

March 15, 2011

Project Owners : QASSIM CEMENT COMPANY
Name of Project : Conveyor Foundation Repair
Limestone Storage PL2
Subject : SCOPE OF WORKS AND GENERAL CONDITIONS

I. Scope of Works :

The nature of the project is to replace or just repair the foundations of the conveyor belt at PL2 Limestone Storage building. Those supports inside of the building shall be replaced by steel structures directly bored on the 150mm slab on grade. Care must be observed during drilling as it will be executed while the belt is running and during schedules shot downs. A good construction method and planning is required at this stage because the drilling will be hampered by the narrow working area at the back of the conveyor. Then the old pedestals shall be removed so that the under of the conveyor will be spacious when ever there is maintenance work.

All of the foundations of the conveyor as shown on the drawing, which are outside of the building, shall be totally replaced with a new one. The only difference is the application of asphalt damp proof course to check rising damp.

The proposal are Lump Sum.

II. General Conditions :**Division 1 General Requirements :**

- 1.1 All unit cost are inclusive of the materials, labor, equipment and all other mark-ups necessary for the completion of the works. Contractor must visit the site before making the proposal. Contractor should check all quantities in the Bill Of Quantities and to change them if there are discrepancies.
- 1.2 Provide necessary personal protective equipment for all employees and visitors entering the work site.
- 1.3 Provide at least one experienced supervising engineer and competent foreman.
- 1.4 The site must be off-limits to non-personnel from meandering at the site.
- 1.5 Secure necessary work permit from the mandated QCC Department.
- 1.6 The contractor must follow all Safety Rules as mandated by the Safety Department.



1.7 Mode of Payments

- 1.7.1 Payment terms shall be as per provisions made by the Procurement Department of QCC.
 - 1.7.2 At the time the projects is apparently completed, the Contractor will submit a request for Provisional Acceptance Certificate. At this point in time, the Owners, thru their authorized engineer representative, will issue the Provisional Acceptance Certificate, only after the contractor has rectified the deficiencies as listed in the so called Punch List.
 - 1.7.3 There will be a 12-month observation period starting from the issuance of the Provisional Acceptance Certificate, for the Owners to be satisfied of the basic safety and performance of the project. However, the Owners reserve the right to file any legal claim against the Contractor for hidden defects that may appear beyond the 12 month period, but still within the normal service life of the structure of 10 years.
 - 1.7.4 After the 12-month observation period, the Owners issue a Final Completion Certificate, which will include the release of the Retention Money and the Guarantees if any.
 - 1.7.5 In case of delays, as determined by the Engineers of the Owners, the Contractor is to indemnify the Owners at a rate as written in the contract. The amount paid due to delays should not exceed however, 10% of the project cost.
- 1.8 In cases of damages or accidents that the Contractor may make on any private or public properties in the execution of the project, it is the sole responsibility of the contractor to pay the aggrieved parties.
- 1.9 As-built drawings shall be part of the criteria before the release of the Provisional Acceptance Certificate.
- 1.10 The Construction Bar Chart, the Manpower Chart and the Equipment Chart shall all be part of the contract documents and submitted to Procurement Department before the awarding and signing of the contract.
- 1.11 Catalogues, operation manuals, product data must be submitted before the Provisional Acceptance Certificate.
- 1.12 The Owner's Engineer Representative, reserve the right to expel from the jobsite any employee of the contractor, if that employee is not cooperative, not competent for the job, lazy, engage in horse play, unsafe conduct or similar activities that will endanger or delay the whole project.

Division 2 Site Works :

- 2.1 Excavation of the existing supports shall be till the removal of the old lean concrete.
- 2.2 Backfilling of the sides of the cable tunnel shall be on layers of 300mm each. Compaction shall be over 95%. Proper soil testing shall be undertaken before the next 300mm of layer is to be placed.
- 2.3 Excess excavated materials must be disposed off to the area designated by the QCC Engineers.

