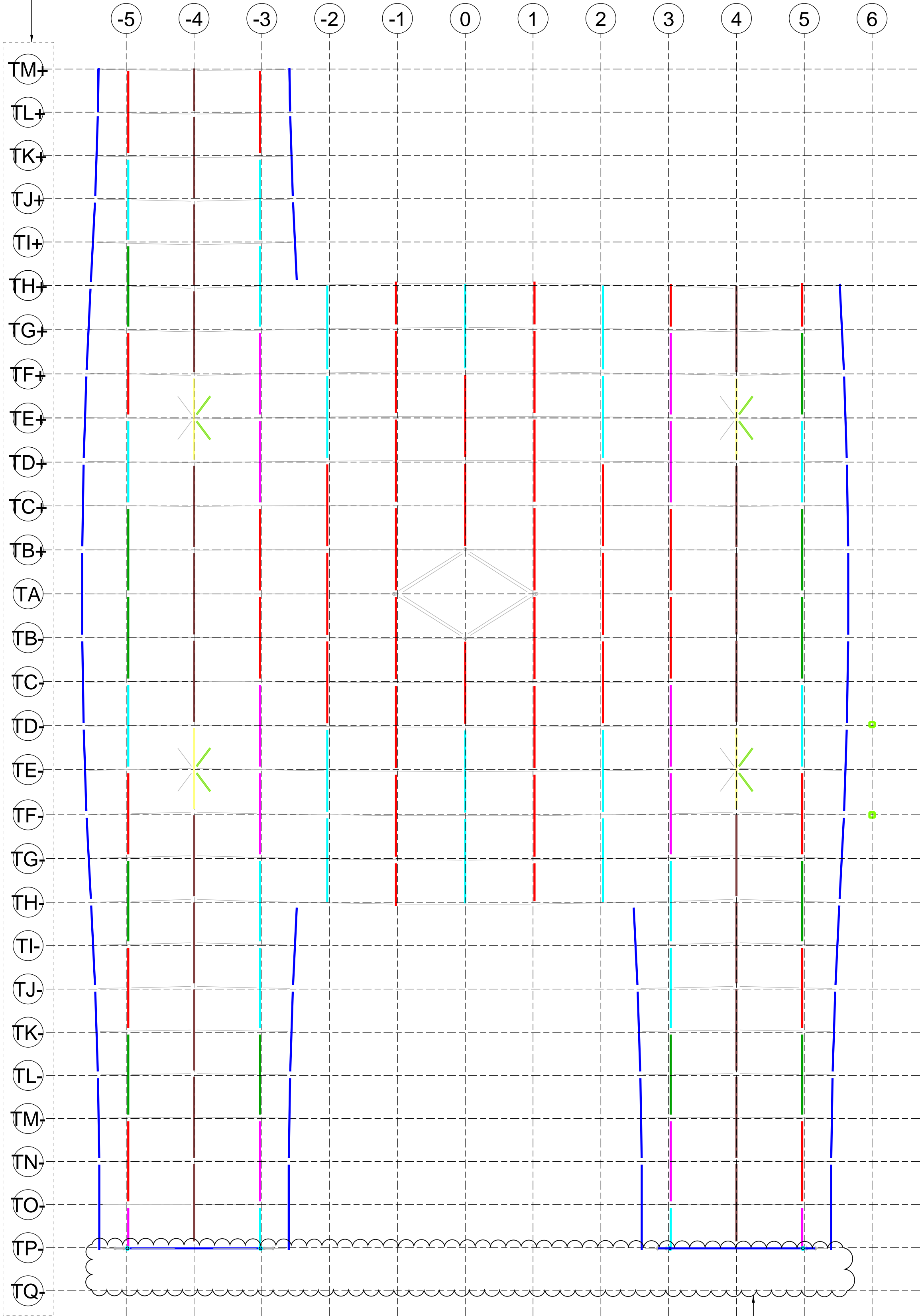
Drawing Title
General Arrangement
Roof Steelwork Plan

Scale at A1	1:200	By/Chkd/Appd	PG/EB/FA/FB
Role	Structural		
Status	S4 - Submission		
Arup Job No	284197	Rev	03
ID	284197-ARP-ZZ-02-DR-SX-024505		



Steel Beam Schedule			
Color	Profile	Grade	Comments
—	C_BUILT400x150x10x15	E350	
—	HI370-12-30x175	E350	
—	UB356*171*45	E350	
—	UB356*171*51	E350	
—	UB356*171*67	E350	
—	UB610*229*101	E350	
—	UB610*229*140	E350	

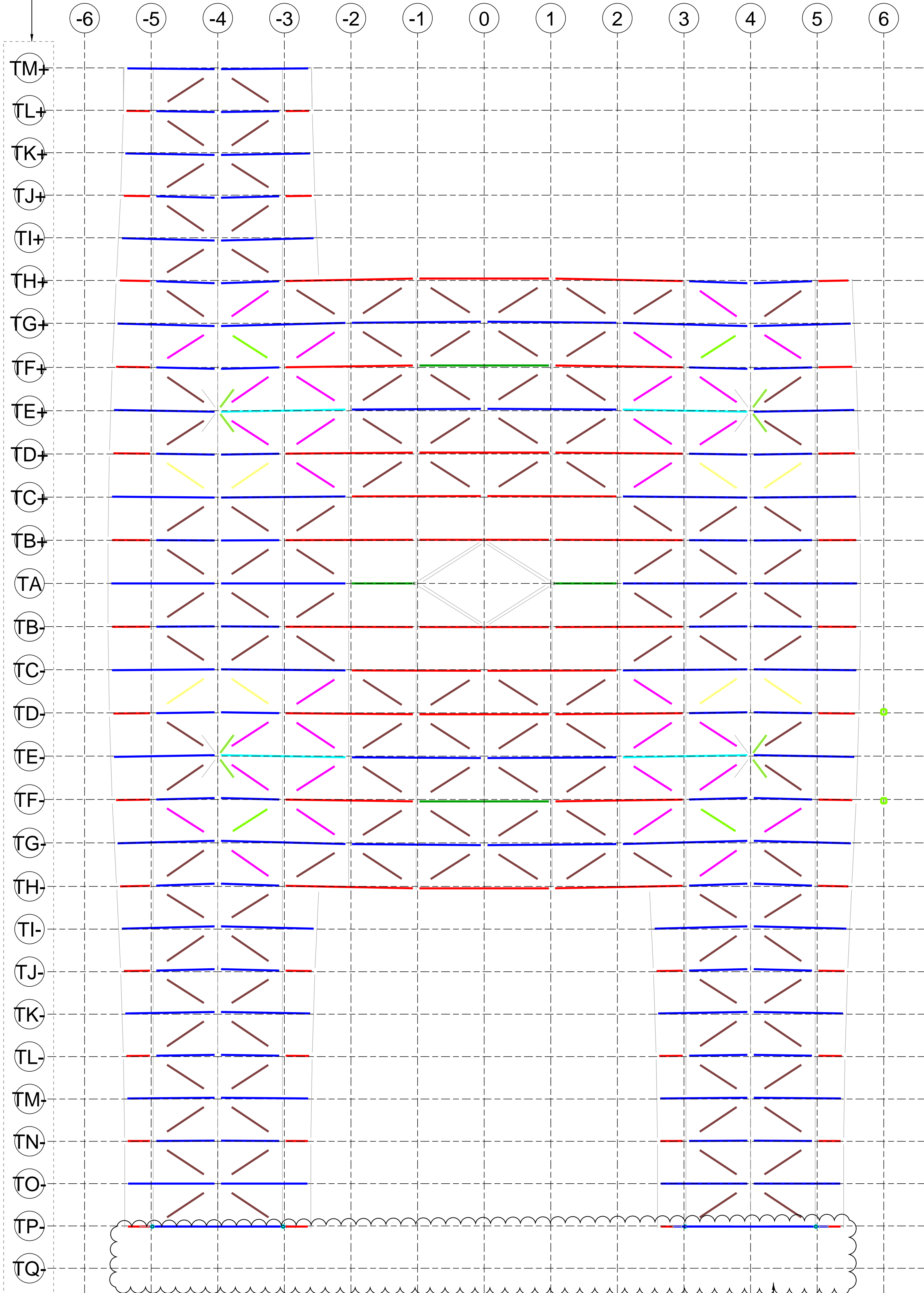
See section drawings SX-050501 and Tekla model for the proper location of grids



Roof Plan
Scale 1:200

Steel Beam Schedule			
Color	Profile	Grade	Comments
—	B_WLD_F300x300x30x30	E350	
—	SHS300*300*6.3	E350	
—	SHS300*300*10.0	E350	
—	SHS300*300*16.0	E350	

See section drawings SX-050501 and Tekla model for the proper location of grids



Roof Plan
Scale 1:200

Steel Bracing Schedule							
Color	Profile	Grade	End Connections				
			End connection plate thickness	Width of connection plate	Length of overlap of connecting plate with CHS	CHS end plate thickness	fillet weld between connecting plate and CHS
—	CHS193.7*6.3	E350	20	220	250	8	6
—	CHS193.7x10	E350	30	220	250	8	12
—	CHS193.7x10	E350	30	220	250	8	12
—	CHS193.7x10	E350	35	220	250	8	12

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APPROVED
By: Himanshu Singhla
Date: 28-08-2024

GOOD FOR CONSTRUCTION
By: Francis Archer
Date: 19-06-2024

03	19/06/24	Good for construction
02	09/02/24	Good for construction
01	14/11/23	Good for construction
Issue	Date	

ARUP

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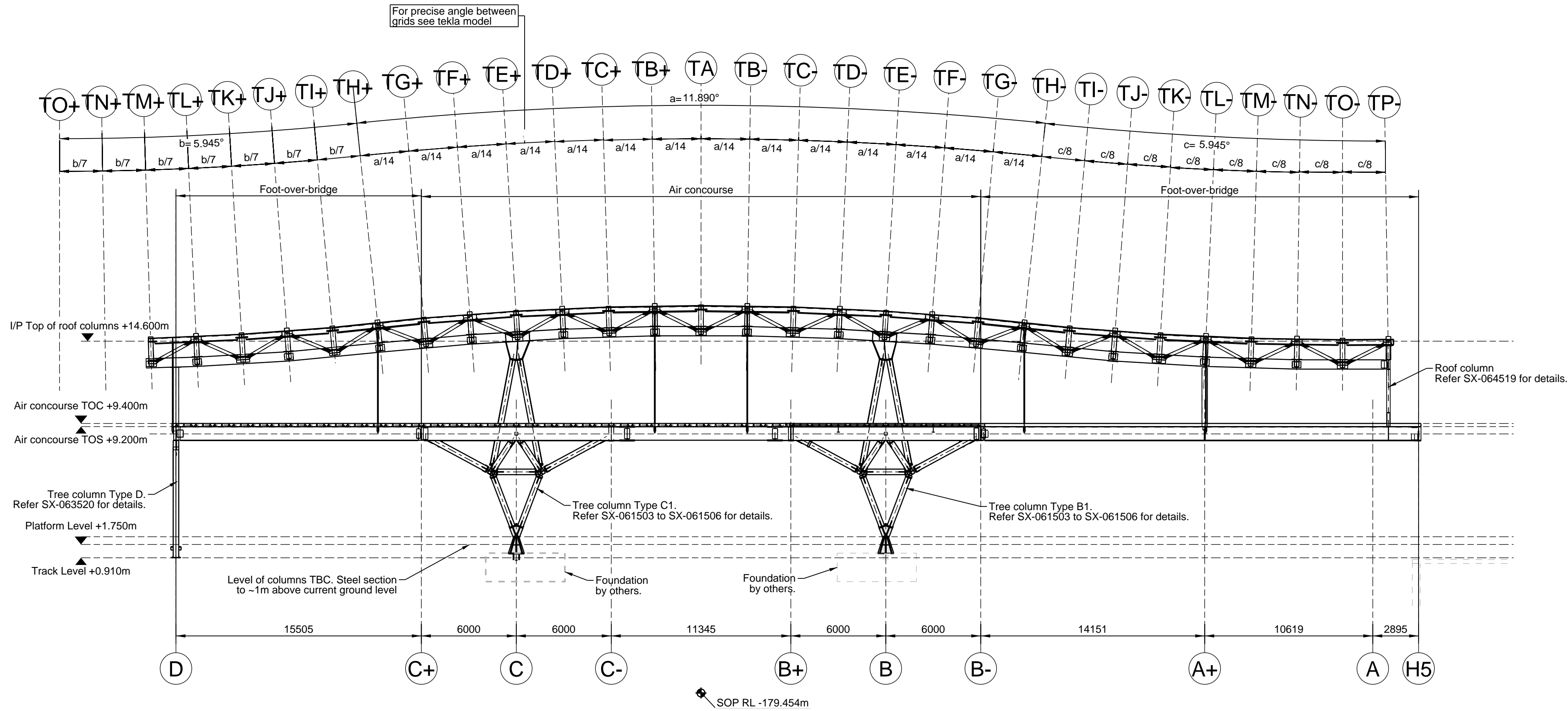
Client
Rail Land Development Authority
Ministry of Railways

Project Title
Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Safdarjung Station

