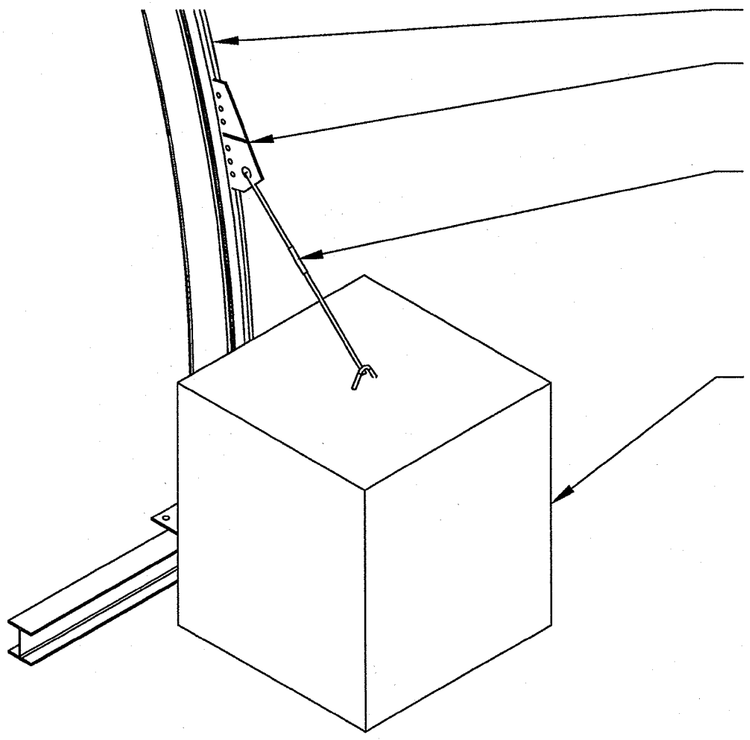
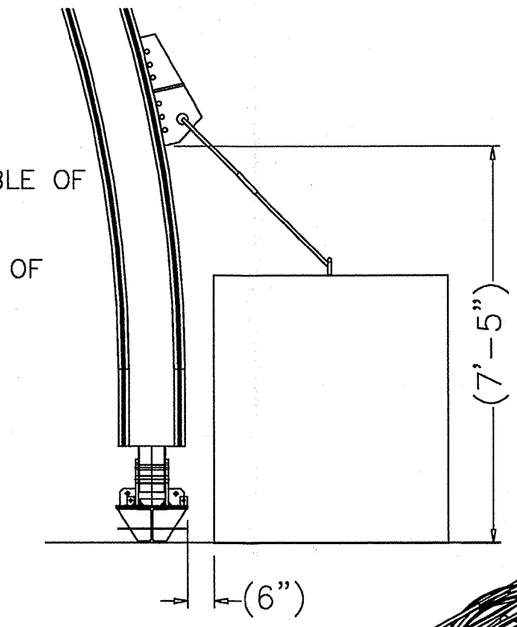
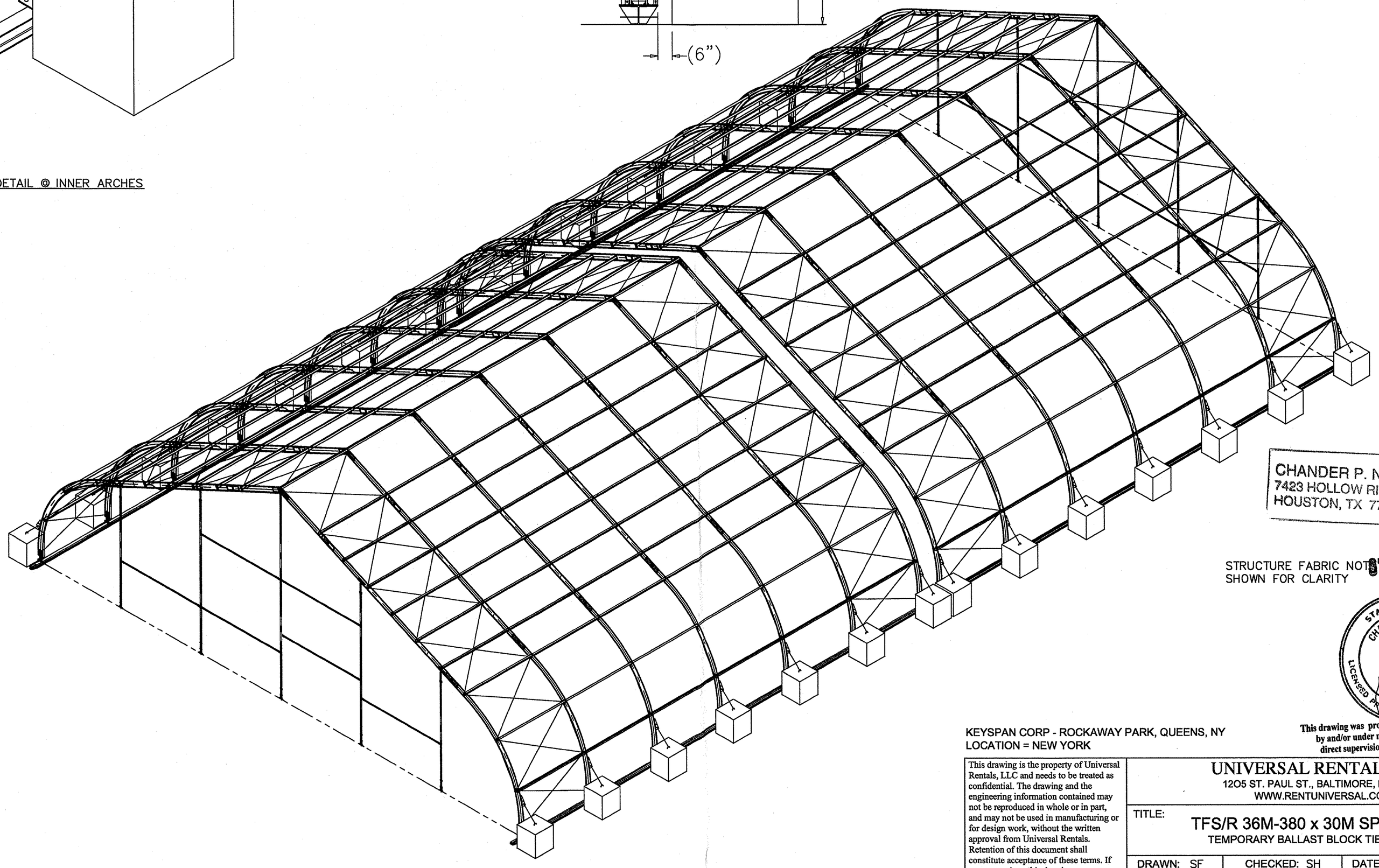
REV.	DATE	DESCRIPTION	NAME
0	09JUN08	ORIGINAL RELEASE	SF
A	16SEP08	REMOVED STAKE, MODIFIED BALLAST	SF



