

Deep Foundations - Caisson Installation  
Information Sheet  
9/11/15

Project: **3218 North Clark**

Caisson Installation Start Date: **9/9/15**

Caisson Total Quantity: **56**

Caissons complete through 9/11/15: **7**

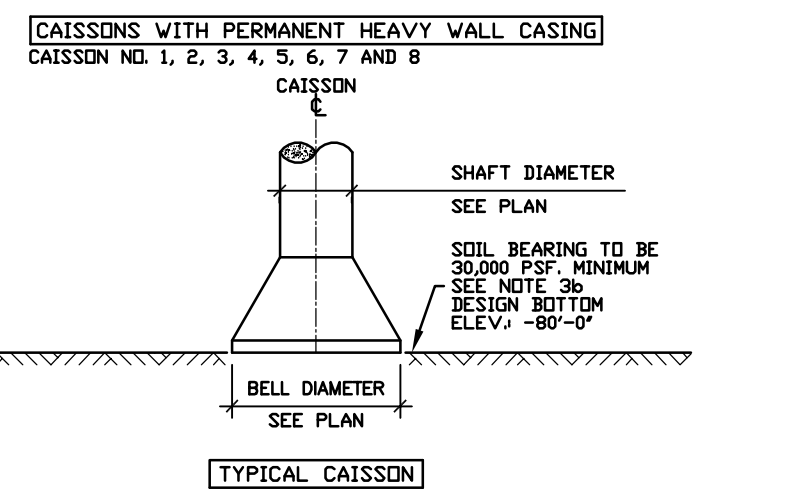
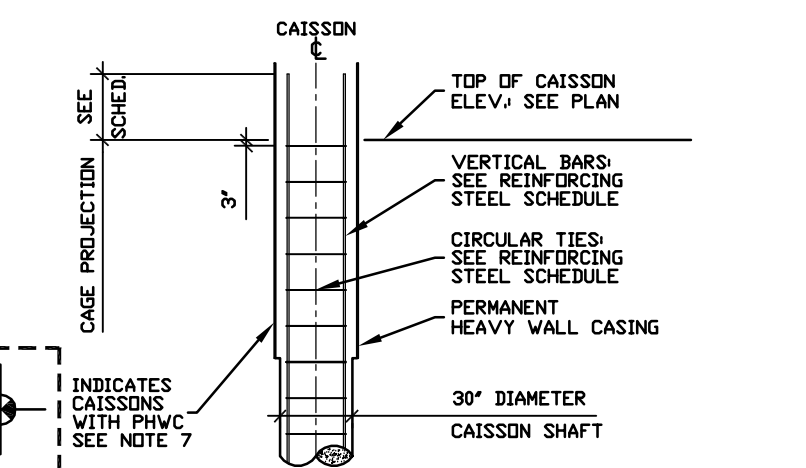
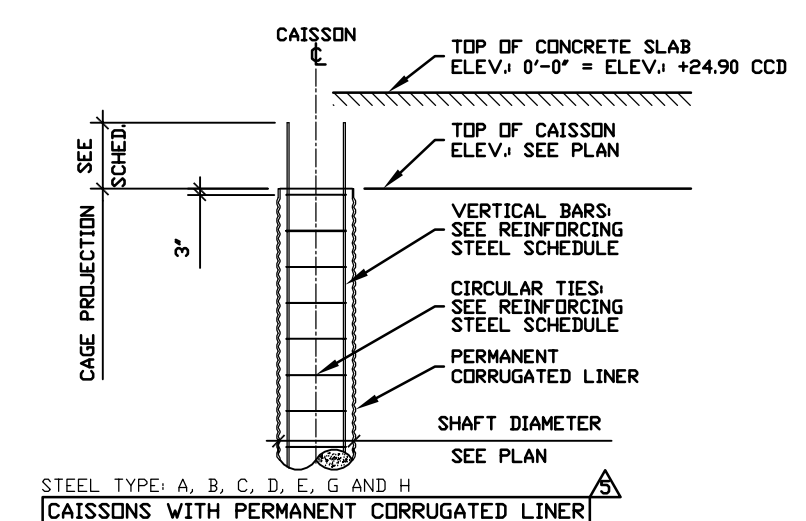
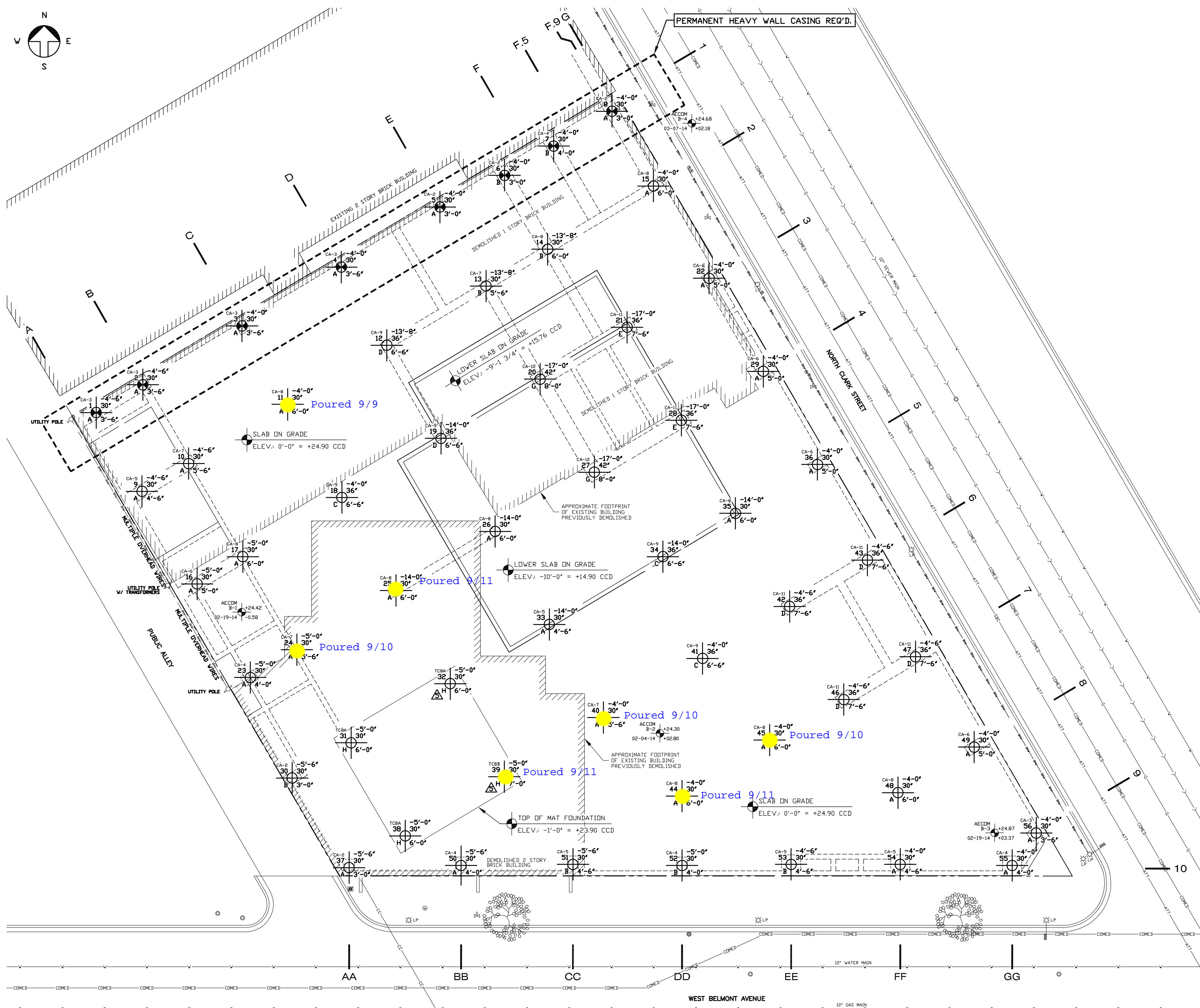
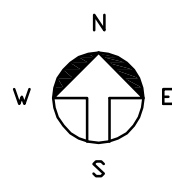
Anticipated Caissons Installed each day: **3-4**

