KUBRICKY CONSTRUCTION CORP.
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KUBRICKY CONSTRUCTION CORP.
A PROUD MEMBER OF THE D.A. COLLINS™ COMPANIES

Rutland City BRF 3000 (2014036)
SUBMITTAL 3

Issued 11/05/14
Respond by 11/12/14

To

Timothy Pockette, PE

Topic	Drilled Shafts Prequalification
Status	For Approval
Spec section	900.640
Subsection	76(a-c)
Sent to approver	11/5/14
Required from approver	11/12/14

From

Volker Burkowski

Signed by _____ Date 11/5/14

Proceed as Indicated _____ Date _____
Owner Authorized Representative

BUFFALO DRILLING COMPANY INC.
10440 MAIN ST.
CLARENCE, NY 14031
PHONE (716)759-7821
FAX (716)759-7823

November 5th, 2014

Attn: Volker Kulbricky
Kubricky Construction Corp.

Project: Replacement of River Street Bridge
North River Street
Rutland, Vermont

Submittal for PreQualification - Cover Page (Page 1)

1) **Prequalification Questions and Answers (Pages 2 & 3)**

2) **Jobs, Operators, and Crews (Page 4)**

PREQUALIFICATION: The Contractor shall submit proof and details of the following:

(a) Three projects in the past five years where the Contractor or subcontractor performing the work has successfully installed drilled shafts of similar diameter, length, and difficulty as required for this project, and a minimum of one project requiring similar on-site topographical and geotechnical conditions to those described in the Plans.

1. Client: **Rotha Contracting Co., Inc.**
   40 Waterville Road
   Avon, Connecticut 06001
   Contact: **Jack Thavenius, Project Manager**
   860-678-7600 ext. 6
   Project: **Connecticut DOT Project No. 63-621**
   Hartford, Connecticut
   Eight (8) Caissons 48" by 105ft w/ 5ft rock sockets

This project consisted of permanent casing vibrated down to the top of the rock/till and BDC cleaning out the shaft and drilling out a five foot rock sockets on eight caissons. There were four on each abutment for the bridge crossing over the railroad tracks. BDC used our Jintai SD-20E track mounted drill rig.

2. Client: **A.H. Beck Foundation Co., Inc.**
   5123 Blanco Road
   San Antonio, Texas 78216
   Contact: **Keith Anderson, Owner**
   210-842-4934
   Project: **I-495 Emergency Repairs**
   New Castle County, Delaware
   Bridge BR I-813 over Cristina River
   32 Caissons 48" x 160ft

This project consisted of permanent casing but the soils, and in specific locations, the overhead obstructions, limited the depth the casings could be vibrated down. In this case BDC incorporated slurry drilling techniques to maintain shaft integrity and would drill in front of the casing. The casing would be both drilled and vibrated down until the casing was close to being at grade and the casing would then be extended. This process continued until the 160 foot depth was achieved. After the casing was seated at rock, BDC would drill the rock socket until the inspector on site determined that a satisfactory rock socket had been constructed. BDC used both our Jintai SD-20E and our Jintai SD-20ELH low headroom drill rigs which are both track mounted.

3. Client: **William H. Lane, Inc.**
   113 Court Street
   Binghamton, New York 13901
   Contact: **Rick Austin, Project Manager**
   607-775-0600
   Project: **RG+E Station 251**
   Brighton, New York
   Three (3) Caissons 96" x 60ft and Ten (10) Caissons 60" x 60ft

This project consisted both temporary and permanent casing. BDC initiated the project drilling the 48" shafts with the plan to install two temporary casings, a 66" x 10' upper casing and then mudding in a 60" x 30+ foot casing into the till like soils and continuing to advance the shaft using slurry drilling techniques. Unfortunately, on the initial shaft, we encountered an old abandoned and functioning drain tile that was dumping water into our shaft making the slurry techniques very precarious. We switched to a vibratory hammer and vibrated in 60" diameter by 50 foot long casings, inside of the 66" upper casing. BDC proceeded to complete the drilling to depth using only water to maintain the shaft integrity due to the firm soil structure. The casings were vibrated out of the shaft during the pouring process. We employed the same techniques when constructing the 96" diameter casings setting a 120" diameter by 10 foot upper casing and then proceeding to vibrate in the 96" x 50' drill casing. All 13 of these caissons required anchor bolts so BDC set a permanent culvert pipe in the top 14 feet of each shaft and set the anchor bolts and completed the pour a couple of days later.

