

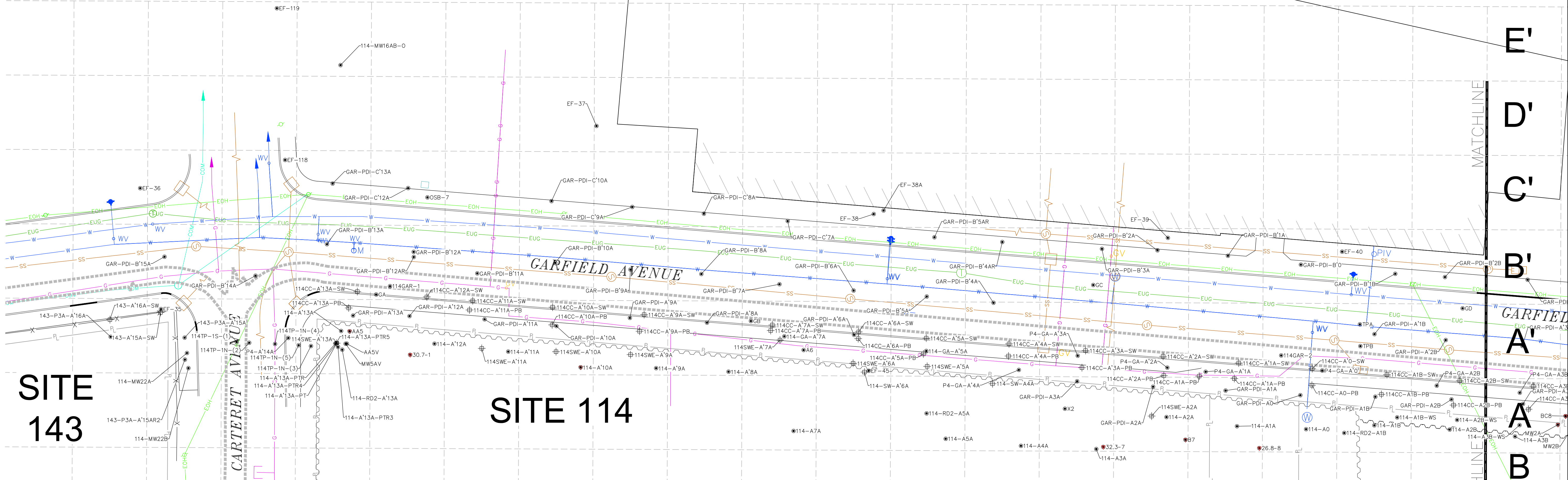
## **Appendix C**

### **Cross-Section Diagrams**

Cross-section diagrams were previously provided as part of the NJDEP-approved Garfield Avenue Roadway RAWP. If discrepancies between the cross sections and Figure 5-1 and Table 5-1 provided as part of this RAR are present, Figure 5-1 and Table 5-1 supersede the cross sections.

16A 15A 14A 13A 12A 11A 10A 9A 8A 7A 6A 5A 4A 3A 2A 1A 0 1B 2B 3B

E'  
D'  
C'  
B'  
A'  
A  
B

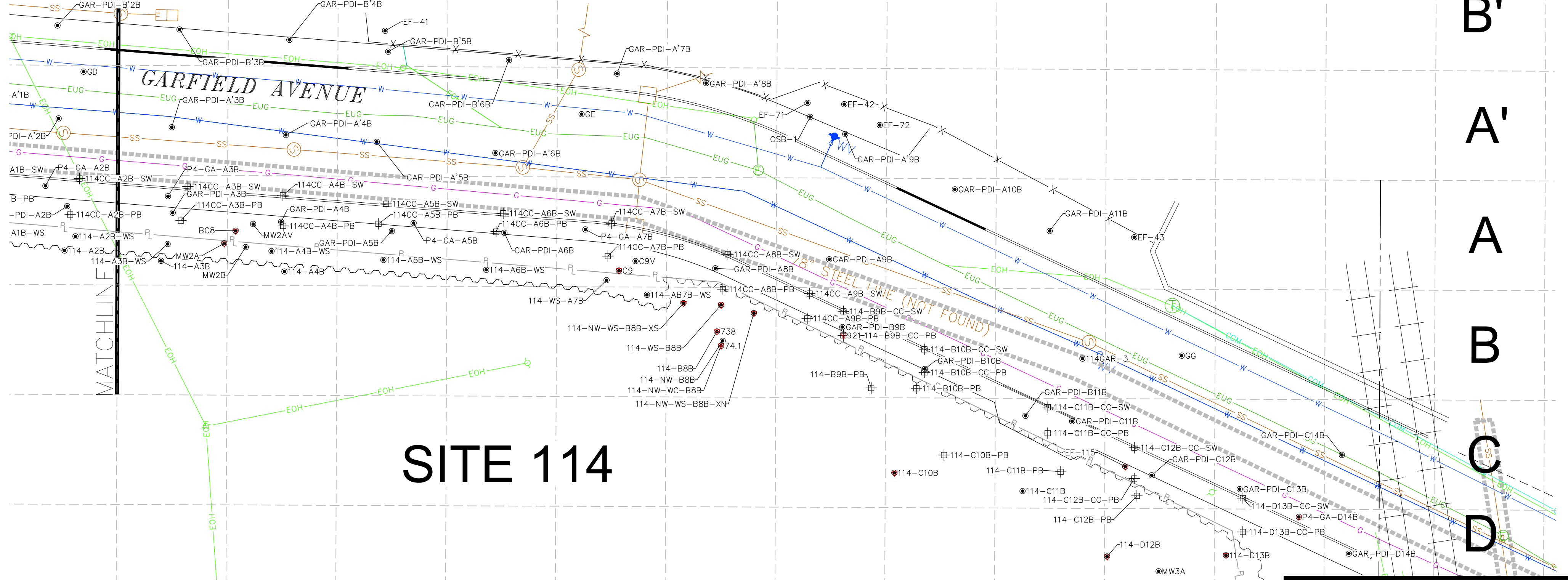


SITE 143

SITE 114

2B 3B 4B 5B 6B 7B 8B 9B 10B 11B 12B 13B 14B

B'  
A'  
A  
B  
C  
D



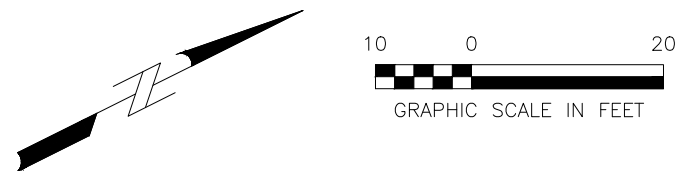
SITE 114

LEGEND

- PROPERTY LINE
- FENCE LINE
- WATER LINE
- GAS LINE
- SEWER LINE
- ELECTRIC OVERHEAD LINE
- ELECTRIC UNDERGROUND LINE
- COMMUNICATION LINE
- SEWER LINE
- CURB LINE
- SHEET PILE BUILDING
- ELECTRICAL OVERHEAD LINE
- SEWER MANHOLE
- GAS VALVE
- HYDRANT
- WATER VALVE
- WATER MANHOLE
- CATCH BASIN
- MANHOLE
- BORING AND/OR TEST PIT LOCATION
- PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
- NJ TRANSIT LIGHT RAIL

NOTE:  
BORING LOCATIONS WITHIN SITE 114 HAVE BEEN FULLY OR PARTIALLY REMOVED DURING SITE 114 REMEDIAL EXCAVATION ACTIVITIES.

AECOM



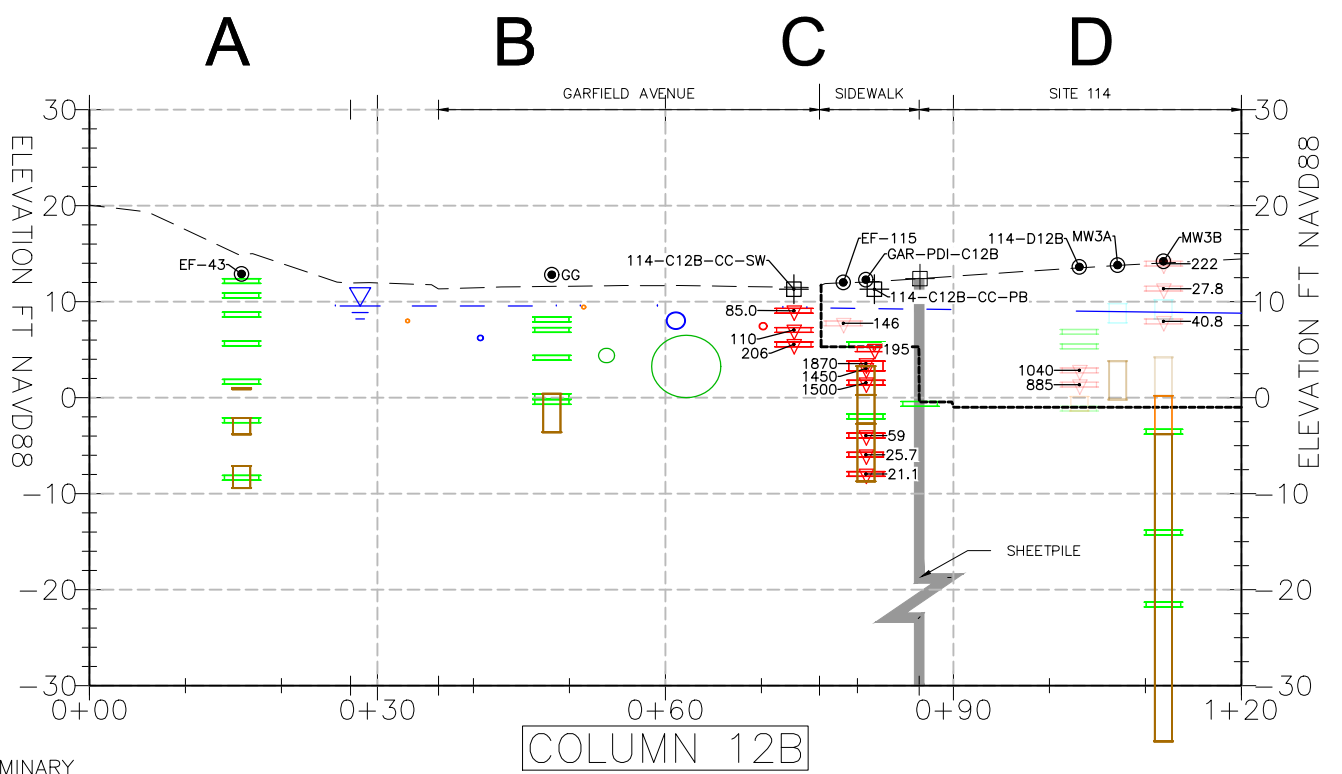
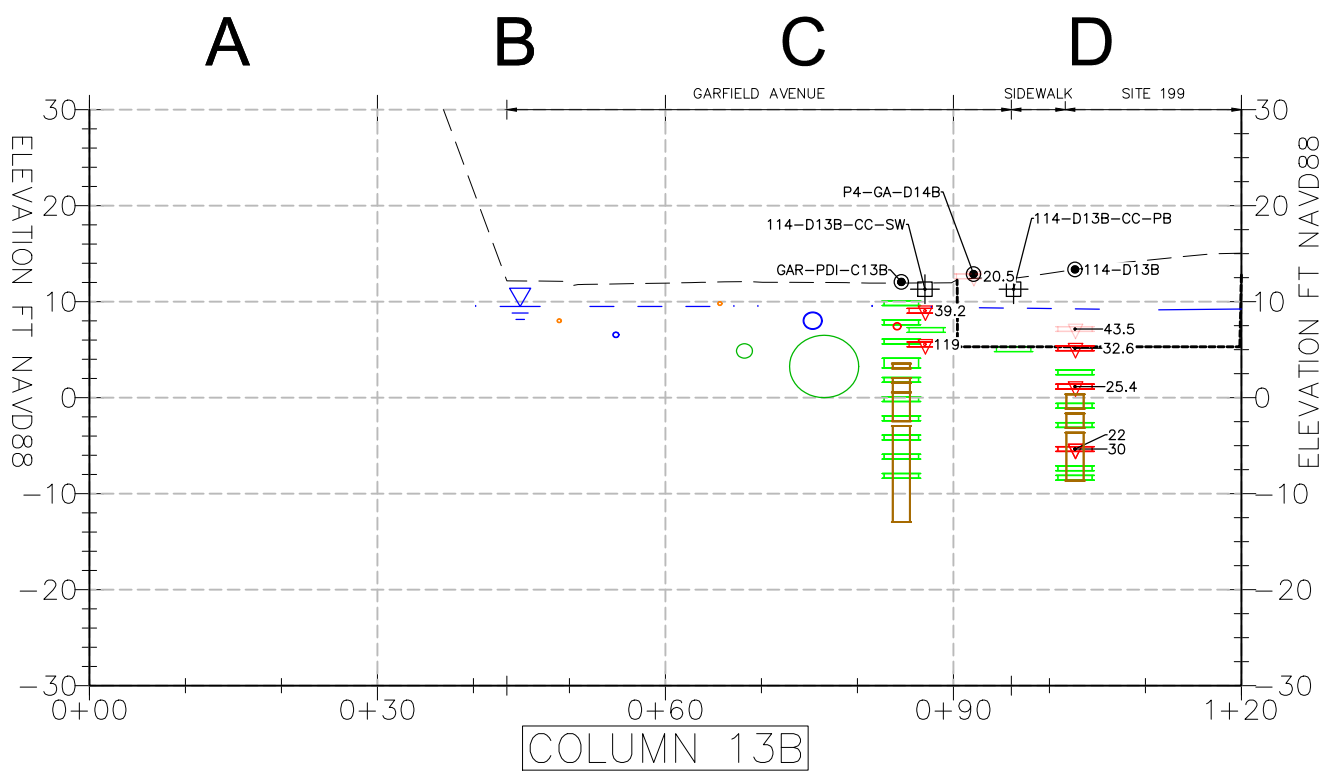
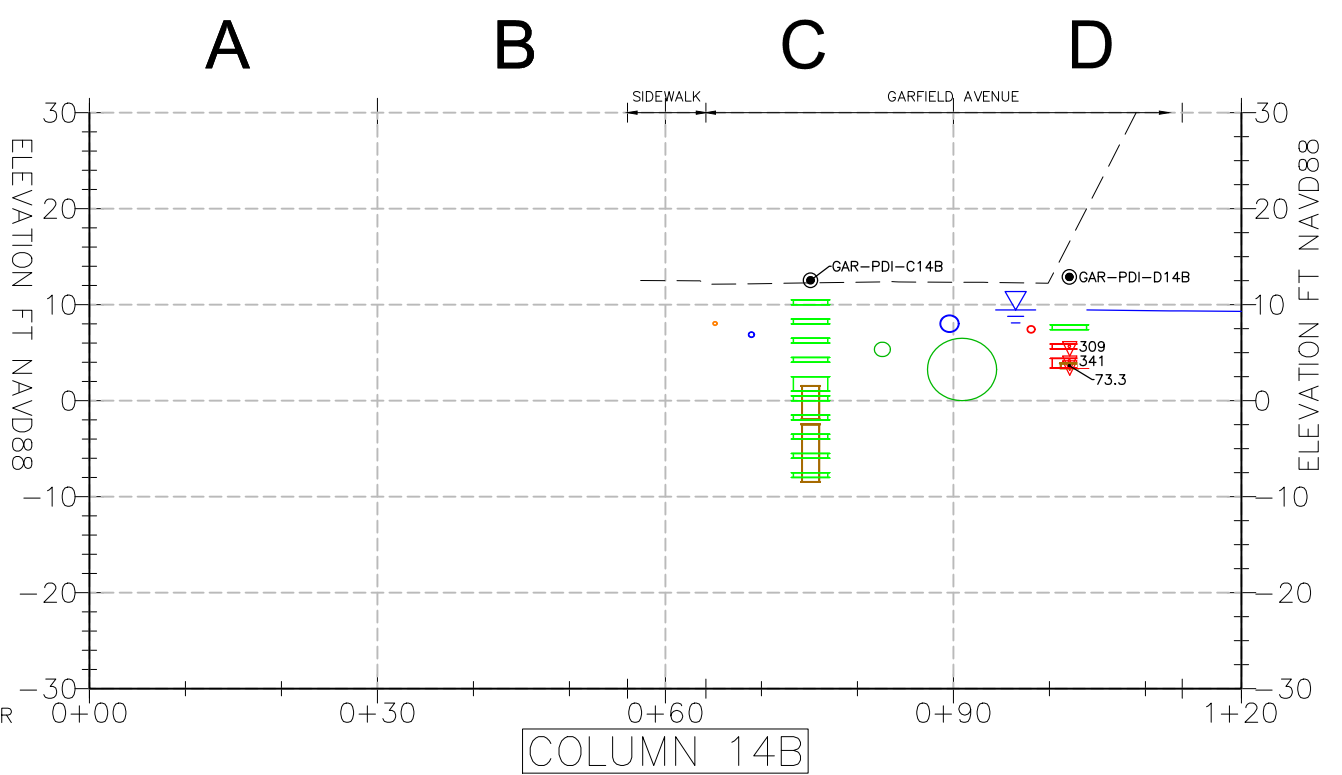
PPG  
GARFIELD AVE GROUP OF SITES  
JERSEY CITY, NEW JERSEY  
DATE: 06/21/2017 DRWN: TDL

