

**CITY OF RAPID CITY  
CONSTRUCTION CHANGE ORDER**

**No. PW111202-01**

Water Reclamation Facility Expansion

PROJECT NO: WRF02-1173

Glenn C. Barber & Associates, Inc.

ORIGINAL CONTRACT AMOUNT: \$8,500,000.00

CHANGE ORDER NO.: 1

DATE: November 7, 2002

LINE ITEM	SEC NO	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	INSTALLED QUANTITY	INSTALLED PRICE	INCREASE/(DECREASE)
1	NA	Change potable water pipe to PVC C900	1	1	(\$9,684.00)	(\$9,684.00)			(\$9,684.00)
2	NA	Revise water line typical trench detail	1	1	(\$3,042.00)	(\$3,042.00)			(\$3,042.00)
3	NA	Revise non-potable water piping at Aeration Basin	1	1	(\$4,357.00)	(\$4,357.00)			(\$4,357.00)
4	NA	Change electrical conductor material	1	1	(\$13,371.00)	(\$13,371.00)			(\$13,371.00)
5	NA	Revise sidewalk at Aeration Basin	1	1	(\$4,468.00)	(\$4,468.00)			(\$4,468.00)
6	NA	Revise paving plan east of Clariflocculator	1	1	(\$10,259.00)	(\$10,259.00)			(\$10,259.00)
7	NA	Revise water line water lowering detail	1	1	\$612.00	\$612.00			\$612.00
8	NA	Revise primary electrical routing and transformer locations	1	1	(\$8,020.00)	(\$8,020.00)			(\$8,020.00)
9	NA	Add water line to Administration Building	1	1	\$5,007.00	\$5,007.00			\$5,007.00
10	NA	Relocate fire hydrants	1	1	\$3,946.00	\$3,946.00			\$3,946.00
11	NA	Install additional erosion control structure	1	1	\$1,161.00	\$1,161.00			\$1,161.00
12	NA	Install bollards around electrical transformers	1	1	\$2,416.00	\$2,416.00			\$2,416.00
13	NA	Stockpile excess soils on-site	1	1	(\$7,243.00)	(\$7,243.00)			(\$7,243.00)
14	NA	Over excavate unsuitable soil materials	1	1	\$5,295.00	\$5,295.00			\$5,295.00
15	NA	Additional door hardware	1	1	\$1,577.00	\$1,577.00			\$1,577.00
16	NA	Revise motor control centers	1	1	\$1,783.00	\$1,783.00			\$1,783.00
17	NA	Revise pretreatment building water service	1	1	\$2,878.00	\$2,878.00			\$2,878.00
18	NA	Revise Clariflocculator influent box	1	1	\$1,502.00	\$1,502.00			\$1,502.00
19	NA	Add flanged pipe to Centrate Storage Tank	1	1	\$412.00	\$412.00			\$412.00
20	NA	Waive oxygen transfer shop test for aeration devices	1	1	(\$4,457.00)	(\$4,457.00)			(\$4,457.00)
21	NA	Revise solids handling building water piping	1	1	\$3,941.00	\$3,941.00			\$3,941.00
22	NA	Add RAS to WAS interconnect piping	1	1	\$6,291.00	\$6,291.00			\$6,291.00
23	NA	Miscellaneous electrical revisions	1	1	(\$3,436.00)	(\$3,436.00)			(\$3,436.00)
		<b>Total</b>							<b>(\$31,516.00)</b>

C.C.O. HISTORY INCREASE/(DECREASE)	PRIOR ADJUSTED CONTRACT PRICE :	\$8,500,000.00
CCO #1	NET INCREASE/(DECREASE):	(\$31,516.00)
CCO #2		
CCO #3	ADJUSTED CONTRACT PRICE:	\$8,468,484.00
PRIOR TOTAL	\$0.00	CHANGE TO DATE: (\$31,516.00)

CONTRACTOR: Glenn C. Barber & Associates, Inc.	DATE: _____
ENGINEER: McLaughlin Water Engineers, Ltd.	DATE: _____
MAYOR: _____	DATE: _____
FINANCE: _____	DATE: _____
CONTRACT TIME CHANGE +/-: 0 days      NEW CONTRACT TIME: No Change	

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DATE: November 7, 2002

LINE ITEM	DESCRIPTION	REASON FOR CHANGE
1	Change potable water pipe to PVC C900	Changed water line pipe material from ductile iron pipe to PVC, Class 150, C900 material.
2	Revise water line typical trench detail	Revised water line trench detail to conform to City standard.
3	Revise non-potable water piping at Aeration Basin	Revised routing of non-potable water line at Aeration Basin and eliminated several yard hydrants.
4	Change electrical conductor material	Changed electrical conductor material (wire) requirements for larger conductors.
5	Revise sidewalk at Aeration Basin	Deleted side walk around portion of Aeration Basin. Not required for adequate access to Aeration Basin.
6	Revise paving plan east of Clariflocculator	Eliminated asphalt and curb and gutter east of Clariflocculator. Also revised grading plan and concrete drain pan. Minimal access area.
7	Revise water line water lowering detail	Additional concrete encasement required around water line where it passes under 48 inch sewer line. Required by SDDENR.
8	Revise primary electrical routing and transformer locations	Revised location of new electrical transformers and routing of new primary electrical service. Reduce amount of secondary wire from transformers and provides for better access to transformers.
9	Add water line to Administration Building	Water service to Administration Building not shown on plans. Required to have water at Administration Building.
10	Relocate fire hydrants	Relocated fire hydrants per comments received from Rapid City Fire Department.
11	Install additional erosion control structure	Added valve in system to allow retainage of surface water or plant water prior to discharge to Rapid Creek. Allows better spill containment and control.
12	Install bollards around electrical transformers	Additional bollards required around electrical transformers to ensure proper protection.
13	Stockpile excess soils on-site	Contract required excess soils to be removed from site. Allowed excess soils to be retained on site for potential future use by City.
14	Over excavate unsuitable soil materials	Unsuitable foundation soils found in Aeration Basin, Clariflocculator, and Influent Pipe excavations. Required over excavation and backfill with suitable materials.
15	Additional door hardware	Additional door hardware required as identified in shop drawing review.
16	Revise motor control centers	Added one section to each motor control center (MCC) for SCADA System wiring and the starter that will be supplied with equipment. Additional MCC sections provided at lower cost by electrical contractor than SCADA system supplier.
17	Revise pretreatment building water service	Existing water service line not found were expected. Rerouted line from known point.
18	Revise Clariflocculator influent box	Revised Clariflocculator influent box detail to coincide with piping profile.
19	Add flanged pipe to Centrate Storage Tank	Added pipe and flange to centrate tank to allow for easier draining of tank.
20	Waive oxygen transfer shop test for aeration devices	Test requirement waived at request of equipment supplier. Supplier is a long term established dependable supplier of this type of equipment.
21	Revise solids handling building water piping	Revised solids handling building water piping to allow for use of either potable or non-potable water for process requirements. Allows operational back-up and flexibility.

22	NA	Add RAS to WAS interconnect piping	Interconnects Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) piping between Clariflocculator and Blower/ Pump Building. Allows Clariflocculator to be drained more quickly and provides operational flexibility.
23	NA	Miscellaneous electrical revisions	Miscellaneous electrical revisions resulting from shop drawing review.

PREPARED BY: Dan Coon \_\_\_\_\_

DATE: November 7, 2002 \_\_\_\_\_