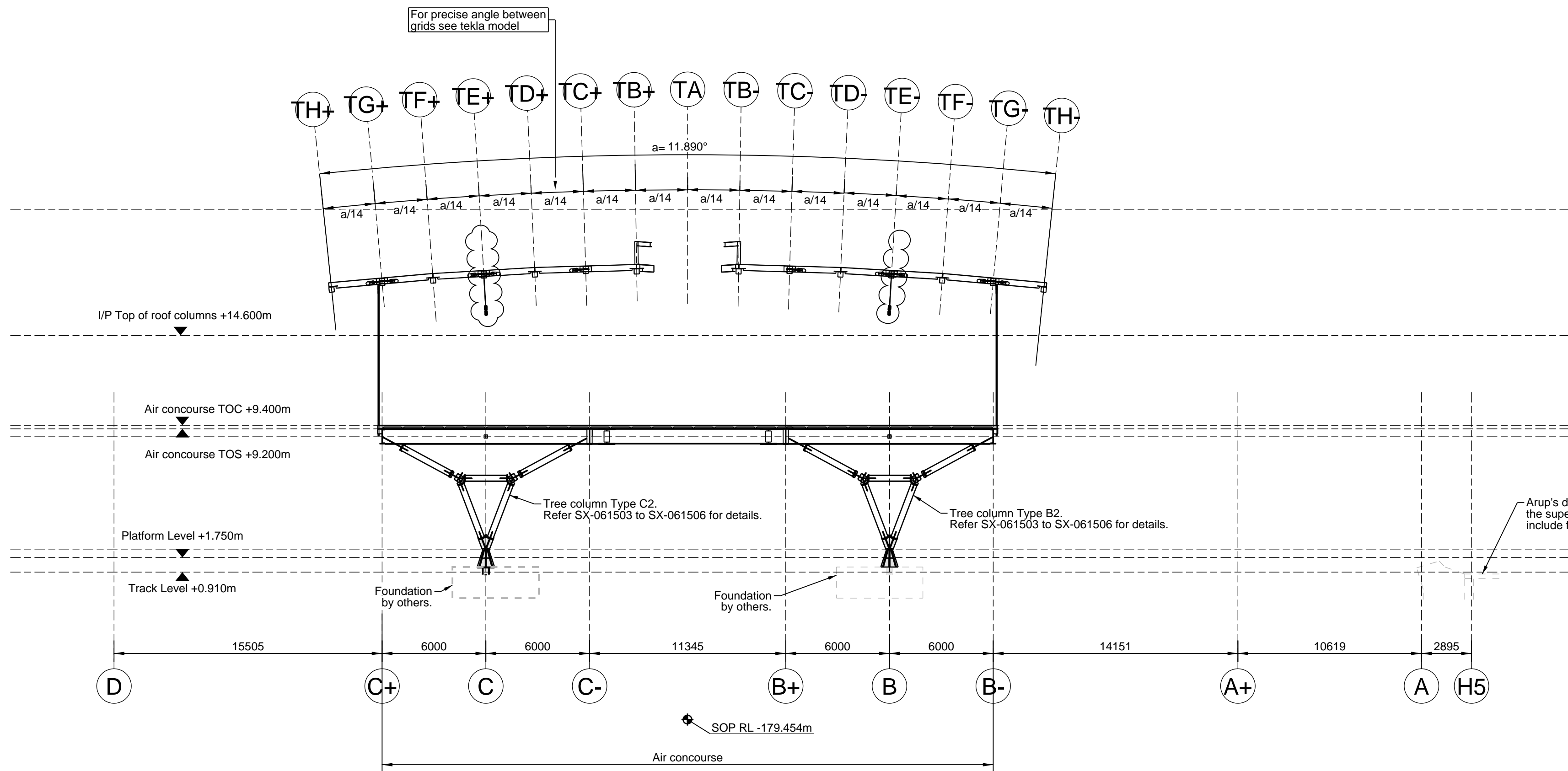
Drawing Title
General Arrangement
Roof Sections Schedule

Scale at A1	1:200	By/Chkd/Appd	PB/EB/FA&FB
Role	Structural		
Status	S4 - Submission		
Arup Job No	284197	Rev	03
ID	284197-ARP-ZZ-02-DR-SX-024506		

PRECISE SETTING OUT GEOMETRY TO
BE READ FROM TEKLA MODEL



Section 1 (Section on Grid -4)
Scale 1:200
(SX-024505)



Section 2 (Section on Grid 0)
Scale 1:200
(SX-024505)



PRECISE SETTING OUT GEOMETRY TO
BE READ FROM TEKLA MODEL

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03	20/03/24	Good for construction
02	09/02/24	Good for construction
01	14/11/23	Good for construction
Issue	Date	

ARUP

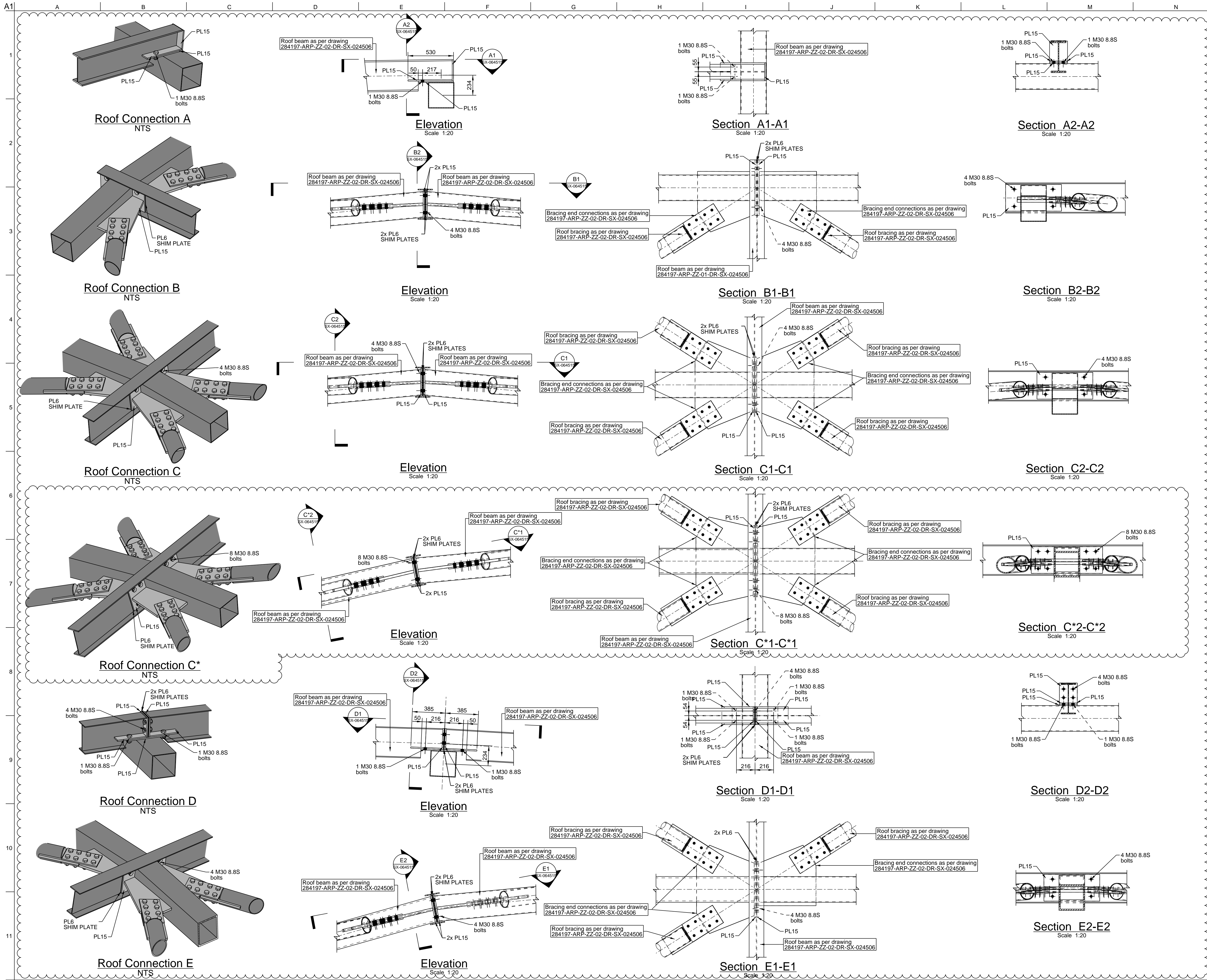
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Client
Rail Land Development Authority
Ministry of Railways

Project Title
Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Safdarjung Station

Drawing Title
Building Sections
Sections Sheet 1

Scale at A1	1:200	By/Chkd/Appd	PB/EB/FA&FB
Role	Structural		
Status	S4 - Submission		
Arup Job No	284197	Rev	03
ID	284197-ARP-ZZ-ZZ-DR-SX-050501		



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APPROVED
By: Himanshu Singhal
Date: 03-07-2024