CONVENTION

Division 3 Concreting Works :

- 3.1 Before any concrete pouring, the contractor shall submit trial mixes for the requirements of the project and make available the compression test results of the cylinders to see the strength curve for both the 20 Mpa. and the 28Mpa. all using sulphate-resistant cement or the type V Portland cement.
- 3.2 If the ambient temperature is over 30 degrees centigrade, use chilled water in the mix that maximum concrete temperature is only 27 degrees centigrade upon discharge from the transit mixer.
- 3.3 Curing of newly-poured concrete shall start 4 hours after the final set of the structures. This means, all the sack burlaps(2 to 3 layers), the supply of water, should be in place right away. Ponding of water on the elevated slab is required as curing method.
- 3.4 There should be at least 2 sets of concrete mix vibrator during pouring. One is reserve.
- 3.5 Maximum concrete aggregate shall be 20mm for all the concrete.
- 3.6 Concrete cover for rebars shall be 50mm on all areas.
- 3.7 Deformed bars reinforcement shall have a yield stress of $f_y = 420\text{Mpa}$ or the ASTM Grade 60.
- 3.8 Removal of forms shall be only after 24 hours.

Division 4 Masonry Works : (not applicable)

Division 5 Moisture and Thermal Protection :

- 5.1 Damp proof course shall be 2-coats of asphalt on the outside of the finish wall as shown in the drawings.

Division 6 – Metal Works :

- 6.1 Steel section and plates shall be mild steel with yield bending stress of $F_y = 36,000$ psi or 248 Mpa.
- 6.2 All bolts embedded on concrete must be stainless steel.
- 6.3 Grouting materials shall be EMACO or SIKA brand or approved equal.
- 6.4 Coating for steel structures shall be standard primer coat and 2 finish coats of enamel paint.

Prepared by :

Engr. Nicanor P. Ragudo
Projects Section

Checked by :

Engr. Maher Abda
R E and P Chief

Project : Conveyor Foundation Repair

Limestone Storage PL2

Project Owners : Qassim Cement Company

BILL OF QUANTITIES

Cost Code	Pay Items	Unit	QTY	Unit Cost	COST	Remarks
1	Supply and installation of support #1 (S1), inside the building	sets	56			
2	Supply and installation of support #2 (S2), inside the building	sets	11			
3	Remove and replace F23 support outside the building, 1.57m3 RC	set	1			
4	Remove and replace F24 support outside the building, 2.90m3 RC	sets	5			
5	Remove and replace F01 supports outside the building, 14.96m3 RC	SETS	22			
6	Removal of pedestals damaged by rising damp 450x450x205	m3	5			
Proposed Project Total = SR.						

(signed and sealed by authorized company official)

Planning and Engineering :

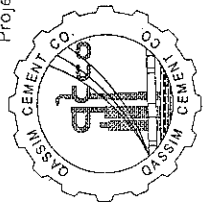
Designed by : Engr. Nicanor P. Ragudo
Drawn by : Engr. Nicanor P. Ragudo
Checked by : Engr. Maher Abdo
Approved by : Engr. Fawaz Al Mutairi

Project Title :