GARFIELD AVENUE  
CROSS SECTION LOCATION PLAN  
FIGURE 1

Filepath: \\a01\homs\_eng\project\_files\ppg\_industries\garfield\_ave\_group\_of\_sites\garfield\_ave\_group\_of\_sites\cross\_section\fig1.dwg Date: 06/21/2017 5:11 PM

**LEGEND**

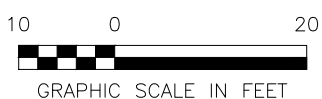
- COPR OBSERVED IN BORING
  - GGM OBSERVED IN BORING
  - MM OBSERVED IN BORING
  - UND OBSERVED IN BORING
  - SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
  - SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
  - 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
  - 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
  - ▼ 500 Cr<sup>+6</sup> SOIL CONCENTRATION >20 MG/KG
  - ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
  - PRE-CONSTRUCTION SURFACE
  - PREVIOUS EXCAVATION GRADE
  - PROPERTY LINE
  - WATER LINE (6" AND 20")
  - COMMUNICATION LINE (SIZE UNKNOWN)
  - GAS LINE (8")
  - COMBINED SEWER  
 18" VITRIFIED CLAY PIPE  
 24" CONCRETE BLOCK PIPE  
 78" CARBON STEEL PIPE
  - MANHOLE
- ACRONYMS:
- COPR CHROMITE ORE PROCESSING RESIDUE
  - Cr<sup>+6</sup> HEXAVALENT CHROMIUM
  - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL OF 1988 DATUM
  - GGM GREEN-GRAY MUD
  - MG/KG MILLIGRAMS PER KILOGRAM
  - MM MEADOW MAT
  - UND UNDISTURBED NATIVE DEPOSITS



- NOTES:**
1. ALL UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE
  2. PREVIOUS EXCAVATION GRADES SHOWN ARE PRELIMINARY AND SUBJECT TO SUBSEQUENT REVISIONS.
  3. BORING LOCATIONS WITHIN SITE 114 HAVE BEEN FULLY OR PARTIALLY REMOVED DURING SITE 114 REMEDIAL EXCAVATION ACTIVITIES, AS INDICATED BY THE TRANSPARENT (PALE COLORED) BOXES DEPICTING OBSERVATIONS AND ANALYTICAL RESULTS.

**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

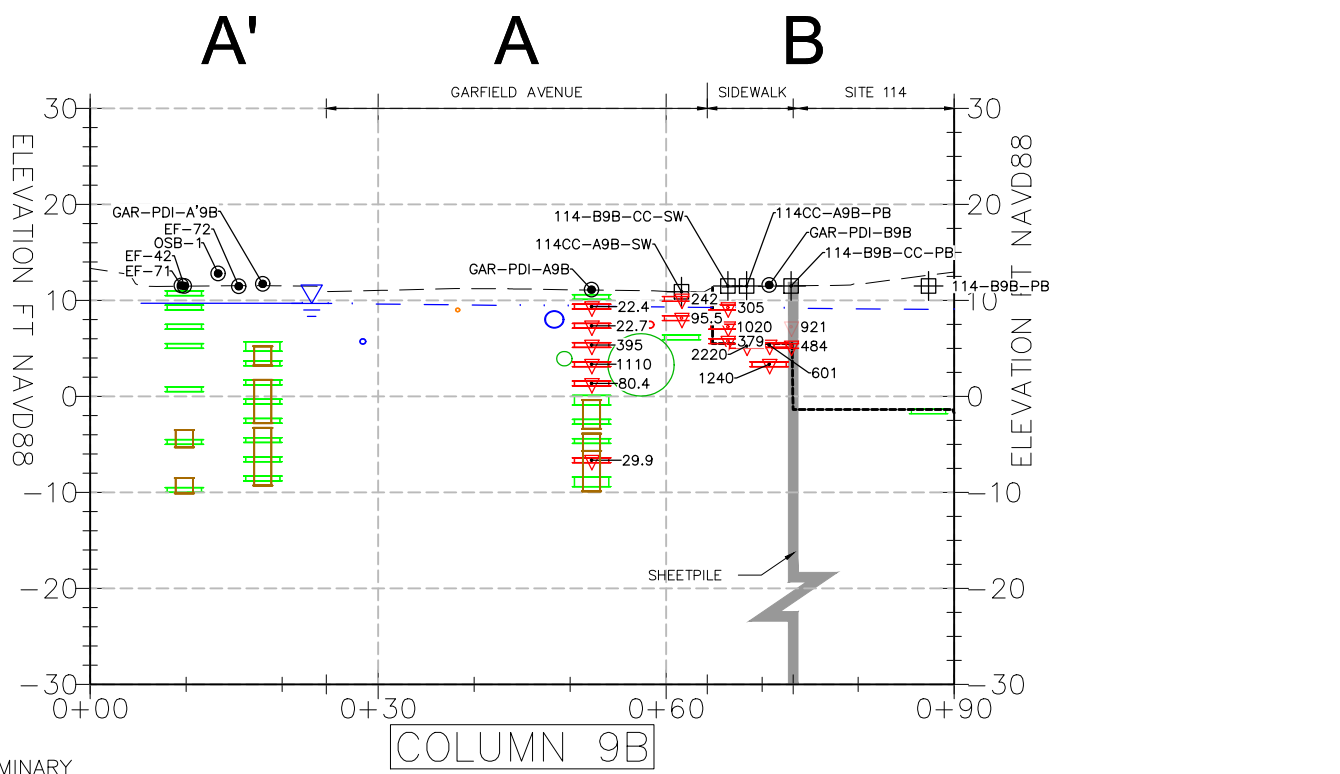
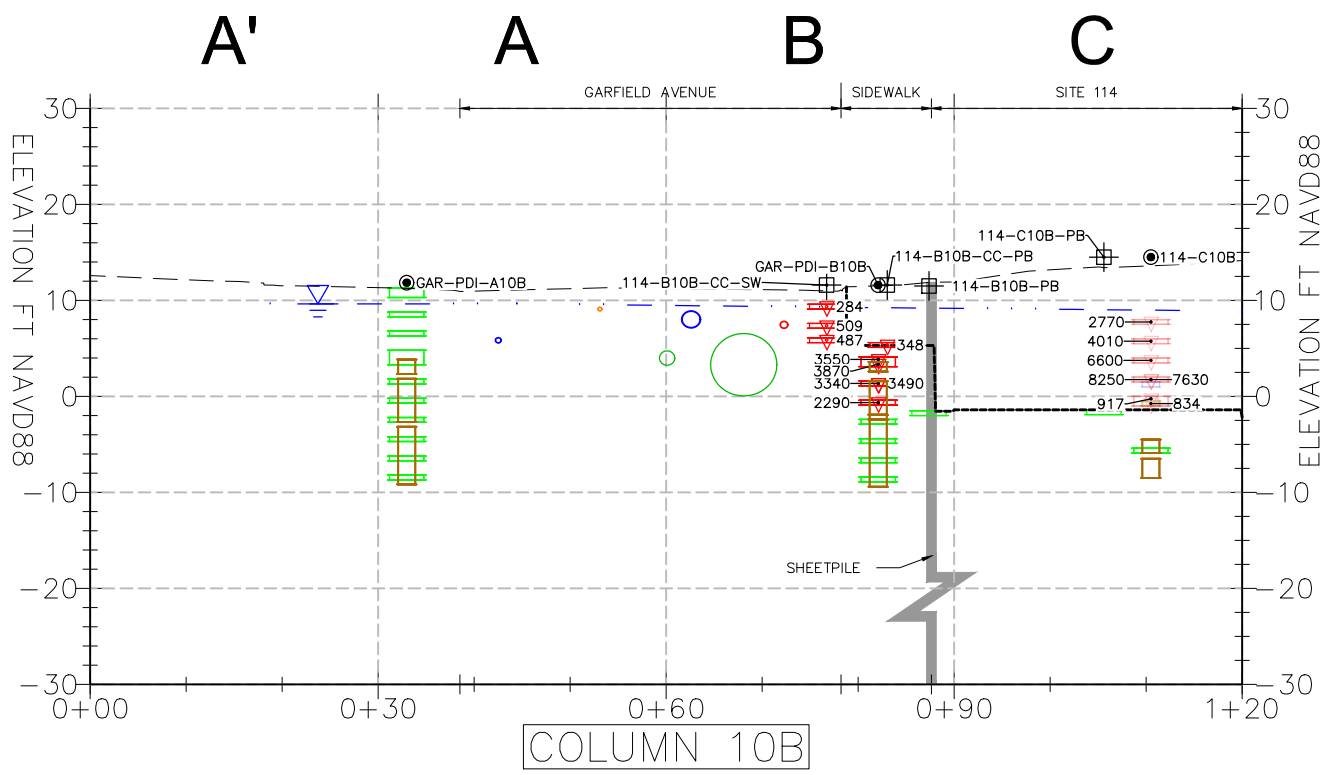
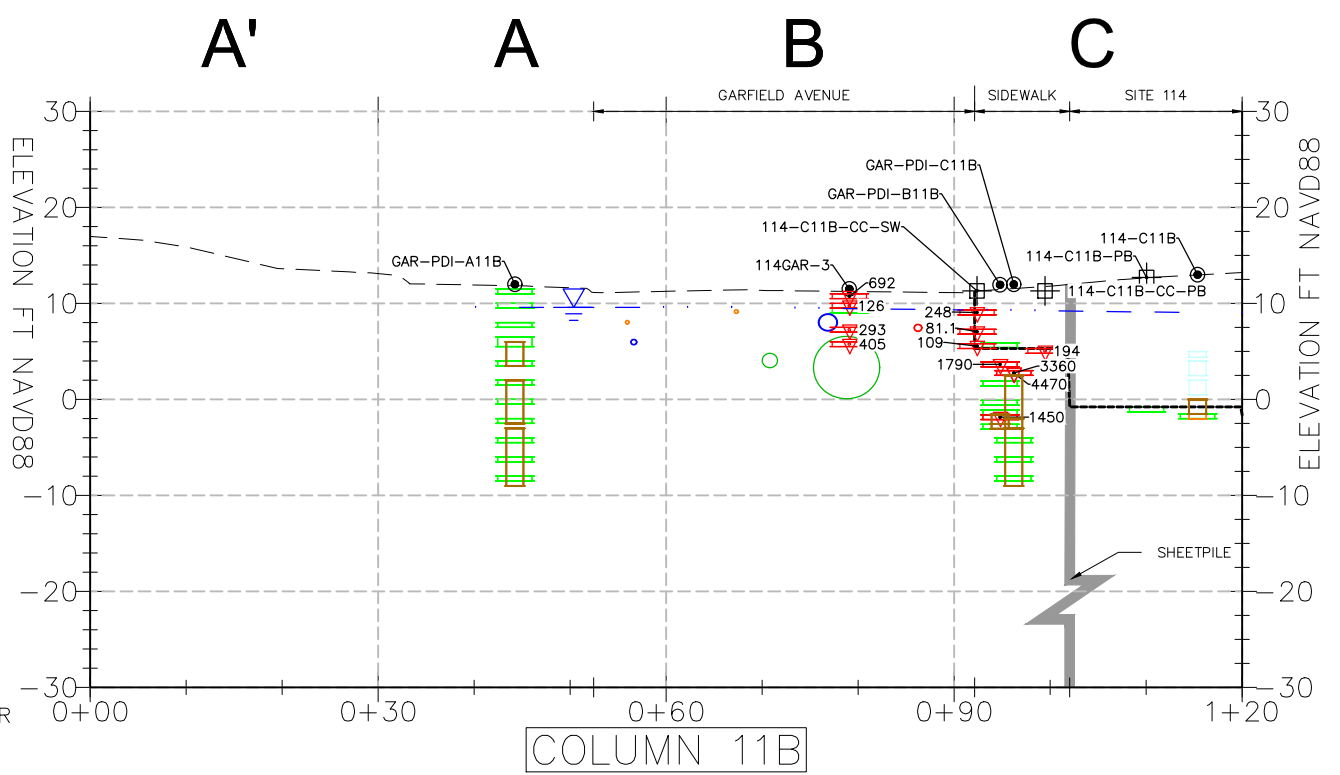
\*REFER TO MEMO TEXT, TABLE 1, FIGURE 1, AND ATTACHMENTS PROVIDED AS PART OF THIS SUBMITTAL FOR SPECIFIC DATA INQUIRIES. ITEMS ARE PROJECTED TO CENTERLINE OF COLUMN AND MAY APPEAR TO BE IN DIFFERENT LOCATIONS THAN SHOWN ON PLAN VIEW.



PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	GARFIELD AVENUE CROSS SECTIONS COLUMNS 14B - 12B
DATE: 06/30/2017    DRWN: TDL	FIGURE 2

**LEGEND**

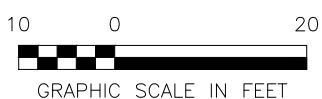
- COPR OBSERVED IN BORING
  - GGM OBSERVED IN BORING
  - MM OBSERVED IN BORING
  - UND OBSERVED IN BORING
  - SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
  - SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
  - 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
  - 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
  - ▼ 500 Cr<sup>+6</sup> SOIL CONCENTRATION >20 MG/KG
  - ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
  - PRE-CONSTRUCTION SURFACE
  - PREVIOUS EXCAVATION GRADE
  - P<sub>L</sub> PROPERTY LINE
  - WATER LINE (6" AND 20")
  - COMMUNICATION LINE (SIZE UNKNOWN)
  - GAS LINE (8")
  - COMBINED SEWER
  - 18" VITRIFIED CLAY PIPE
  - 24" CONCRETE BLOCK PIPE
  - 78" CARBON STEEL PIPE
  - MANHOLE
- ACRONYMS:
- COPR CHROMITE ORE PROCESSING RESIDUE
  - Cr<sup>+6</sup> HEXAVALENT CHROMIUM
  - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL OF 1988 DATUM
  - GGM GREEN-GRAY MUD
  - MG/KG MILLIGRAMS PER KILOGRAM
  - MM MEADOW MAT
  - UND UNDISTURBED NATIVE DEPOSITS



- NOTES:
1. ALL UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE
  2. PREVIOUS EXCAVATION GRADES SHOWN ARE PRELIMINARY AND SUBJECT TO SUBSEQUENT REVISIONS.
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










**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

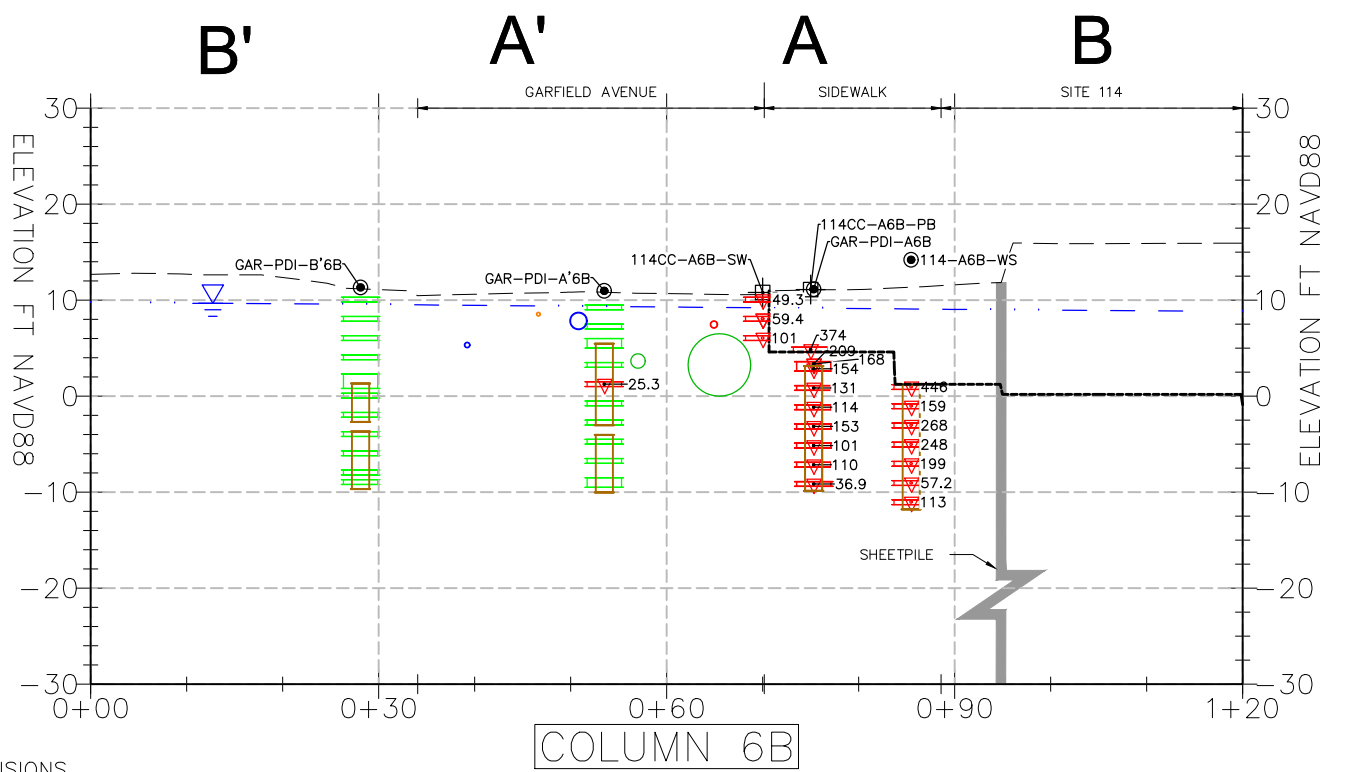
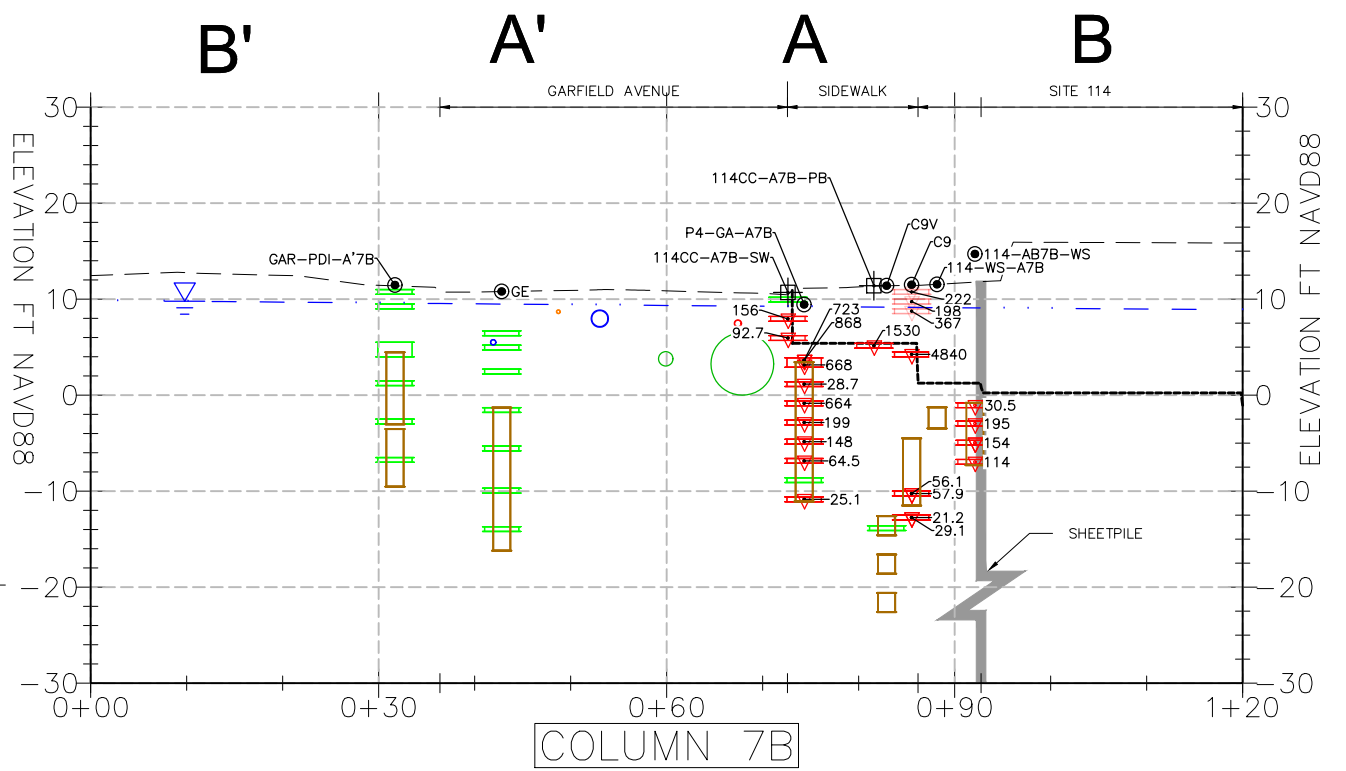
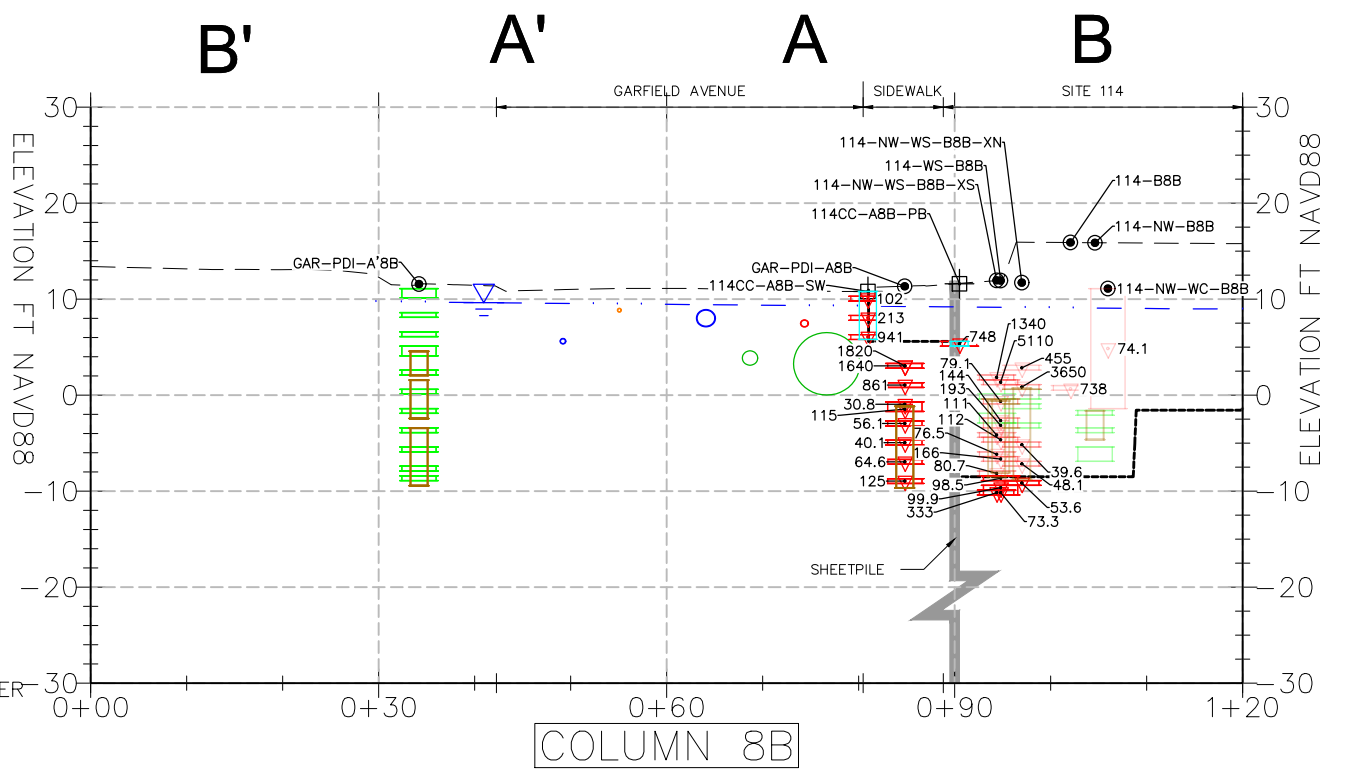
\*REFER TO MEMO TEXT, TABLE 1, FIGURE 1, AND ATTACHMENTS PROVIDED AS PART OF THIS SUBMITTAL FOR SPECIFIC DATA INQUIRIES. ITEMS ARE PROJECTED TO CENTERLINE OF COLUMN AND MAY APPEAR TO BE IN DIFFERENT LOCATIONS THAN SHOWN ON PLAN VIEW.



PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	GARFIELD AVENUE CROSS SECTIONS COLUMNS 11B - 9B
DATE: 06/30/2017	DRWN: TDL
<b>FIGURE 3</b>	

**LEGEND**

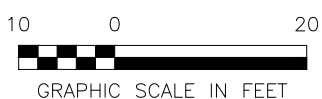
-  COPR OBSERVED IN BORING
  -  GGM OBSERVED IN BORING
  -  MM OBSERVED IN BORING
  -  UND OBSERVED IN BORING
  -  SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
  -  SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
  -  133-P3B-M41A BORING AND/OR TEST PIT LOCATION
  -  143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
  -  500 Cr<sup>+6</sup> SOIL CONCENTRATION > 20 MG/KG
  -  REPRESENTATIVE GROUNDWATER CONDITIONS
  -  PRE-CONSTRUCTION SURFACE
  -  PREVIOUS EXCAVATION GRADE
  -  P<sub>L</sub> PROPERTY LINE
  -  WATER LINE (6" AND 20")
  -  COMMUNICATION LINE (SIZE UNKNOWN)
  -  GAS LINE (8")
  -  COMBINED SEWER  
18" VITRIFIED CLAY PIPE  
24" CONCRETE BLOCK PIPE  
78" CARBON STEEL PIPE
  -  MANHOLE
- ACRONYMS:
- COPR CHROMITE ORE PROCESSING RESIDUE
  - Cr<sup>+6</sup> HEXAVALENT CHROMIUM
  - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988
  - GGM GREEN-GRAY MUD
  - MG/KG MILLIGRAMS PER KILOGRAM
  - MM MEADOW MAT
  - UND UNDISTURBED NATIVE DEPOSITS



- NOTES:**
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  2. PREVIOUS EXCAVATION GRADES SHOWN ARE PRELIMINARY AND SUBJECT TO SUBSEQUENT REVISIONS.
  3. BORING LOCATIONS WITHIN SITE 114 HAVE BEEN FULLY OR PARTIALLY REMOVED DURING SITE 114 REMEDIAL EXCAVATION ACTIVITIES, AS INDICATED BY THE TRANSPARENT (PALE COLORED) BOXES DEPICTING OBSERVATIONS AND ANALYTICAL RESULTS.

**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

\*REFER TO MEMO TEXT, TABLE 1, FIGURE 1, AND ATTACHMENTS PROVIDED AS PART OF THIS SUBMITTAL FOR SPECIFIC DATA INQUIRIES. ITEMS ARE PROJECTED TO CENTERLINE OF COLUMN AND MAY APPEAR TO BE IN DIFFERENT LOCATIONS THAN SHOWN ON PLAN VIEW.



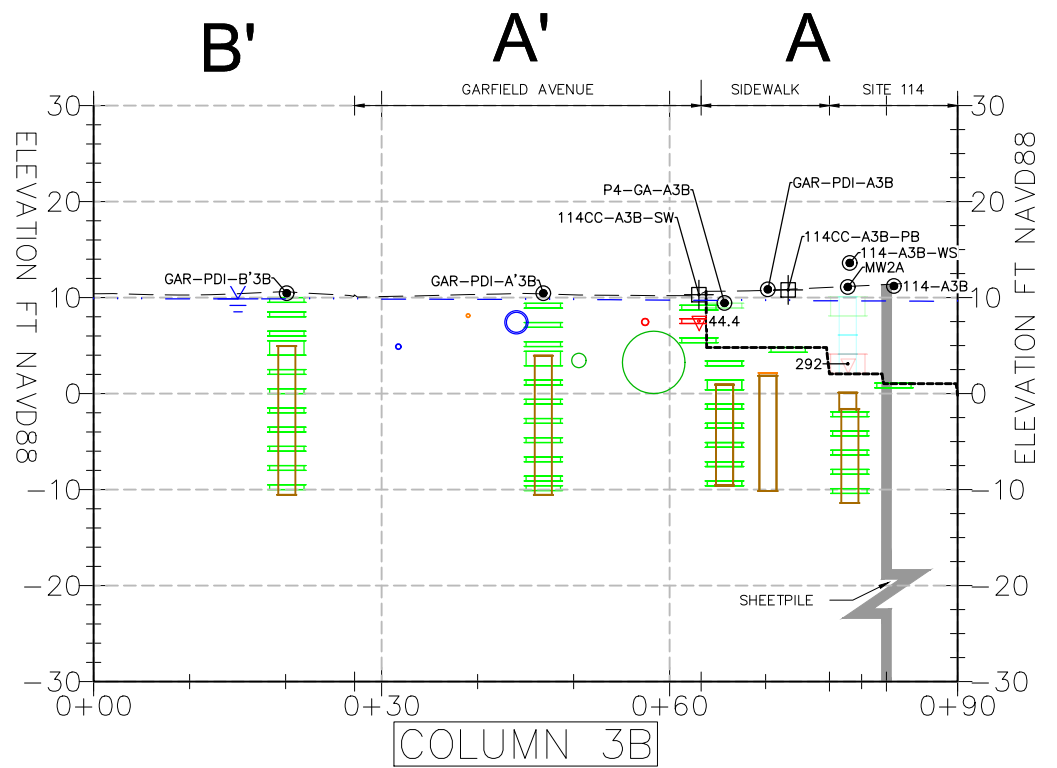
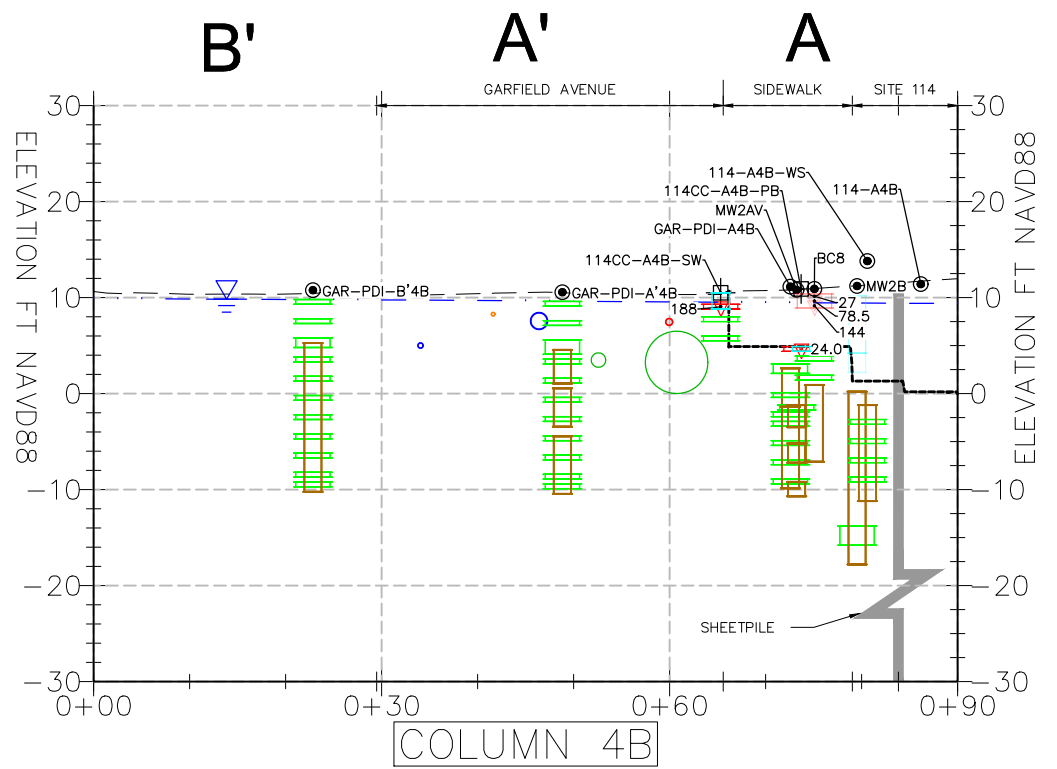
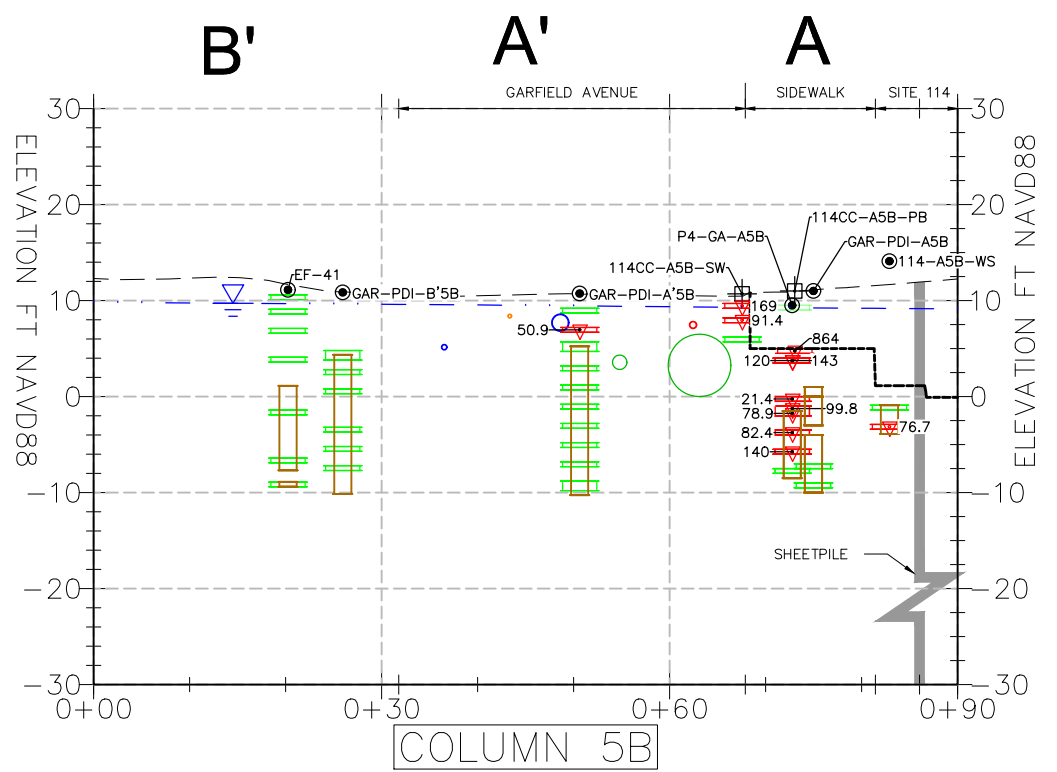
PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	GARFIELD AVENUE CROSS SECTIONS COLUMNS 8B - 6B
DATE: 06/30/2017	DRWN: TDJ

**FIGURE 4**

**LEGEND**

- COPR OBSERVED IN BORING
- GGM OBSERVED IN BORING
- MM OBSERVED IN BORING
- UND OBSERVED IN BORING
- SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
- SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
- 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
- 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
- ▼ 500 Cr<sup>+6</sup> SOIL CONCENTRATION >20 MG/KG
- ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
- PRE-CONSTRUCTION SURFACE
- PREVIOUS EXCAVATION GRADE
- PL — PROPERTY LINE
- WATER LINE (6" AND 20")
- COMMUNICATION LINE (SIZE UNKNOWN)
- GAS LINE (8")
- COMBINED SEWER
- 18" VITRIFIED CLAY PIPE
- 24" CONCRETE BLOCK PIPE
- 78" CARBON STEEL PIPE
- MANHOLE

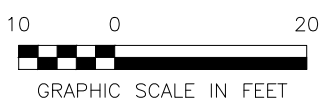
- ACRONYMS:
- COPR CHROMITE ORE PROCESSING RESIDUE
  - Cr<sup>+6</sup> HEXAVALENT CHROMIUM
  - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL OF 1988 DATUM
  - GGM GREEN-GRAY MUD
  - MG/KG MILLIGRAMS PER KILOGRAM
  - MM MEADOW MAT
  - UND UNDISTURBED NATIVE DEPOSITS



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  3. BORING LOCATIONS WITHIN SITE 114 HAVE BEEN FULLY OR PARTIALLY REMOVED DURING SITE 114 REMEDIAL EXCAVATION ACTIVITIES, AS INDICATED BY THE TRANSPARENT (PALE COLORED) BOXES DEPICTING OBSERVATIONS AND ANALYTICAL RESULTS.

**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

\*REFER TO MEMO TEXT, TABLE 1, FIGURE 1, AND ATTACHMENTS PROVIDED AS PART OF THIS SUBMITTAL FOR SPECIFIC DATA INQUIRIES. ITEMS ARE PROJECTED TO CENTERLINE OF COLUMN AND MAY APPEAR TO BE IN DIFFERENT LOCATIONS THAN SHOWN ON PLAN VIEW.