GOOD FOR CONSTRUCTION
By: Francis Archer
Date: 09-02-2024

02	09/02/24	Good For Construction
01	14/11/23	For information
Issue	Date	

ARUP

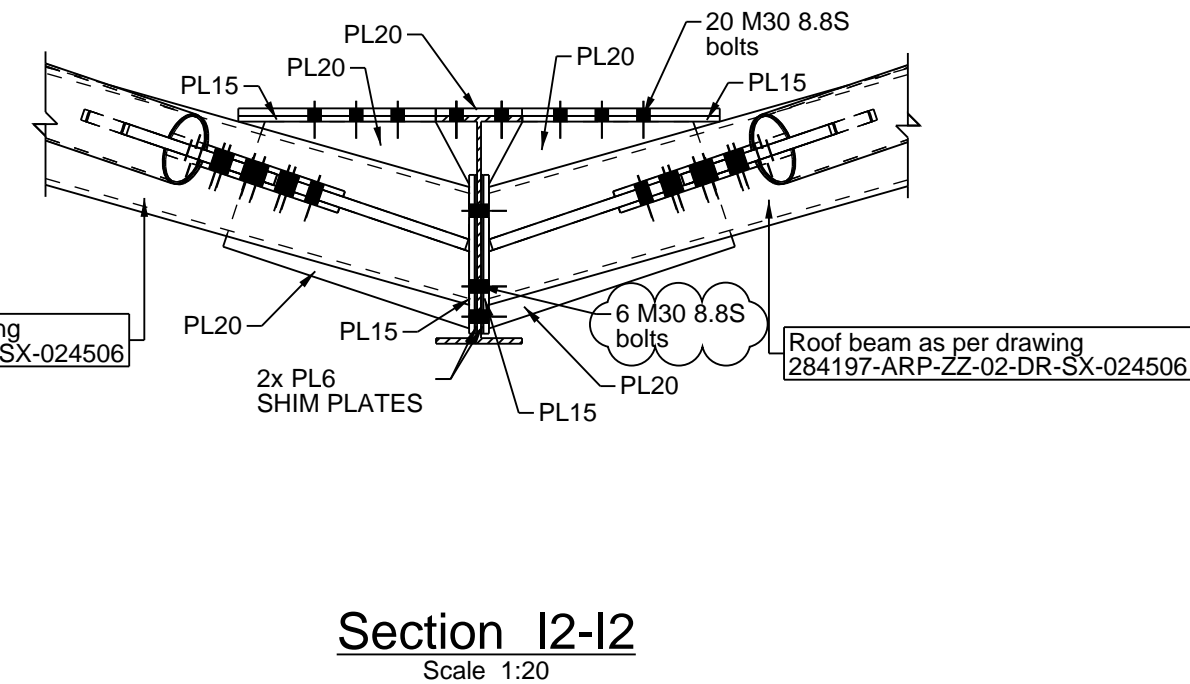
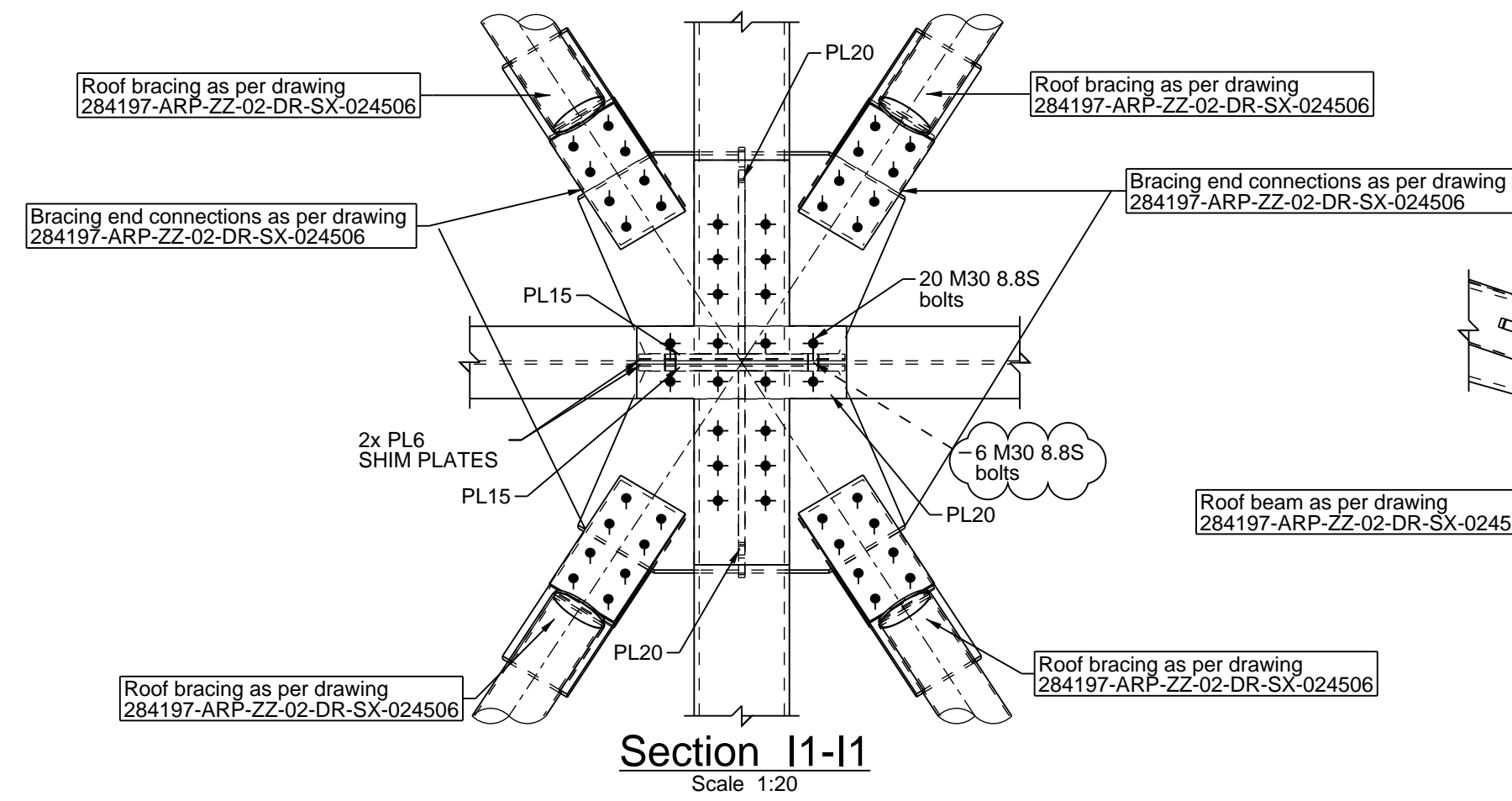
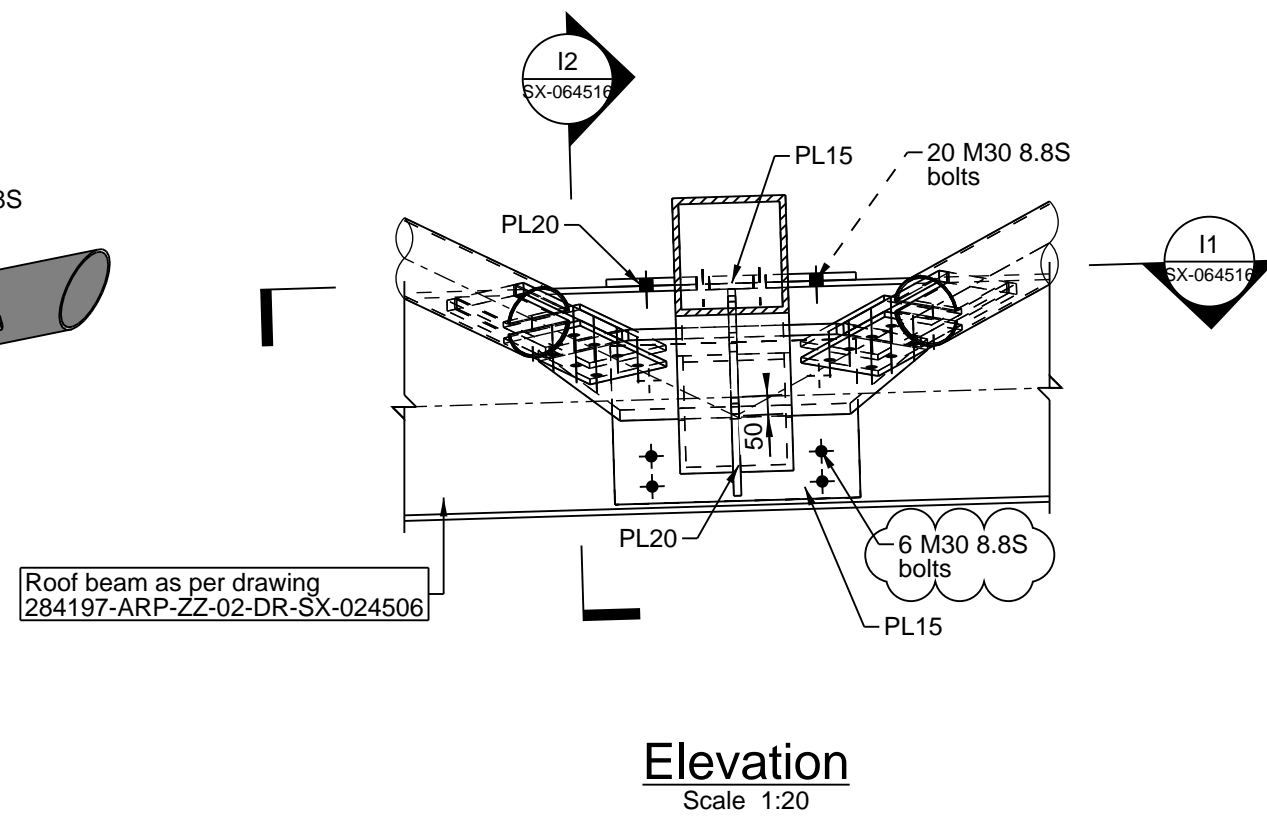
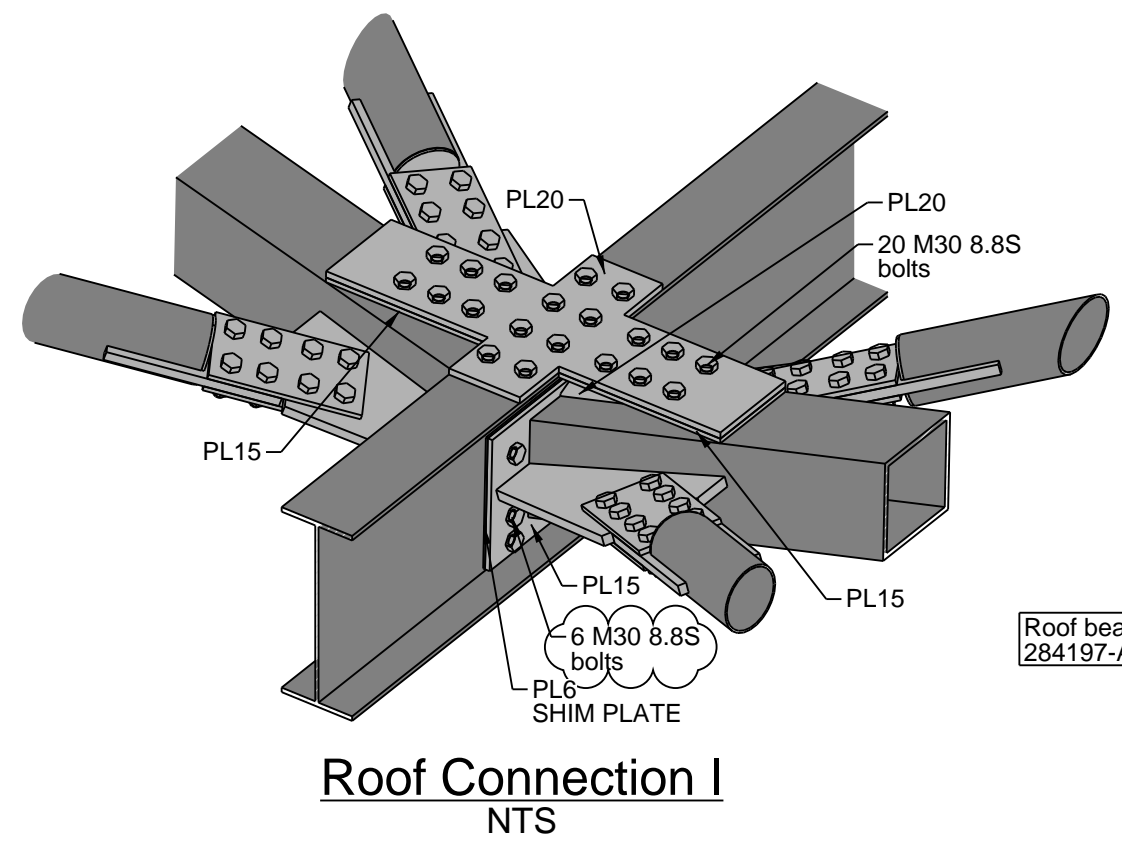
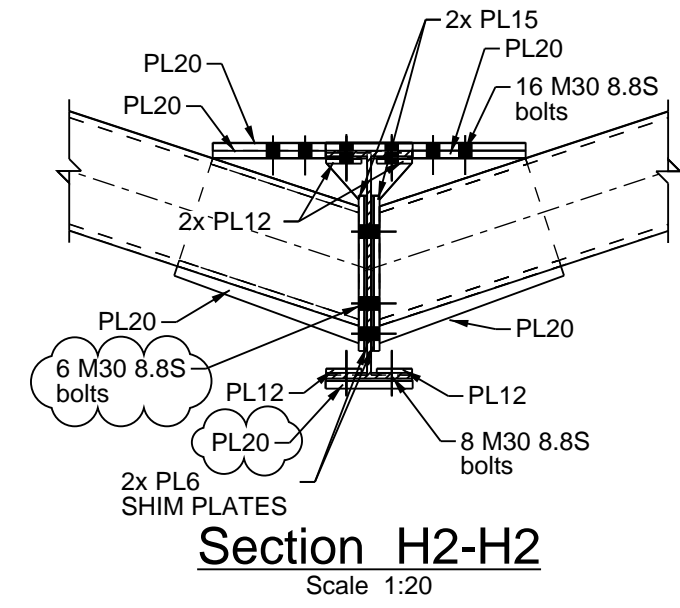