Conveyor Foundation Replacement Limestone Storage PL2

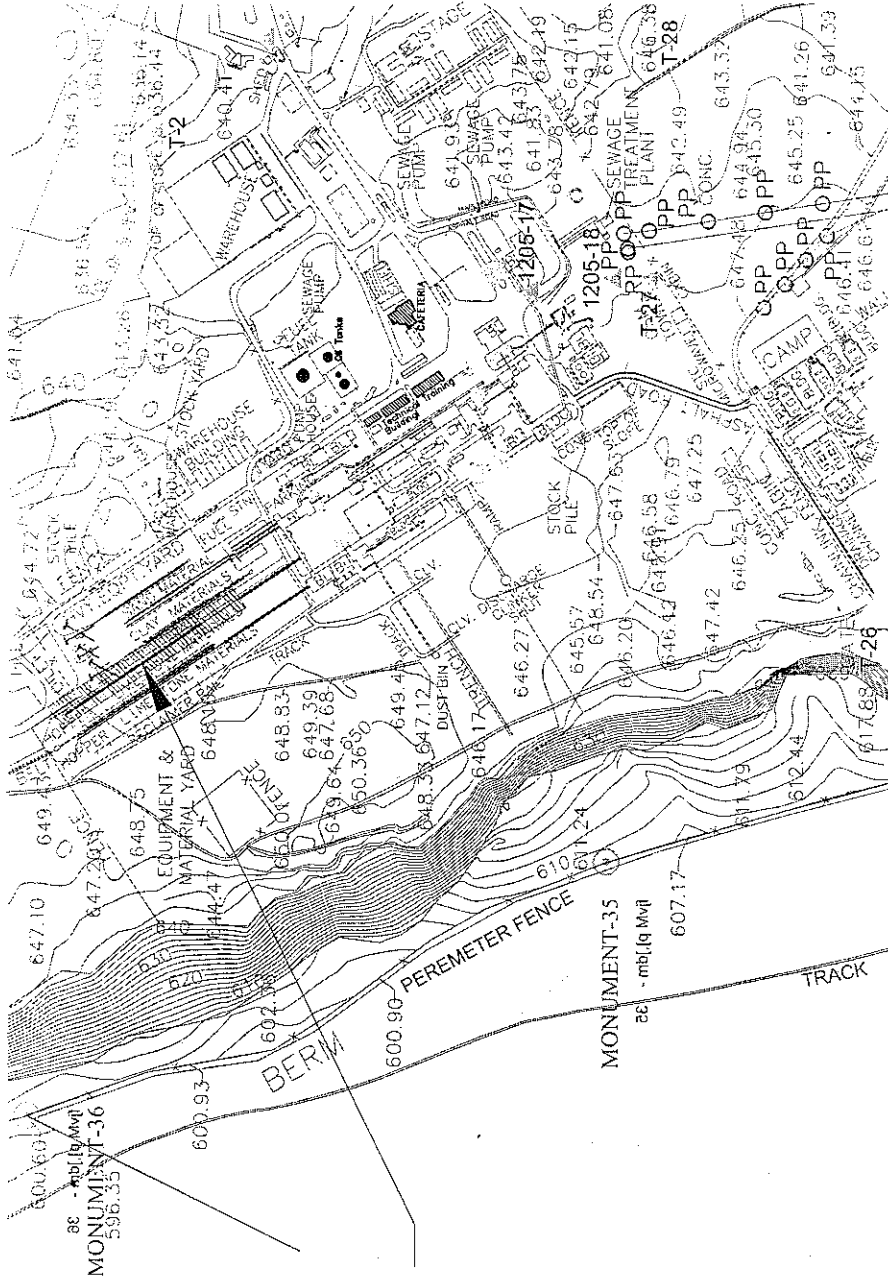
Project Owners :