4. Client: **Power & Constructors Group, Inc.**
   96 River Rd.
   Scottsville, NY 14546
   Contact: **Darla, Project Manager**

607-775-0600
Project: **RG+E Station 251**
Rochester, New York
Four (4) Caissons 96" x 60ft

This project consisted both temporary and permanent casing. BDC initiated the project drilling and setting a 144" x 10' upper temsorrary casing. BDC then set and drilled in a permanent 120" x 12' permanent casing drilling just in front of the shaft to advance it to approximately 20 feet below grade. Following the same method, BDC advanced the final permanent 96" x 15' casing to the till soils at about 33 feet below grade. BDC again proceeded to complete the drilling to depth using only water to maintain the shaft integrity due to the firm soil structure. These four caissons required anchor bolts so BDC set a permanent 96" diameter culvert pipe in the top 14 feet of each shaft and set the anchor bolts and completed the pour a couple of days later. The culvert pipe also acted as a top form for the 12 inches of the caisson that projected above finished grade. BDC used our SD-20ELH track mounted drill rig to avoid the low hanging high tension wires.

All the Jobs above used one of BDC's Jintai SD-20E or SD-20ELH Drill rigs to construct the drilled shafts. The Jintai SD-20E will be the drill rig we use on the Vermont River Street Bridge project.

(b) The on-site Superintendent shall have a minimum of two years experience in supervising construction of drilled shaft foundations of similar size (diameter and depth) and difficulty to those shown on the Plans, and in similar geotechnical conditions those described in the geotechnical report. The work experience shall be direct supervisory responsibility for the on-site drilled shaft construction operations. Project management level positions indirectly supervising on-site drilled shaft construction operations shall not be considered to be acceptable for this requirement.

Please See Attached "Jobs, Operators, and Crews.doc" for Answers to b).

(c) The drill rig operators shall have had a minimum of one year of experience installing drilled shafts with similar diameters and lengths, and in similar conditions. Include details describing the equipment and methods used, difficulties encountered and how they were overcome, and the results of any testing performed. For each project cited, include the names and telephone number of someone who can be contacted as a reference.

Please See Attached "Jobs, Operators, and Crews.doc" for Answers to c).

The Contractor shall submit this information to the Engineer for review, evaluation, and approval prior to submitting detailed information as required under SUBITTMALS AND PRECONSTRUCTION REQUIREMENTS of this Section. The Engineer will render a decision within 10 working days after receipt of the submission. The Contractor or subcontractor will not be permitted to install drilled shafts without this approval.

The Engineer may suspect the drilled shaft construction if the Contractor substitutes unapproved field personnel without prior approval by the Engineer. The Contractor shall be fully liable for the additional costs resulting from the suspension of work and no adjustments in contract time resulting from such suspension of work will be allowed.

1	**09-110**	Feb-09	Gaetano Construction	Matt Brewing Co.	Utica	NY	CA	**10 @ 30", 24 @36", & 4 @42" x 21 LF**
2	**09-111**	Mar-09	Hayner Hoyt	Crouse Hines Hospital	Syracuse	NY	CA	**6 @ 60" and 21 @ 72" x 16' OB + 10' rock**
3	**09-126**	Jul-09	Rotha	Pearl St > P & W Railfoad	Middleton	CT	CA	**8 @ 1.22 M x 107 Meters** *
4	**10-122**	Jun-10	O'Connell Electric	UB Light Foundations	Buffalo	NY	CA	**8 @ 84" x 12' OB + 8' Rock Sock**
5	**09-130**	Jul-10	Thalle	Gilboa Dam, Temp. Bridge Caissons	Catskill	NY	CA	**21 @ 36" x 0 - 35 LF OB w/ 5 - 10 LF High RQD Sandstone**
6	**09-166**	Mar-10	Hueber Breuer - Pike	St Joe's Addition	Syracuse	NY	CA	**18 @ 36", 32 @ 48", 21 @ 60", 14 @ 72" , & 5 @ 84" x 21- 25 LF w/ Rock**
7	**11-143**	Oct-11	Polivka International	Intermodal & Auto Light Foundations	Mechanicville	NY	CA	**13 @ 48" x 30 LF includes 11' Shale Rock Sockets**
8	**11-116**	Sep-11	Schultz Construction	Fulton County Retaining Wall	Mayfield	NY	CA	**151m Shafts 20m Rock 189m Piles**
9	**11-137**	Oct-11	DiPizio	Rt 238 Bridge > Stevens Brk	Attica	NY	SP	**Rock Sockets - HP's- Lagging**
10	**10-115**	Jul-10	Tunney Electric	Clarence Light Foundations	Clarence	NY	SH	**4 - 30"x12' w 6-8 LF Limestone Bedrock**
11	**11-113**	Aug-11	Holdsworth-Kilowski	Special Events Center	Brockport	NY	CA	**22 @ 36" x 25 LF and 1 @ 48" x 25 LF**
12	**11-149**	Feb-12	Pondview Construction	Bridge #02588 Rt 97 > Byron Brook	Norwich	NY	CA	**20 Caissons 30" x 25 LF of Overburden and 2 LF Rock Sockets** *
13	**12-149**	Aug-12	Rotha	Bridge #03824 Sigourney St	Hartford	CT	CA	**8 Caissons 48" x 105 LF of Overburden and 5 LF Rock Sockets** *
14	**12-135**	Mar-13	Pondview Construction	Bridge #05366 Laural Ln > Mt Hope River	Mansfield	CT	SH	**8 Shafts 24" x 30 LF of Overburden and 3 LF Rock Sockets**
15	**13-160**	Jul-14	William H. Lane, Inc.	RG&E SubStation Construction	Brighton	NY	CA	**3 @ 96" & 10 @ 10 @ 60" x 60 LF of Overburden w/ Vibrated Perm. + Temp. Casing**
16	**14-116**	Oct-14	Ecco III Construction	Stewart AFB Abutments & Piers	New Windsor	NY	CA	**6 @ 60" & 8 @ 36" x 15-20 LF of OB w/ 54" & 30" x 11-14 LF Rock Sockets** * **
17	**14-134**	Aug-14	Beck Construction	I-495 Bridge Repair	Wilmington	DE	CA	**32 @ 48" x 160 LF of Overburden w/ 5' Rock Sockets** *
18	**14-143**	Oct-14	Power and Const. Grp, Inc.	Limited Headroom Beneath 450 kva Wires	Rochester	NY	CA	**4 @ 96" x 60' OB Mudded w/Permanent Casing**