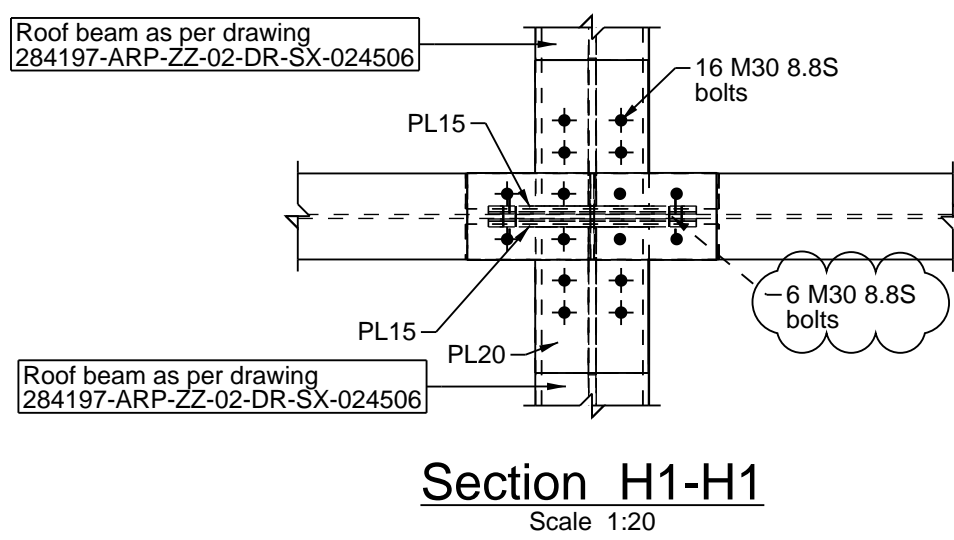
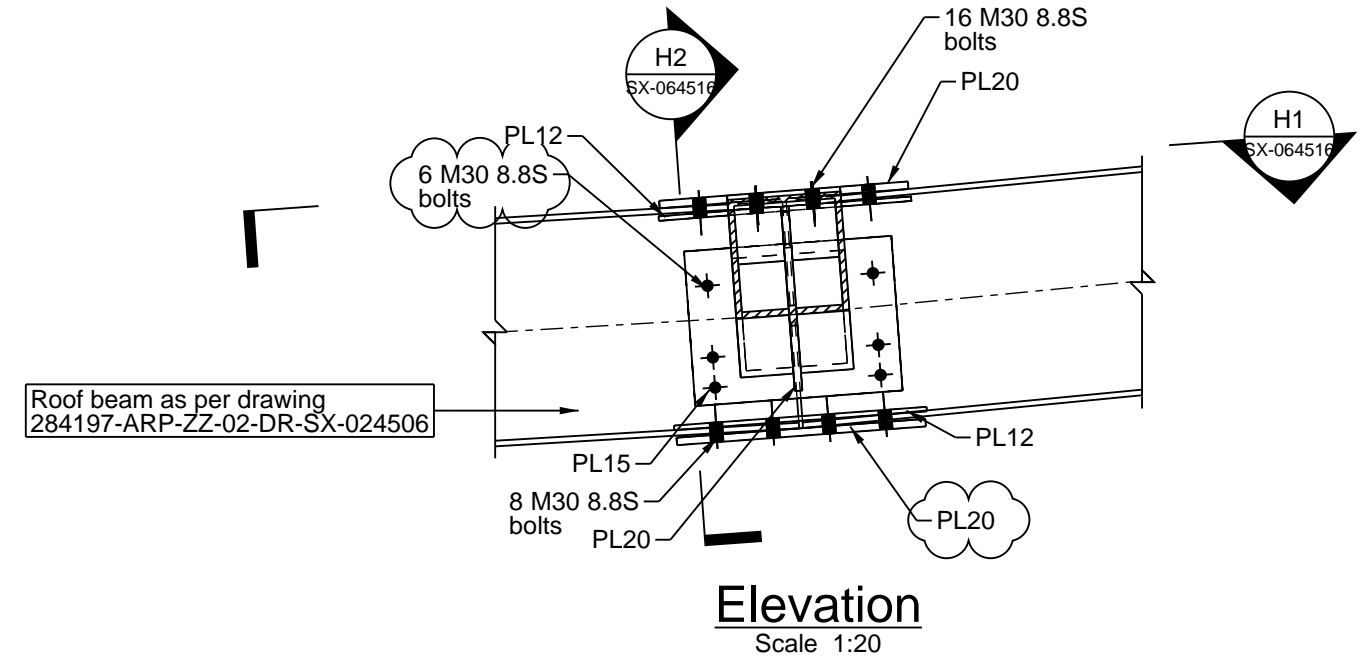
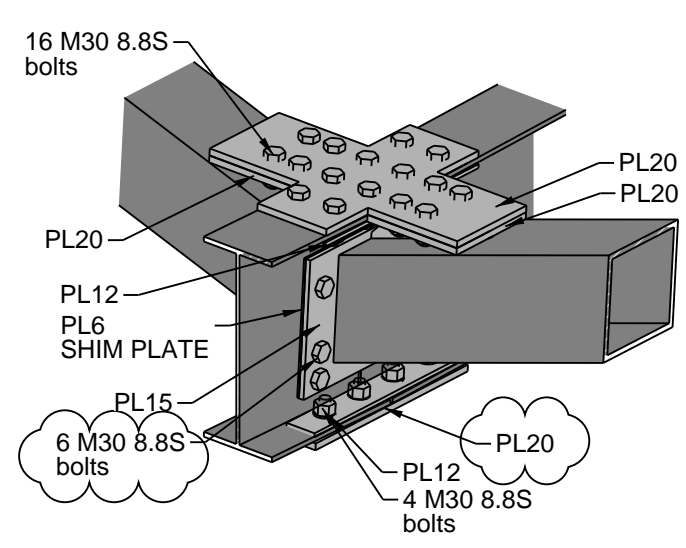
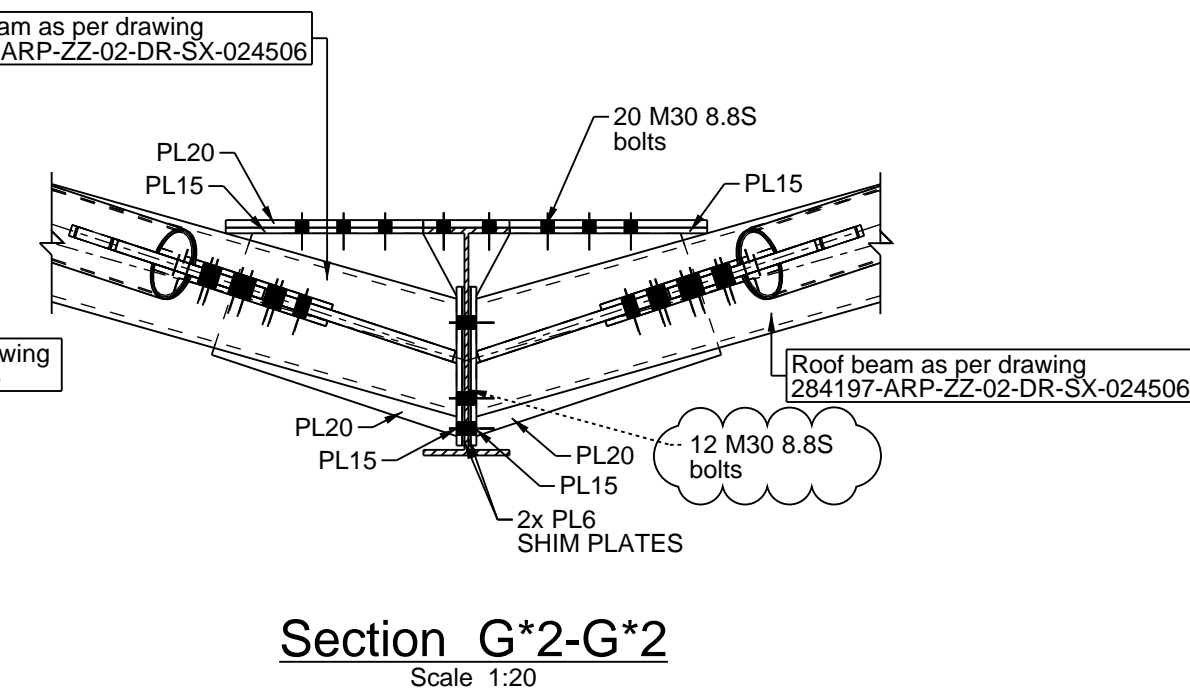
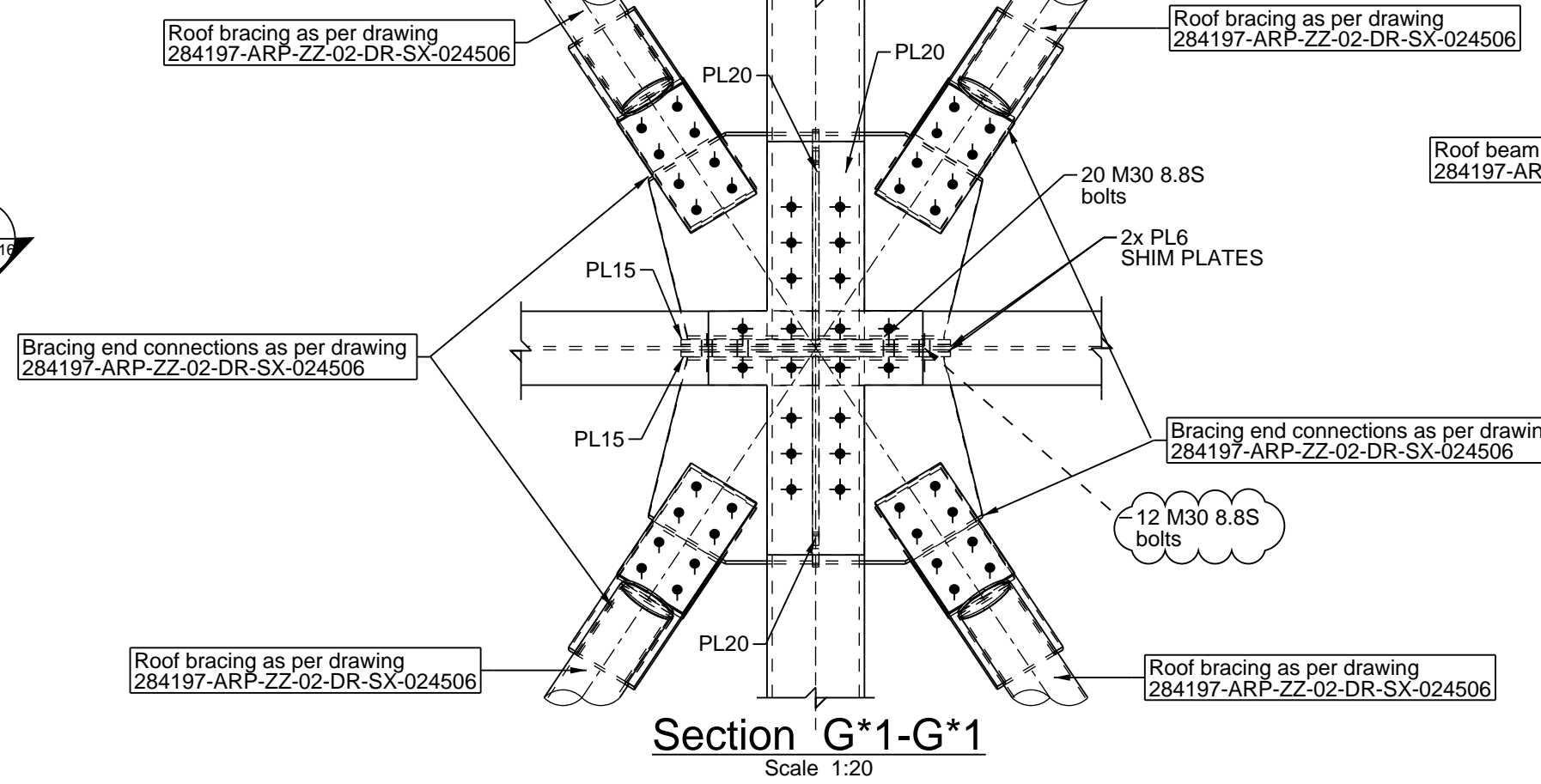
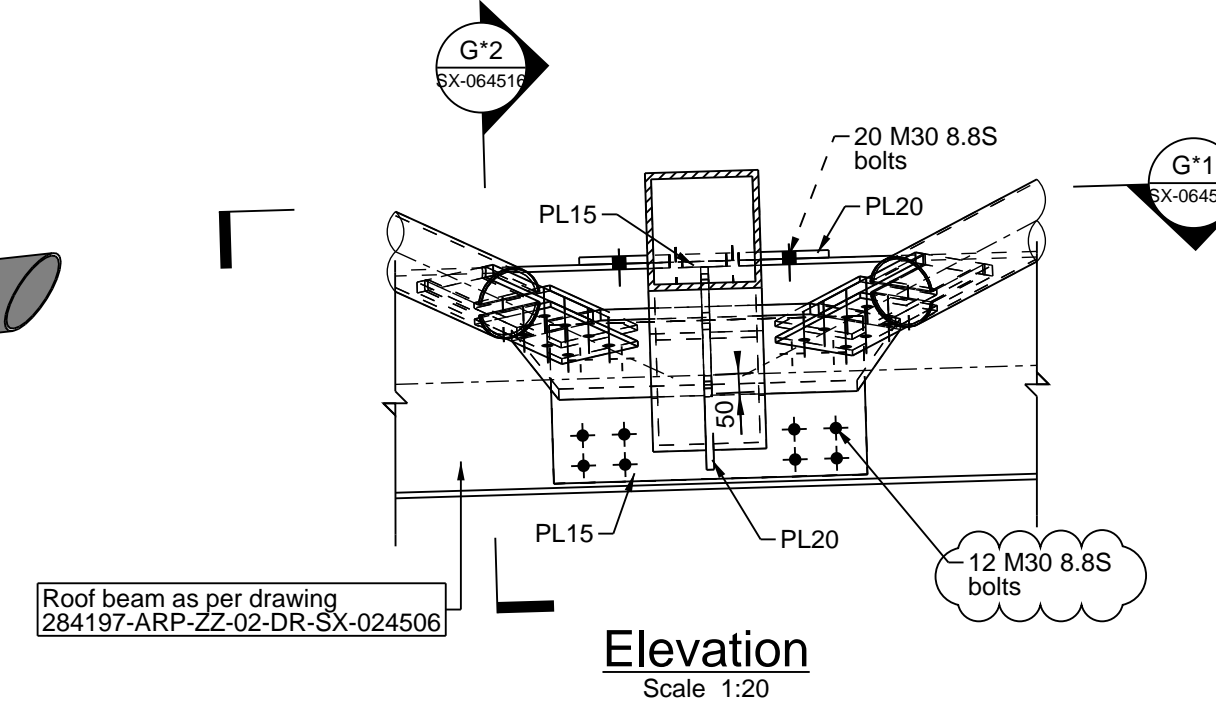
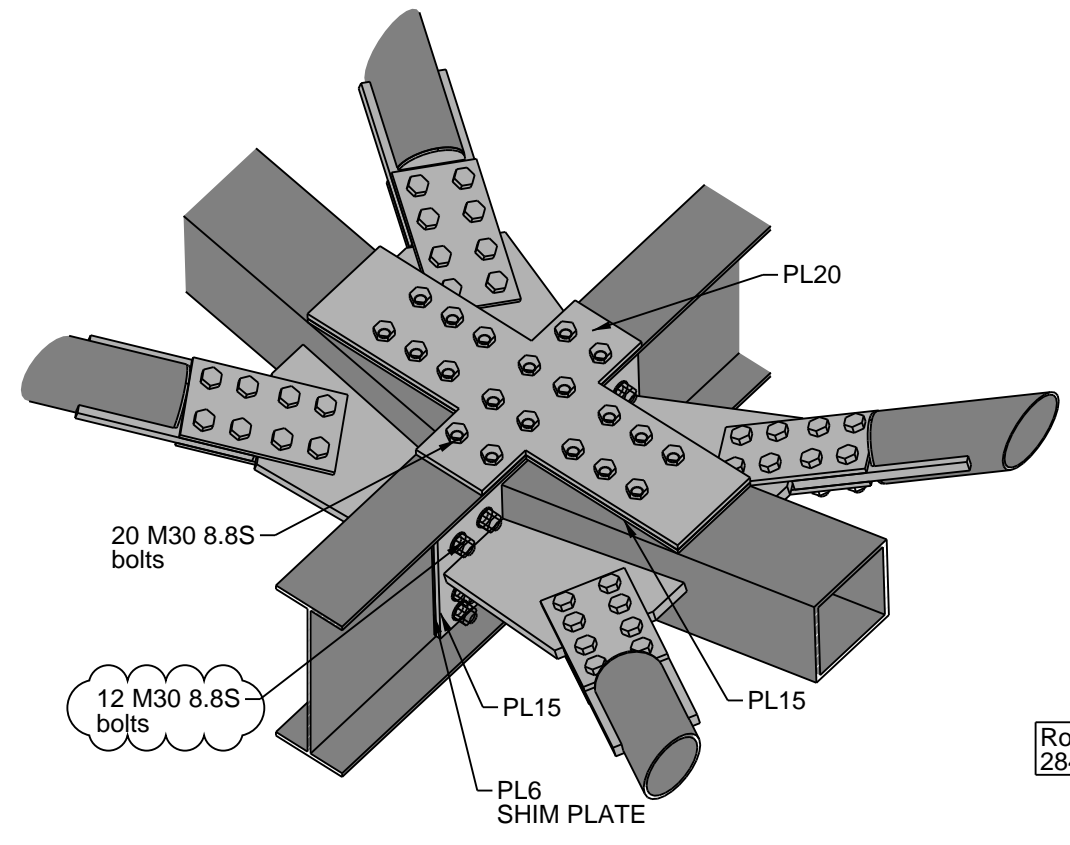
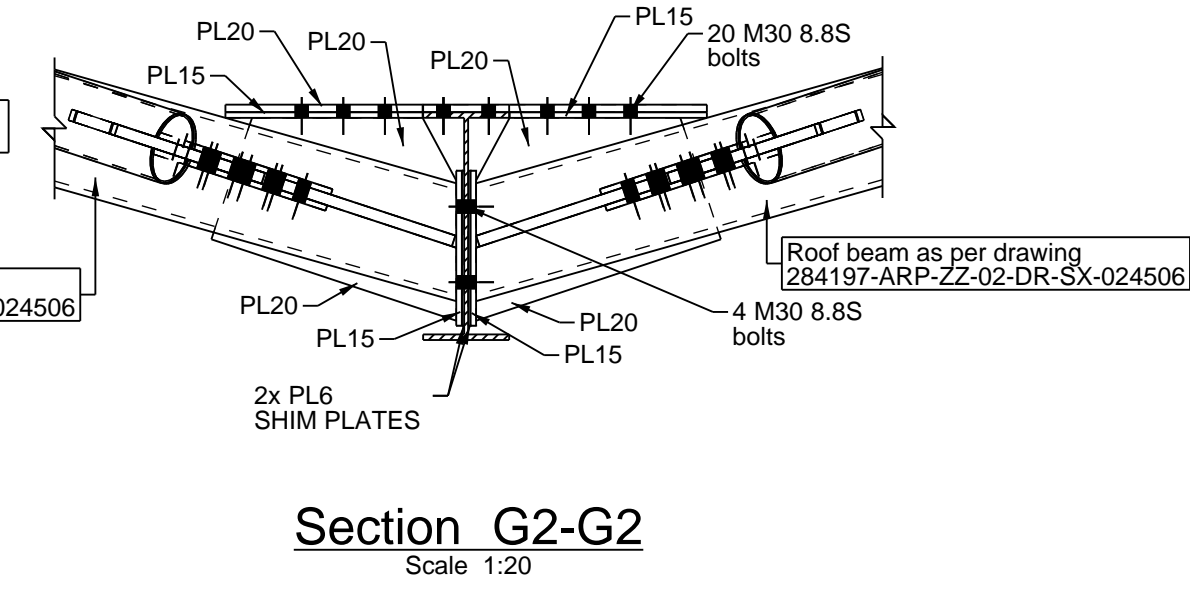
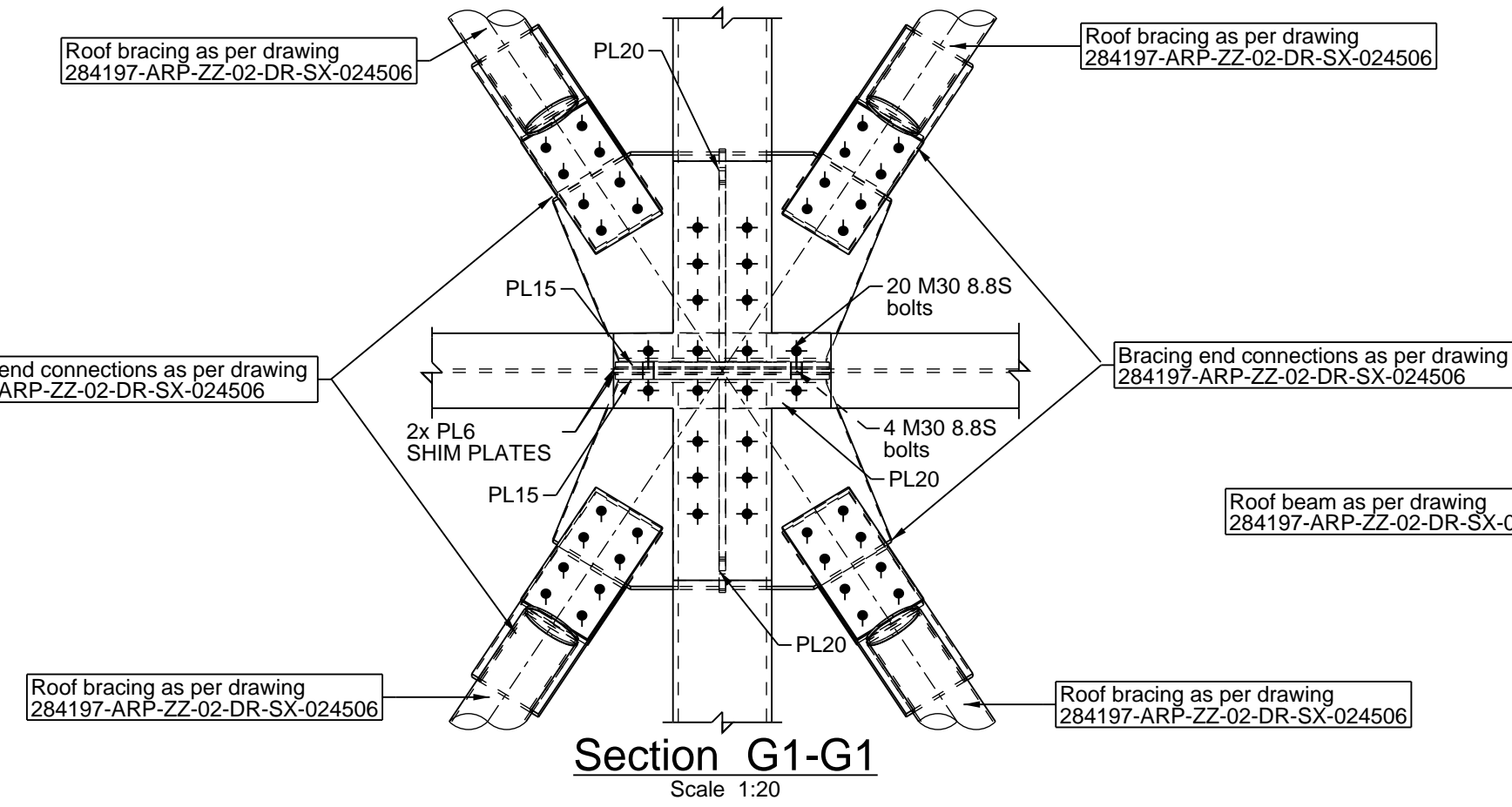
