



March 2015

New York City Department of Sanitation
Marine Export of Solid Waste

COFFERDAM INPECTION REPORT

**SOUTHWEST BROOKLYN MARINE
TRANSFER STATION**



GREELEY AND HANSEN

Table of Contents

Cofferdam Investigation	1
Description of Structures	1
Observed Conditions	1
Conclusions and Recommendations	1

List of Figures

Figure 1: Vicinity Map.....	2
Figure 2: Photograph of Exposed Cofferdam.....	5
Figure 3: Photograph of Exposed Cofferdam.....	5
Figure 4: Photograph of Exposed Cofferdam.....	6

Southwest Brooklyn Marine Transfer Station Cofferdam Investigation

Greeley and Hansen was tasked to perform an inspection of the existing cofferdams at the site of the new Southwest Brooklyn Marine Transfer Station (MTS) now under construction for the Department of Sanitation of New York (DSNY), located at 400 Bay 41st Street (the Site or 1824 Shore Parkway), Brooklyn, NY. The purpose of this inspection was to satisfy the requirements of the NYS DEC Permit issued to DSNY for the MTS (NYSDEC Permit 2-6106-00002/00022). Specifically, Special Condition 24) ii) of the permit requires that:

When construction commences, the Permittee shall check the level of sand fill material in the circular cofferdams, to ensure that it is at least four feet above mean high water. If not, additional fill material must be imported to the site, in order to achieve the minimum required level.

Description of Structures

The former Southwest Brooklyn Marine Transfer Station is an overwater facility located on the south shore of Brooklyn, New York, west of Coney Island (Figure 1). The former MTS is not in use as a transfer station. A contract is underway to construct a new Marine Transfer Station adjacent to the existing structure. The Contractor tasked with this new construction has removed slabs at the Site that remained after the demolition of an incinerator on the upland portion of the site, exposing existing cofferdams along the North bulkhead. The cofferdams which are located along the base of the South and North piers and in the North pier of the former Marine Transfer Station are inaccessible and cannot be inspected because they are located under the structure. This inspection is limited to the cofferdams along the North bulkhead. The cofferdam structure is a secondary support for the bulkhead system.

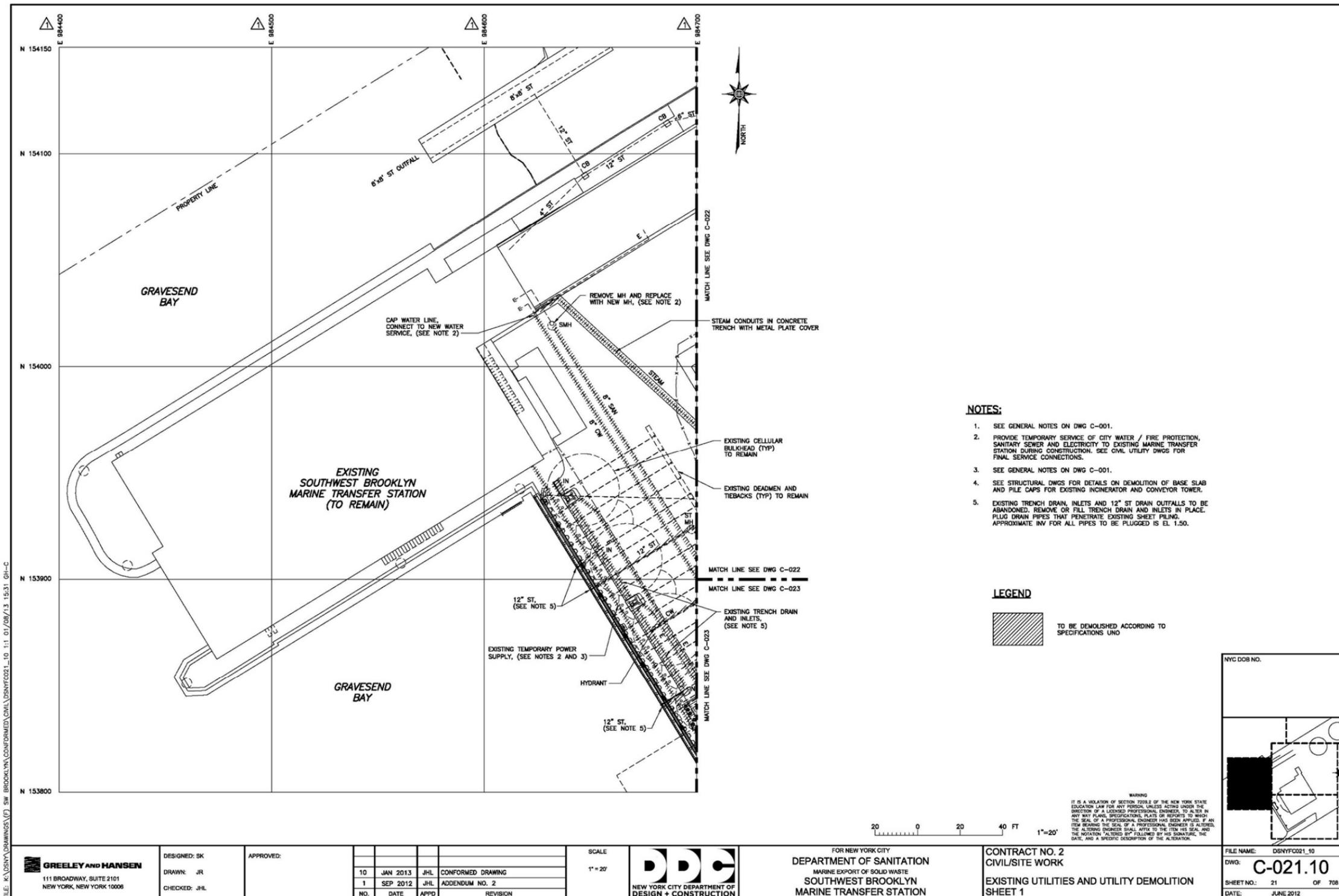
The North bulkhead is located along the offshore face of the site and is parallel to the waterway (Drawings C-021.10 and C-023.10). The bulkhead intersects the Northeast end of the South Pier and extends south. The cofferdams are located on the land side of this bulkhead. Approximately 225 feet of cofferdams were exposed for inspection in this area (Figures 2, 3 and 4).