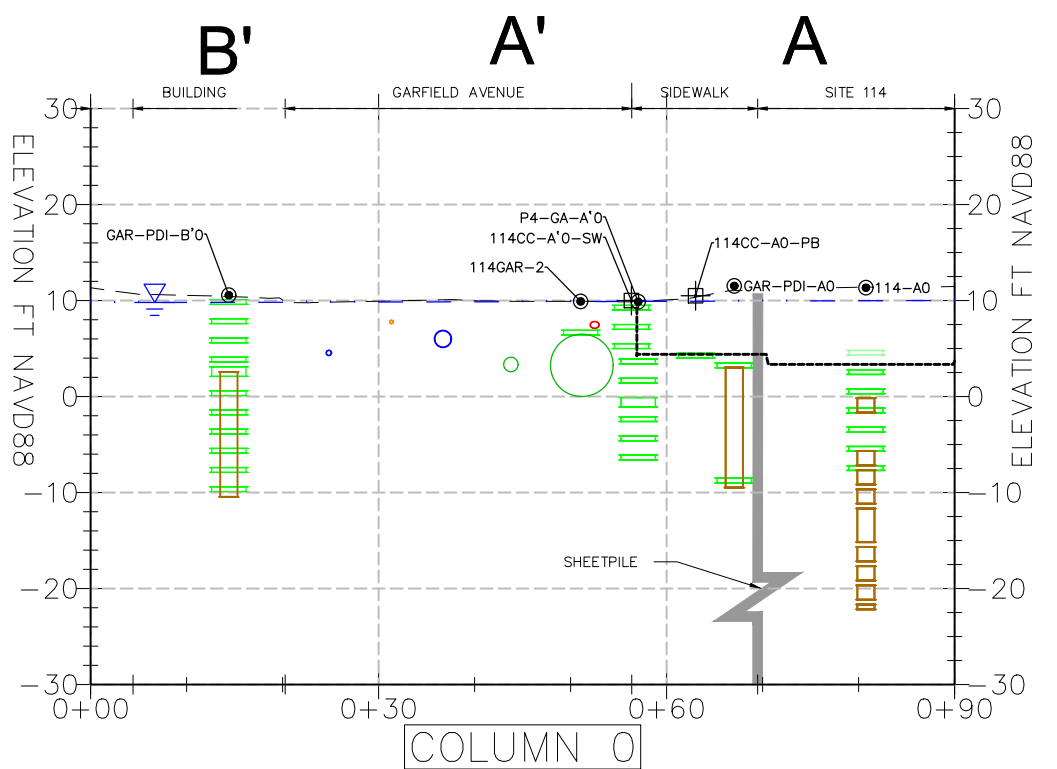
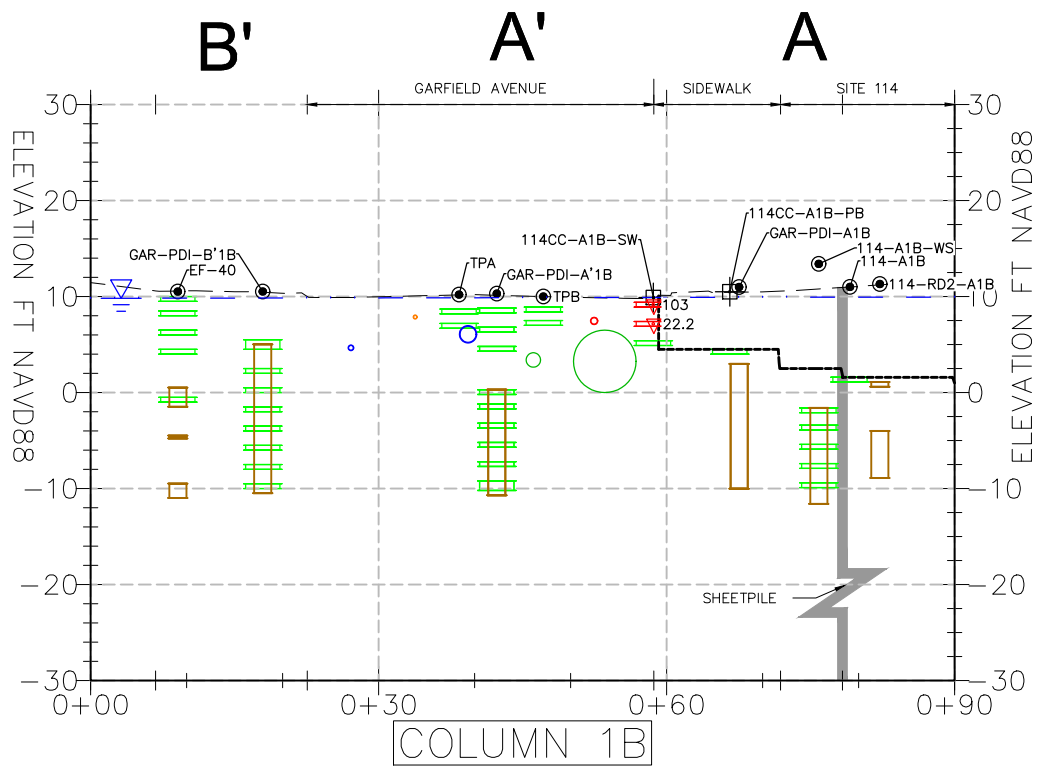
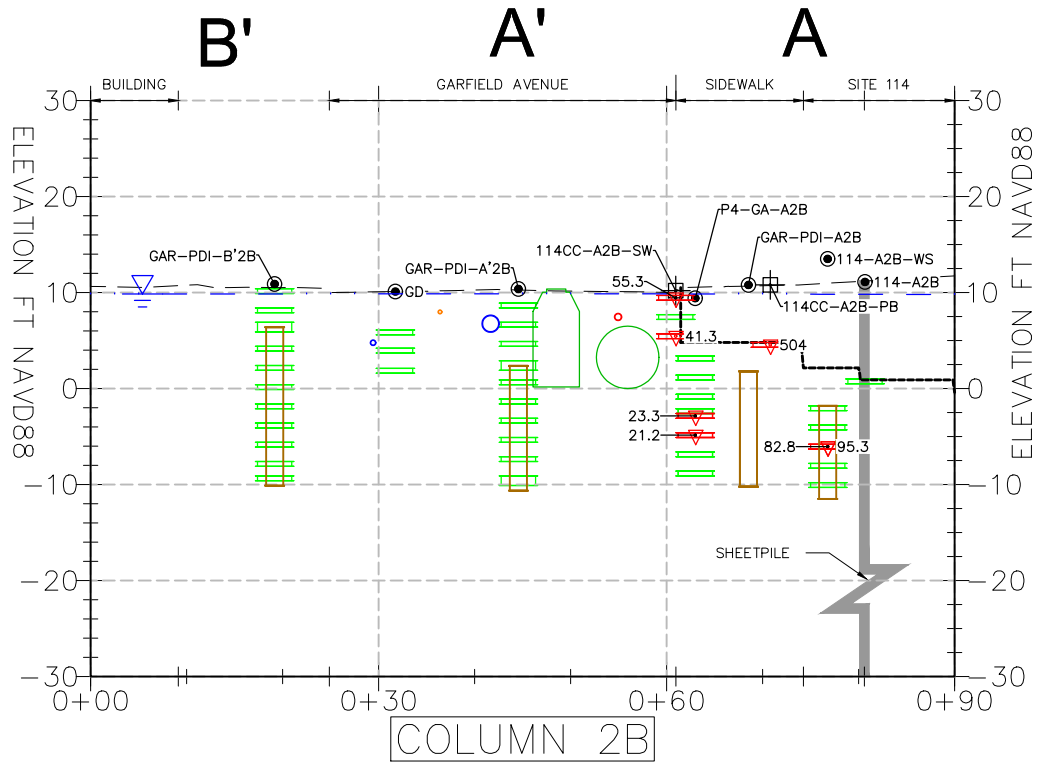


PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	GARFIELD AVENUE CROSS SECTIONS COLUMNS 5B - 3B
DATE: 06/30/2017	DRWN: TDL
<b>FIGURE 5</b>	

**LEGEND**

- COPR OBSERVED IN BORING
- GGM OBSERVED IN BORING
- MM OBSERVED IN BORING
- UND OBSERVED IN BORING
- SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
- SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
- 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
- 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
- ▼ 500 Cr<sup>+6</sup> SOIL CONCENTRATION >20 MG/KG
- ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
- PRE-CONSTRUCTION SURFACE
- - - PREVIOUS EXCAVATION GRADE
- P<sub>L</sub> — PROPERTY LINE
- WATER LINE (6" AND 20")
- COMMUNICATION LINE (SIZE UNKNOWN)
- GAS LINE (8")
- COMBINED SEWER
- 18" VITRIFIED CLAY PIPE
- 24" CONCRETE BLOCK PIPE
- 78" CARBON STEEL PIPE
- MANHOLE

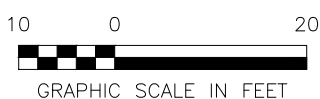
- ACRONYMS:
- COPR CHROMITE ORE PROCESSING RESIDUE
  - Cr<sup>+6</sup> HEXAVALENT CHROMIUM
  - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL OF 1988 DATUM
  - GGM GREEN-GRAY MUD
  - MG/KG MILLIGRAMS PER KILOGRAM
  - MM MEADOW MAT
  - UND UNDISTURBED NATIVE DEPOSITS



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**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

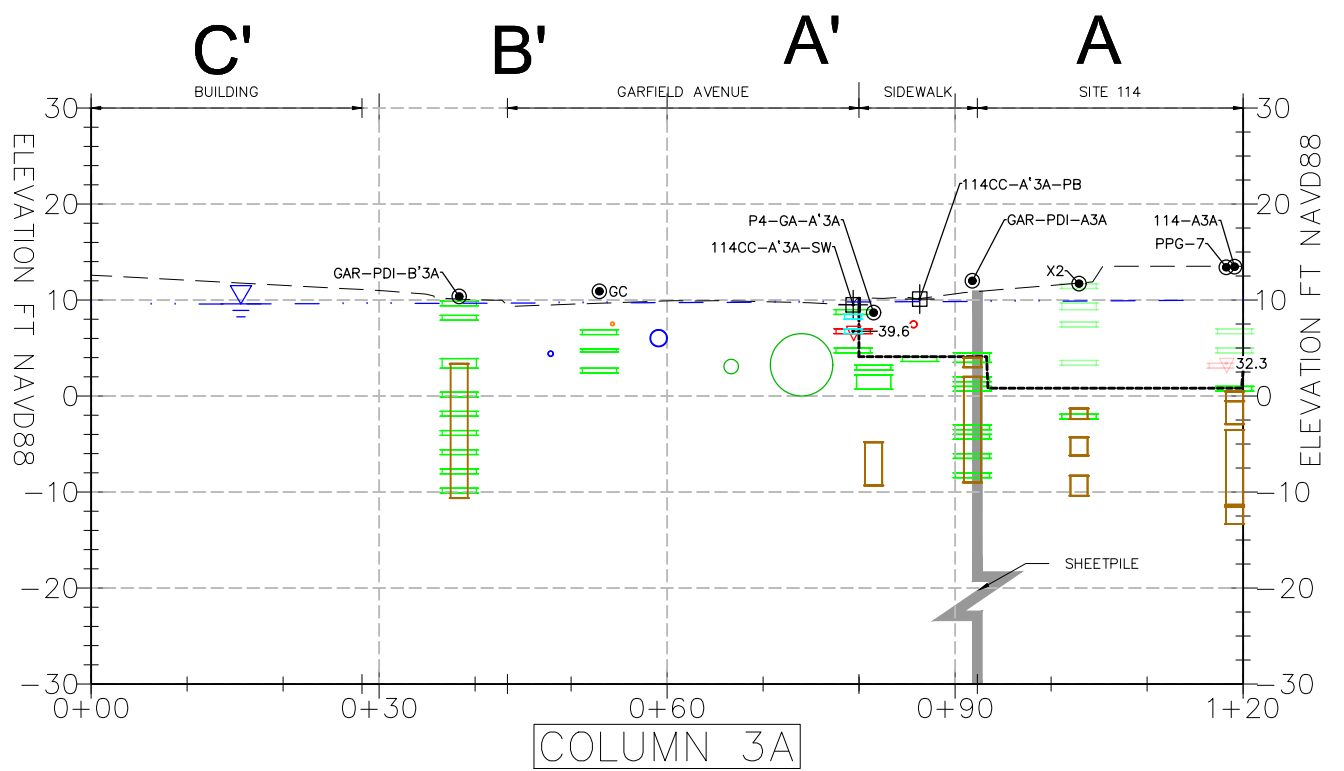
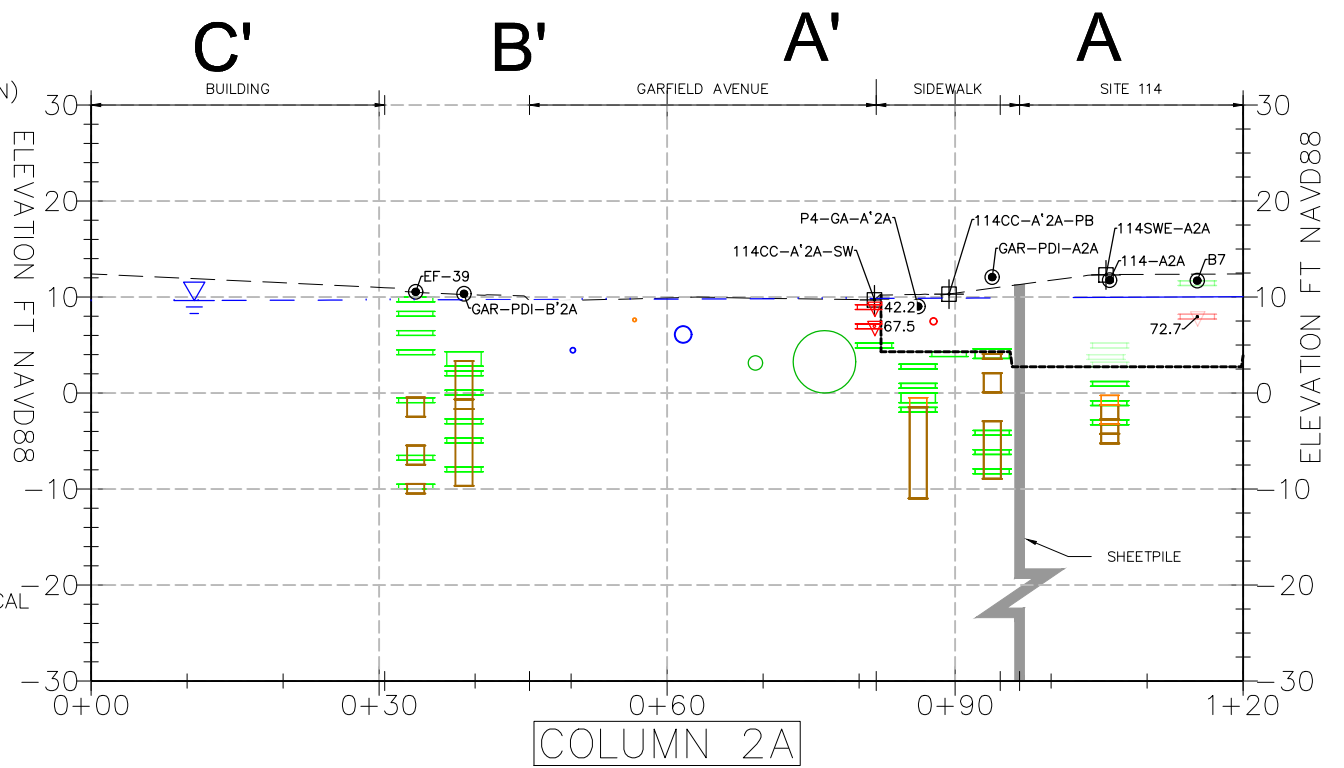
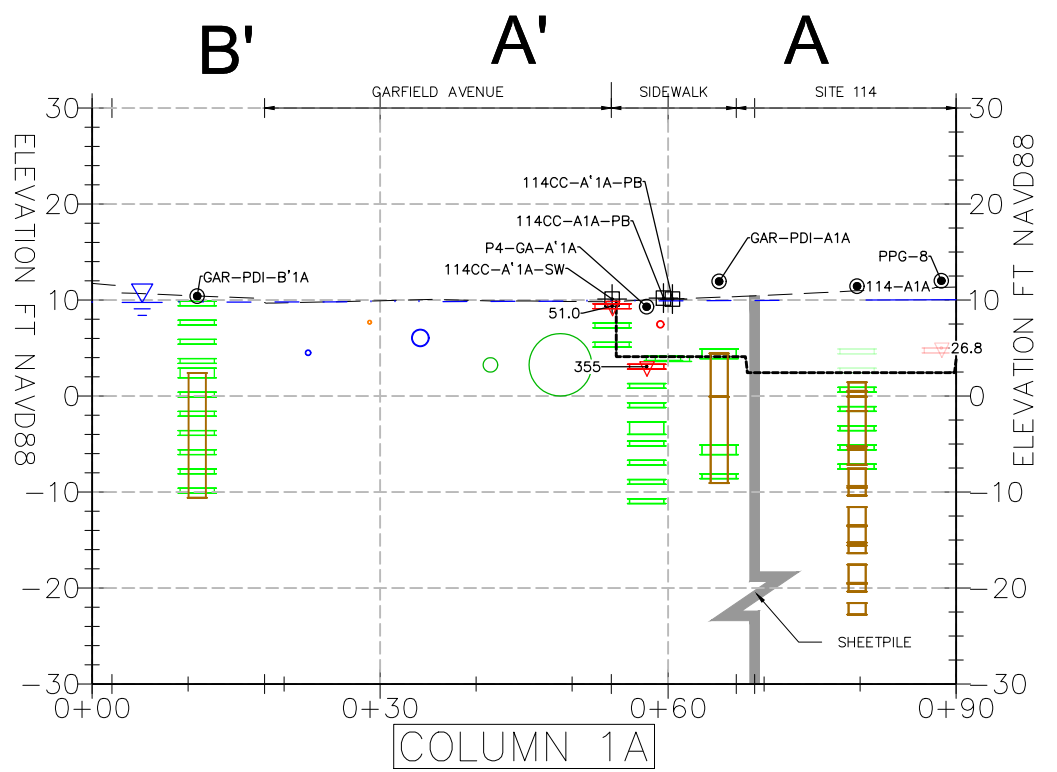
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PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	GARFIELD AVENUE CROSS SECTIONS COLUMNS 2B - 0
DATE: 06/30/2017	DRWN: TDL
<b>FIGURE 6</b>	