DETAIL @ INNER ARCHES





CHANDER P. NANGIA P.E.
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095

STRUCTURE FABRIC NOT SHOWN FOR CLARITY

STRUCTURAL ONLY

STATE OF NEW YORK
CHANDER P. NANGIA
LICENSED PROFESSIONAL ENGINEER
073030

This drawing was produced by and/or under my direct supervision

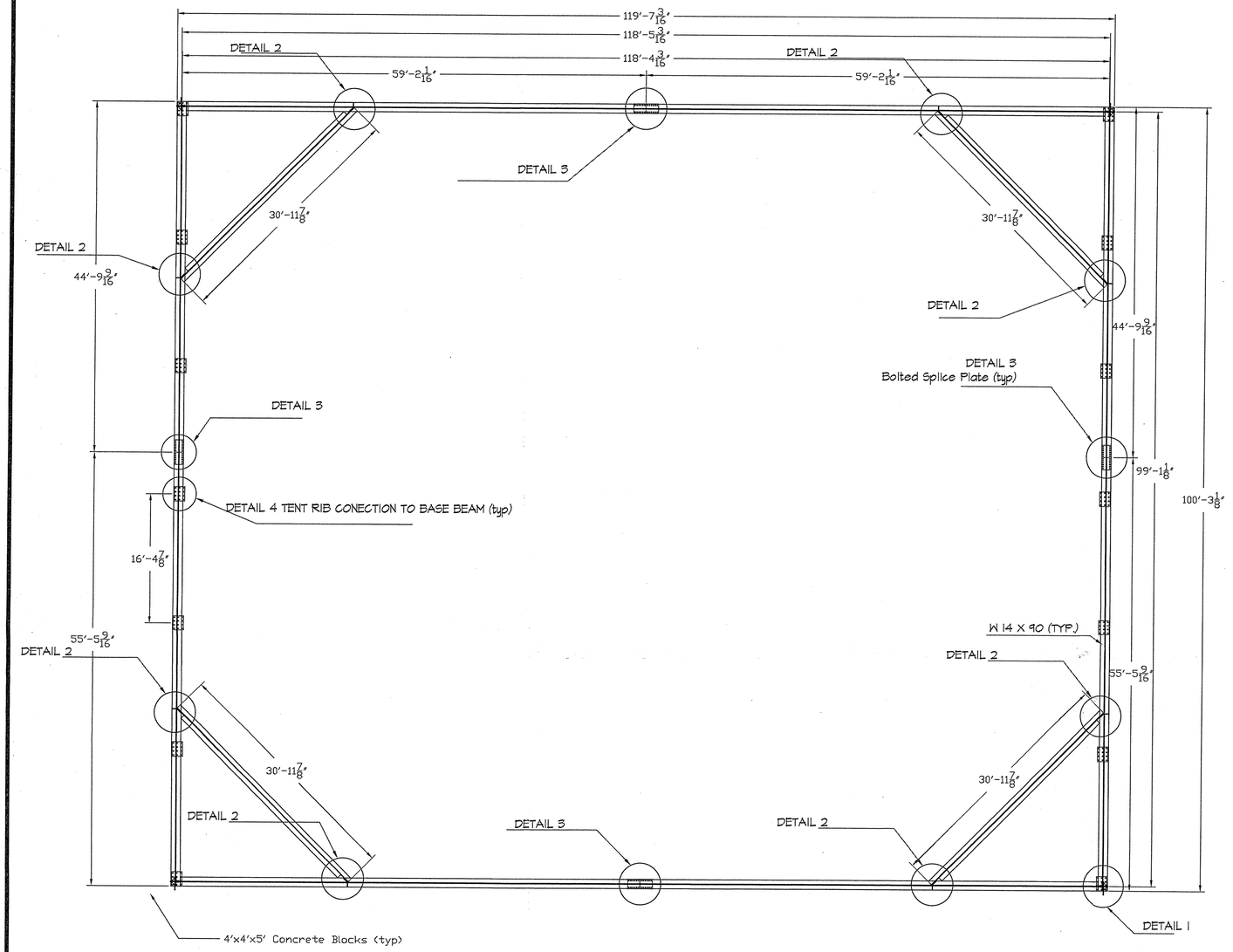
OCT 01 2008

KEYSPAN CORP - ROCKAWAY PARK, QUEENS, NY
LOCATION = NEW YORK

UNIVERSAL RENTALS, LLC
1205 ST. PAUL ST., BALTIMORE, MD 21202
WWW.RENTUNIVERSAL.COM

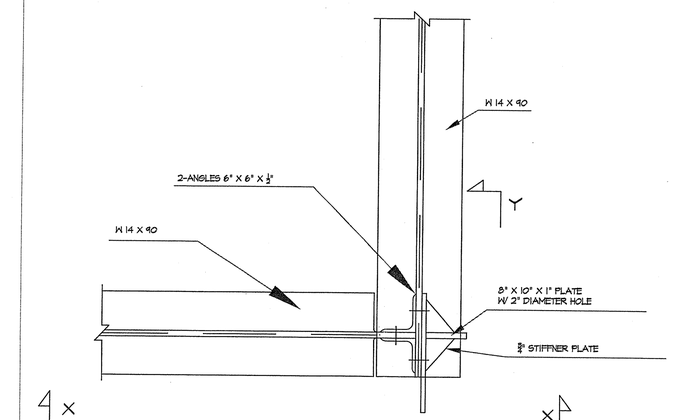
TITLE:
TFS/R 36M-380 x 30M SPLIT ISO VIEW
TEMPORARY BALLAST BLOCK TIE-DOWN DETAILS