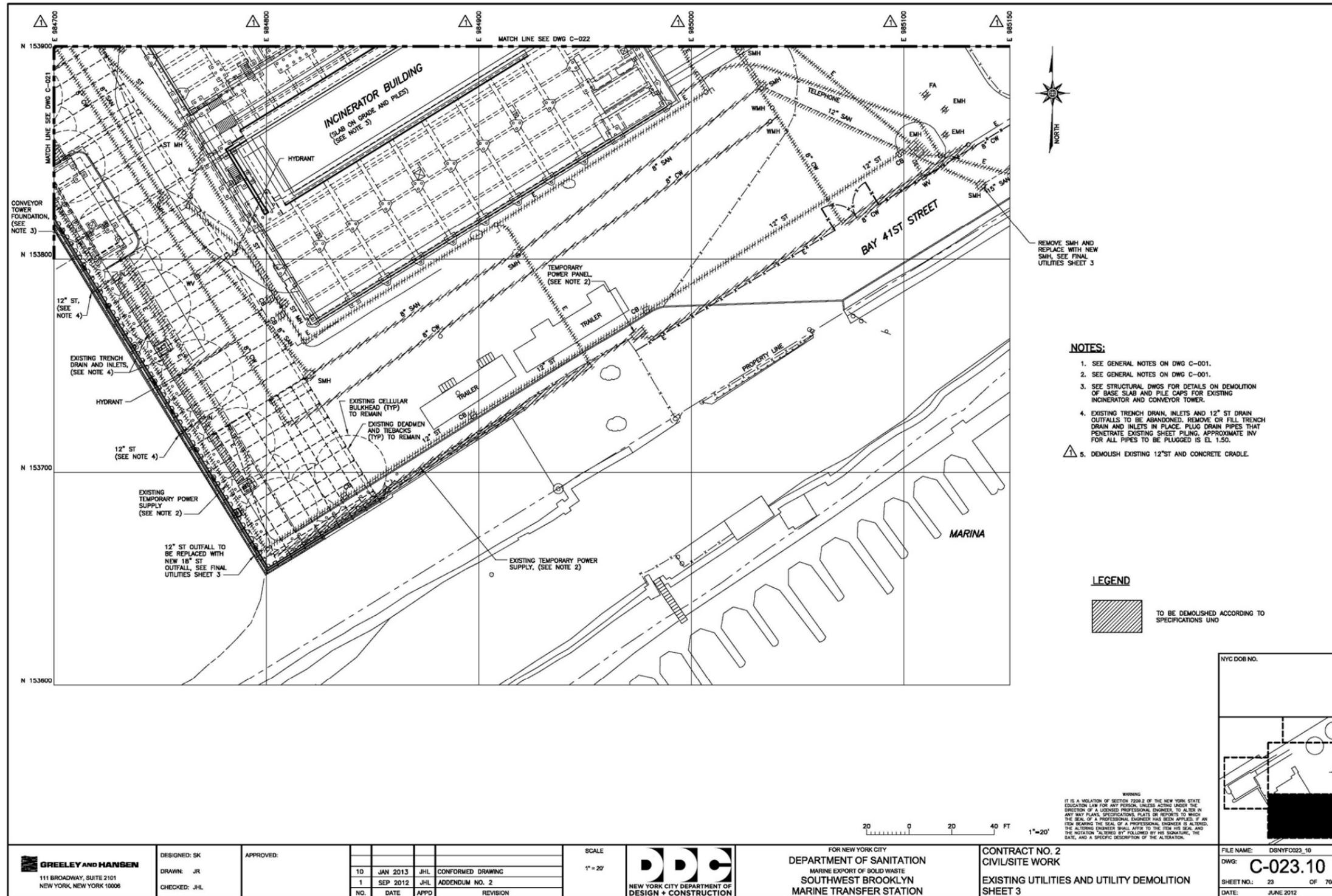
Observed Conditions

The Contractor performed the demolition of the slab along the North bulkhead and exposed the cofferdams. The cofferdams are at approximately the same elevation as the existing bulkhead as shown on the attached photographs. A visual inspection was performed and there is no apparent loss of fill in the cofferdams.

Conclusions and Recommendations

The cofferdams appear to be in good condition with no apparent loss of fill. Therefore, no remedial action is required or recommended at this time. During construction, inspection ports will be installed in the pier deck at the location of each cofferdam and as close to the bulkhead as possible. From these ports a stick measure can be taken of the cofferdam fill level every five years as required by Special Condition 24(ii) of the Permit.





FILE: K:\USNY\DRAWINGS\F SW BROOKLYN\CONFORMED\CIVIL\DSNYC023_10 1:1 01/06/13 09:34 GH-C

REMOVE SMH AND REPLACE WITH NEW SMH, SEE FINAL UTILITIES SHEET 3

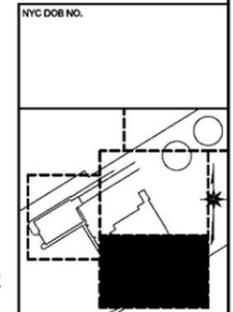
NOTES:

1. SEE GENERAL NOTES ON DWG C-001.
2. SEE GENERAL NOTES ON DWG C-001.
3. SEE STRUCTURAL DWGS FOR DETAILS ON DEMOLITION OF BASE SLAB AND PILE CAPS FOR EXISTING INCINERATOR AND CONVEYOR TOWER.
