

PLAN

CLARIFLOCCULATOR Ø 600 - L=25.00 - N° 68					
PILE	HEAD QUOTE	BOTTOM QUOTE	COORDINATES		
			X	Y	
A1	-8.10	-33.10	76.60	28.35	
A2	-8.10	-33.10	76.60	24.95	
A3	-8.10	-33.10	74.90	26.65	
A4	-8.10	-33.10	78.30	26.65	
B1	-5.96	-30.96	73.18	30.93	
B2	-5.96	-30.96	71.67	29.02	
B3	-5.96	-30.96	71.13	26.65	
B4	-5.96	-30.96	71.67	24.27	
B5	-5.96	-30.96	73.19	22.37	
B6	-5.96	-30.96	75.38	21.31	
B7	-5.96	-30.96	77.81	21.31	
B8	-5.96	-30.96	80.00	22.37	
B9	-5.96	-30.96	81.52	24.27	
B10	-5.96	-30.96	82.06	26.65	
B11	-5.96	-30.96	81.52	29.02	
B12	-5.96	-30.96	80.00	30.93	
B13	-5.96	-30.96	77.82	31.98	
B14	-5.96	-30.96	75.38	31.98	
C1	-4.95	-29.95	71.38	35.67	
C2	-4.95	-29.95	69.22	34.03	
C3	-4.95	-29.95	67.56	31.87	
C4	-4.95	-29.95	66.52	29.35	
C5	-4.95	-29.95	66.16	26.65	
C6	-4.95	-29.95	66.52	23.95	
C7	-4.95	-29.95	67.56	21.43	
C8	-4.95	-29.95	69.22	19.27	
C9	-4.95	-29.95	71.38	17.61	
C10	-4.95	-29.95	73.90	16.57	
C11	-4.95	-29.95	76.60	16.21	
C12	-4.95	-29.95	79.30	16.57	
C13	-4.95	-29.95	81.81	17.61	
C14	-4.95	-29.95	83.97	19.27	
C15	-4.95	-29.95	85.63	21.43	
C16	-4.95	-29.95	86.68	23.95	
C17	-4.95	-29.95	87.03	26.65	
C18	-4.95	-29.95	86.68	29.35	
C19	-4.95	-29.95	85.64	31.87	
C20	-4.95	-29.95	83.98	34.03	
C21	-4.95	-29.95	81.82	35.67	
C22	-4.95	-29.95	79.30	36.73	
C23	-4.95	-29.95	76.60	37.08	
C24	-4.95	-29.95	73.90	36.73	
D1	-4.80	-29.80	70.28	40.47	
D2	-4.80	-29.80	66.65	38.14	
D3	-4.80	-29.80	63.81	34.87	
D4	-4.80	-29.80	62.01	30.93	
D5	-4.80	-29.80	61.40	26.65	
D6	-4.80	-29.80	62.01	22.37	
D7	-4.80	-29.80	63.81	18.43	
D8	-6.10	-31.10	66.65	15.16	
D9	-4.80	-29.80	70.28	12.82	
D10	-4.80	-29.80	74.44	11.60	
D11	-4.80	-29.80	78.76	11.60	
D12	-4.80	-29.80	82.91	12.82	
D13	-4.80	-29.80	86.55	15.16	
D14	-4.80	-29.80	89.39	18.43	
D15	-4.80	-29.80	91.18	22.37	
D16	-4.80	-29.80	91.80	26.65	
D17	-4.80	-29.80	91.18	30.93	
D18	-4.80	-29.80	89.39	34.87	
D19	-4.80	-29.80	86.55	38.14	
D20	-4.80	-29.80	82.91	40.48	
D21	-4.80	-29.80	78.76	41.69	
D22	-4.80	-29.80	74.44	41.69	
E1	-3.15	-28.15	66.40	41.30	
E2	-5.80	-30.80	64.17	39.07	
E3	-6.10	-31.10	63.60	14.58	
E4	-6.10	-31.10	66.97	11.75	