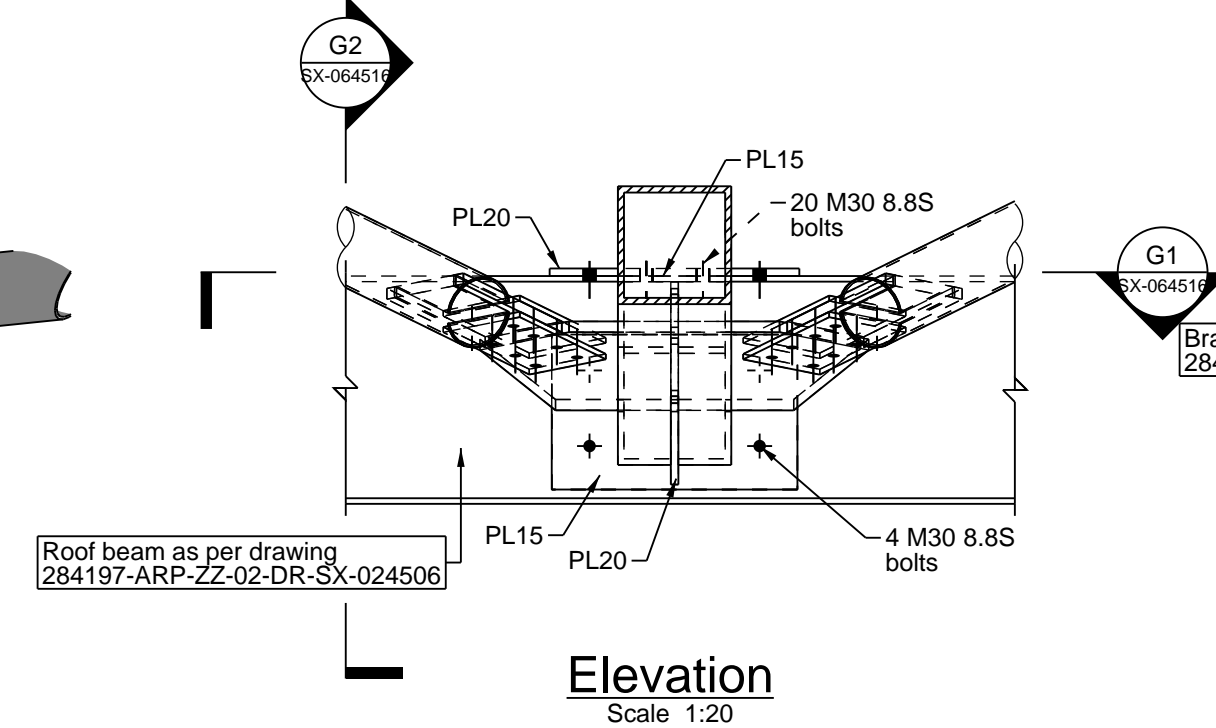
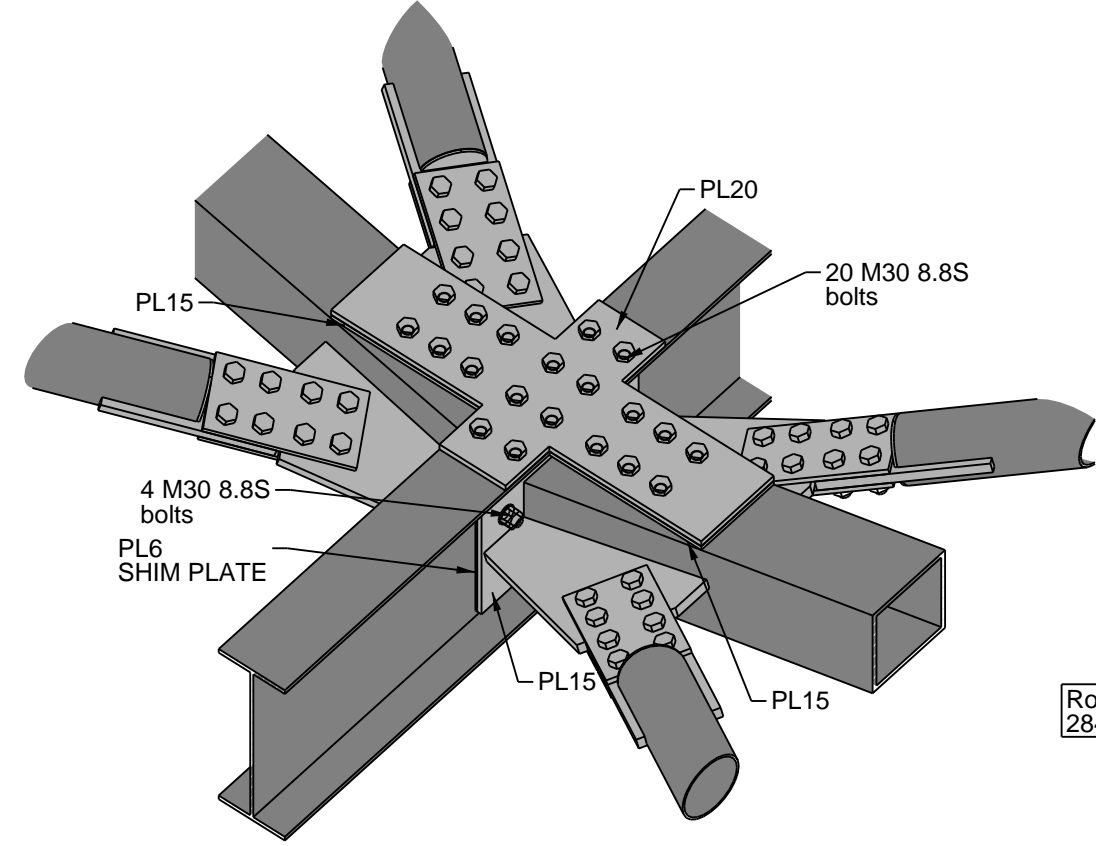
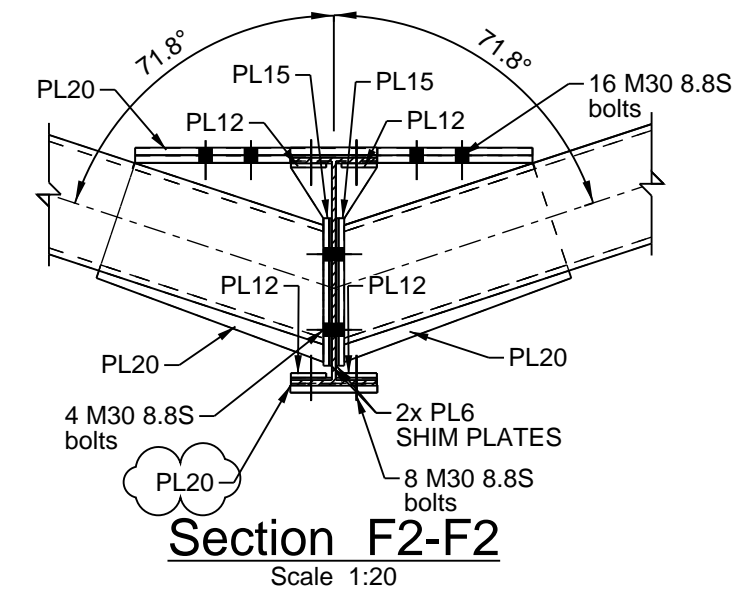
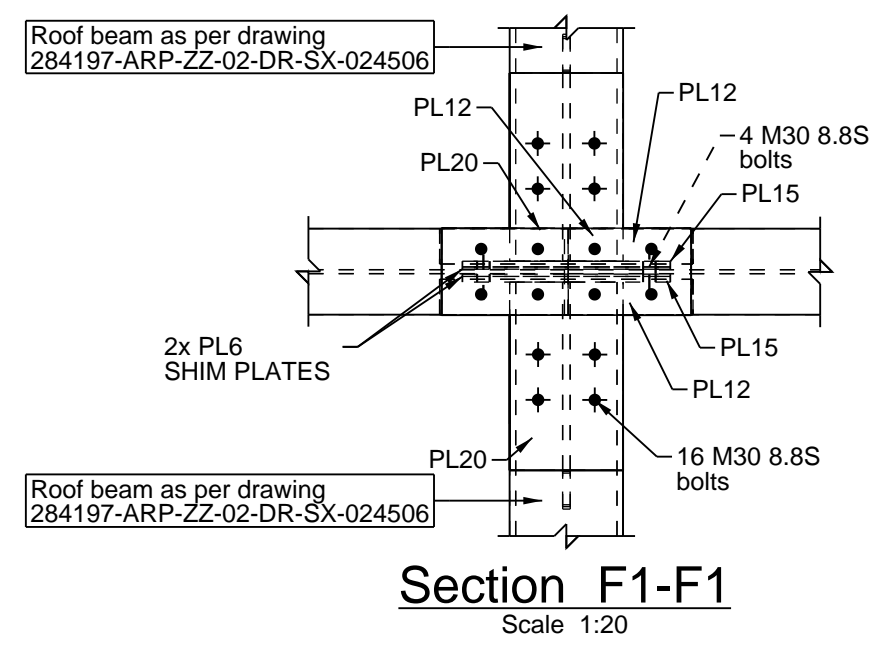
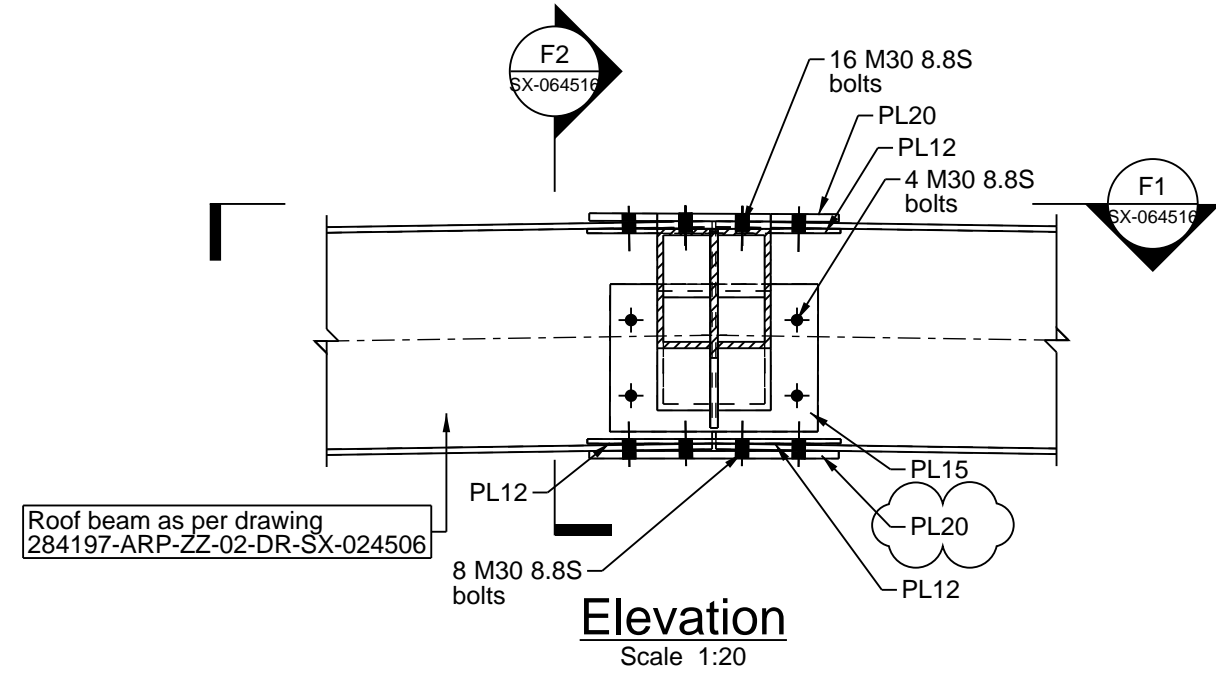
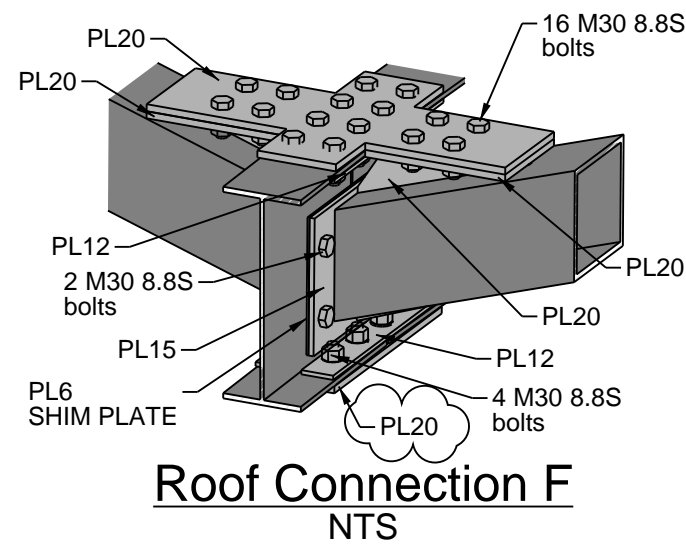
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Client
**Rail Land Development Authority
Ministry of Railways**