DRAWN: SF	CHECKED: SH	DATE: 09JUN08	REV.: A
SIZE C	SCALE NTS	CUSTOMER/JOB:	DWG. NO.: ER500 - 501
–			SHEET: 1 OF 1

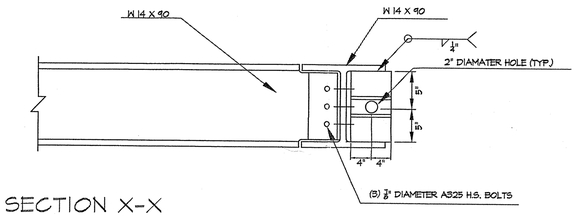


PLAN BASE FRAME: 119.43' X 98.43'

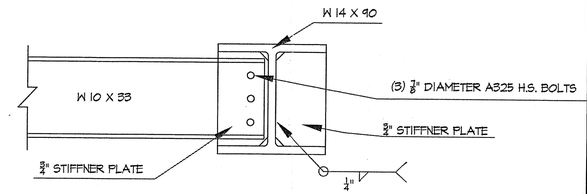
1/8"=1'-0"



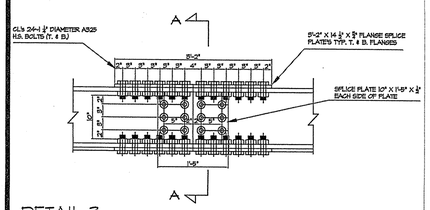
DETAIL 1



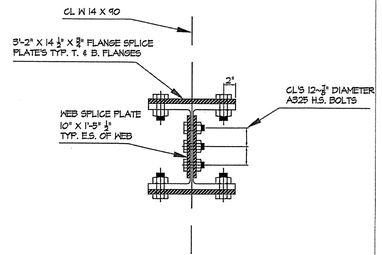
SECTION X-X



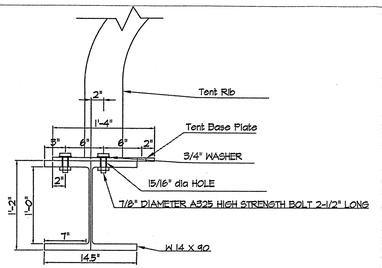
SECTION Z-Z



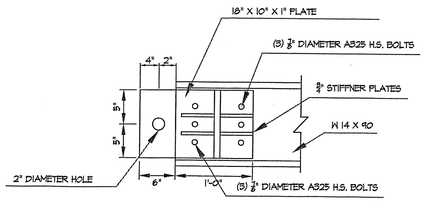
DETAIL 3
(W 14 X 90 BOLTED SPLICE DETAIL)



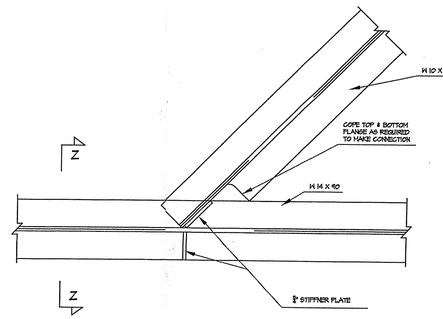
SECTION A-A



DETAIL 4 (TENT RIB CONNECTION TO BASE BEAM)



SECTION Y-Y



DETAIL 2

Revisions/Issues			
No	Date	By	Description
1	6/10/08	RD	Revised dimensions

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Posillico Environmental

131-36A 20th Avenue
College Point, NY 11356
(718) 353-9616

STATE OF NEW YORK
MOHAMMED A. AZEEM
078597
LICENSED PROFESSIONAL ENGINEER

Signature: Date: 10-9-08

Title
Tent Base Beam
119' X 98'

Project
Keyspan Rockaway Park MGP
Remediation Project
Tent Frame Design

Date: MAY 5, 2008

Scale: AS NOTED

Drawn by: J.T

Checked by: J.S.

