

CONCRETE COVER TO REINFORCING STEEL TDC-34

	MINIMUM COVER CAN3-A23.1	COVER FOR FIRE-RESISTANCE RATING			
		1.5h	2h	3h	4h
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	75	75	75	75	75
CONCRETE CAST AGAINST FORMS, BUT EXPOSED TO EARTH OR WEATHER:	40	40	40	40	40
15 BARS, 160 WIRE, AND SMALLER, STIRRUPS, TIES, AND SPIRAL.....					
COLUMN PRINCIPAL REINFORCEMENT.....	50	50	50	65	75
20 TO 55 BARS, AND ALL OTHER BARS.....	50	50	50	50	50
CONCRETE NOT EXPOSED TO WEATHER, OR NOT IN CONTACT WITH GROUND:					
35 BARS AND SMALLER FOR SLABS AND WALLS SEE NOTE #3	20	20	25	35	40
FOR JOISTS.....	20	25	25	40	50
BEAM PRINCIPAL REINFORCEMENT	40	40	40	40	50
COLUMN PRINCIPAL REINFORCEMENT	40	50	50	65	75
STIRRUPS, TIES, SPIRALS, AND ALL OTHER BARS.....	40	40	40	40	40

NOTES:

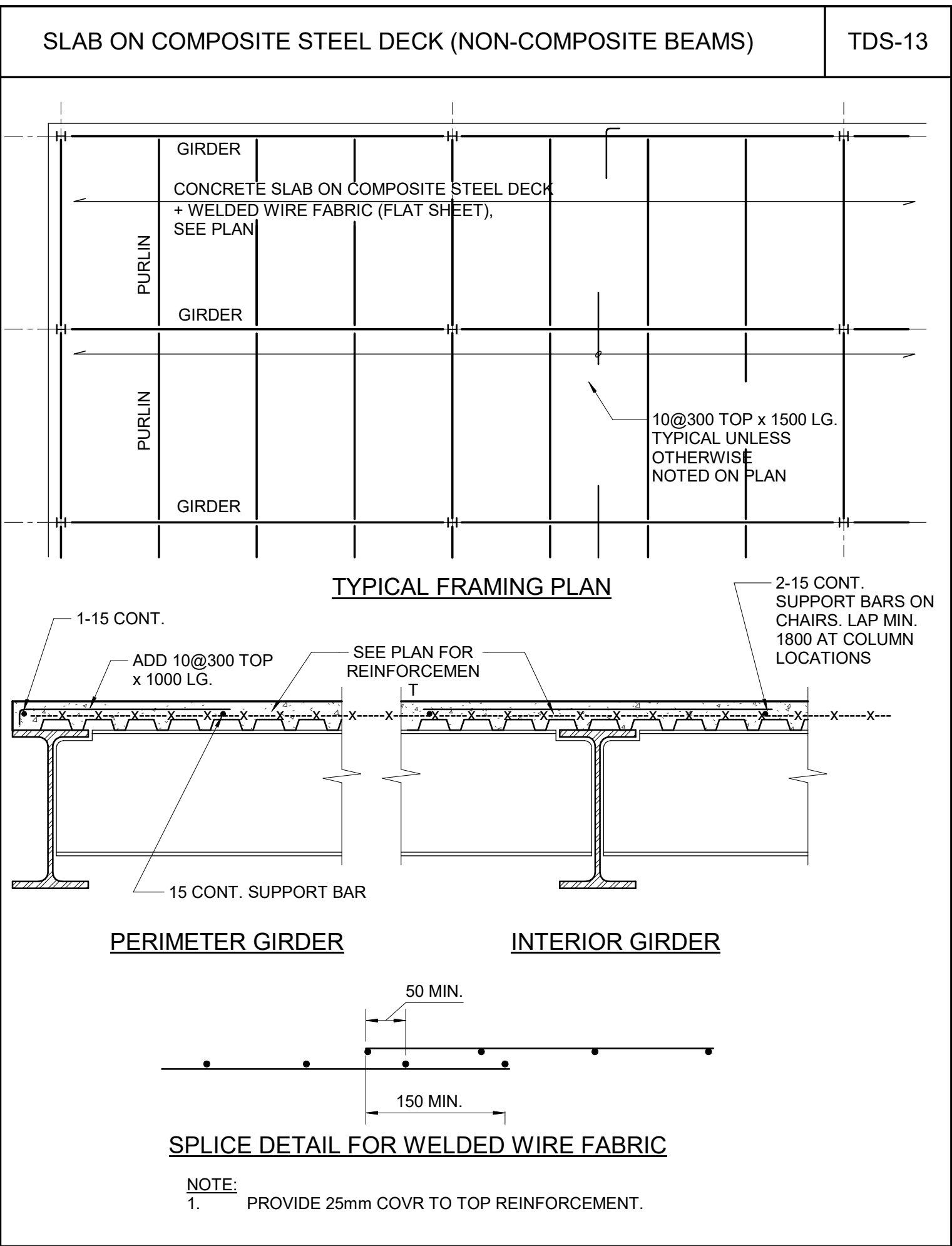
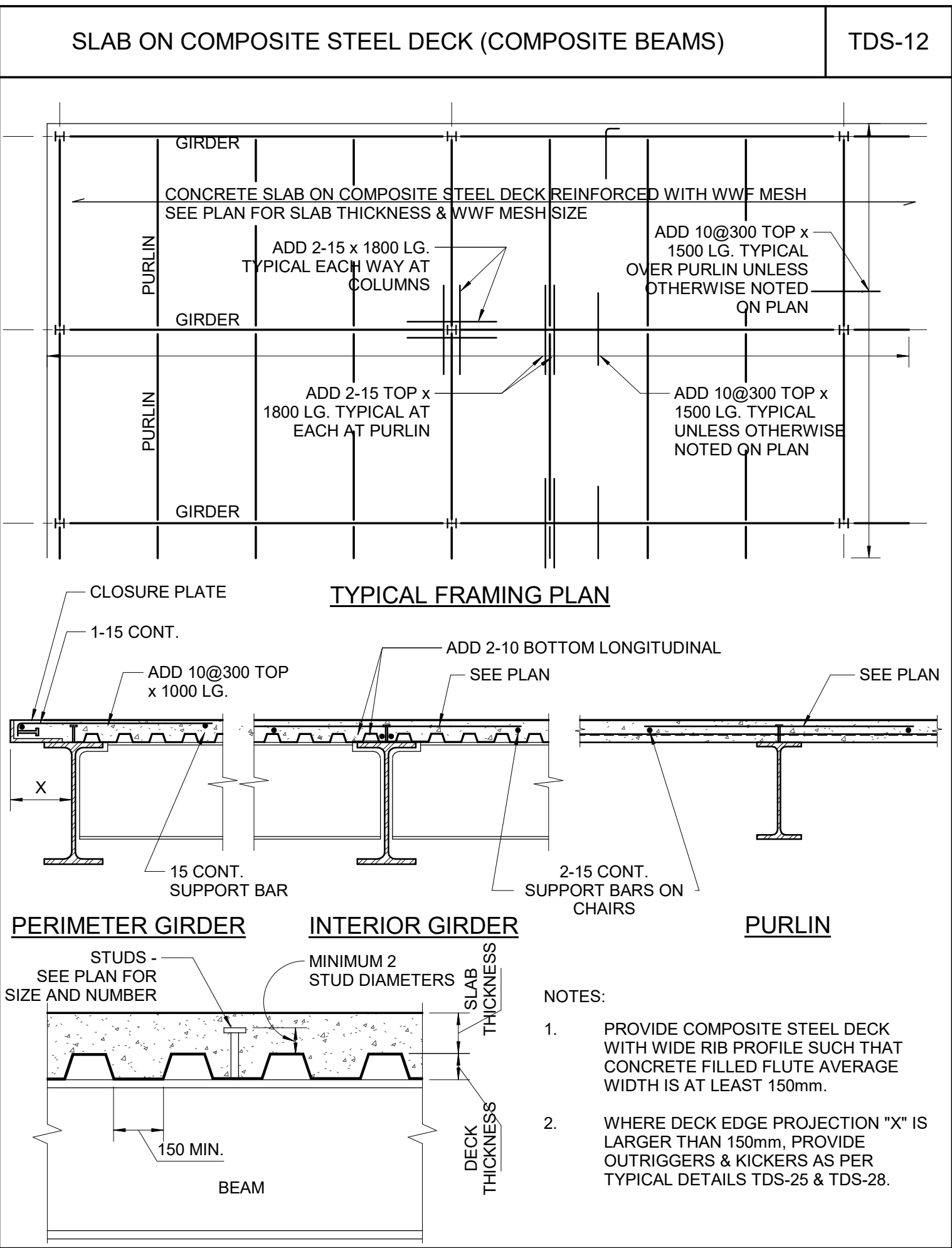
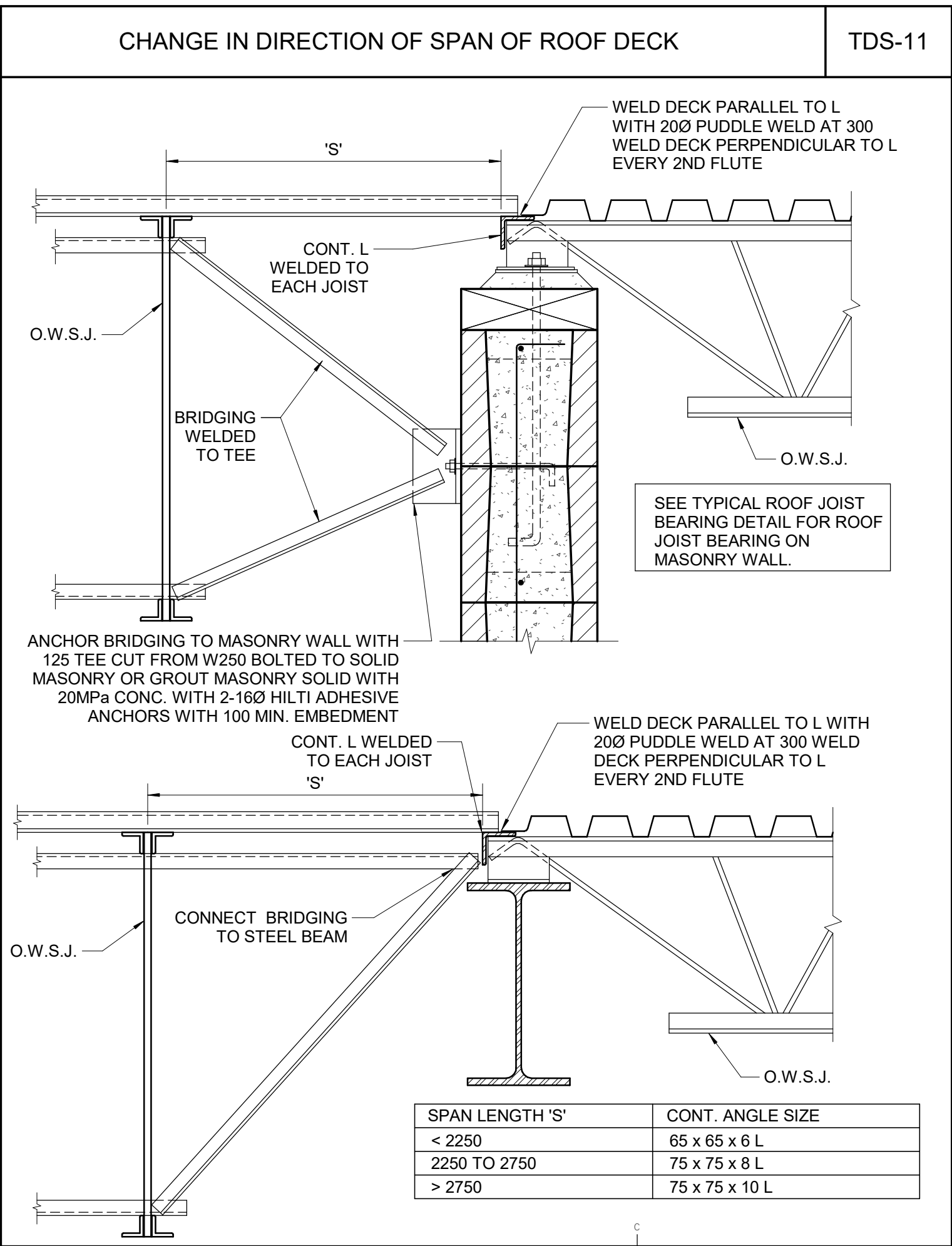
