

SENEKAL BEP BENDING SCHEDULE

Pump Station 1

STRUCTURE: BEAMS (GB1), (GB2)												
MARK	TYPE & DIA	ND. PER UNIT	TOTAL NO.	LENGTH (mm)	TOTAL LENGTH	MASS (tons)	SHAPE CODE	A	B	C	D	E/R
01	Y12	2	4	2250	9000	0.008	35	1950				
02	Y12	2	4	2250	9000	0.008	35	1950				
03	R8	8	16	1500	24000	0.0095	60	450	250			
STRUCTURE: BEAMS (GB3) (A3)												
MARK	TYPE & DIA	ND. PER UNIT	TOTAL NO.	LENGTH (mm)	TOTAL LENGTH	MASS (tons)	SHAPE CODE	A	B	C	D	E/R
04	Y12	2	2	3250	6500	0.0058	35	1950				
05	Y12	2	2	3250	6500	0.0058	35	1950				
06	R8	13	13	1500	19500	0.0077	60	450	250			
MESH REF. 193 - 5.75m ²						0.0110						
TOTAL MASS (tons) OF STEEL						0.0558						

Pump Station 2

STRUCTURE: BEAMS (GB1), (GB2)												
MARK	TYPE & DIA	ND. PER UNIT	TOTAL NO.	LENGTH (mm)	TOTAL LENGTH	MASS (tons)	SHAPE CODE	A	B	C	D	E/R
01	Y12	2	4	2250	9000	0.008	35	1950				
02	Y12	2	4	2250	9000	0.008	35	1950				
03	R8	8	16	1500	24000	0.0095	60	450	250			
STRUCTURE: BEAMS (GB3) (A3)												
MARK	TYPE & DIA	ND. PER UNIT	TOTAL NO.	LENGTH (mm)	TOTAL LENGTH	MASS (tons)	SHAPE CODE	A	B	C	D	E/R
04	Y12	2	2	3250	6500	0.0058	35	1950				
05	Y12	2	2	3250	6500	0.0058	35	1950				
06	R8	13	13	1500	19500	0.0077	60	450	250			
MESH REF. 193 - 5.75m ²						0.0110						
TOTAL MASS (tons) OF STEEL						0.0558						

Pump Station 3

STRUCTURE: BEAMS (GB1), (GB2)												
MARK	TYPE & DIA	ND. PER UNIT	TOTAL NO.	LENGTH (mm)	TOTAL LENGTH	MASS (tons)	SHAPE CODE	A	B	C	D	E/R
01	Y12	2	4	2250	9000	0.008	35	1950				
02	Y12	2	4	2250	9000	0.008	35	1950				
03	R8	8	16	1500	24000	0.0095	60	450	250			
STRUCTURE: BEAMS (GB3) (A3)												
MARK	TYPE & DIA	ND. PER UNIT	TOTAL NO.	LENGTH (mm)	TOTAL LENGTH	MASS (tons)	SHAPE CODE	A	B	C	D	E/R
04	Y12	2	2	3250	6500	0.0058	35	1950				
05	Y12	2	2	3250	6500	0.0058	35	1950				
06	R8	13	13	1500	19500	0.0077	60	450	250			
MESH REF. 193 - 5.75m ²						0.0110						
TOTAL MASS (tons) OF STEEL						0.0558						



RESIDENT ENGINEER

DATE: 07-11-2019

SENEKAL BEP BENDING SHEDULE

Pump Station 2

BENDING SCHEDULE										
STRUCTURE: BEAMS (GB1), (GB2), (GB3), (GB4)										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	01	2	8	4900	35	39200	4600	150		
Y12	02	2	8	4900	35	39200	4600	150		
R8	03	15	60	1500	60	90000	450	250		
STRUCTURE: BEAM (GB5), (GB6), (GB7)										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	04	2	6	6350	35	38100	6050	150		
Y12	05	2	6	6350	35	38100	6050	150		
R8	06	22	66	1500	60	99000	450	250		
STEEL LAYOUT AS ABOVE										
STRUCTURE: RING BEAM 1										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	07	2	2	4900	35	9800	4600			
Y12	08	2	2	4900	35	9800	4600			
Y12	09	2	2	2950	35	5900	2650			
R8	10	15	15	2200	60	33000				
Y12	11	2	2	1650	35	3300	1350			
STRUCTURE: RING BEAM 2										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	12	2	2	4900	35	9800	4600			
Y12	13	2	2	4900	35	9800	4600			
R8	14	15	15	1000	60	15000	280	160		
STRUCTURE: PUMP PLINTHS										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	15	5	15	1450	35	21750	1150			
Y12	16	5	15	1450	35	21750	1150			
R8	17	5	15	950	83	14250	250	250	100	100
Y12	18	7	27	1100	35	23100	800			
Y12	19	7	21	1100	35	23100	800			

Structure Floor Slab - Mesh REF No. 245 - 30m²

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SENEKAL BEP BENDING SCHEDULE

Pump Station 3

BENDING SCHEDULE										
STRUCTURE: BEAMS (GB1), (GB2), (GB3), (GB4)										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	01	2	8	4900	35	39200	4600	150		
Y12	02	2	8	4900	35	39200	4600	150		
R8	03	15	60	1500	60	90000	450	250		

STRUCTURE: BEAM (GB5), (GB6), (GB7)										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	04	2	6	6350	35	38100	6050	150		
Y12	05	2	6	6350	35	38100	6050	150		
R8	06	22	66	1500	60	99000	450	250		

STEEL LAYOUT AS ABOVE

STRUCTURE: RING BEAM 1										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	07	2	2	4900	35	9800	4600			
Y12	08	2	2	4900	35	9800	4600			
Y12	09	2	2	2950	35	5900	2650			
R8	10	15	15	2200	60	33000				
Y12	11	2	2	1650	35	3300	1350			

STRUCTURE: RING BEAM 2										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	12	2	2	4900	35	9800	4600			
Y12	13	2	2	4900	35	9800	4600			
R8	14	15	15	1000	60	15000	280	160		

STRUCTURE: PUMP PLINTHS										
TYPE & DIA	MARK	NO/UNIT	TOTAL	LENGTH	CODE	TOTAL LENGTH	DIMENSIONS			
							Amm	Bmm	Cmm	D/Rmm
Y12	15	5	15	1450	35	21750	1150			
Y12	16	5	15	1450	35	21750	1150			
R8	17	5	15	950	83	14250	250	250	100	100
Y12	18	7	27	1100	35	23100	800			
Y12	19	7	21	1100	35	23100	800			

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