1	**09-110**	Anthony Obernesser	315-733-4611
2	**09-111**	Marty Rainbow	315-455-5941
3	**09-126**	Russell Bush	860-678-7600
4	**10-122**	Matthew McDonald	585-924-2176
5	**09-130**	Craig Thompkins	919-201-0310
6	**09-166**	Bill Pellenz	315.448.5672
7	**11-143**	Michael Mann	704-806-6623
8	**11-116**	Bill Steele	518-885-0060
9	**11-137**	Rosanne DePizio	716-892-1097
10	**10-115**	Brian Bartha	716-741-8284
11	**11-113**	Michael Pesce	585-424-1920
12	**11-149**	Bill Swale Jr.	860-668-2022
13	**12-149**	Russell Bush	860-678-7600
14	**12-135**	Bill Swale Jr.	860-668-2022
15	**13-160**	Rick Austin	607-242-4827
16	**14-116**	Bob Arbusto	914-963-3600
17	**14-134**	Keith Anderson	210-842-4934
18	**14-143**	Darla France	585-889-6016

* Sonic Logging Analysis
** Osterburg Load test

Don Morris has worked as an Operator and Supervisor on Projects 1, 2, 3, 4, 6, 7, 8, 12, 13, and 14, 15, 16, 17, and 18.
The ground man who could be working with Don might be one of many who have worked with him on many of these projects. Robert Fetter, Erik Sienkiewicz, or Brob Fromwiller are the most likely.
They have worked the listed projects as either operators, site supervisors, and lead ground men.
This will only be a two man crew with DA Collins supplying the additional labor to BDC as needed.
If these men are substituted for, the replacements will be parties who have worked with them on the above listed projects.

On-site supervisors and drill operators

BDC combines drill operators and site supervisors - one, possibly two of the following individuals will be working at the River Street Bridge Project. BDC also employs very competent ground men, but wouldn't consider them to be supervisors. Because BDC has a Geotechnical Drilling and Engineering Division, the listed operators have undergone both the operation and classification of soils using a geotechnical rig for instruction on soils and rock characteristics. We have found this to be one of those priceless training programs that allows our operators to learn to recognize soil types and be able to adapt when the provided geotechnical logs are either not accurate or taken a distance from where the actual construction is to take place.
All three of the operators have had training sessions in mudding techniques, rig mechanics, lifting & hoisting, cable & sling safety, site management, tool-box meetings, and safety training.
They have been involved in the construction of multiple hundreds of caisson and drilled soldier pile projects in NY, OH, MA, PA, CT, NH, VT, RI, ME, and WV..All have mudded shafts, cored through boulders, with oversized bits in order to advance casing, cored out rock sockets, have worked magnificently with owners, project managers, inspectors, and engineers, and have the capacity to analyze most any troublesome situation and resolve said issue. Mechanically speaking, these three are extremely competent when it comes to resolving rig problems and doing field repairs.

Their first day of employment with BDC is listed below.

a) Mark Bruning - Start 8-1-92 **b) Don Morris - Start 8-1-91** **Wally Greiner - Start 7-2-90** **Don Rimbeck - Start 5-6-91**