Project Title
**Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Saldarjung Station**

Drawing Title
**Details
Roof Details
Typical connection A,B,C,C*,D,E**

Scale at A1	1:20	By/Chkd/Appd	PB/EB/FA&FB
Role	Structural		
Status	S4 - Submission		
Arup Job No	284197	Rev	02
ID	284197-ARP-TR-02-DR-SX-064515		



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APPROVED
By: Himanshu Singhal
Date: 28-08-2024



GOOD FOR CONSTRUCTION
By: Francis Archer
Date: 19-06-2024

05	19/06/24	Good For Construction
04	10/04/24	Good For Construction
03	20/03/24	Good For Construction
02	09/02/24	Good For Construction
01	14/11/23	For information
Issue	Date	

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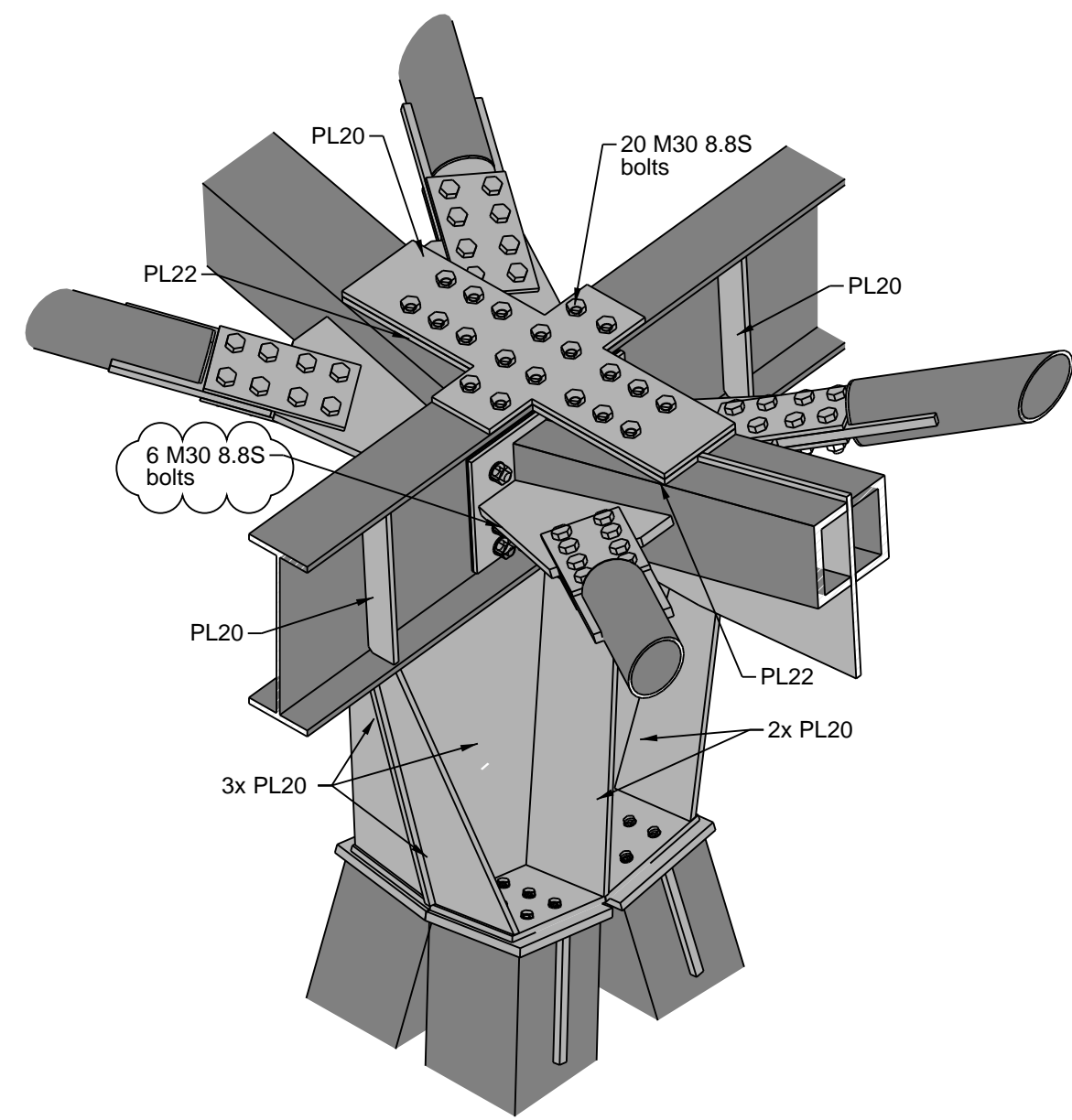
Project Title

Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Safdarjung Station

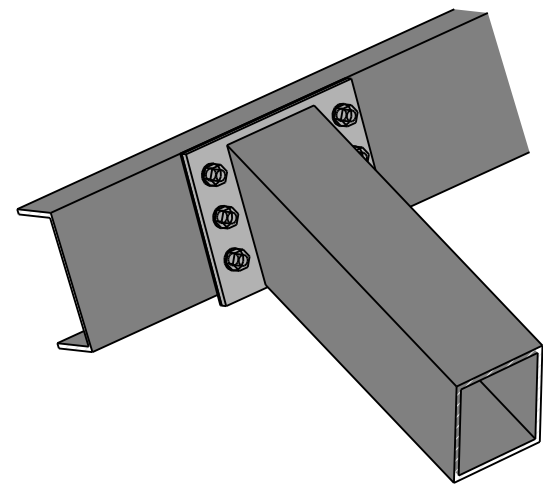
Drawing Title

Details
Roof Details
Typical connection F,G,G*,H,I

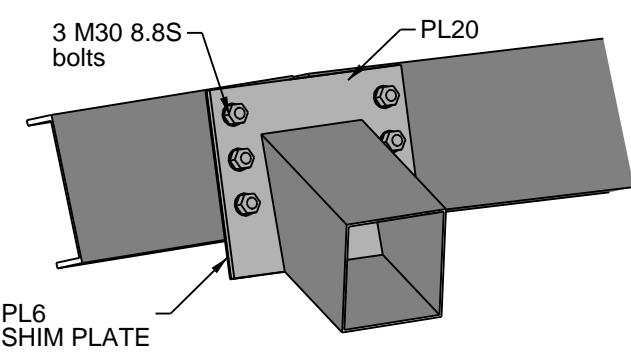
Scale at A1	1:20	By/Chkd/Appd	PB/EB/FA&FB
Role	Structural		
Status	S4 - Submission		
Arup Job No	284197	Rev	05
ID	284197-ARP-TR-02-DR-SX-064516		



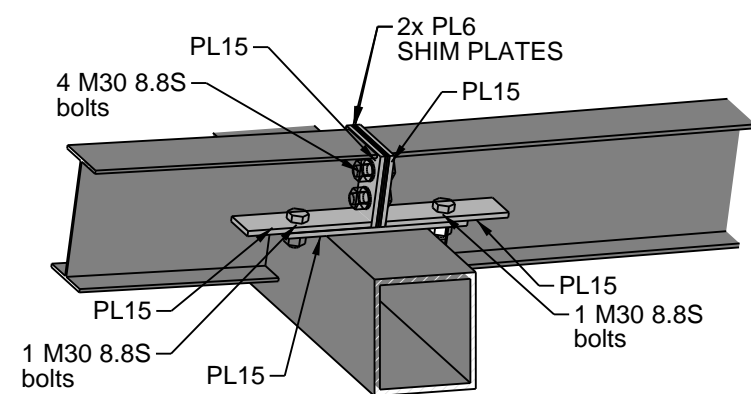
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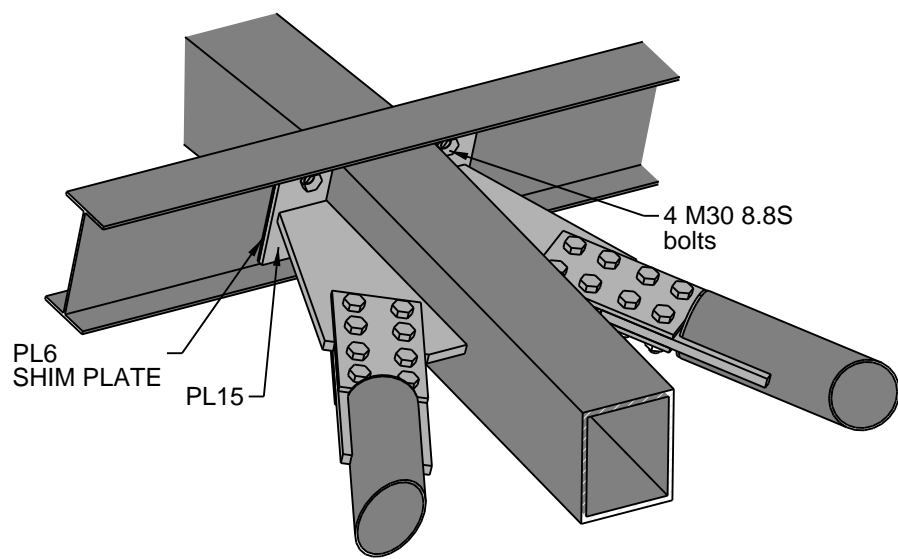
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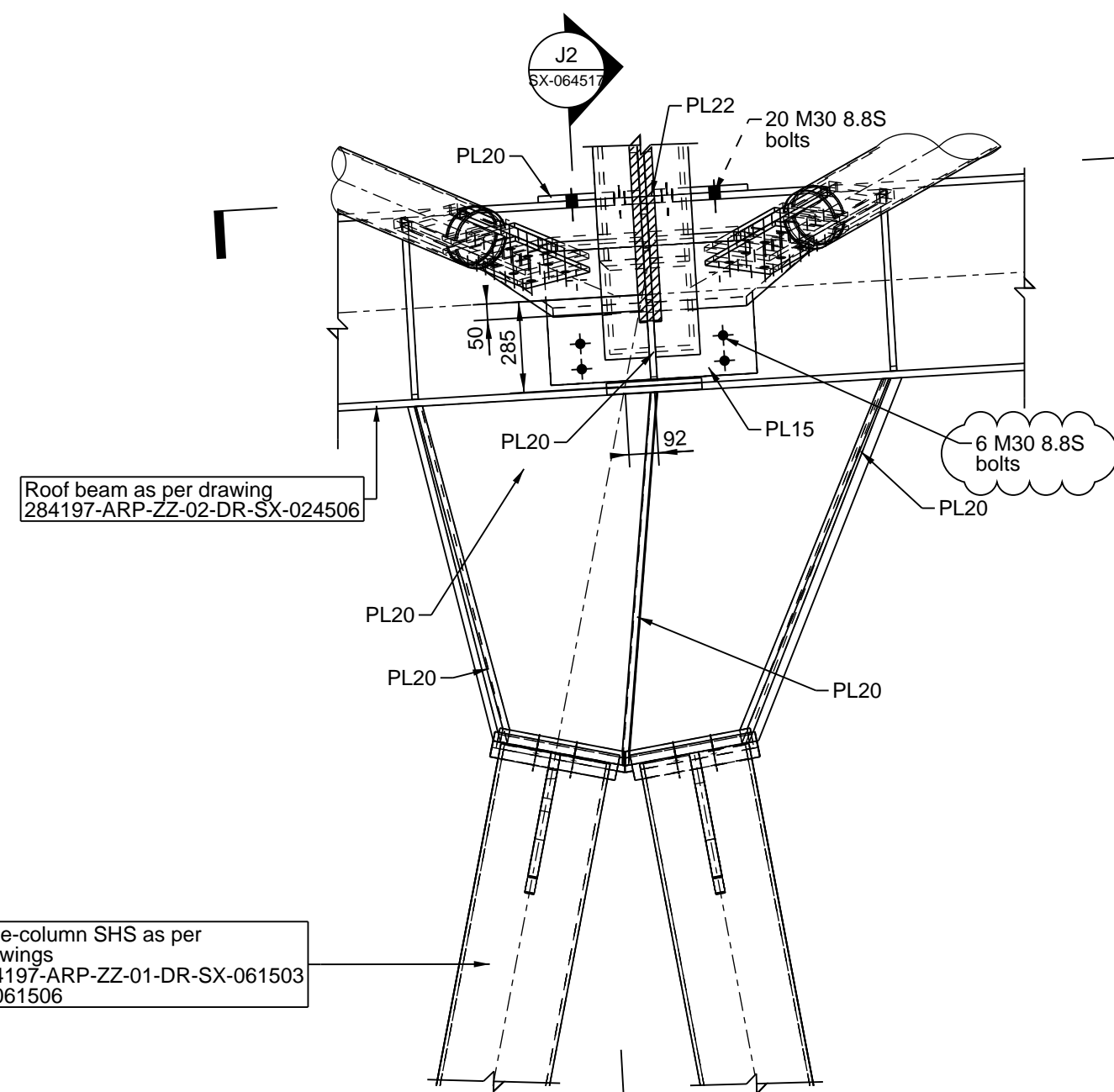
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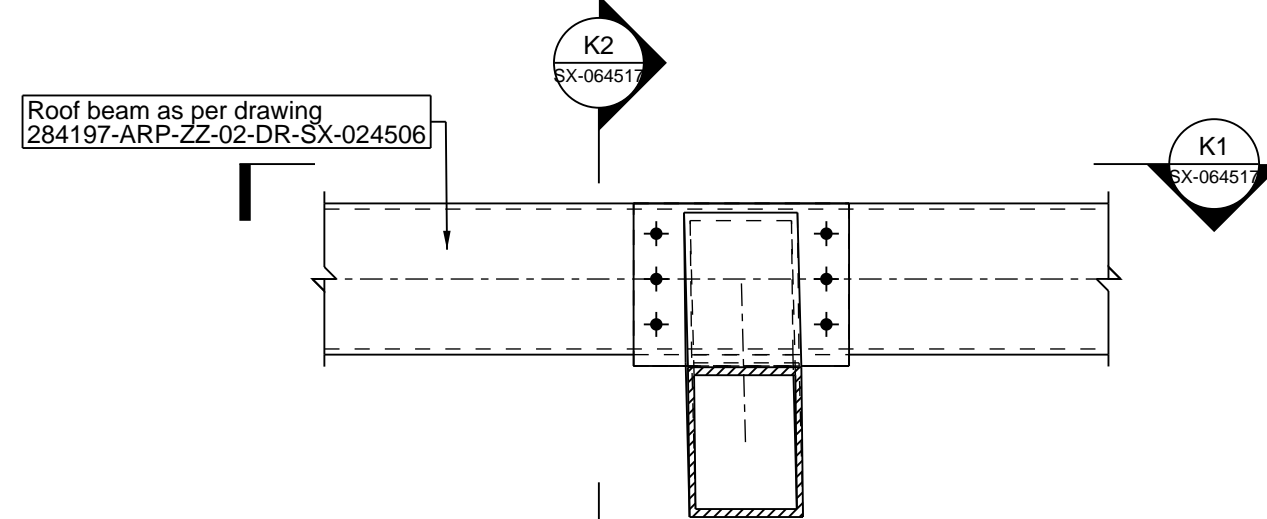
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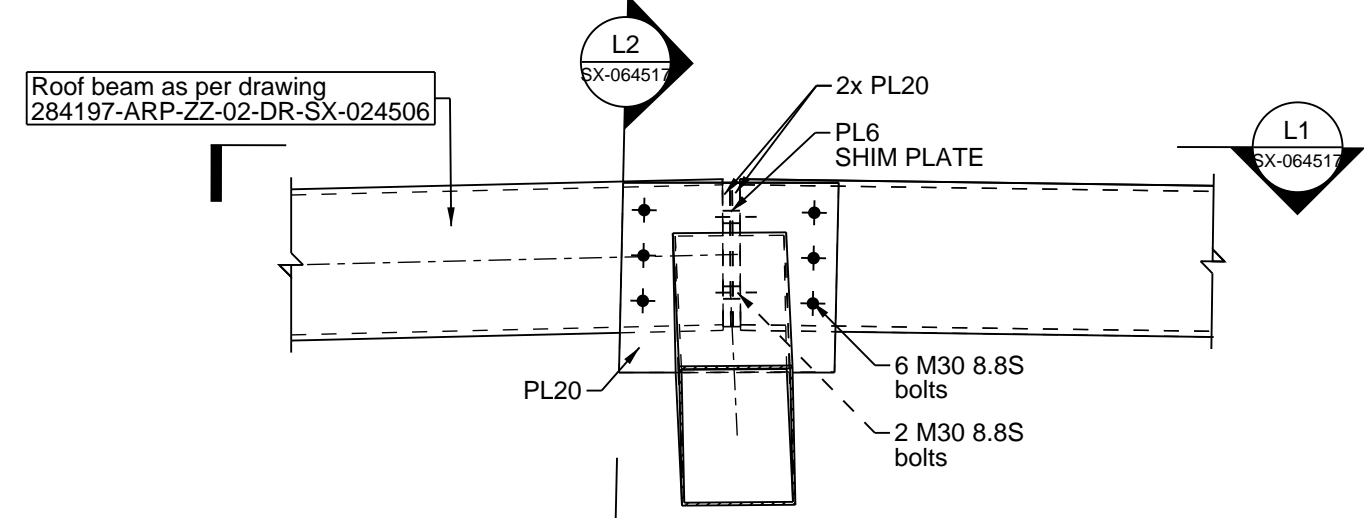
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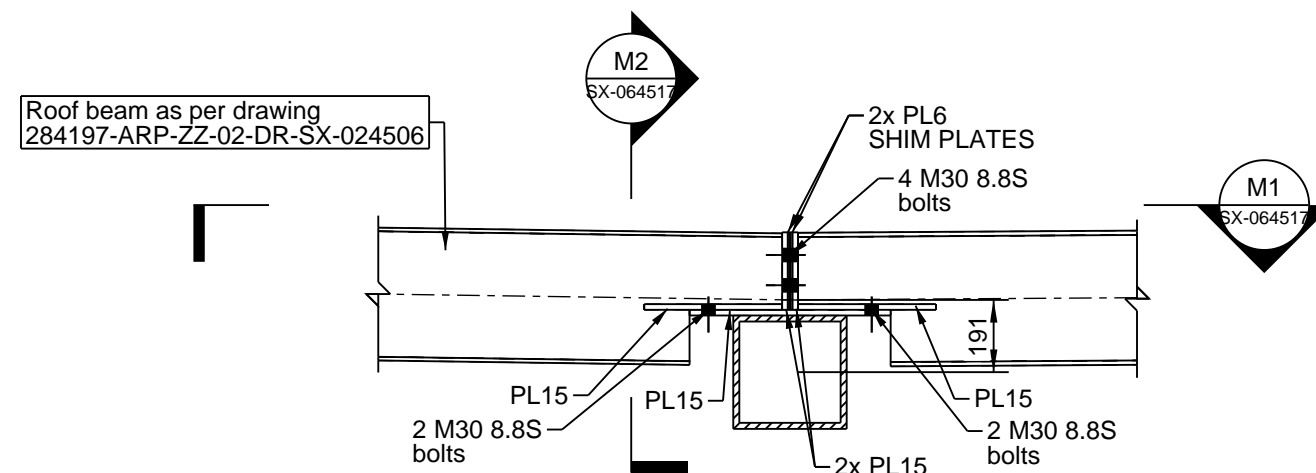
Elevation
Scale 1:20