Drawing No

BB-1

Paulus, Sokolowski and Sartor Engineering, PC
67A Mountain Boulevard Extension
P.O. Box 4039
Warren, New Jersey 07059
Tel: 732-560-9700 Fax: 732-560-9768

Rockaway Park Former Manufactured Gas Plant Site
Rockaway Park, Queens County, New York

Review of Submittal

Signed and Stamped Foundation/Anchoring System and
Revised Procedures for the Relocation of Temporary Fabric Enclosure

Reference Nos: 13120 and 01010 1.3.1 Bullet 21

(Received via e-mail on August 7, 2008)

Response:

Revise and Resubmit. **Posillico has provided answers to the original PS&S questions below.**

(1) Ballast Block Calculation – No comments.

(2) Posillico submitted a drawing, Drawing BB-1, which presents the proposal to supplement the tent base beam to add support to aid in the proposed relocation procedure. The intent of the supplemental support is to allow the tent to be relocated in either direction without the need for a crane-pick. Posillico has stated that they were working in conjunction with Universal on this modification. However, the drawing is presented on a Posillico border that is not signed and stamped by a New York State Professional Engineer. In addition, no information has been included in the submittal that the manufacturer of the enclosure has been consulted, reviewed or approved of this modification. As the modification presents a change to the design of the foundations system for the enclosure, the submittal must include documentation from the manufacturer which notes that they have reviewed the modification and that it will not affect the overall design and performance of the enclosure structure. Further, the manufacturer should be consulted regarding the proposed relocation procedure (see Comment #3). This letter should be signed and stamped by a New York State Professional Engineer.

Posillico has provided a letter from the manufacturer, Universal Rentals, LLC, detailing their involvement in the proposed relocation procedure. Posillico has also supplied a letter with calculations from our NYPE that address the caveats in Universal's letter. The NYPE has based his letter off of drawing BB-1 which he has also stamped and is provided for your use. The letters and drawings supplied also answer the concerns stated in paragraph three.

(3) It is stated that the temporary structure will be relocated by means of dragging and/or rolling from location to location. The rolling will be performed by lifting sections of the enclosure and

822/08

installing timber poles to act as rollers. This procedure represents a method of relocating the structure for which the structure was not designed. Temporary fabric enclosures are typically designed to be relocated by dragging and/or by crane pick. Posillico has asserted that they have been working in conjunction with manufacturer to formulate this alternate method of moving the enclosure. The submittal must provide documentation that the manufacturer has been consulted and approves of this method and that it will not adversely impact the performance of the enclosure.

The process of relocating the structure involves picking the structure up at the center of the cross-beams. No information has been provided to reflect that the current design can support this lifting at the center of the beam.

The process of relocating the structure shows two pay-loaders with forks positioned at the center of the cross-beams. Their purpose is not to pick the structure, but to support the base frame at it's center-point since it will be suspended, due to the use of the timber piles placed perpendicular to the direction of travel. The base frame's cross-bracing is not subjected to the loads from the tent ribs, thereby the pay-loaders are compensating solely for the weight of the base frame.

The submittal must provide information/documentation from the manufacturer stating that they have reviewed this procedure and approve of its use. PS&S does not object to utilizing an alternate relocation procedure but requires

allsite
STRUCTURE RENTAL

Universal Rentals, LLC

pavilion
EVENT SERVICES

05 Sept 2008

RE: Keyspan, Rockaway Park, Queens, NY; former MGP Site

To Whom It May Concern:

This letter is to address the comments by Paulus, Sokolowski and Sartor Engineering, PC to the Review of Submittal document.

Drawing BB-1 submitted by Posillico presents a method to relocate the structure by supporting it on a frame that is elevated onto rollers, and then subsequently dragged into position.

The modification presents a change to the design of the foundation system. As long as the frame that is supporting the structure has sufficient stiffness to transfer the structure's loads to the grade, the overall design and performance of the structure will not be affected when supported by this frame.

The structure, once supported on the frame, will be relocated by means of rolling the supporting frame over timber rollers. As long as the frame that is supporting the structure has sufficient stiffness to transfer the structure's loads to the rollers, the overall design and performance of the structure will not be affected.