**LEGEND**

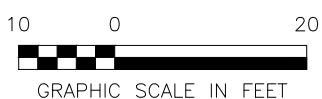
- COPR OBSERVED IN BORING
  - GGM OBSERVED IN BORING
  - MM OBSERVED IN BORING
  - UND OBSERVED IN BORING
  - SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
  - SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
  - 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
  - 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
  - ▼ 500 Cr<sup>+6</sup> SOIL CONCENTRATION >20 MG/KG
  - ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
  - PRE-CONSTRUCTION SURFACE
  - - - PREVIOUS EXCAVATION GRADE
  - P<sub>L</sub> — PROPERTY LINE
  - WATER LINE (6" AND 20")
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  - GAS LINE (8")
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 24" CONCRETE BLOCK PIPE  
 78" CARBON STEEL PIPE
  - MANHOLE
- ACRONYMS:
- COPR CHROMITE ORE PROCESSING RESIDUE
  - Cr<sup>+6</sup> HEXAVALENT CHROMIUM
  - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL OF 1988 DATUM
  - GGM GREEN-GRAY MUD
  - MG/KG MILLIGRAMS PER KILOGRAM
  - MM MEADOW MAT
  - UND UNDISTURBED NATIVE DEPOSITS



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**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

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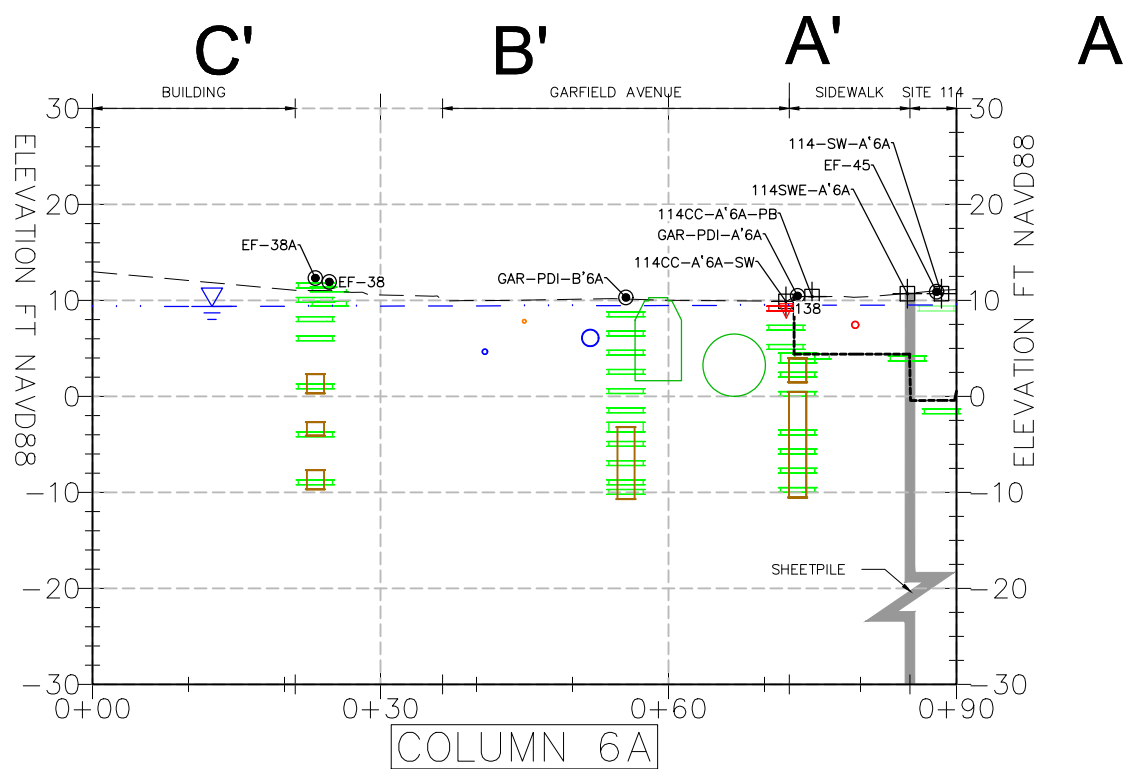
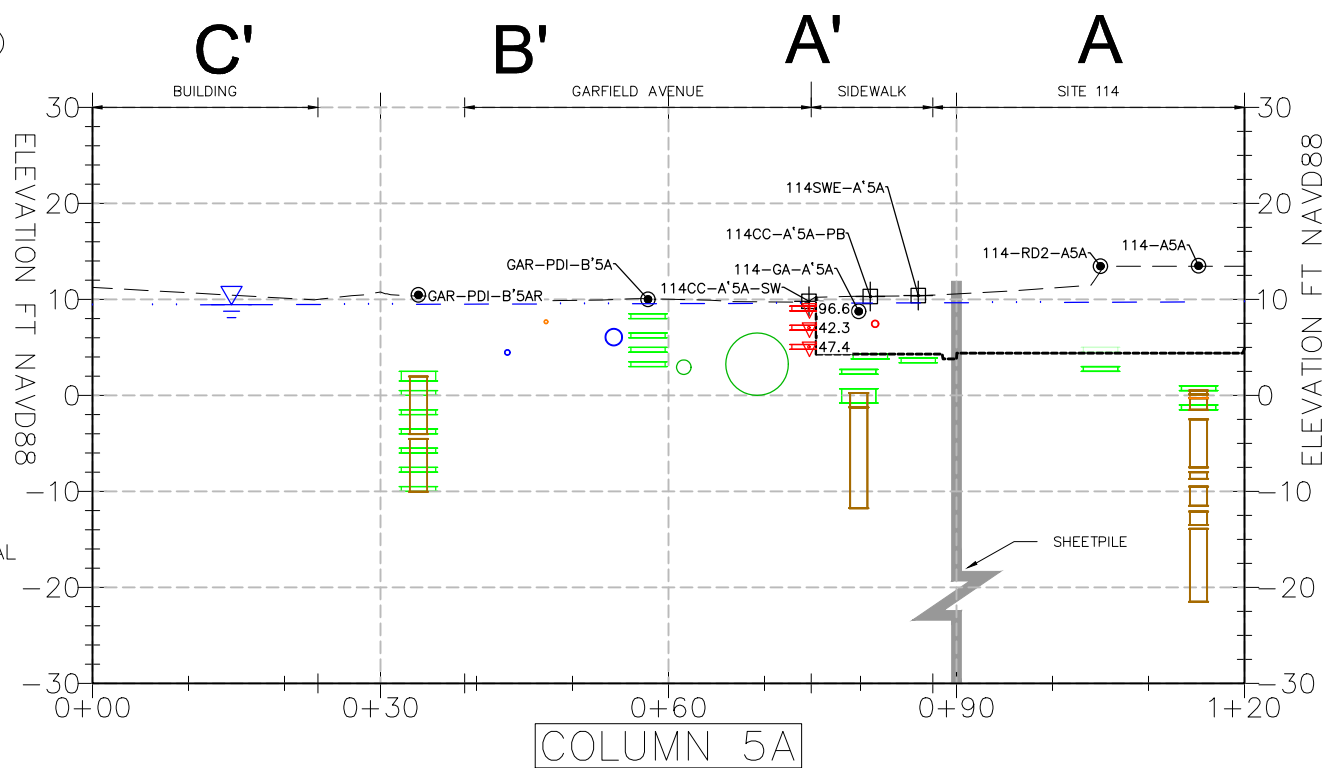
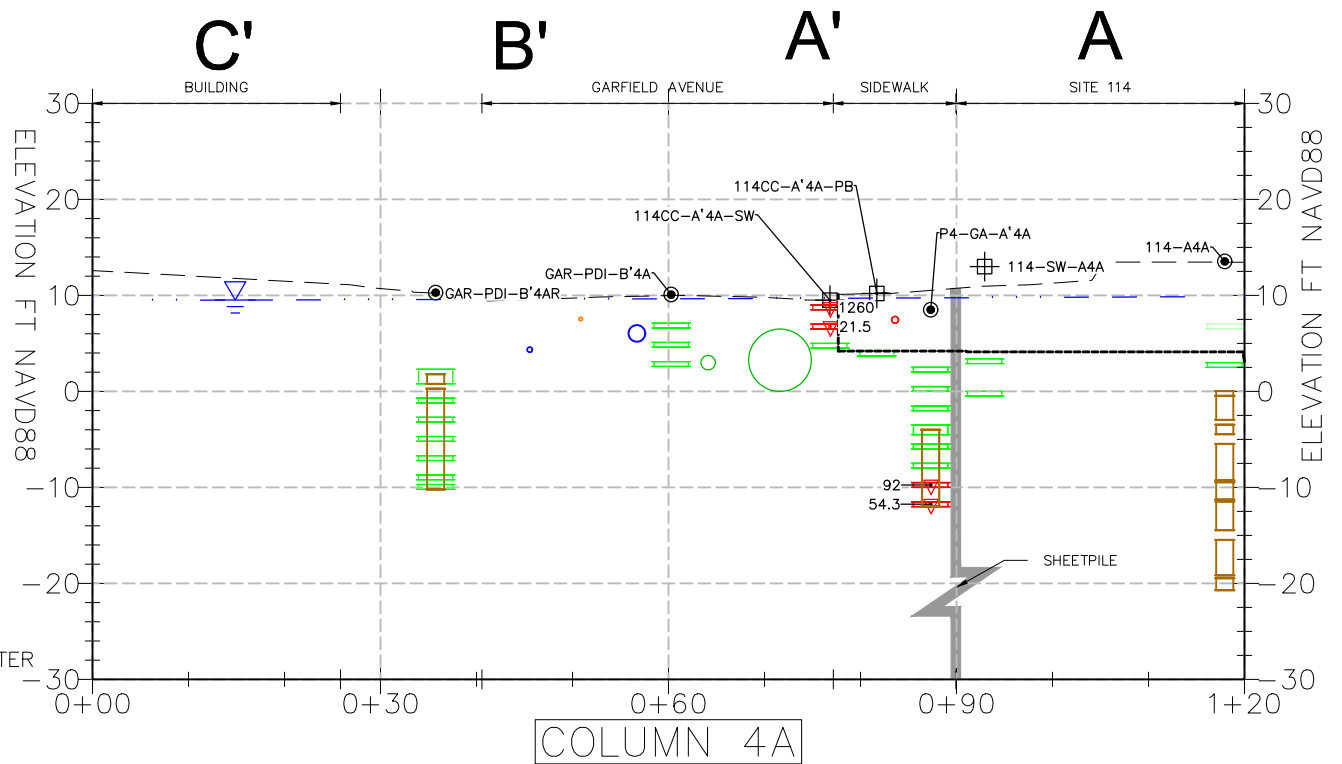
PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY		GARFIELD AVENUE CROSS SECTIONS COLUMNS 1A - 3A
DATE: 06/30/2017	DRWN: TDL	FIGURE 7



**LEGEND**

- COPR OBSERVED IN BORING
- GGM OBSERVED IN BORING
- MM OBSERVED IN BORING
- UND OBSERVED IN BORING
- SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
- SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
- 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
- 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
- ▽ 500 Cr<sup>+6</sup> SOIL CONCENTRATION >20 MG/KG
- ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
- PRE-CONSTRUCTION SURFACE
- - - PREVIOUS EXCAVATION GRADE
- P<sub>L</sub> — PROPERTY LINE
- WATER LINE (6" AND 20")
- COMMUNICATION LINE (SIZE UNKNOWN)
- GAS LINE (8")
- COMBINED SEWER  
 18" VITRIFIED CLAY PIPE  
 24" CONCRETE BLOCK PIPE  
 78" CARBON STEEL PIPE
- MANHOLE

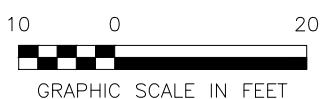
- ACRONYMS:
- COPR CHROMITE ORE PROCESSING RESIDUE
  - Cr<sup>+6</sup> HEXAVALENT CHROMIUM
  - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL OF 1988 DATUM
  - GGM GREEN-GRAY MUD
  - MG/KG MILLIGRAMS PER KILOGRAM
  - MM MEADOW MAT
  - UND UNDISTURBED NATIVE DEPOSITS



- NOTES:
1. ALL UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE
  2. PREVIOUS EXCAVATION GRADES SHOWN ARE PRELIMINARY AND SUBJECT TO SUBSEQUENT REVISIONS.
  3. BORING LOCATIONS WITHIN SITE 114 HAVE BEEN FULLY OR PARTIALLY REMOVED DURING SITE 114 REMEDIAL EXCAVATION ACTIVITIES, AS INDICATED BY THE TRANSPARENT (PALE COLORED) BOXES DEPICTING OBSERVATIONS AND ANALYTICAL RESULTS.