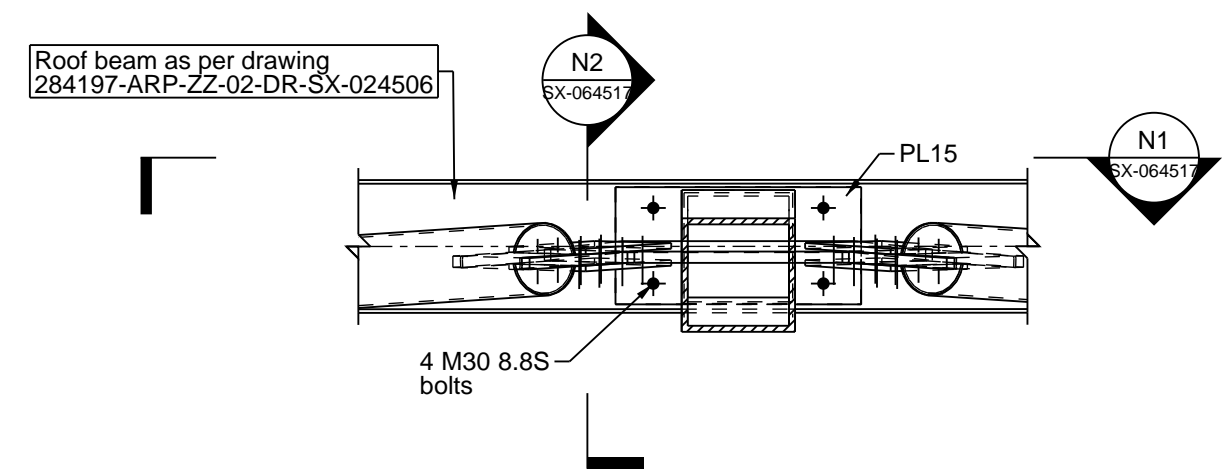
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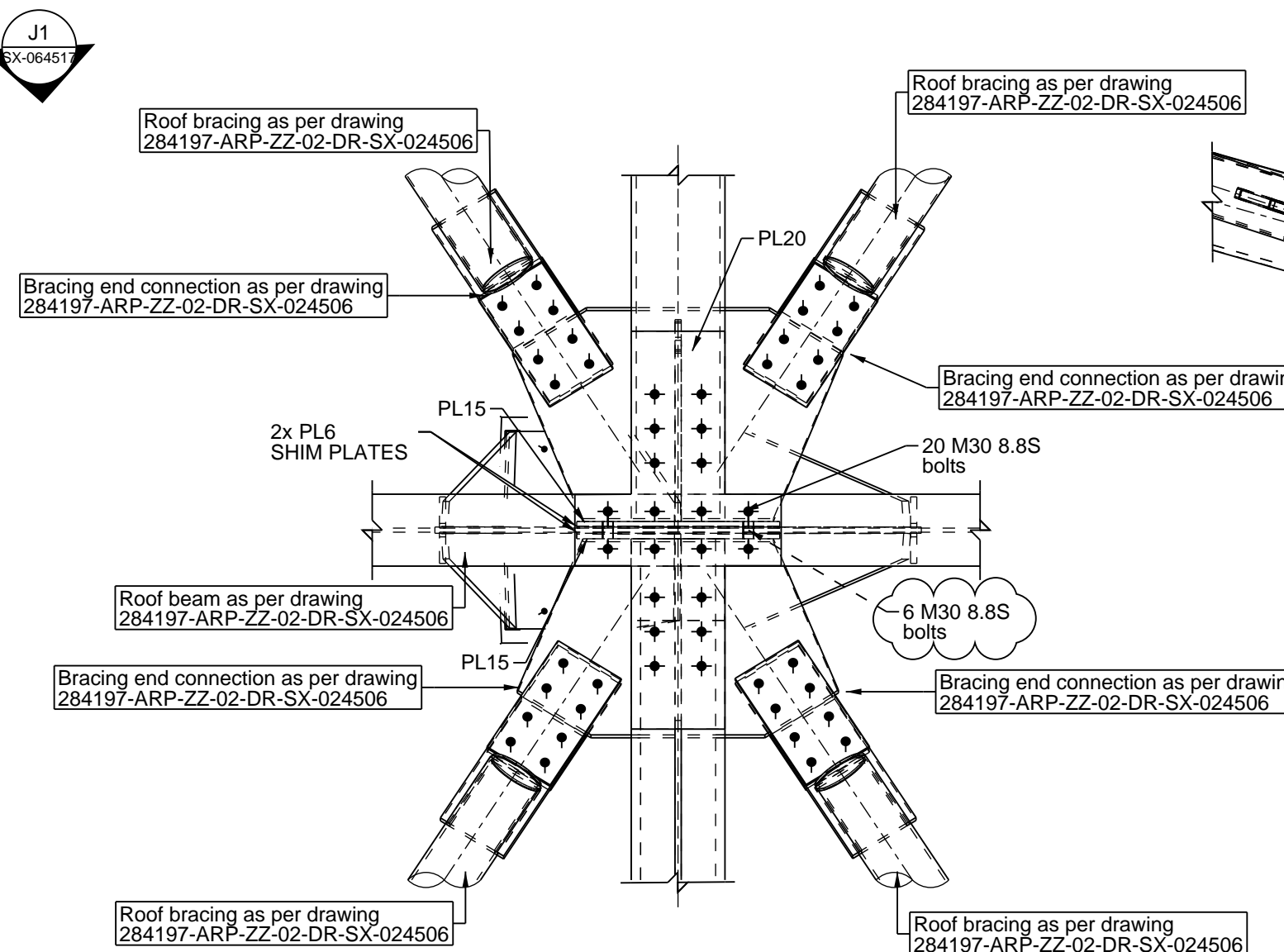
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Scale 1:20



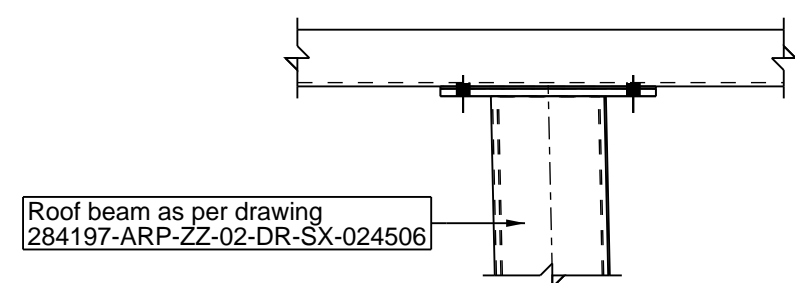
Elevation
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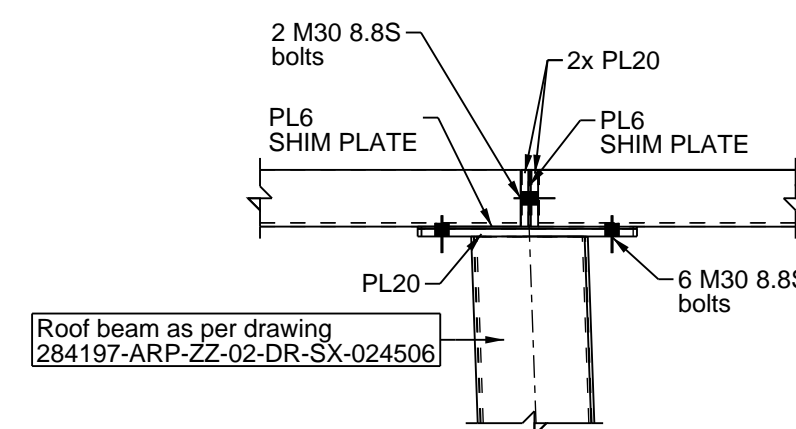
Elevation
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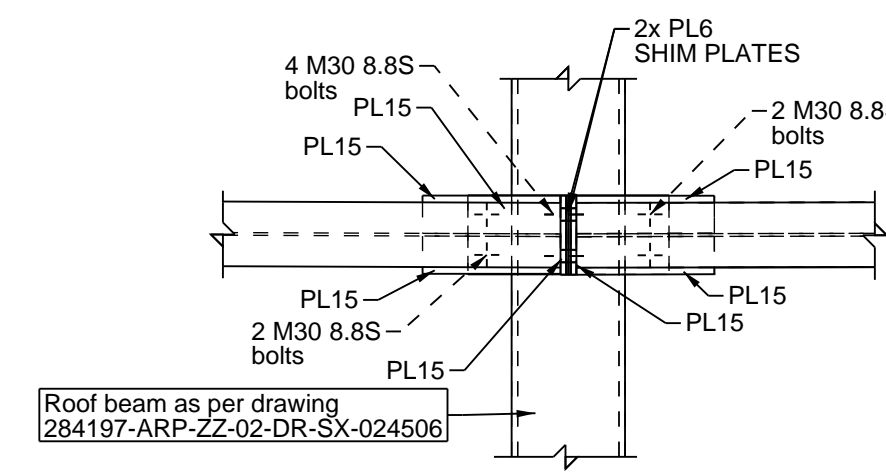
Section J1-J1
Scale 1:20