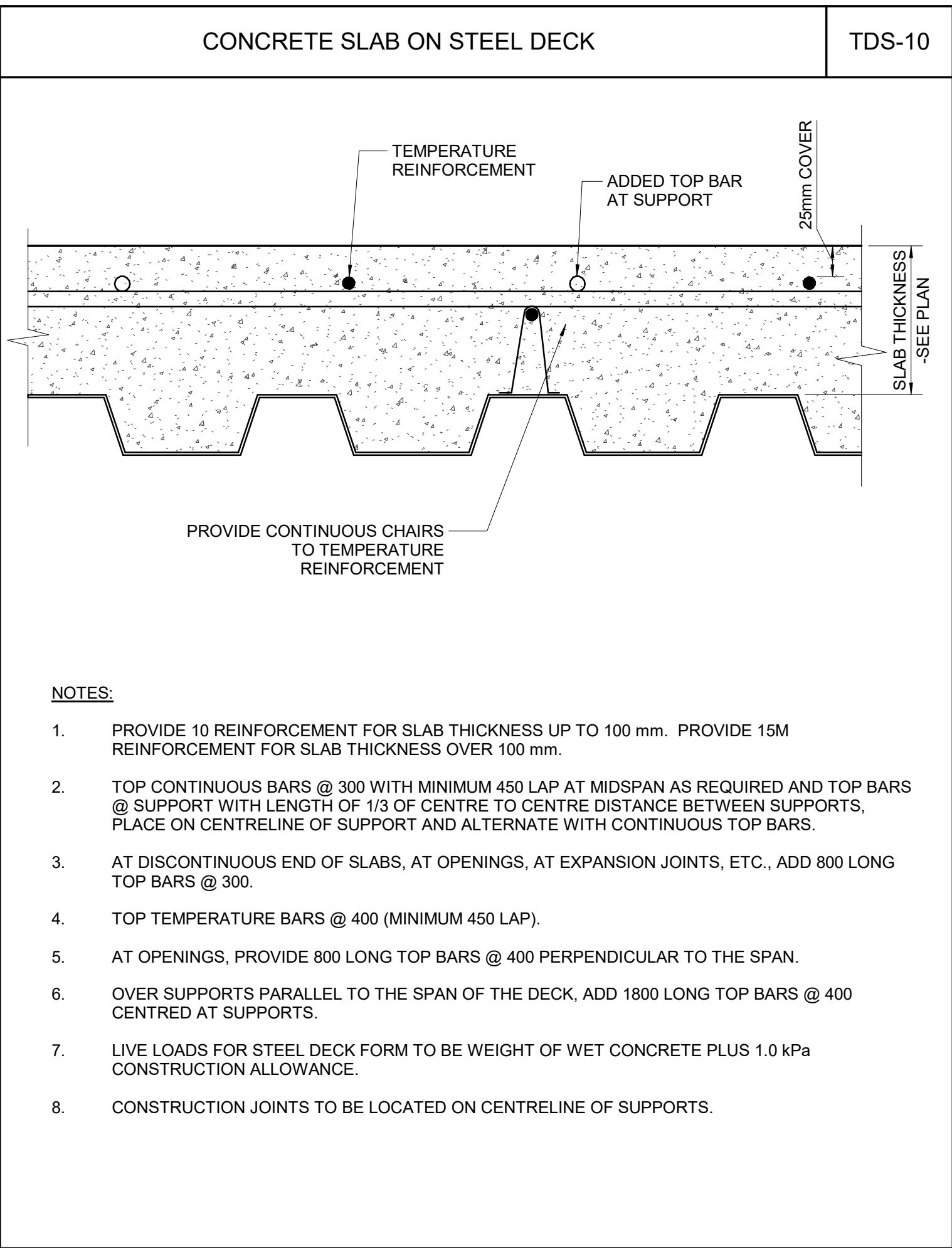
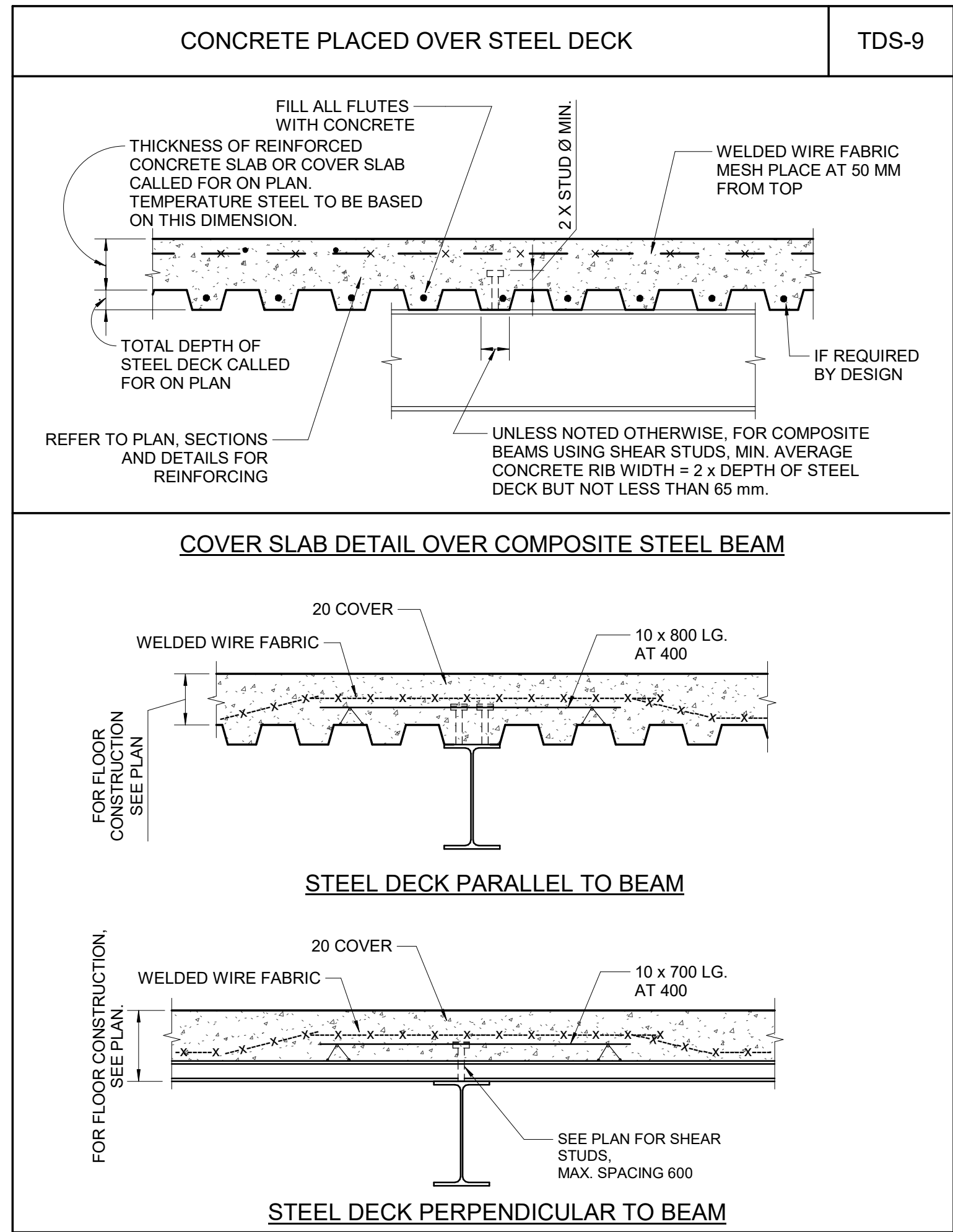
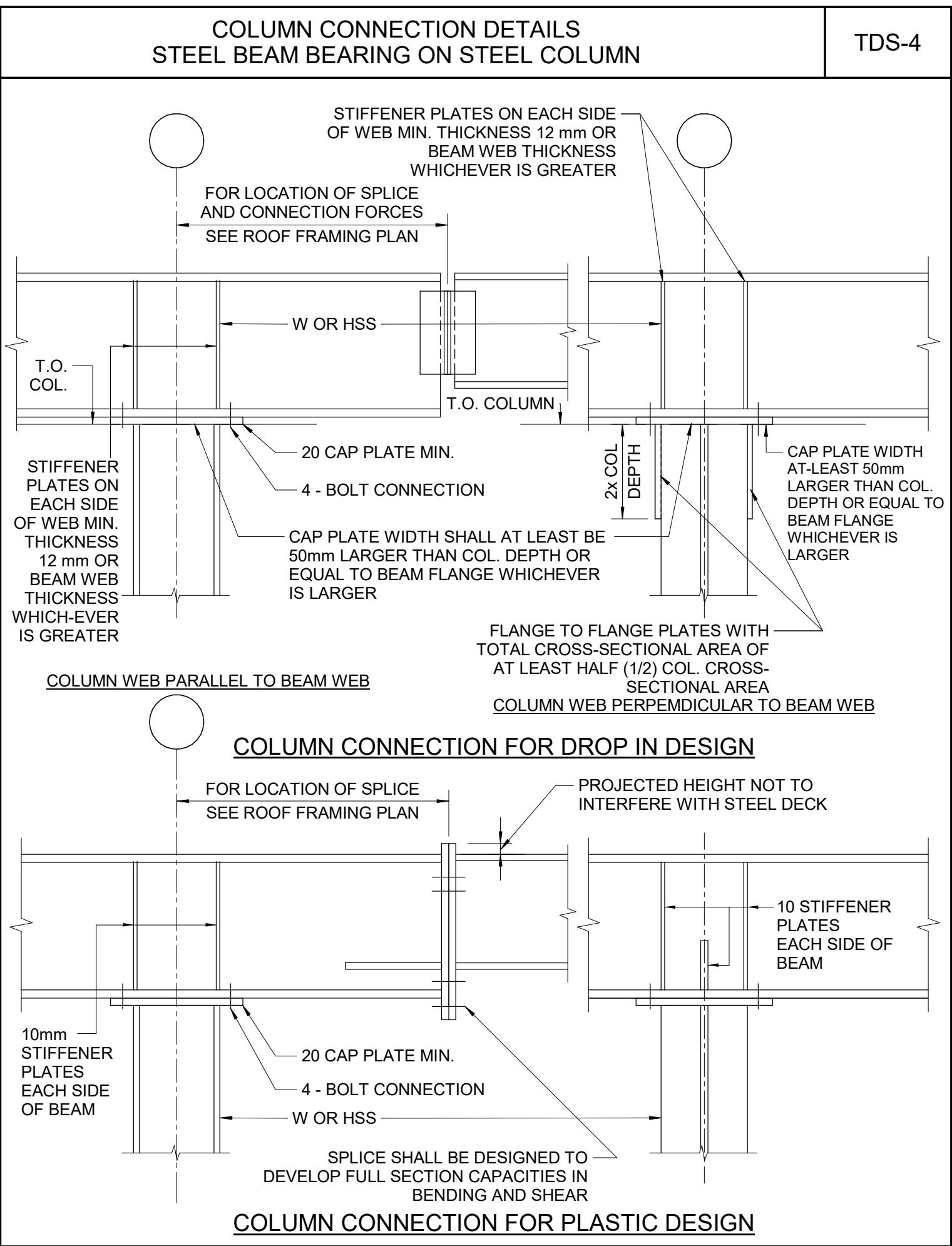
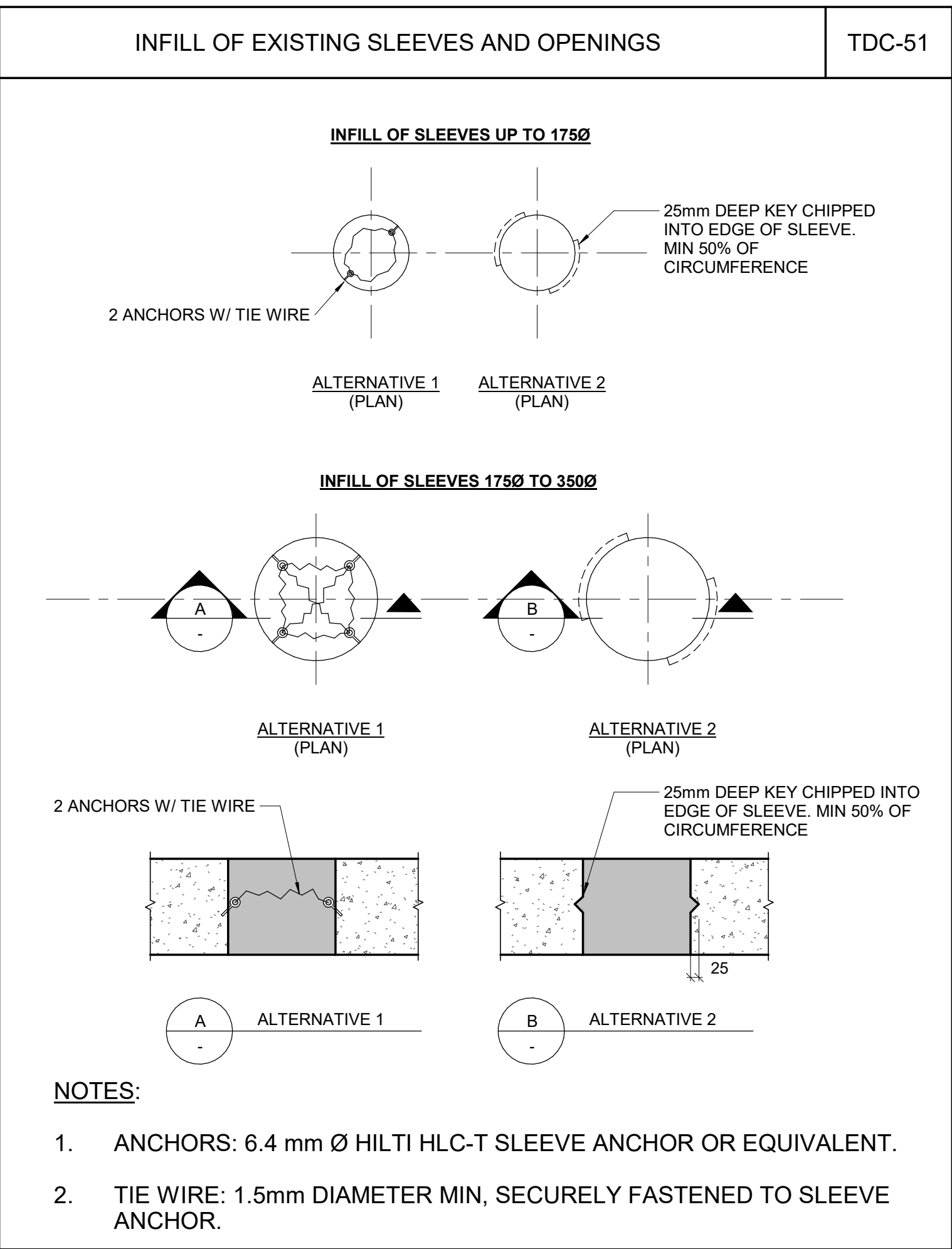
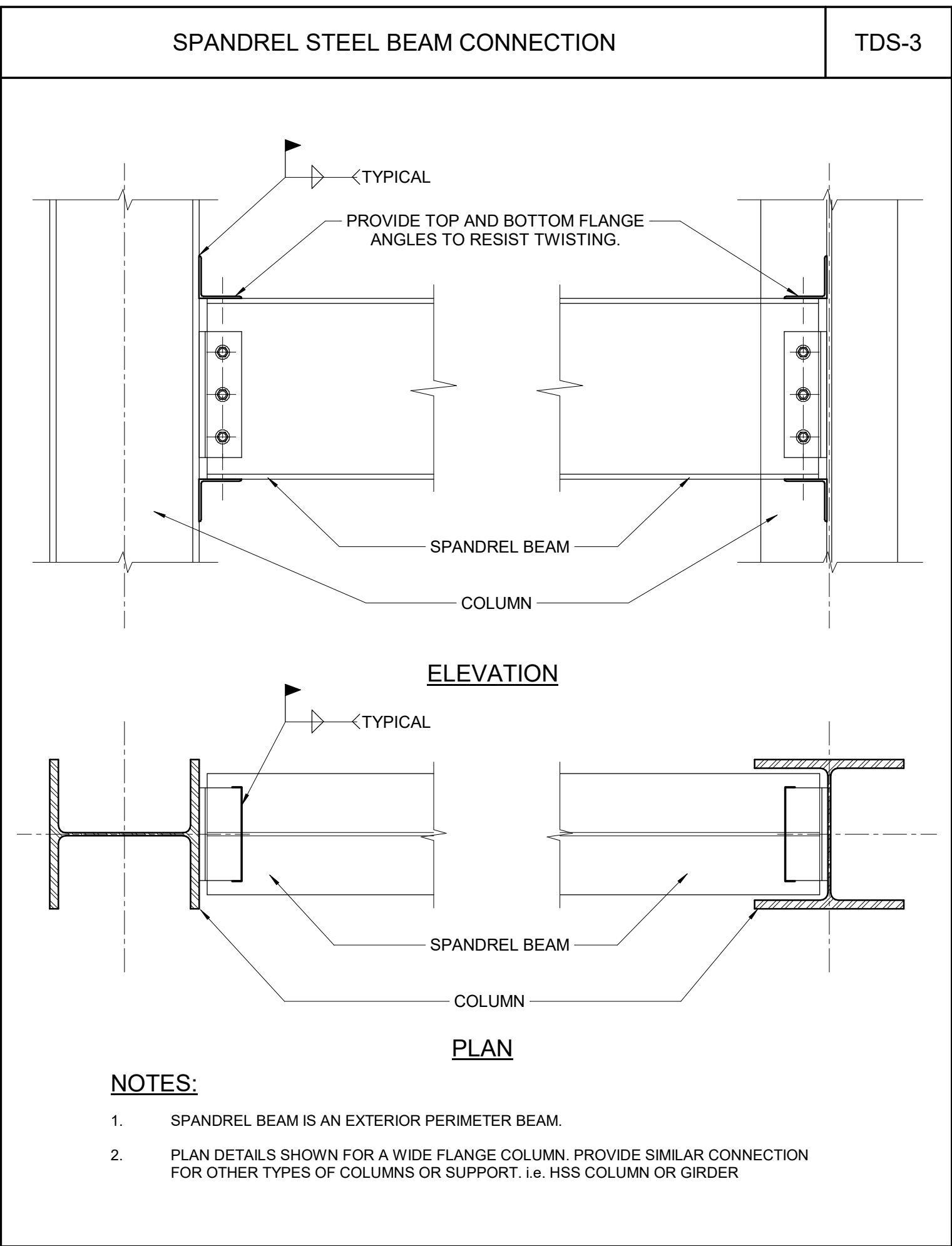