See the attached Caisson Plan showing the location of the caissons. The highlighted caissons represent our progress through the close of business today, 9/11/15.

A caisson is a deep foundation component of the building structure. The process of installing caissons involves vibrating equipment that vibrates a temporary casing into the ground approximately 20 feet below existing grade so that a reinforced concrete shaft (caisson) can be poured to the design depth. Once the concrete has hardened they remove the temp casing, also with the vibrating equipment.

Over the course of the next 4 weeks the caisson contractor will begin in the morning at around 8am by vibrating to remove the temp casings from the prior day's operation. Afterwards, using the vibration equipment, they will install the temp casings for the caissons that they plan to pour that day. Each casing, whether being installed or removed will take about 20 minutes give or take. We estimate the vibration window for each day will generally be between 8am and 11am, in 20 minute increments.

The City of Chicago has approved the Caisson Installation Procedures for this project and has issued a building permit to install these caissons provided the construction testing agency installs a vibration monitor. This monitor has been installed and is active. The approved threshold for allowable vibrations in accordance with the building permit is .5"/Second Peak Particle Velocity (PPV). The vibration monitor instantly notifies a team of people in the event that the threshold is breached. To date the threshold has not been breached.



- NOTES:**
- TOP OF CONCRETE SLAB ELEV. 0'-0" = ELEV. +24.90 CCD.
  - CONCRETE STRENGTH TO BE 6,000 PSI @ 28 DAYS.
  - SOIL BEARING:
    - TO BE 30,000 PSF MINIMUM.
    - ELEVATION TO BE ESTABLISHED BY THE OWNER'S TESTING AGENCY.
  - REINFORCING STEEL:
    - TO BE ASTM A615, GRADE 60.
    - CIRCULAR TIE BAR LAPS TO BE STAGGERED 180°.
  - BELL DIAMETERS SHOWN ARE IN ACCORDANCE WITH THE SCHEDULED BELL DIAMETERS AS SHOWN ON REVISED STRUCTURAL DRAWINGS SHEETS NO. S1.0 AND S3.1 DATED: 08-14-15. TITLED 'CONSTRUCTION'. CAMERA INSPECTION IS REQUIRED.
  - INDICATES APPROXIMATE LOCATION OF SOIL BORINGS. CCD DATUM SHOWN.
  - INDICATES CAISSONS WITH PERMANENT HEAVY WALL CASING - PHWC. REVCON CAISSONS NO. 1, 2, 3, 4, 5, 6, 7 AND 8.
  - CAISSONS NO. 1, 3, 6, 7, 8, 9, 16, 23 AND 34 HAVE BEEN RELOCATED.
  - CAISSONS NO. 31, 32, 38 AND 39 FOR THE TOWER CRANE FOUNDATION HAVE BEEN MODIFIED FOR THE TOWER CRANE FOUNDATION DESIGN IN ACCORDANCE WITH THE REQUIREMENTS OF ACK ENGINEERING SERVICES, LTD. THEIR FOUNDATION DESIGN DATED: 08-26-15. CAMERA INSPECTION IS REQUIRED.

REINFORCING STEEL SCHEDULE																					
STEEL TYPE	SHAFT DIA.	NO. REQ'D.	VERTICAL BARS						CIRCULAR TIES									COMMENTS	STEEL TYPE		
			NO. OF BARS	BAR SIZE	TOP BAR	BTM. BAR	SPLICE LEN.	BAR PROJ.	HOOK LEN.	HOOK TYPE	TOTAL NO. OF TIES	TIE DIA.	BAR SIZE	NO. OF TIES	BAR SPAC.	NO. OF TIES	BAR SPAC.			NO. OF TIES	BAR SPAC.
A	30"	31	6	#7	18'-9"			2'-9"			12	24"	#4	12	18"O.C.				2'-0"	CAISSONS NO. 6, 7, 13, 14, 30, 51, 52 AND 53	B
B	30"	8	6	#7	19'-3"			3'-3"			12	24"	#4	12	18"O.C.				2'-0"	CAISSONS NO. 18, 34 AND 41	C
C	36"	3	7	#8	18'-9"			2'-9"			12	30"	#4	12	18"O.C.				2'-0"	CAISSONS NO. 12, 19, 42, 43, 46 AND 47	D
D	36"	6	7	#8	19'-3"			3'-3"			12	30"	#4	12	18"O.C.				2'-0"	CAISSONS NO. 21 AND 28	E
E	36"	2	7	#8	21'-9"			5'-9"			12	30"	#4	12	18"O.C.				2'-0"	NOT USED	F
F																				NOT USED	F
G	42"	2	7	#9	21'-9"			5'-9"			12	36"	#4	12	18"O.C.				2'-0"	CAISSONS NO. 20 AND 27	G
H	30"	4	6	#7	23'-9"			3'-9"			14	24"	#4	14	18"O.C.				2'-0"	CAISSONS NO. 31, 32, 38 AND 39	H
J																				NOT USED	J

BAR LENGTH INCLUDES THE STANDARD HOOK AND SPLICE LENGTH (IF REQUIRED)

**REVCON**  
CONSTRUCTION CORPORATION

3218 NORTH CLARK  
EIGHT STORY MIXED USE BUILDING  
3200 NORTH CLARK STREET  
CHICAGO, ILLINOIS 60657

GC: CLARK CONSTRUCTION GROUP, LLC. SHEET 1 OF 1

- REVISED 08-31-2015
- REVISED 08-26-2015
- REVISED 08-25-2015
- REVISED 08-17-2015
- REVISED 07-20-2015

TESTING AGENCY NUMBER	DATE COMPLETED	SOIL BORING LEGEND	CAISSON LEGEND
GROUND SURFACE ELEV.	SURFACE OF THE CLAY	CAISSON NUMBER	TOP ELEV. SHAFT DIA. BELL DIA.
		STEEL TYPE	

SCALE: 1"=20'-0"

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