



Municipality of Princeton

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Office of the Engineer
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ROBERT V. KISER, P.E.
Director of Engineering

MEMORANDUM

TO: Robert Bruschi, Administrator
FROM: Robert V. Kiser, P.E., Director of Engineering
DATE: October 9, 2013
SUBJECT: **DINKY Canopy Incident Report**

Please find attached a copy of the above report as provided by Turner Construction, Princeton University's Construction Manager.

In consideration of the incident that occurred, Princeton University has advised that as a precautionary measure, they will engage a peer review of the demolition work plans for the two (2) remaining structures to be removed in connection with the Art and Transit Project.

Your assistance in forwarding this information to the Princeton Council as previously requested would be appreciated.

Robert V. Kiser, P.E., Director of Engineering

RVK/cc

c: Jack West, P.E., Land Use Engineer
John Pettenati, Construction Official



Turner Construction Company
300 Atrium Drive, 4th Floor
Somerset, NJ 08873
phone: 732.627.8300

Municipality of Princeton
400 Witherspoon Street
Princeton, New jersey 08540

October 8, 2013

Attention: Mr. Robert V. Kiser, PE
Municipal Engineer

Re: Princeton University
Enabling Work
Final DINKY Canopy Incident Report Dated 10/07/13

Dear Mr. Kiser,

In the spirit of cooperation and per your request we are providing a copy of the Summary Incident Report dated 10/07/13 regarding the DINKY Canopy (2 Pages) and Photographs (8 pictures), attached. As we discussed, we are providing this information so that you and your office are aware of the pre-planning efforts that took place prior to the commencement of demolition activities on the DINKY canopy, as well as the activities of 9/19/13 and 9/20/13.

If you have any questions regarding this information please contact me at your earliest convenience.

Respectfully submitted,

TURNER CONSTRUCTION COMPANY

Edward M. Card
Project Executive

Cc: A. St. Mauro; W. Zahn; G. Morris – Princeton University
J. Pettinati; J. West – Princeton Town
File

PRINCETON UNIVERSITY
ENABLING WORK PROJECT
FINAL DINKY CANOPY INCIDENT REPORT
October 7, 2013

- GENERAL INFORMATION REGARDING CANOPY DEMOLITION
 - The removal of the existing Princeton Train Station Canopy and Platform is part of the scope of the Enabling Work Project being performed by Turner Construction Company under the Guaranteed Maximum Price (GMP) contract with Princeton University.
 - Turner has subcontracted the demolition work at the existing train canopy/platform as follows:
 - Canopy Demolition is subcontracted to LVI Demolition Services Inc.
 - Platform Demolition is subcontracted to EIC Associates, Inc.
- TIME LINE ON CANOPY DEMOLITION WORK
 - On 9/5/13 Turner had a pre-planning walk thru meeting with LVI regarding the demolition of the existing train platform canopy. The plan was work from south to north in removing the canopy. There was discussion regarding the detachment of the canopy from the South DINKY Station building in order to avoid potentially damaging the building.
 - A scheme of cutting the wood rafters that attached the canopy to the South DINKY Station was developed. This work would be accomplished by having workmen in a scissor lift under the canopy that would cut the section canopy which was tied into the South DINKY Station wall.
 - In planning the sequencing of the canopy demolition, the initial step was to free up the canopy from the South DINKY Station by cutting the existing wood rafters which tied the canopy into the South DINKY Station exterior wall. This portion of the canopy needed to be removed prior to the demolition of the canopy, in order to avoid any potential damage to the DINKY Station building when demolishing the canopy.
 - All of the demolition work and debris removal was to be completed in two (2) days.
 - On 9/19/13 at 7:00 am Turner held a Pre-Task Planning meeting for the demolition of the Canopy which was scheduled to happen later that same day. This meeting was attended by representatives of Turner and LVI. The issues reviewed at this meeting included :
 - Re-installation of site fence to insure train platform area was 100% secure
 - Equipment to be utilized during the demolition
 - Sorting and loading out of Canopy debris
 - General Housekeeping and demobilization of equipment and materials