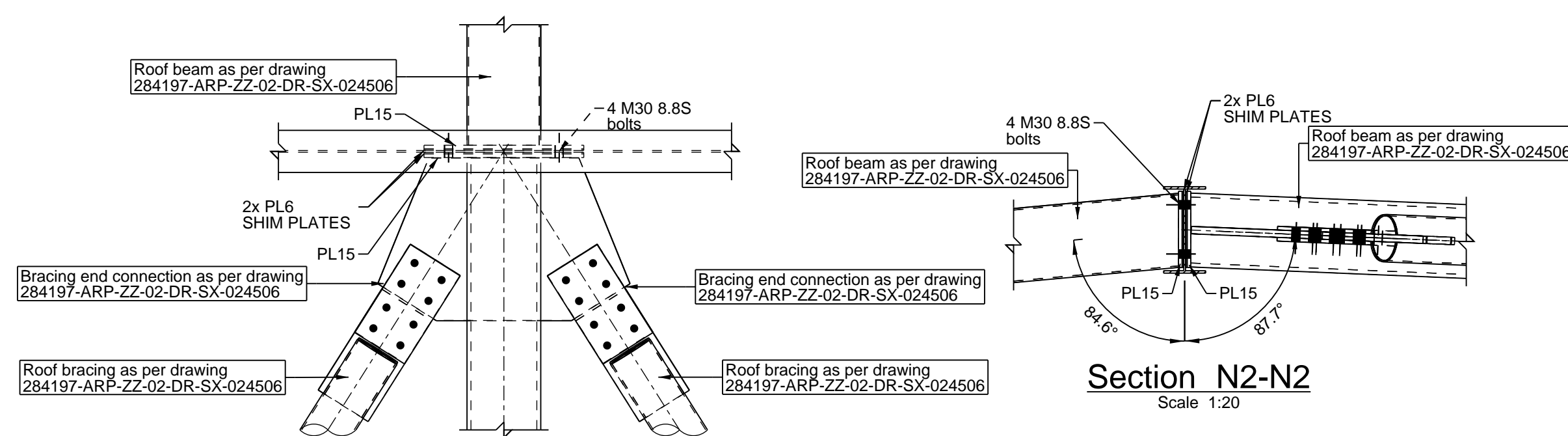
Section K1-K1
Scale 1:20



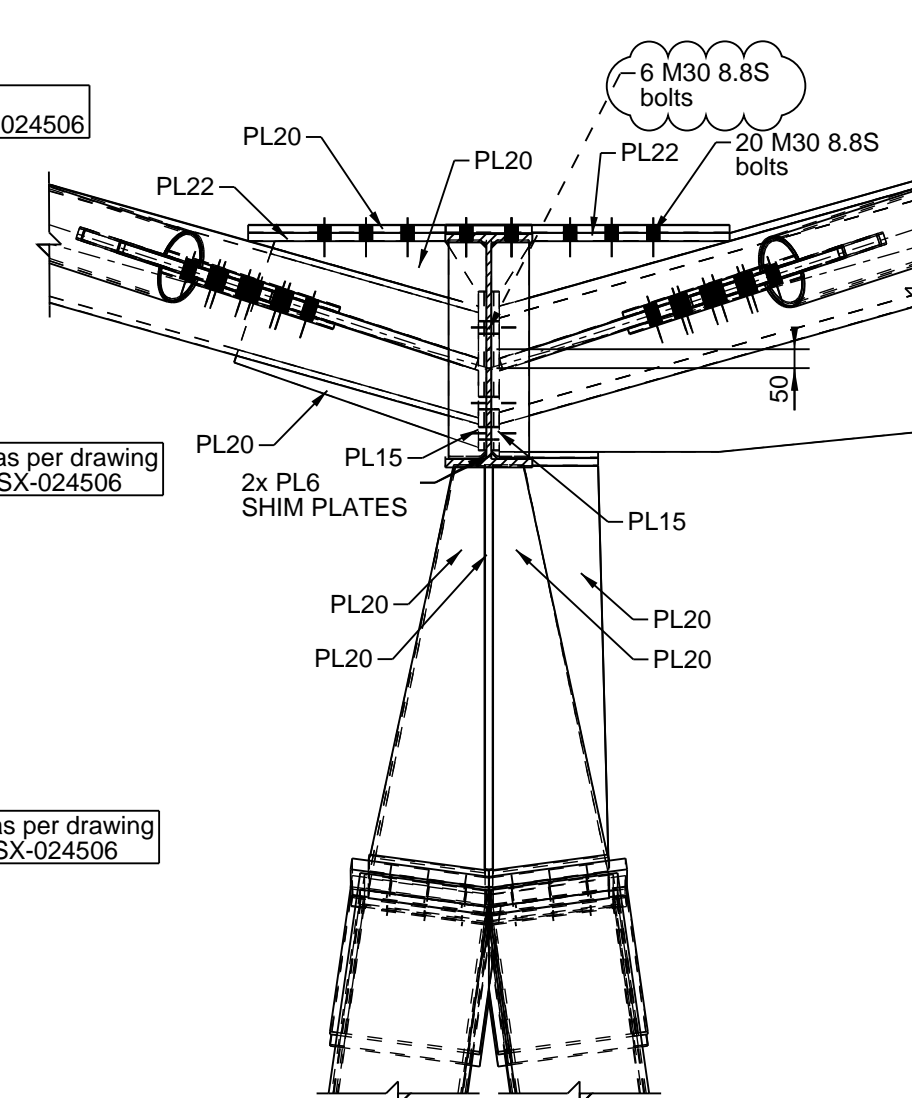
Section L1-L1
Scale 1:20



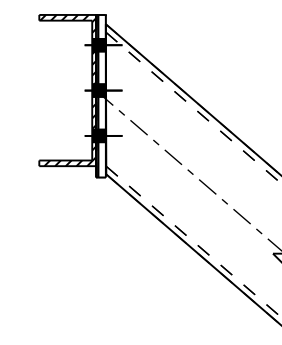
Section M1-M1
Scale 1:20



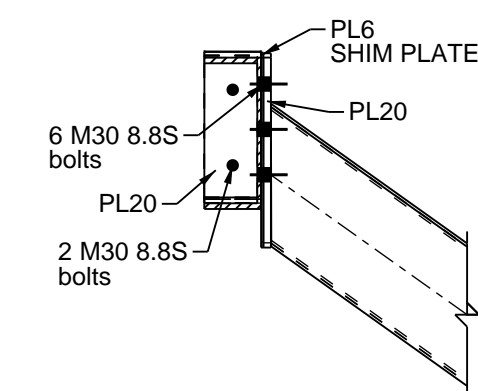
Section N1-N1
Scale 1:20



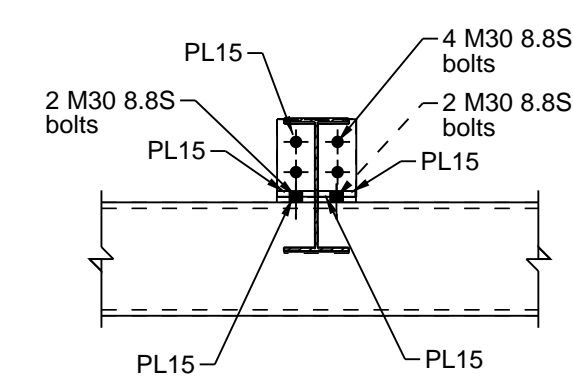
Section J2-J2
Scale 1:20



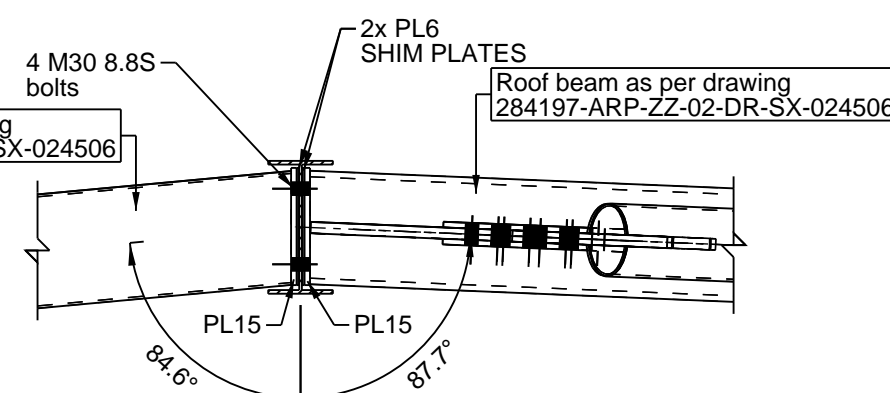
Section K2-K2
Scale 1:20



Section L2-L2
Scale 1:20



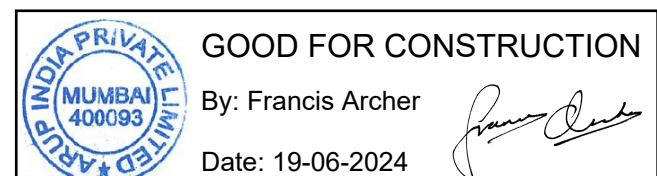
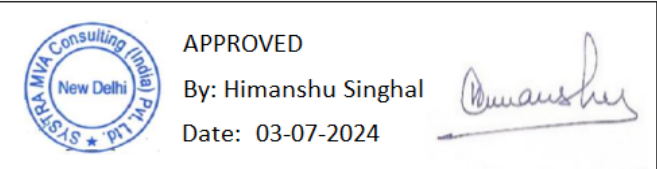
Section M2-M2
Scale 1:20



Section N2-N2
Scale 1:20

Notes:

- Foundation design by others (specialist sub-contractor). Arup's design responsibility stops at the super structure and does not include foundation design.
- All steel to be grade E350 unless noted otherwise.
- Architectural setting out of Safdarjung Station and platforms by others.
- Drawings to be read together with the latest revision of Structural Specification 284197-ARP-ZZ-RP-ZX-000005.
- All dimensions are in millimetres (mm) and all levels are in metres (m), unless noted otherwise.
- No dimensions shall be scaled from this drawing
- Fabrication / shop drawings shall be approved by the Engineer prior to commencing fabrication.



04	19/06/24	Good For Construction
03	20/03/24	Good For Construction
02	09/02/24	Good For Construction
01	14/11/23	For information
Issue	Date	

ARUP

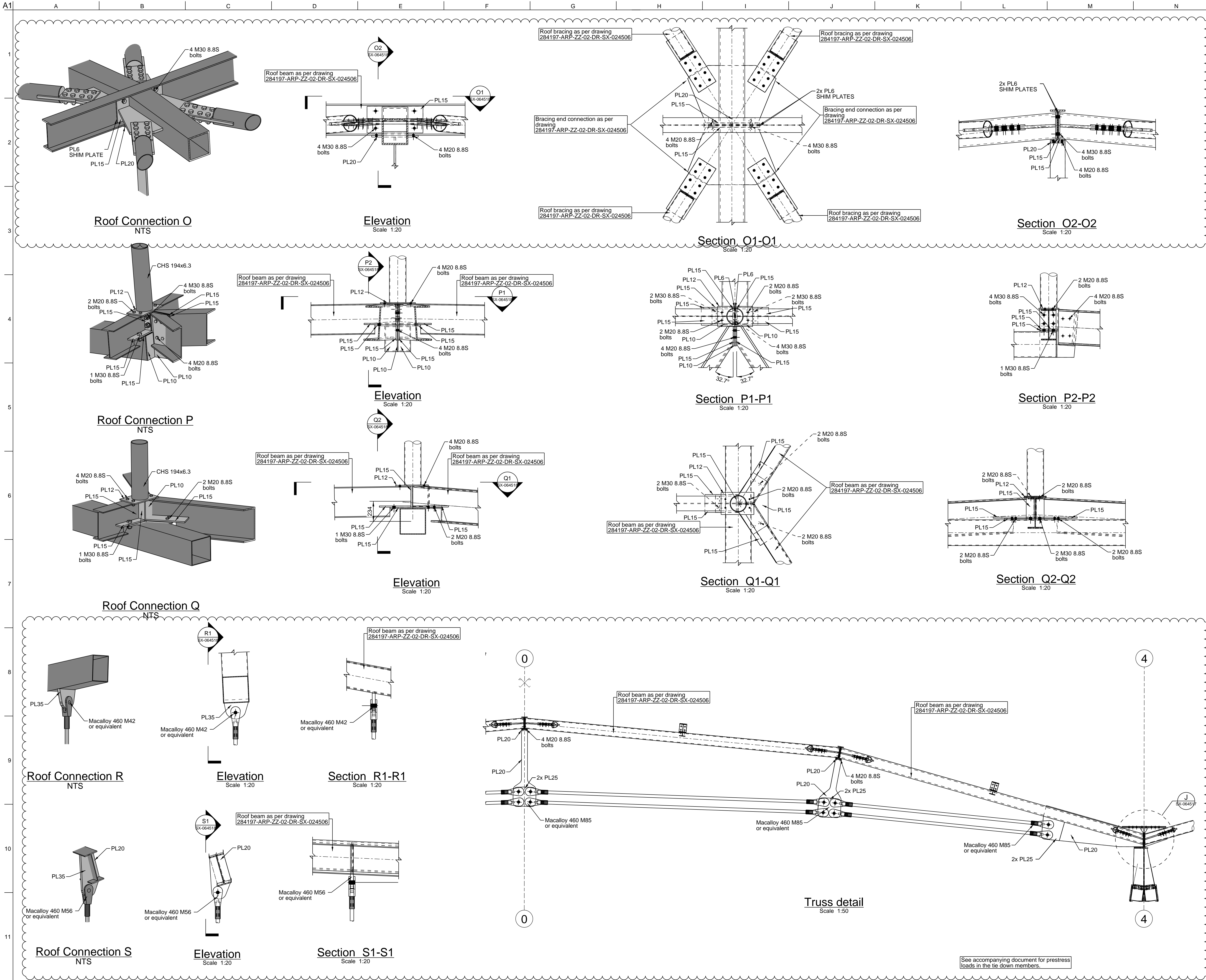
Arup IP Limited
Off Western Express Highway Andheri (East)
5th Floor Jet Prime Suren Road
Mumbai
www.arup.com

Client
**Rail Land Development Authority
Ministry of Railways**

Project Title
**Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Safdarjung Station**

Drawing Title
**Details
Roof Details
Typical connection J,K,L,M,N**

Scale at A1	1:20	By/Chkd/Appd	PB/EB/FA&FB
Role	Structural	Status	S4 - Submission
Arup Job No	284197	Rev	04
ID	284197-ARP-TR-02-DR-SX-064517		



APPROVED
By: Himanshu Singhal
Date: 09-04-2024

GOOD FOR CONSTRUCTION
By: Francis Archer
Date: 20-03-2024

03	20/03/24	Good For Construction
02	09/02/24	Good For Construction
01	14/11/23	For Information
Issue	Date	

ARUP

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Project Title
Innovative Design of Modular
Railway Station Components
in Brownfield Projects
Safdarjung Station

Drawing Title
Details
Roof Details
Typical connection O,P,Q,R,S Truss

Scale at A1	1:20	1:50	By/Chkd/Appd	PB/EB/FA&FB
Role	Structural			
Status	S4 - Submission			
Arup Job No	284197			Rev
ID	284197-ARP-TR-02-DR-SX-064518			03