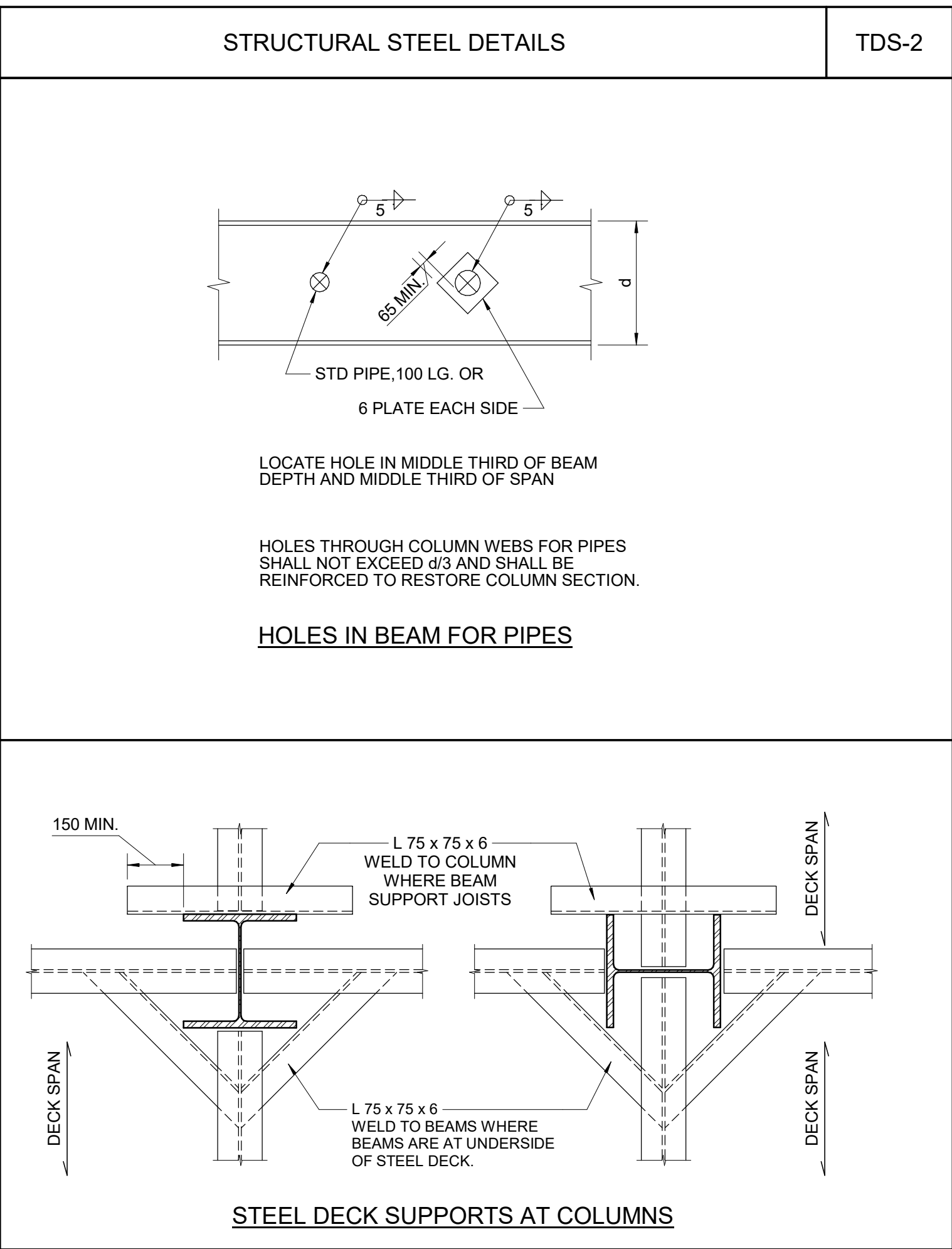
1. FOR CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE, PROVIDE MINIMUM CONCRETE COVER TO REINFORCEMENT ACCORDING TO CAN3-A23.1 UNLESS OTHERWISE NOTED ON DRAWINGS.
2. WHERE THE FIRE-RESISTANCE RATING OF A COLUMN EXCEEDS 2 HOURS, ADD WELDED WIRE MESH, MINIMUM 102 x 102 - MW3.2 x MW3.2, MIDWAY IN CONCRETE COVER.
3. FOR SHORT WALLS WHERE INDICATED ON THE DRAWING, PROVIDE COVER AS FOR COLUMNS.