QASSIM CEMENT COMPANY

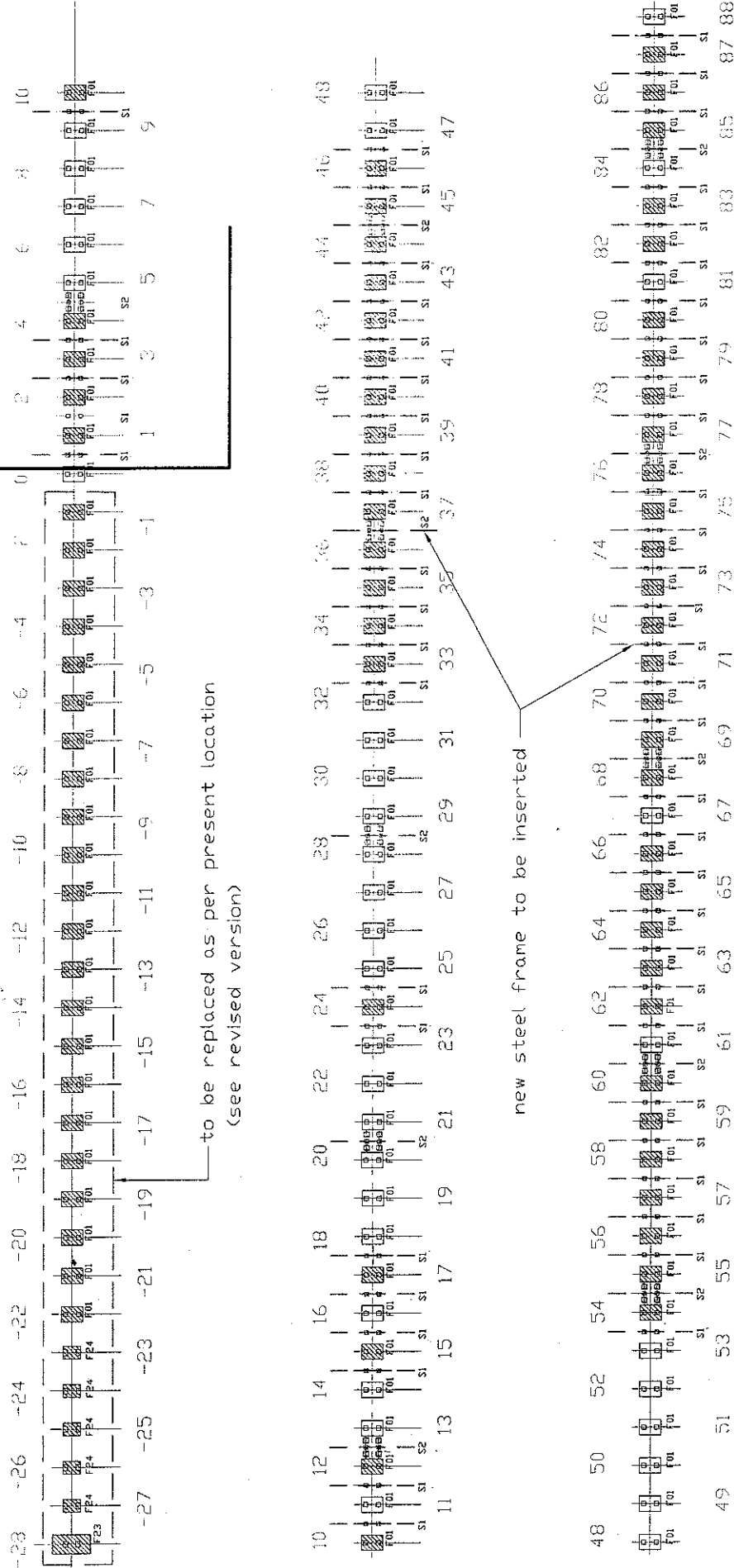


LOCATION PLAN

Project Site



PL2 Shale Storage Building line



to be replaced as per present location
(see revised version)

new steel frame to be inserted

for removal

Plan and Layout

March 8, 2011
December 13, 2010

Project Owners :

**QASSIM
CEMENT
COMPANY**

Project Title :