The proposed structure support and relocation method, as described in the text above, has been reviewed and sealed by a New York State Professional Engineer.

Respectfully submitted,

STATE OF NEW YORK
CHANDER P. NANGIA
LICENSED PROFESSIONAL ENGINEER
053930

Chander Nangia, New York PE #053930

SEP 15 2008

1205 St. Paul Street - Baltimore, MD 21202 - Ph. 410.605.9216
1455 Copper Sage Street, Las Vegas, NV 89115 – Ph. 702.699.9195
RENTUNIVERSAL.COM

Date: October 1, 2008

Keyspan Rockaway Park MGP
Remediation Project
Tent Frame design

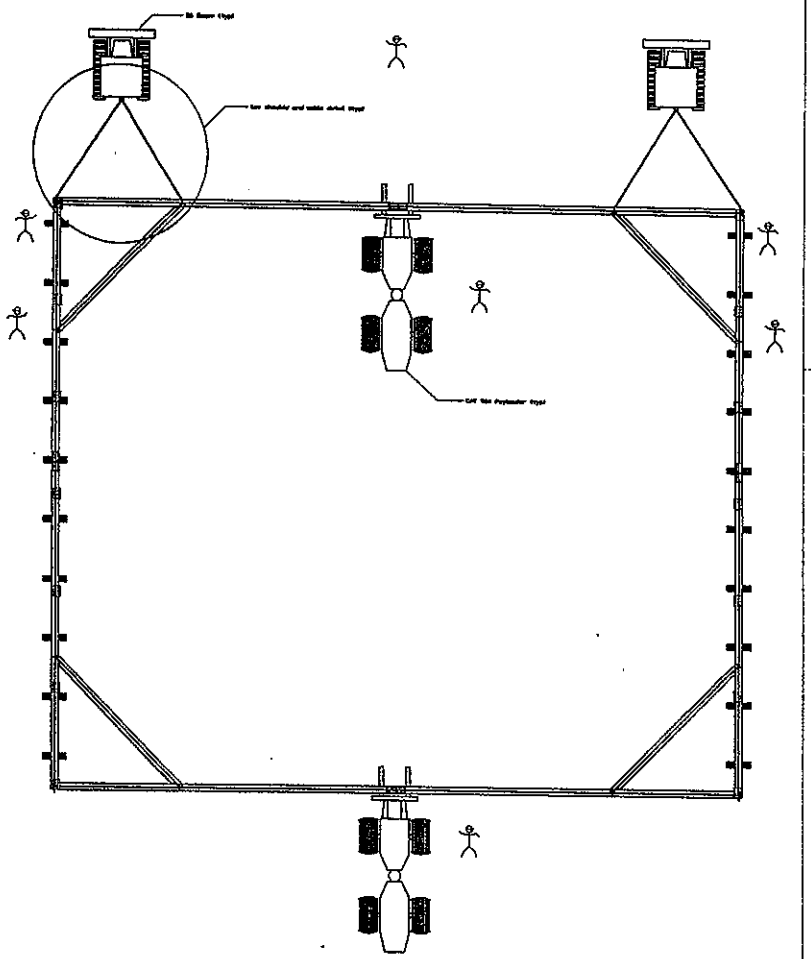
To Whom It May Concern:

The rectangular base frame supporting the tent structure is made out of W14X90, Grade 50 beams with a moment capacity of 385 kip-ft for an unbraced length of 24.5 feet. And for the same unbraced span of 24.5 feet the beam can safely carry a total uniform load of 125.5 kips (By interpolation from table on page no. 2-117 of AISC Manual, 9th edition), equivalent to 125.5/24.5 = 5.12 kips per lin. foot of the beam.
The total weight of the tent structure is 47.425 kips. The tent ribs are perpendicular to the shorter length (98'-0") of the frame. Therefore, the maximum uniform load per lin. foot of base beam from the tent structure is (47.425X1.5*)/(2X98) = 0.363 kip/ft., which is much smaller than the allowable 5.72 kip/ft.
(*Load increased to account for any error.)

