

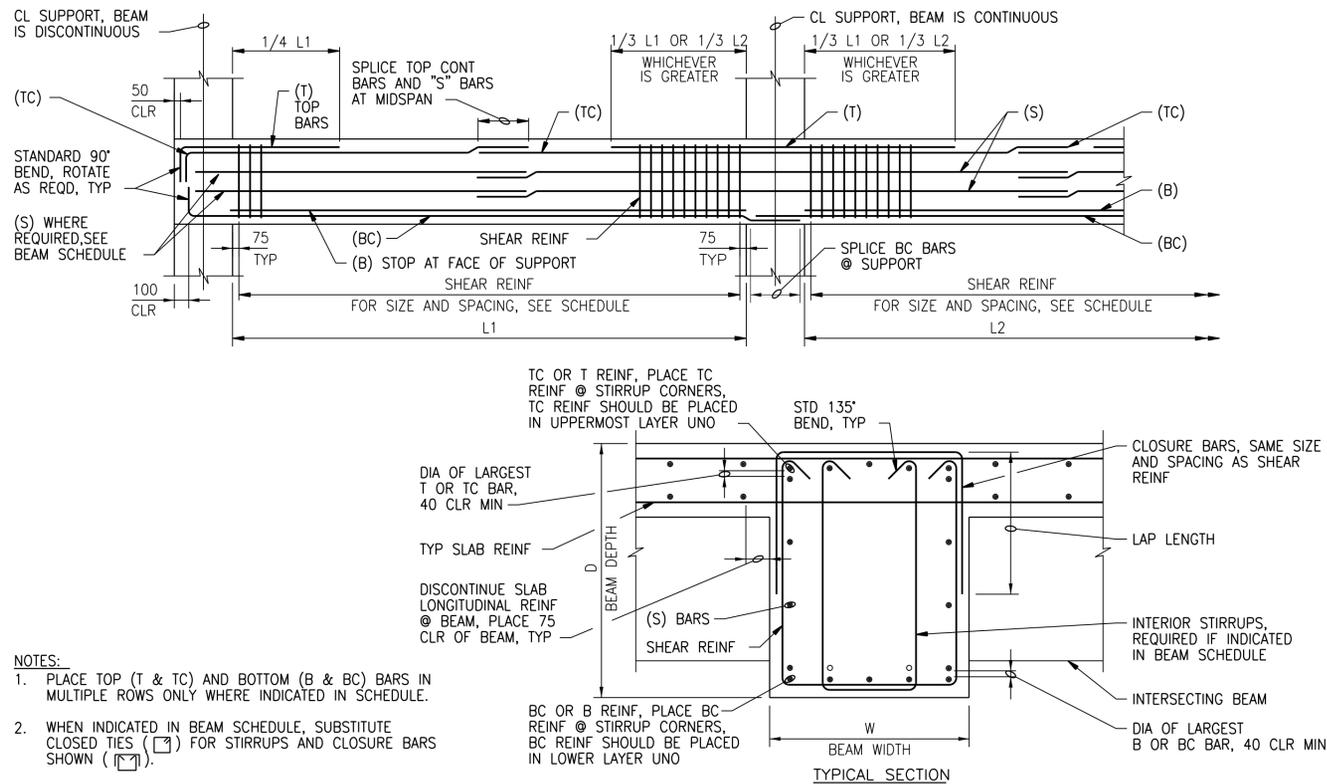
BEAM NO. (SEE PLANS)	SIZE		* TOP REINF AT LEFT SUPPORT		BOTTOM REINF		* TOP REINF AT RIGHT SUPPORT		S BARS	SHEAR REINF			REMARKS	
	W	D	T	TC	B	BC	T	TC		NO. (NOTE 5)	SIZE	TYPE		SPACING FROM LEFT SUPPORT
BM1	400	600	-	4-25M	-	4-25M	-	4-25M	-	1	10M	STIRRUP	@ 250	PROVIDE MATCHING DOWELS FROM WALL
BM2	300	500	-	3-25M	-	3-25M	-	3-25M	-	2	10M	STIRRUP	@ 250	
BM3	300	500	-	3-25M	-	3-25M	-	3-25M	-	2	10M	STIRRUP	@ 250	
BM4	300	600	-	3-20M	-	3-20M	-	3-20M	-	1	10M	STIRRUP	@ 300	
GBM1	800	2300	-	4-25M	-	4-25M	-	4-25M	2x6-20M	2	10M	STIRRUP	@ 300	
GBM1a	800	2300	-	6-25M	-	6-25M	-	6-25M	2x6-20M	2	10M	STIRRUP	@ 300	CLOSE STIRRUPS ABOVE AND BELOW OPENING, SEE DETAIL #2/SDTL-R006
GBM2	800	800	-	4-25M	2-25M	4-25M	-	4-25M	2x3-20M	2	10M	STIRRUP	@ 300	DEPTH INCREASES OVER CONCRETE AIR SHAFT, SEE DETAILS ON DRAWING SDTL-R003

NOTES:

- * TOP REINFORCING MAY BE CALLED-OUT TWICE IN SCHEDULE. (I.E. "TOP REINFORCING AT RIGHT SUPPORT" OF BEAM THAT IS CONTINUOUS OVER THE RIGHT SUPPORT IS CALLED-OUT AS "TOP REINFORCING AT LEFT SUPPORT" OF ADJACENT BEAM.)
- LEFT SUPPORT IS DESIGNATED AS THE SUPPORT CLOSEST TO THE LEFT SIDE OR BOTTOM OF SHEET ON WHICH FRAMING PLAN IS DRAWN, UNLESS NOTED OTHERWISE ON PLAN.
- WHERE FLOOR SLOPES, DEPTH OF BEAM (D) SHOWN IS MINIMUM DEPTH. BOTTOM ELEVATION OF BEAM SHALL BE CONSTANT, UNLESS INDICATED OTHERWISE.
- WHERE SHEAR REINFORCING "TYPE" IS INDICATED AS "STIRRUP", PROVIDE SHEAR REINFORCING AND CLOSURES AS SHOWN IN BEAM REINFORCING DETAIL. WHERE SHEAR REINFORCING "TYPE" IS INDICATED AS "CLOSED TIE", PROVIDE CLOSED TIES IN LIEU OF STIRRUPS AND CLOSURE BARS.
- "NO." INDICATES NUMBER OF STIRRUPS OR TIES PER SET.

BEAM SCHEDULE

NTS



NOTES:

- PLACE TOP (T & TC) AND BOTTOM (B & BC) BARS IN MULTIPLE ROWS ONLY WHERE INDICATED IN SCHEDULE.
- WHEN INDICATED IN BEAM SCHEDULE, SUBSTITUTE CLOSED TIES (T) FOR STIRRUPS AND CLOSURE BARS SHOWN (S).
- PROVIDE MINIMUM 1 - 15M CONTINUOUS AT EACH CORNER OF STIRRUPS.

BEAM REINFORCING

NTS



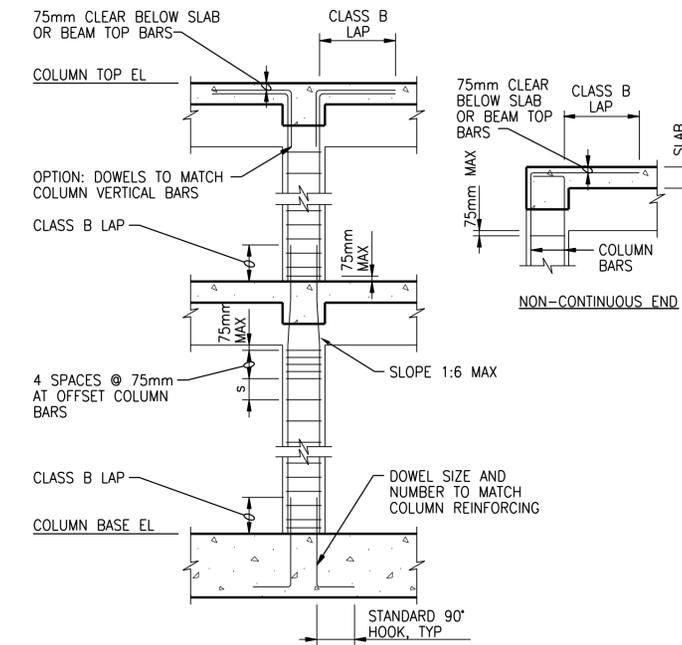
COLUMN REINFORCING	SIZE (mm)		VERTICAL REINFORCING (NUMBER-SIZE)	TRAVERSE REINFORCING		CROSS-SECTION	REMARKS
	W	D		SIZE	S		
C1	400	900	8-25M	10M	300		
C2	500	400	6-20M	10M	300		
C3	300	1200	8-25M	10M	300		
C4	300	400	4-25M	10M	300		
C5	300	900	6-25M	10M	300		
C6	300	675	6-25M	10M	300		

NOTES:

- "W" = DIMENSION IN EAST/WEST DIRECTION.
- "D" = DIMENSION IN NORTH/SOUTH DIRECTION.
- "S" = SPACING, SEE DETAIL BELOW.

COLUMN REINFORCING SCHEDULE

NTS



NOTES:

- FOR COLUMN DIMENSIONS AND REINFORCING SEE COLUMN SCHEDULE.
- "s" = TIE SPACING.
- FOR BEAM DIMENSIONS AND REINFORCING SEE BEAM SCHEDULE.

COLUMN REINFORCING

NTS

SNC-LAVALIN DESIGNED BY: J. THANNICKAL DRAWN BY: C. RYNARD SCALE: NTS DATE: 2016/01/29		CHECKED BY: E. LUI APPROVED BY: H.T. FREIHAMMER ISSUED FOR CONSTRUCTION BY: T. TURZAK DATE: 2016/01/29		ENGINEER'S SEAL S.L.E. LUI Member 37003 REGISTERED PROFESSIONAL ENGINEER		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT SOUTH END WATER POLLUTION CONTROL CENTRE SEWPCC UPGRADING/EXPANSION PROJECT STRUCTURAL BIOREACTORS/BLOWER BUILDING COLUMN AND BEAM SCHEDULE	
00 ISSUED FOR TENDER - B.O. 899-2015 NO. REVISIONS		01/2016 DATE		C.R. J.C. DESIGN CHECK		CONSULTANT NO.: 474248	
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