**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

\*REFER TO MEMO TEXT, TABLE 1, FIGURE 1, AND ATTACHMENTS PROVIDED AS PART OF THIS SUBMITTAL FOR SPECIFIC DATA INQUIRIES. ITEMS ARE PROJECTED TO CENTERLINE OF COLUMN AND MAY APPEAR TO BE IN DIFFERENT LOCATIONS THAN SHOWN ON PLAN VIEW.

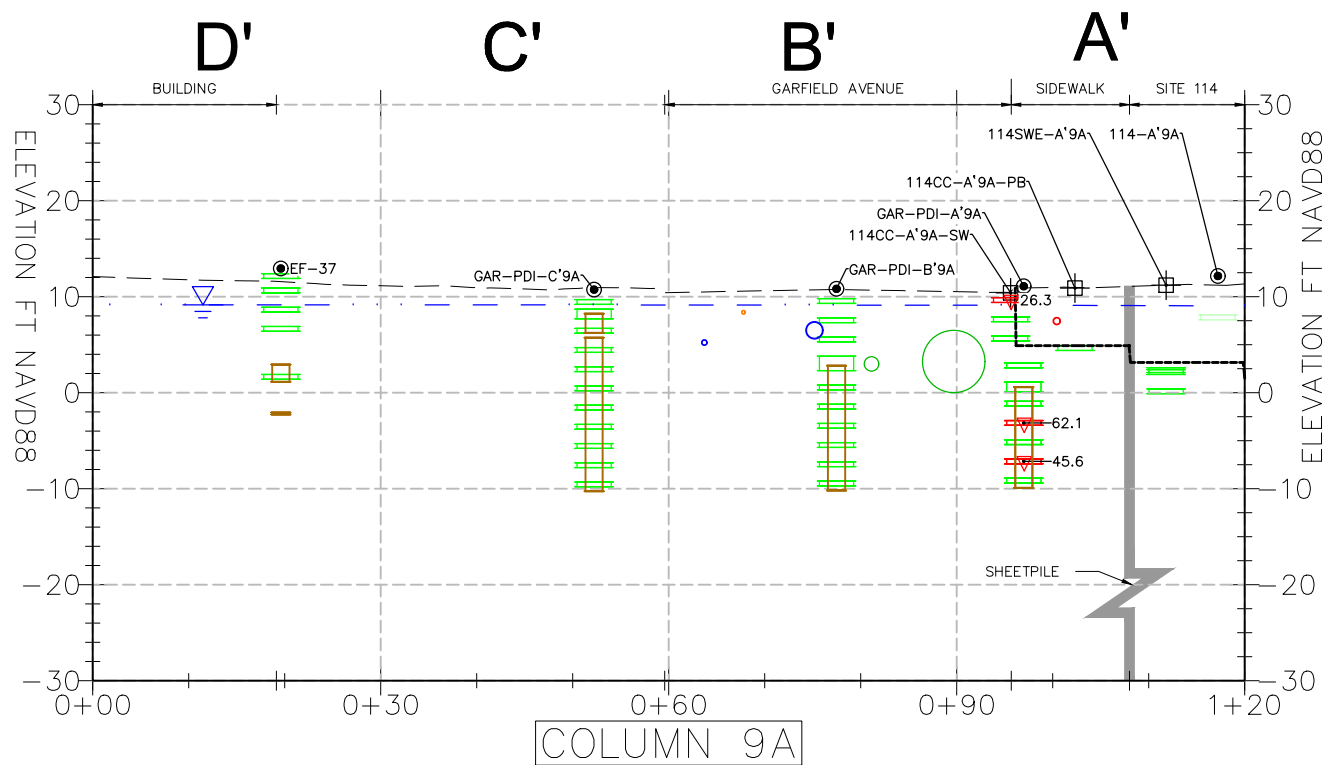
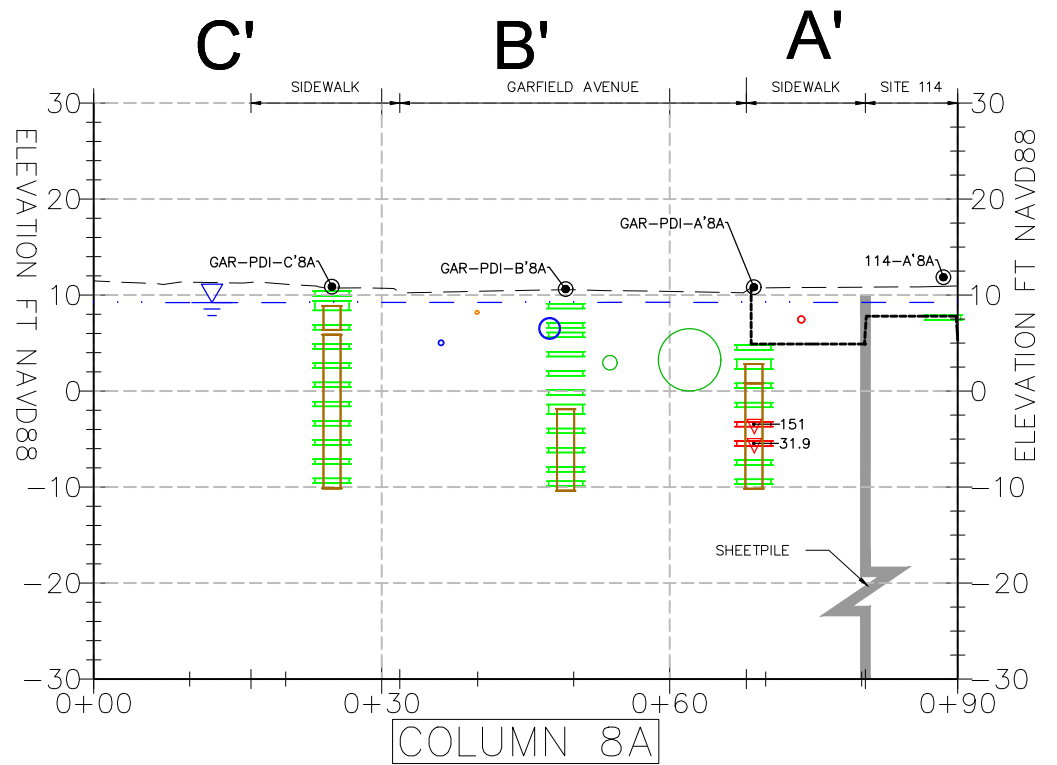
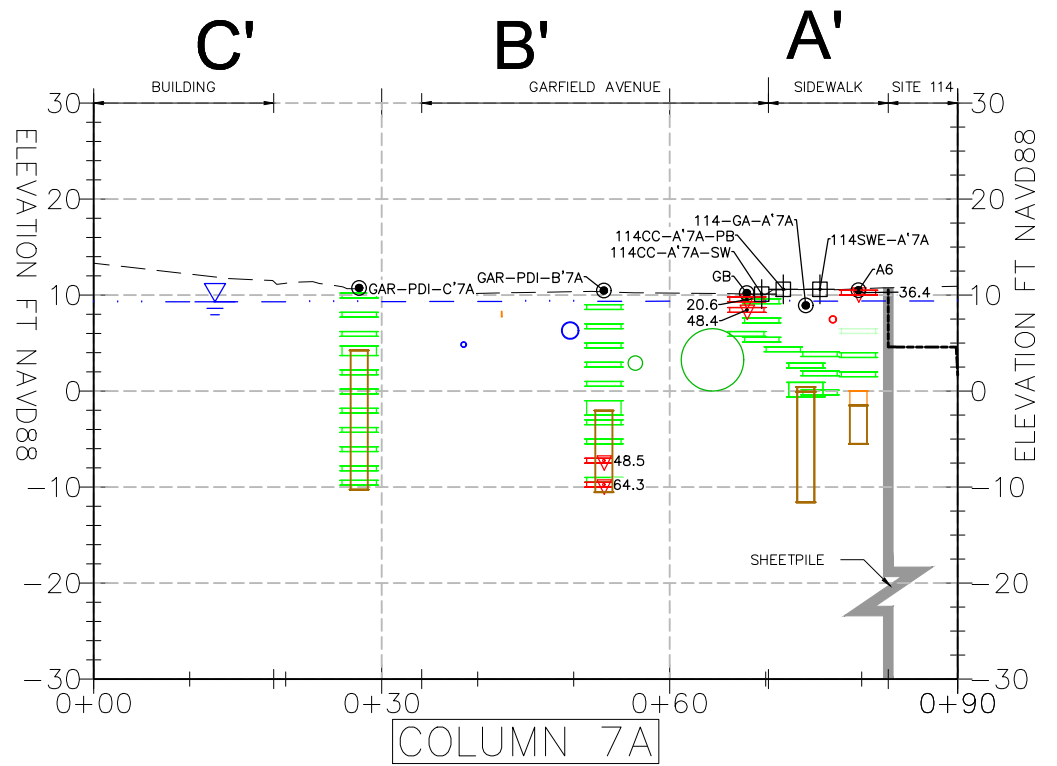


PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY		GARFIELD AVENUE CROSS SECTIONS COLUMNS 4A - 6A
DATE: 06/30/2017	DRWN: TDL	FIGURE 8

**LEGEND**

- COPR OBSERVED IN BORING
- GGM OBSERVED IN BORING
- MM OBSERVED IN BORING
- UND OBSERVED IN BORING
- SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
- SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
- 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
- 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
- ▽ 500 Cr<sup>+6</sup> SOIL CONCENTRATION >20 MG/KG
- ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
- PRE-CONSTRUCTION SURFACE
- PREVIOUS EXCAVATION GRADE
- PROPERTY LINE
- WATER LINE (6" AND 20")
- COMMUNICATION LINE (SIZE UNKNOWN)
- GAS LINE (8")
- COMBINED SEWER
- 18" VITRIFIED CLAY PIPE
- 24" CONCRETE BLOCK PIPE
- 78" CARBON STEEL PIPE
- MANHOLE

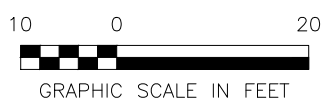
- ACRONYMS:
- COPR CHROMITE ORE PROCESSING RESIDUE
  - Cr<sup>+6</sup> HEXAVALENT CHROMIUM
  - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL OF 1988 DATUM
  - GGM GREEN-GRAY MUD
  - MG/KG MILLIGRAMS PER KILOGRAM
  - MM MEADOW MAT
  - UND UNDISTURBED NATIVE DEPOSITS



- NOTES:
1. ALL UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE
  2. PREVIOUS EXCAVATION GRADES SHOWN ARE PRELIMINARY AND SUBJECT TO SUBSEQUENT REVISIONS.
  3. BORING LOCATIONS WITHIN SITE 114 HAVE BEEN FULLY OR PARTIALLY REMOVED DURING SITE 114 REMEDIAL EXCAVATION ACTIVITIES, AS INDICATED BY THE TRANSPARENT (PALE COLORED) BOXES DEPICTING OBSERVATIONS AND ANALYTICAL RESULTS.