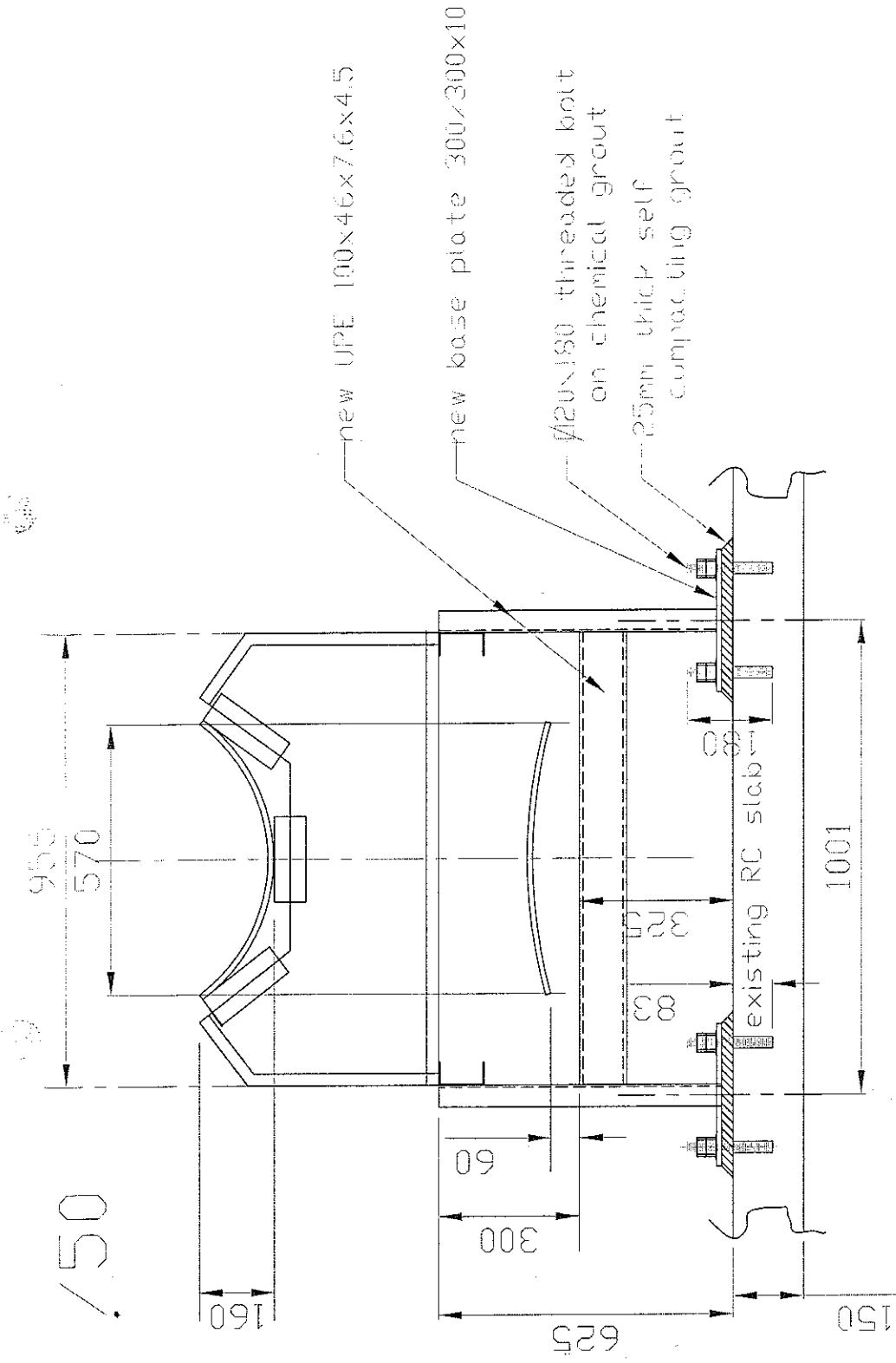
**Conveyor Foundation Repair &
Replacement
Limestone Storage PL2**

Planning & Engineering :

Design : Engr. Nicanor P. Ragudo
Drawn : Engr. Nicanor P. Ragudo
Checked : Engr. Maher Abda
Approval : Engr. Fawaz Al-Mutairi

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Section at Typical Support

March 12, 2011
December 13, 2010

Page Number :
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Planning & Engineering :
Design : Engr. Nicanor P. Ragudo
Drawn : Engr. Nicanor P. Ragudo
Checked : Engr. Maher Abda
Approval : Engr. Fawaz Al-Mutairi

Project Title :
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**QASSIM
CEMENT
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