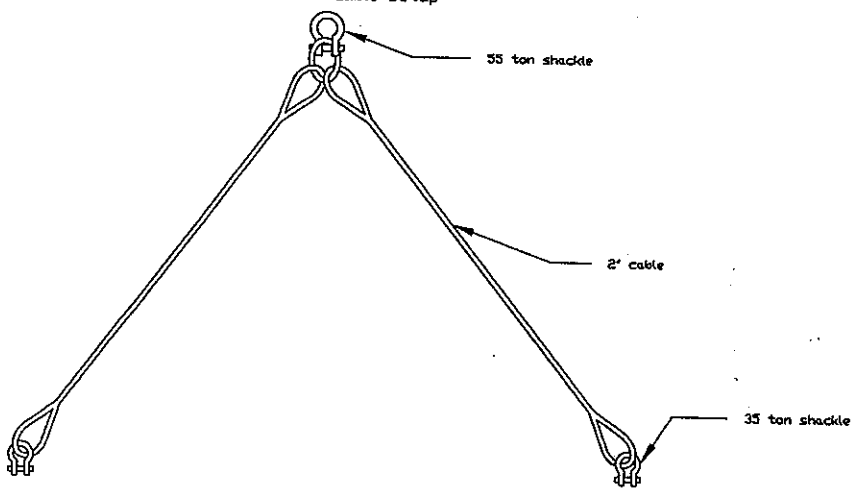
As depicted in the Procedure for movement of the tent structure the base beam will always be supported on 12" diameter timber poles at 10' intervals. This spacing of the timber poles acting as rollers could vary up to a maximum of 15 feet and still be structurally safe to withstand the weight of the tent structure.

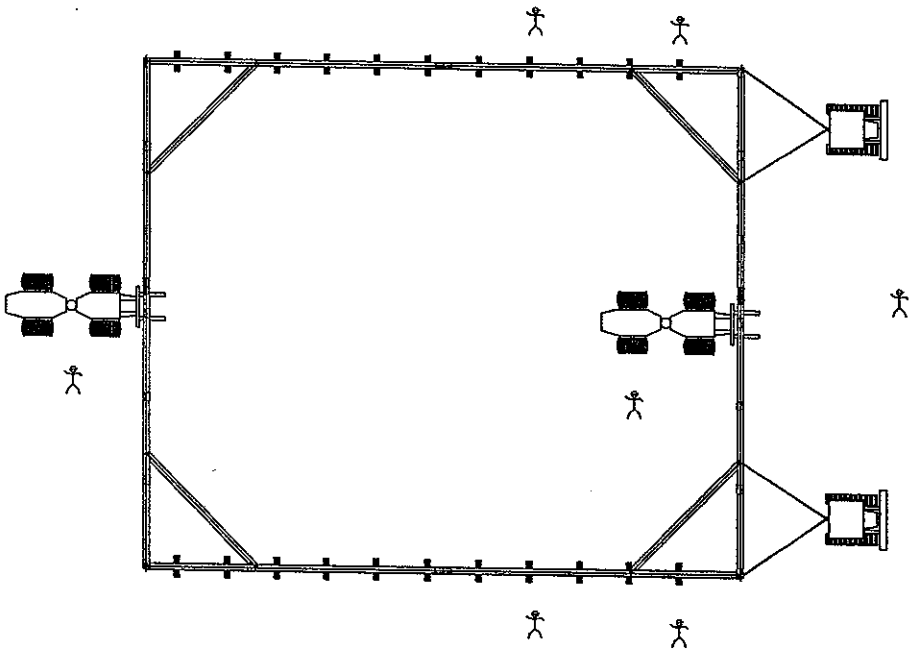
Sincerely,

Mohammed A. Azeem, P.E.



Shackle and cable setup





Revisions/Issues			
No.	Date	By	Description

Posillico | We know how.

Posillico Environmental
131-36A 20th Avenue
College Point, NY 11356
(718) 353-9616

Stamp

Signature_____ Date_____

Title:
Tent Frame Relocation Diagram

Project:
Rockaway Parkway MGP
Remediation Project
Tent Frame Design

Date:
August 14, 2008

Scale:
AS NOTED

Drawn by:	Checked by:
R.D.	C.H.

Drawing No.:
TD-1