MATERIALS

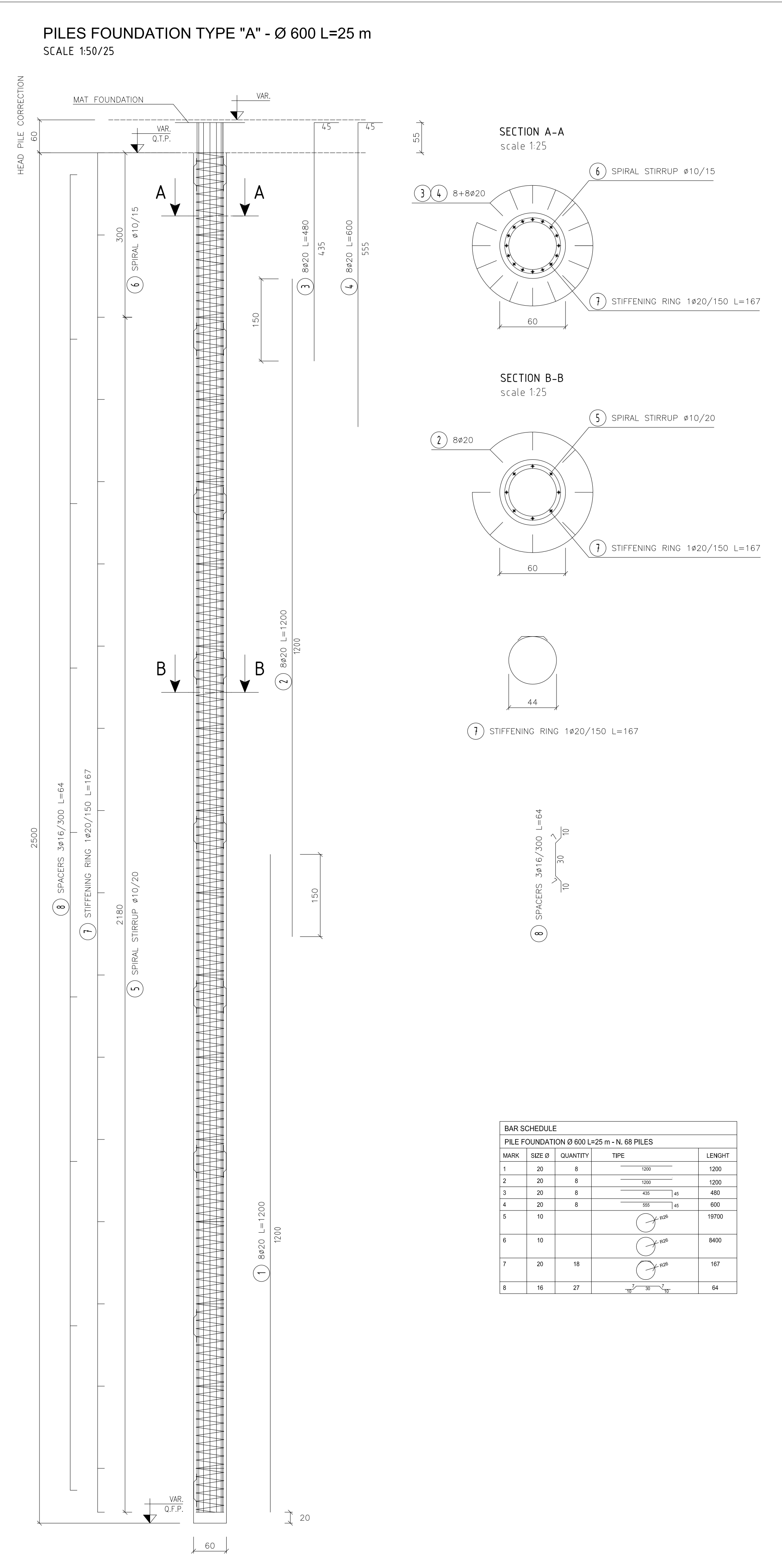
CONCRETE
 - LIGHT CONCRETE FOR LAYING FLOOR
 CONCRETE Rck=20 MPa
 - CONCRETE TYPE 1 (FOUNDATION PILES)
 CONCRETE C25/35 (Rck=35 MPa) - EXPOSURE CLASS XC2
 MAXIMUM W/C = 0.60 - CEMENT MINIMUM CONTENT = 300 kg/m³
 D_{max} AGGREGATE = 20 mm
 CONSISTENCE CLASS = S3 - CHLORIDES CONTENT CLASS = CL 0.2
 - CONCRETE TYPE 2 (FOUNDATION AND ELEVATION STRUCTURES)
 CONCRETE C25/35 (Rck=35 MPa) - EXPOSURE CLASS XC3
 MAXIMUM W/C = 0.45 - CEMENT MINIMUM CONTENT = 360 kg/m³
 D_{max} AGGREGATE = 20 mm
 CONSISTENCE CLASS = S4 - CHLORIDES CONTENT CLASS = CL 0.2
 - NET CONCRETE COVER FOR FOUNDATION AND ELEVATION STRUCTURES 4 cm

