



February 21, 2019

Mr. John Miller, PE New York State Department of Environmental Conservation Division of Environmental Remediation, Remedial Bureau C 625 Broadway, 11th Floor Albany, New York 12233-7014

Re: Remedial Design Addendum No. 2
Revised Bracing Design for Temporary Excavation Support Systems
Former Citizens Gas Works Manufactured Gas Plant Site
Carroll Gardens/Public Place
Borough of Brooklyn, Kings County, New York
Site No. C224012

Dear Mr. Miller:

Please find enclosed for your information Addendum No. 2 to the 100% Remedial Design Report (Remedial Design) for Parcels I (Block 471, Lot 1), II (Block 471, Lot 100), and III (Block 471, Lot 200) of the former Citizens Gas Works manufactured gas plant site (hereinafter, the "Site") located in Brooklyn, New York. Addendum No. 2 comprises revised Drawings S-101 (Parcel I Remedial Excavation Shoring Plan and Construction Sequence), S-501 (Remedial Excavation Shoring Details), and S-502 (Remedial Excavation Shoring Details). Revised Drawing S-101 reflects a change in one of the wale sizes for the temporary excavation support system in Remedial Excavation Area 4. Revised Drawings S-501 and S-502 reflect a change from bolted connections to welded connections for the bracing used in the temporary excavation support systems for the remedial excavations on Parcels I and III of the Site. Revised items on each drawing are denoted with a revision triangle and are summarized in the revision block at the bottom of the drawing.

If you have any questions, please call me at (516) 545-2578, or contact me by e-mail at patrick.vanrossem@nationalgrid.com.