REINFORCING STEEL BAR AND STANDARD HOOK DIMENSIONS FOR DEFORMED BARS WITH Fy = 400 MPa TDC-39

BAR SIZE	MASS kg/m	DIA. d mm	AREA mm ²	STANDARD HOOK		STIRRUP AND TIE HOOKS (90°)	
				BEND D	A	D	A
				90°	180°		
10M	0.785	11.3	100	70	180	40	100
15M	1.57	16.0	200	100	260	60	140
20M	2.355	19.5	300	120	340	-	-
25M	3.925	25.2	500	150	420	-	-
30M	5.495	29.9	700	250	560	-	-
35M	7.85	35.7	1000	300	660	-	-
45M	11.775	45.7	1500	450	900	-	-
55M	19.625	56.4	2500	600	1140	-	-

STANDARD 90° HOOK

STANDARD 180° HOOK



NORR Architects & Engineers Limited
An Ingenium Group Company

175 Bloor St. East
North Tower, 15th Floor
Toronto, ON Canada M4W 3R8
norrr.com

Key plan

WEST STREET

EAST STREET

project and true North

project legend

THE ASSOCIATION OF PROFESSIONAL ENGINEER OF THE PROVINCE OF PRINCE EDWARD ISLAND
VALID FOR THE YEAR 2022

Faisal Jahangir
No. 2558

DATE: 27-05-2022

LICENSED PROFESSIONAL ENGINEER PROVINCE OF PRINCE EDWARD ISLAND

ISSUED FOR TENDER 2022-05-27

revisions

project DANIEL J MACDONALD MODERNIZATION

161 GRAFTON STREET CHARLOTTETOWN, PEI, C1A 1L1

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Tender Submission

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