

Reliable Structures Inc

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November 17, 2015

This proposal is hereby submitted to:

Mr. Morris J. Reyna, Engineering Dept.
Town of Marana
11555 West Civic Center Drive
Marana, AZ 85653

For soils structural repairs at:

Town ROW at Two Residences
North Mountain Stone Pine Way
Marana, AZ 85743

Reliable Structures and the individuals or entities designated as **Owner(s) or Agent(s)** above enter into this agreement as follows:

Reliable Structures will provide all labor, materials, Workers' Compensation Insurance, Liability Insurance and supervision to perform the following:

SITUATION

The **Town ROW** areas at two residences in the Pines [REDACTED] & [REDACTED] require soils structural repair. Based on revised information provided by Mr. Reyna in early November, the depth, location and contour parameters of the sand/rock materials pit that was backfilled to allow construction of this neighborhood have changed, indicating the fill depths within the ROW at the two referenced residences are in the 30' to 35' zone.

The Town is requesting a repair plan and cost estimate to urethane-stabilize the deep soils and to urethane-lift the concrete sidewalk and curb at these two residences.

SCOPE OF WORK

Urethane Deep Soils Stabilization

Once the underground utilities within the work zone have been located and marked and the homeowners have removed their vehicles from the street, the urethane deep injection grid pattern (approx 4'-4" staggered, horizontal centers) will be laid out and marked, 3/4" dia injection pipe pathway holes will be drilled through the sidewalk, curb/gutter and street pavements and 3/4" dia pre-drilled injection pipes will be inserted and driven/advanced such that the urethane injection zone/range occurs from zero to 30' or 35' deep as per the revised Reyna depth/contour data.

Each pipe will then be injected with water and urethane (Spetec H-40 or equivalent) to the point of refusal. It is planned that 60 to 70 injection pipes will be utilized for each residence ROW.

After the deep injections are completed, the injection pipes running through the pavement areas will be cut flush with the pavement surface and the remaining holes at the sidewalk and curb will be patched with a non-shrink cementitious grout to help hide the holes for cosmetic purposes.

Urethane Lifting of Concrete Pavements

Once the ROW deep soils stabilization work is complete and the front yard deep soils have been stabilized and driveway slabs have been removed by others, the joints within the area of the settled sections of sidewalk and curb/gutter pavement will be cut as needed to free them up and the slabs will be drilled (5/8" dia holes) and lifted with expanding, structural urethane (SWD Urethane QS232-4 or equivalent) to their original on-grade elevations.

Following the lift operation, the injection holes will be patched with non-shrink grout to help hide the holes for cosmetic purposes.

Permanent Engineered Solutions for Unstable Foundations, Broken Concrete and Leaky Structures

Scope of Work Notes and Conditions

- A. It is not expected that local jurisdictional agency(s), including the HOA will require the deep soils stabilization or slab lifting repair work be permitted, therefore costs for preparing engineering drawings and/or for obtaining, managing and closing out a permit are not included in this proposal. If it is determined a permit is required, then the related agreement cost and timeline impacts will be determined and adjusted at that time.
- B. The work will be accomplished between the hours of 6:00 AM to 6:00 PM, Monday through Sunday, holidays excepted. The work areas will be safety barricaded and construction debris will be cleared at the end of each work period.
- C. A rental restroom will be placed and maintained on site for Reliable crew use.
- D. Reliable will locate and mark all existing sub-grade utility systems within the work zone that can be found with conventional location technology and Reliable shall be liable for any located utility damage that is caused by their work. However, Reliable has no responsibility for damage that they cause to any unknown sub-grade utility system or for additional damage to utility or structural systems that were weakened or compromised as a result of the soils collapse conditions.

ESTIMATED COST & SCHEDULE

Deep stabilization & concrete lifting at [REDACTED] ROW & [REDACTED] ROW	\$ 47,220.00
Tax	\$ included
	=====
Total	\$ 47,220.00

Project Duration: Six to eight working days on site

Thank you for your interest in Reliable Structures and for the opportunity to submit a plan/proposal on this deep soils and pavement lifting structural repair program. We would be glad to meet with you in person or on the phone to discuss these items in greater detail. Please let us know if you have any questions. We look forward to providing superior service and excellent results.

Sincerely,

Greg G. Walliman
Project Manager

RELIABLE STRUCTURES INC.

Agreement Terms

1 / CHANGES: Changes to the scope of work will be performed only with a written change order signed on behalf of the Agent and Reliable.

2 / PAYMENT TERMS: Fifty percent (50%) of the total Agreement amount is due at the Agreement signing. The fifty percent (50%) balance is due within seven calendar days after project completion. Finance charges at a rate of 3% monthly will accrue on delinquent balances.

3 / DEEP SOILS and PAVEMENT LIFTING REPAIR LIMITED WARRANTY: The deep soils stabilization and pavement lifting structural urethane repair work is warranted on the basis of materials and workmanship for a period of ten (10) years from the date of completion of the Work. The sole remedy that Reliable Structures is obligated to provide under this warranty is the injection of additional urethane at those otherwise unmodified and/or undamaged area(s) of deep soils where there is evidence that the deep soils have experienced collapse or consolidation from their post-repair conditions and/or the injection of additional urethane at those otherwise unmodified and/or undamaged area(s) of lifted pavement where there is evidence that the lifted pavement has experienced settlement from its post-repair elevation.

This proposal may be withdrawn if not accepted within 30 days.

Signature _____
Greg G. Walliman
Reliable Structures Inc.
Arizona License # ROC247805
Date _____



ACCEPTANCE OF PROPOSAL: The prices, specifications and conditions are satisfactory and are hereby accepted. Reliable is authorized to accomplish the work as specified.

Signature _____
Owner
Date _____
Signature _____
Owner
Date _____