Sincerely,

Patrick J. Van Rossem MyB Patrick J. Van Rossem

Project Manager

Site Investigation & Remediation

Enclosure

cc: C. Doroski, NYSDOH

C. Tsiamis, USEPA

T. Leissing, National Grid

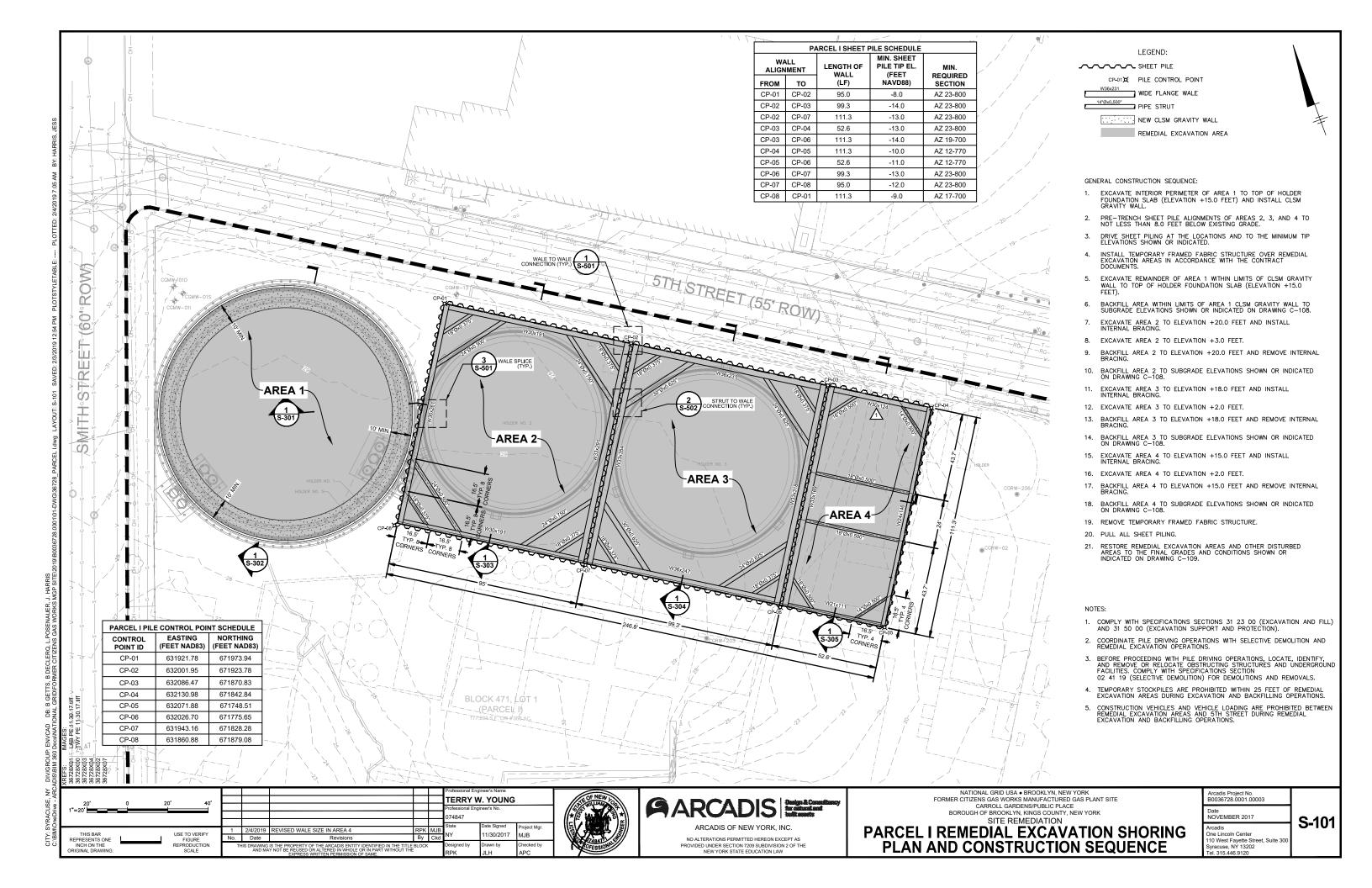
A. Prophete, National Grid

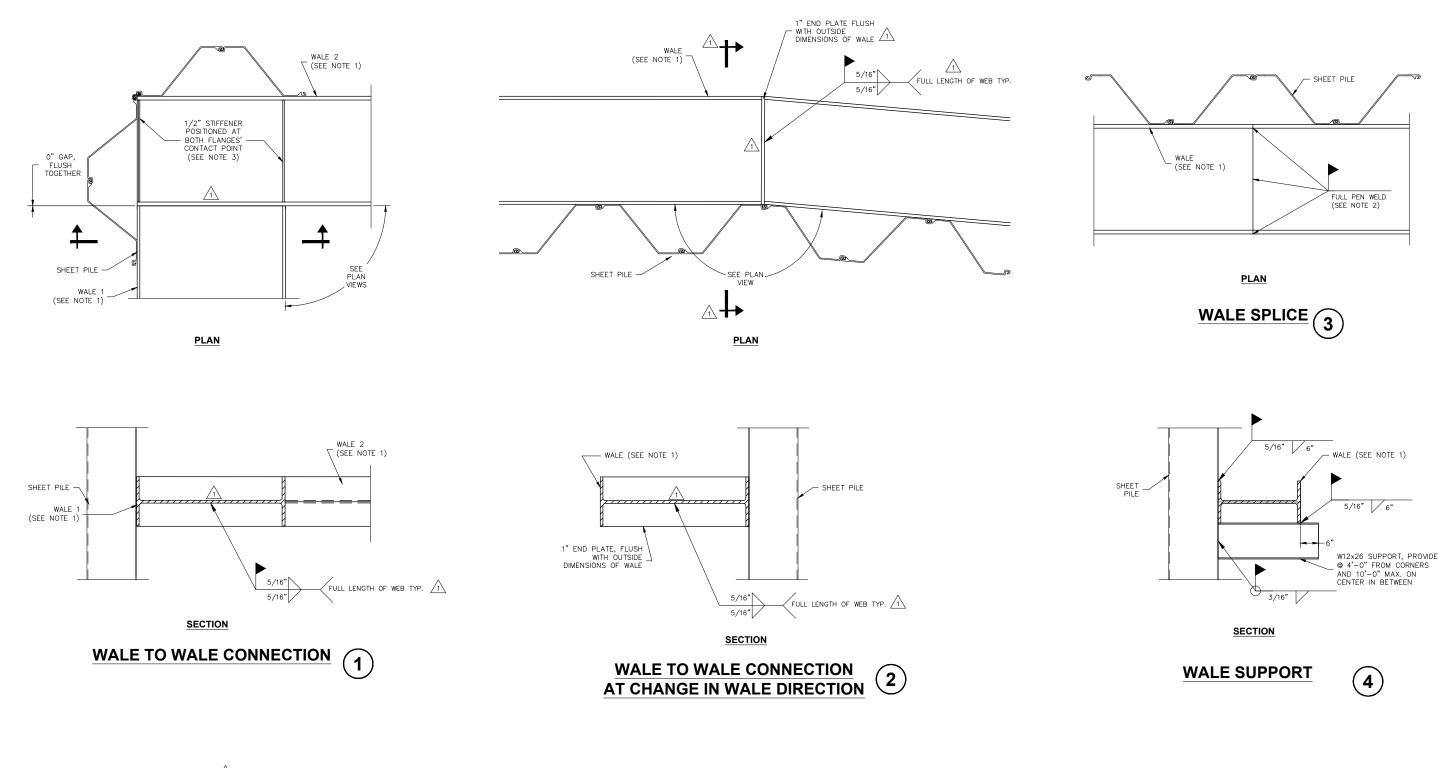
J. Alonzo, de maximis

C. Young, de maximis

T. Young, PE, Arcadis

M. Benoit, PE, Arcadis





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NOTES:

- 1. REQUIRED STRUT AND WALE SECTIONS VARY. SEE DRAWINGS S-101 AND S-102.
- PROVIDE FULL PENETRATION FIELD WELD SPLICES OF WALE BEAMS WHERE NEEDED TO ACCOMMODATE WALE
 PLACEMENT AND SHIPPING, CONTRACTOR MAY PROVIDE ALTERNATE CONTRACTOR—DESIGNED SPLICE DETAIL
 FOR PARTIAL LOADING, SUBMIT SIGNED AND SEALED CALCULATIONS BY A PROFESSIONAL ENGINEER SHOWING
 LOAD CAPACITIES FOR ALTERNATE SPLICE DETAIL WITH SHOP DRAWINGS FOR COORDINATION.
- 3. SEE DETAIL 3 ON DRAWING S-502 FOR WELD REQUIREMENTS.

| Professional Engineer's Name | UISA A. BOWE | Professional Engineer's Name | UISA A. BOWE | Professional Engineer's Name | UISA A. BOWE | Professional Engineer's No. | 086254 | State | Date Signed | No. | Date |





ARCADIS OF NEW YORK, INC.