4. EXISTING TRENCH DRAIN, INLETS AND 12" ST DRAIN OUTFALLS TO BE ABANDONED. REMOVE OR FILL TRENCH DRAIN AND INLETS IN PLACE. PLUG DRAIN PIPES THAT PENETRATE EXISTING SHEET PILING. APPROXIMATE INV FOR ALL PIPES TO BE PLUGGED IS EL. 1.50.
5. DEMOLISH EXISTING 12" ST AND CONCRETE CRADLE.

LEGEND

TO BE DEMOLISHED ACCORDING TO SPECIFICATIONS UNO

WARNING
IT IS A VIOLATION OF SECTION 2208.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER IN ANY MANNER SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



GREELEY AND HANSEN
111 BROADWAY, SUITE 2101
NEW YORK, NEW YORK 10006

DESIGNED: SK
DRAWN: JR
CHECKED: JHL

APPROVED:

NO.	DATE	APPD	REVISION
10	JAN 2013	JHL	CONFORMED DRAWING
1	SEP 2012	JHL	ADDENDUM NO. 2

SCALE
1" = 20'



FOR NEW YORK CITY
DEPARTMENT OF SANITATION
MARINE EXPORT OF SOLID WASTE
SOUTHWEST BROOKLYN
MARINE TRANSFER STATION

CONTRACT NO. 2
CIVIL/SITE WORK
EXISTING UTILITIES AND UTILITY DEMOLITION
SHEET 3

FILE NAME: DSNYC023_10
DWG: **C-023.10**
SHEET NO.: 23 OF 708
DATE: JUNE 2012

Cofferdam Inspection Report



Figure 2: Photograph of Exposed Cofferdam



Figure 3: Photograph of Exposed Cofferdam



Figure 4: Photograph of Exposed Cofferdam