REINFORCED CONCRETE STEEL
 - EVERY STRUCTURE
 STEEL B450C

CARPENTRY STEEL
 - BEAMS AND PLATES
 TYPE S275
 BULLION CLASS B.8
 WELDINGS II CLASS

NOTES

- ALL DIMENSIONS ARE IN CM EXCEPT OTHERWISE TECHNICAL SPECIFICATION
 - ELEVATION QUOTATIONS ARE IN M EXCEPT OTHERWISE TECHNICAL SPECIFICATION
 - THE POSITIONS OF ARRAYS AND FIXED WIRE MUST BE CHECKED ON SITE BEFORE ASSEMBLY OF DIFFERENT MEMBRANES
 - IN CORRESPONDENCE OF WELLS, CHANNELS, PIPES, ETC. NOT HIGHLIGHTED WITH SECTIONS, WITH THE POSITION OF IRONS AND THEIR SIZE WILL VARY ACCORDINGLY
 - FOR PLACEMENT OF REINFORCEMENT IS REQUIRED THE USE OF PLASTIC SPACERS AND TIMELY VERIFICATION OF THE CORRECT BARS COVERING



FOUNDATION PILES: EXECUTIVE NOTES

- The work plan must be at least 1.00 m higher than the final height of the head pole
- Must be used a provisional welltop, pushed at least 2.00 m below working floor.
- Where necessary, according to estimates by the Works Management the foundation piles can be made through the use of bio-sludge.
- After drilling, just before the cast, must be realized a careful cleaning of the hole bottom of each pile.
- The cast of the pole must be done with the feed pipe from the hole bottom and proceed without interruption
- On 50% of the poles, according to Works Management, must be installed # 3 PVC or metal pipes probe of the heavy type (fitted with plugs) with diameter not less than 50 mm placed at 120° anchored to the reinforcement cage that will extend at least 300 mm below the bottom of the cast.
- The project will be run up to the work floor height (1.00 m above the head of the pile) in order to make a correction of the top of the pile itself (scappatozzatura).
- On the piles, after maturation of the cast, the contractor must perform non-destructive testing (in addition to the static load tests required by the Inspector): - Cross-hole test on 25% of the piles - Echo-sounders tests for at least 75% of the piles.
- The contractor will undertake the execution of load tests on piles in accordance with the instructions given by Works Management and/or given by the structural supervisor.

The contractor will provide for inspections during construction of the piles (stratigraphy observed, jets, power consumption, timing, equipment and anything else useful).
 All checks should be reported in the special record that has to be drawn up for each pile.
 The contractor will provide any activity deemed appropriate to the proper execution of works and provide all is necessary for works safety.
 The contractor and the Works Management will be responsible for reporting to the foundation designer any discrepancy or anomalies (identified during construction) with the assumptions of the project.

REV.	DATA DATE	DESCRIZIONE	DESCRIZIONE	DESIGN	CONTR.	APPROV. APPROV.
0	APRILE/2011	FIRST ISSUE				

 Energy & Water Facilities International MILANO (Italy)	 MILANO (Italy)	CLIENTE	OKPAI
		PROGETTO	CLARIFLOCCULATOR FOUNDATIONS-CARPENTRY AND CONCRETE REINFORCEMENT PILES FOUNDATION
SCALE	1:50	FORMATO	A0
APPARTENENTE	Plant	PROGETTO	2010.101 - CIV-012.1
Engineering & Contracting Tunis (Tunisia)		WELL WATER TREATMENT PLANT	

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