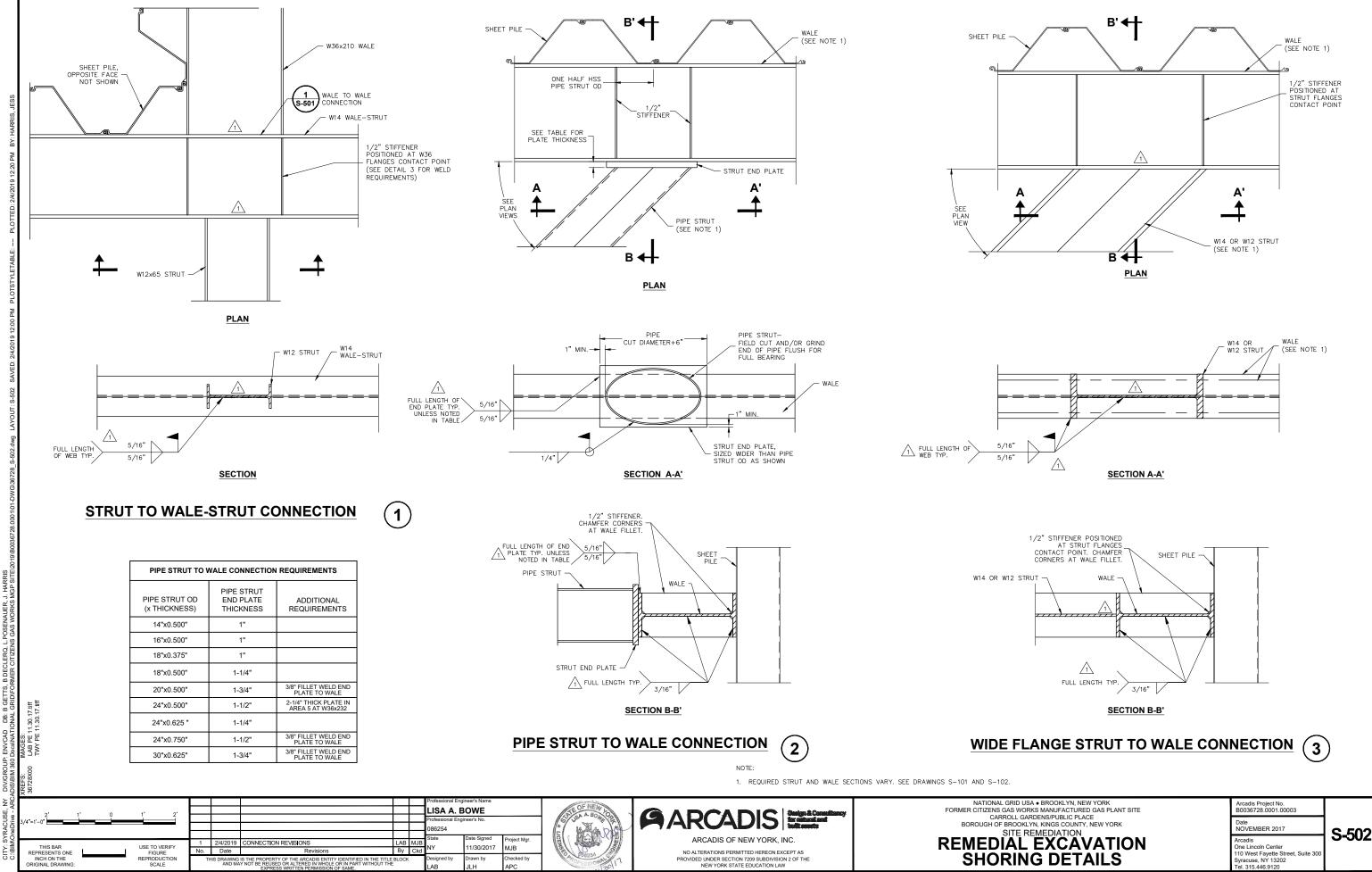
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NATIONAL GRID USA • BROOKLYN, NEW YORK FORMER CITIZENS GAS WORKS MANUFACTURED GAS PLANT SITE CARROLL GARDENS/PUBLIC PLACE BOROUGH OF BROOKLYN, KINGS COUNTY, NEW YORK

REMEDIAL EXCAVATION
SHORING DETAILS

Arcadis Project No. B0036728.0001.00003 Date NOVEMBER 2017

Arcadis One Lincoln Center 110 West Fayette Street, Suite 300 Syracuse, NY 13202 Tel. 315.446.9120 S-501



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