PRINCETON UNIVERSITY
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FINAL DINKY CANOPY INCIDENT REPORT

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- On 9/19/13 at approximately 2:30 pm LVI had cut 2'-0 wide sections out of the canopy that was connected to the South DINKY Station, so as to avoid damaging the building when the canopy was removed. At approximately 3:15 pm LVI workers left for the day.
 - On 9/19/13 at approximately 3:45 pm a Turner Superintendent and LVI Foreman visually checked the canopy structure and found no evidence of the canopy being out of plumb or exhibiting audible stress. At approximately 4:00 pm Turner's Sr. Project Manager viewed the canopy and saw no evidence of stress being exhibited by the canopy structure.
 - On 9/19/13 at approximately 4:30 pm, after construction crews had left for the day, Turner was notified by Princeton's Department of Public Safety that the Canopy structure had fallen and that the Princeton First Aid and Rescue had been notified. Turner immediately notified LVI of the incident and moved forward to cordon off the site. Princeton Emergency Rescue teams completed their investigation at 9:30 pm and confirmed no one had been trapped under the canopy debris and that the site was being turned over to Princeton University and Turner for cleanup operations. Turner and LVI immediately commenced the removal and clean up of the canopy debris.
 - On 9/20/13 Turner a second Pre-Task Planning was held at 7:00am which was attended by representatives of Turner; LVI; PJM. The issues reviewed at this meeting included:
 - Establishment of controlled access zone
 - Reconfirm that all areas surrounding the site were 100% secure
 - Review of demolition equipment to be utilized for debris removal
 - Sorting and Load out of debris
 - General Housekeeping and clean up of the site
 - On 9/20/13 at approximately 1:30 pm all Canopy debris removal was completed by LVI
- CANOPY DEMOLITION PHOTOGRAPHIC DOCUMENTATION
 - ✓ 1/24/13 Photographs of Dinky Canopy Area 1/24/13 (3 Photographs)
 - ✓ 9/19/13 Photographs of Dinky Canopy Incident (4 Photographs)
 - ✓ 9/20/13 Photograph of Train Platform after debris removal (1 Photograph)

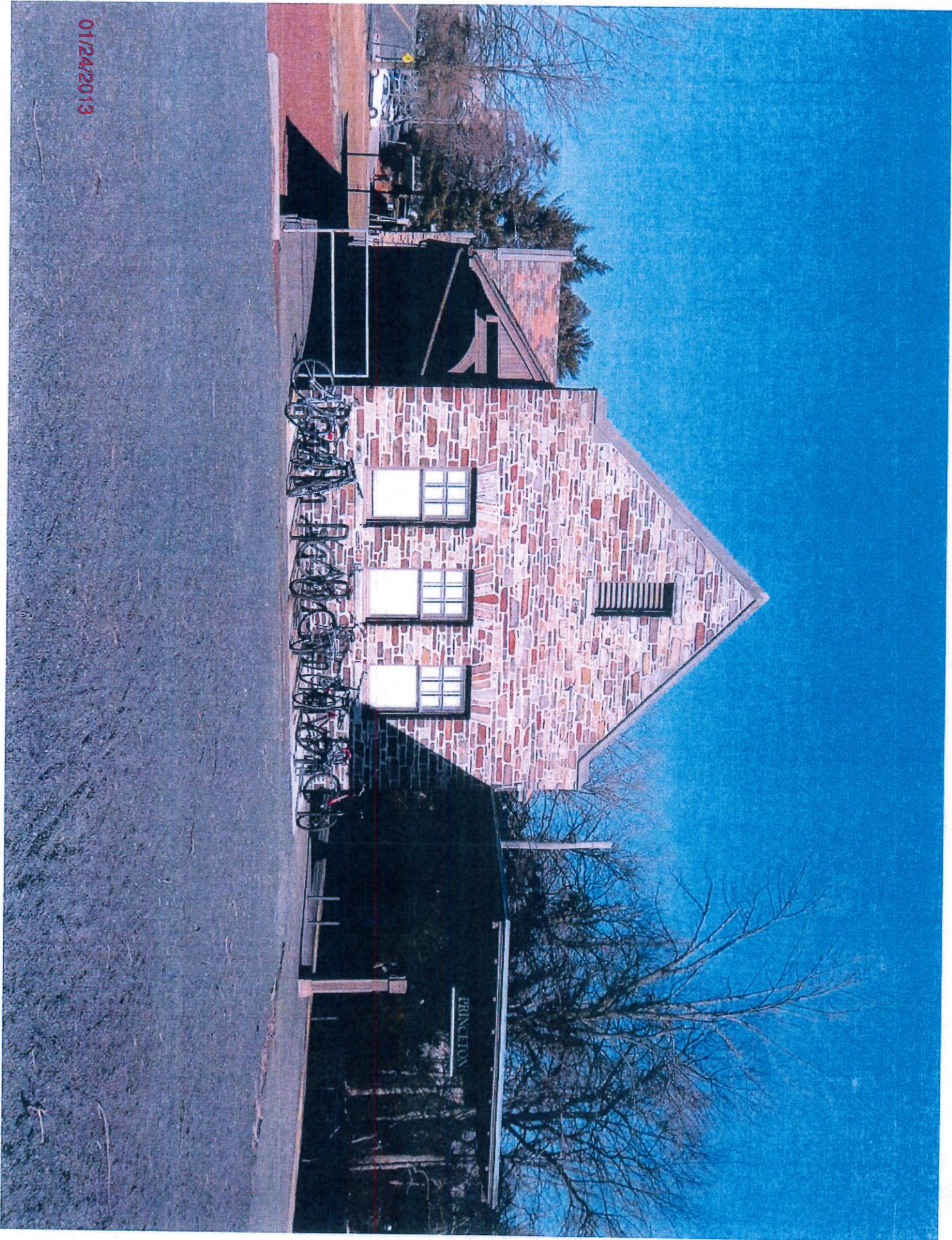
END OF REPORT



01/24/2013



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