**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

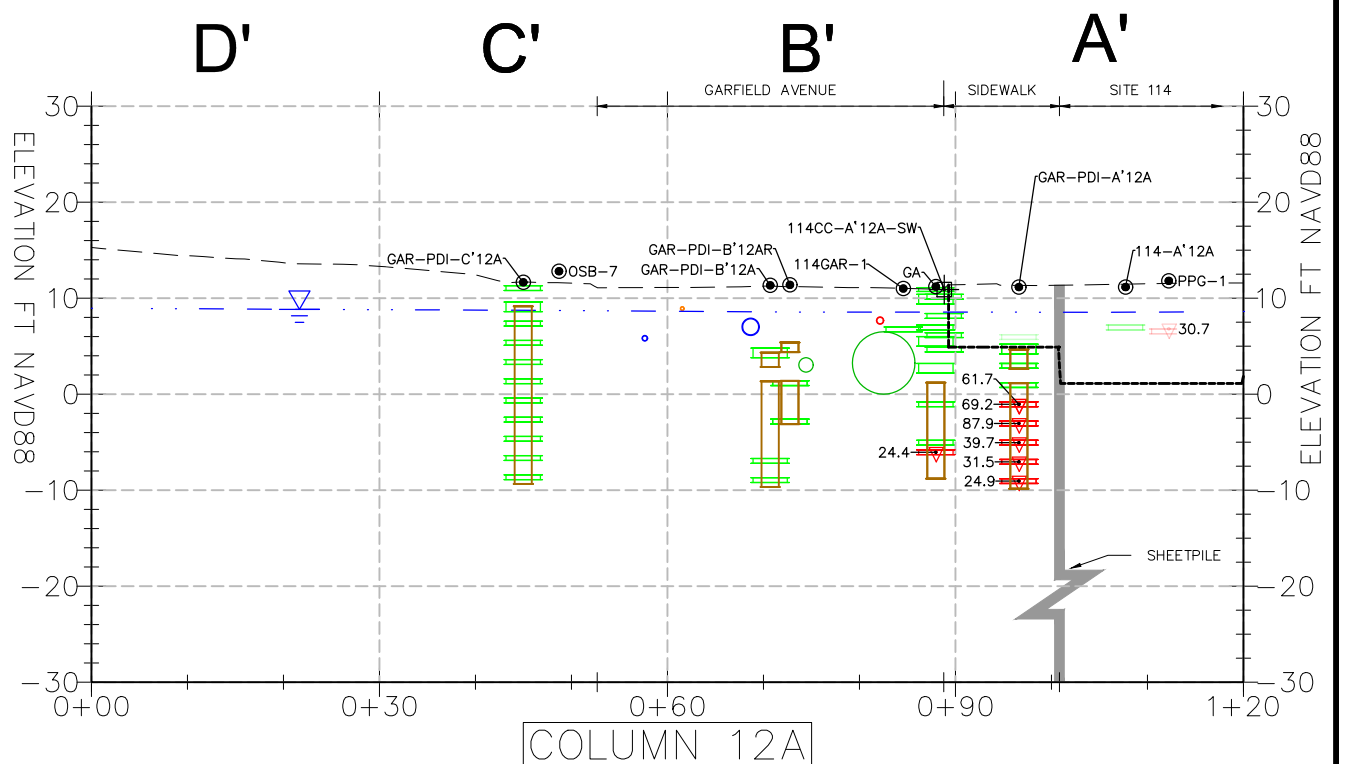
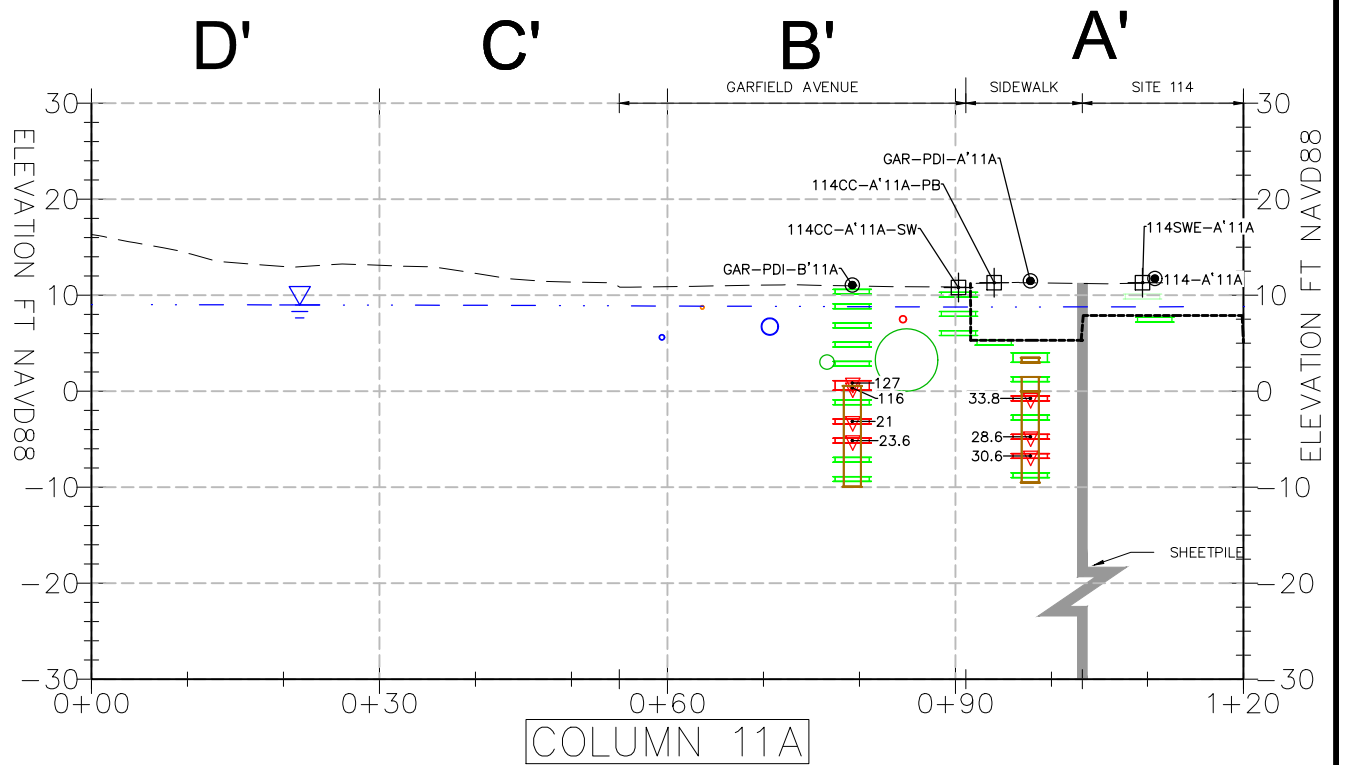
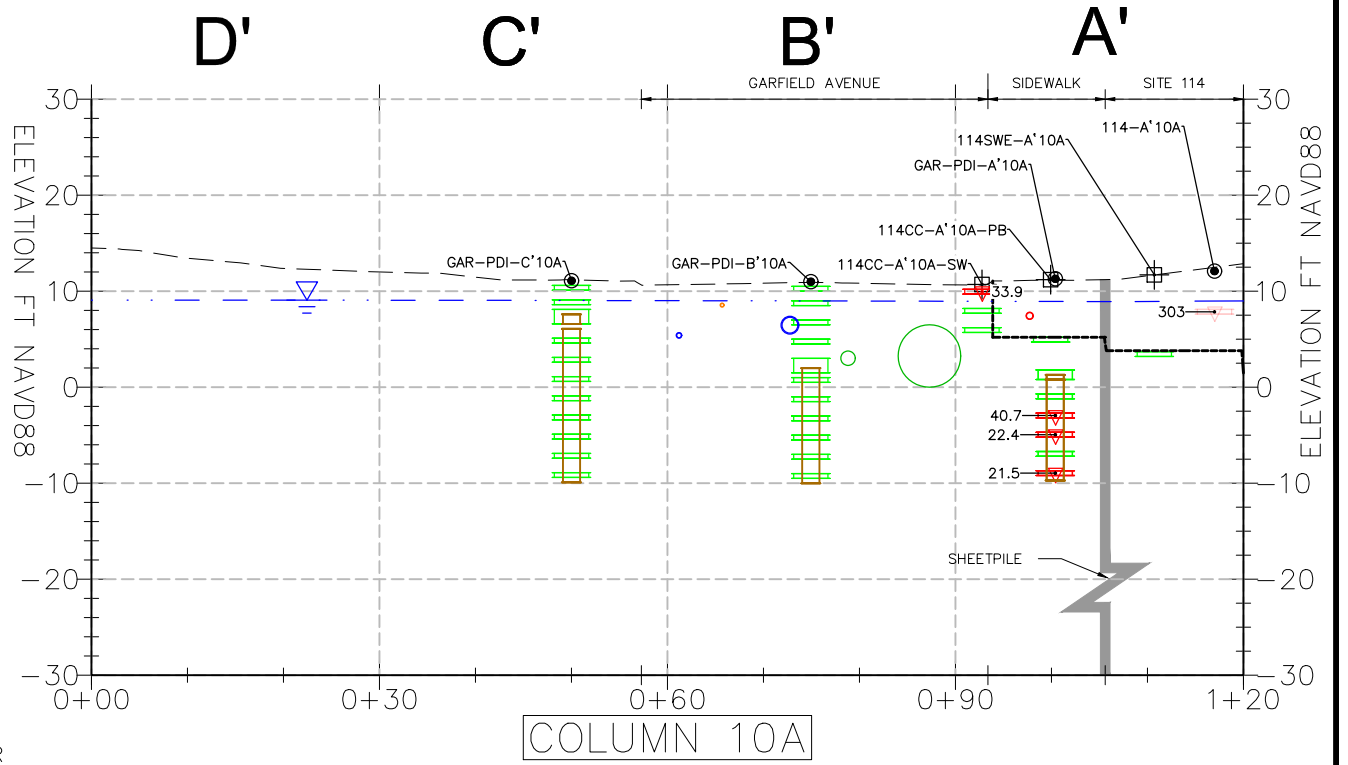
\*REFER TO MEMO TEXT, TABLE 1, FIGURE 1, AND ATTACHMENTS PROVIDED AS PART OF THIS SUBMITTAL FOR SPECIFIC DATA INQUIRIES. ITEMS ARE PROJECTED TO CENTERLINE OF COLUMN AND MAY APPEAR TO BE IN DIFFERENT LOCATIONS THAN SHOWN ON PLAN VIEW.



PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	GARFIELD AVENUE CROSS SECTIONS COLUMNS 7A - 9A
DATE: 06/30/2017	DRWN: TDL
<b>FIGURE 9</b>	

**LEGEND**

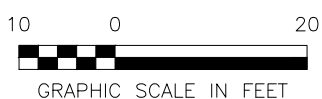
- COPR OBSERVED IN BORING
  - GGM OBSERVED IN BORING
  - MM OBSERVED IN BORING
  - UND OBSERVED IN BORING
  - SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
  - SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
  - 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
  - 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
  - ▽ 500 Cr<sup>+6</sup> SOIL CONCENTRATION >20 MG/KG
  - ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
  - PRE-CONSTRUCTION SURFACE
  - - - PREVIOUS EXCAVATION GRADE
  - PL — PROPERTY LINE
  - WATER LINE (6" AND 20")
  - COMMUNICATION LINE (SIZE UNKNOWN)
  - GAS LINE (8")
  - COMBINED SEWER
  - 18" VITRIFIED CLAY PIPE
  - 24" CONCRETE BLOCK PIPE
  - 78" CARBON STEEL PIPE
  - MANHOLE
- ACRONYMS:  
 COPR CHROMITE ORE PROCESSING RESIDUE  
 Cr<sup>+6</sup> HEXAVALENT CHROMIUM  
 FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL OF 1988 DATUM  
 GGM GREEN-GRAY MUD  
 MG/KG MILLIGRAMS PER KILOGRAM  
 MM MEADOW MAT  
 UND UNDISTURBED NATIVE DEPOSITS



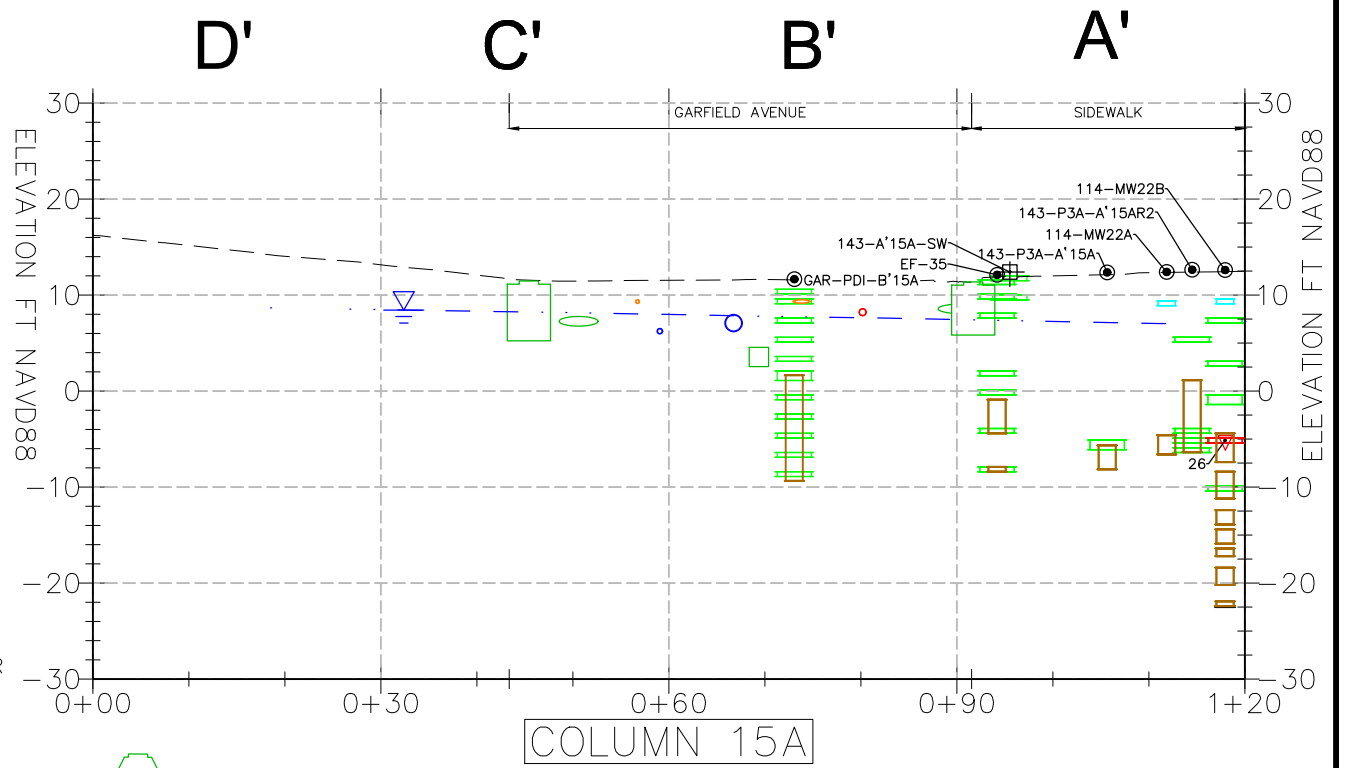
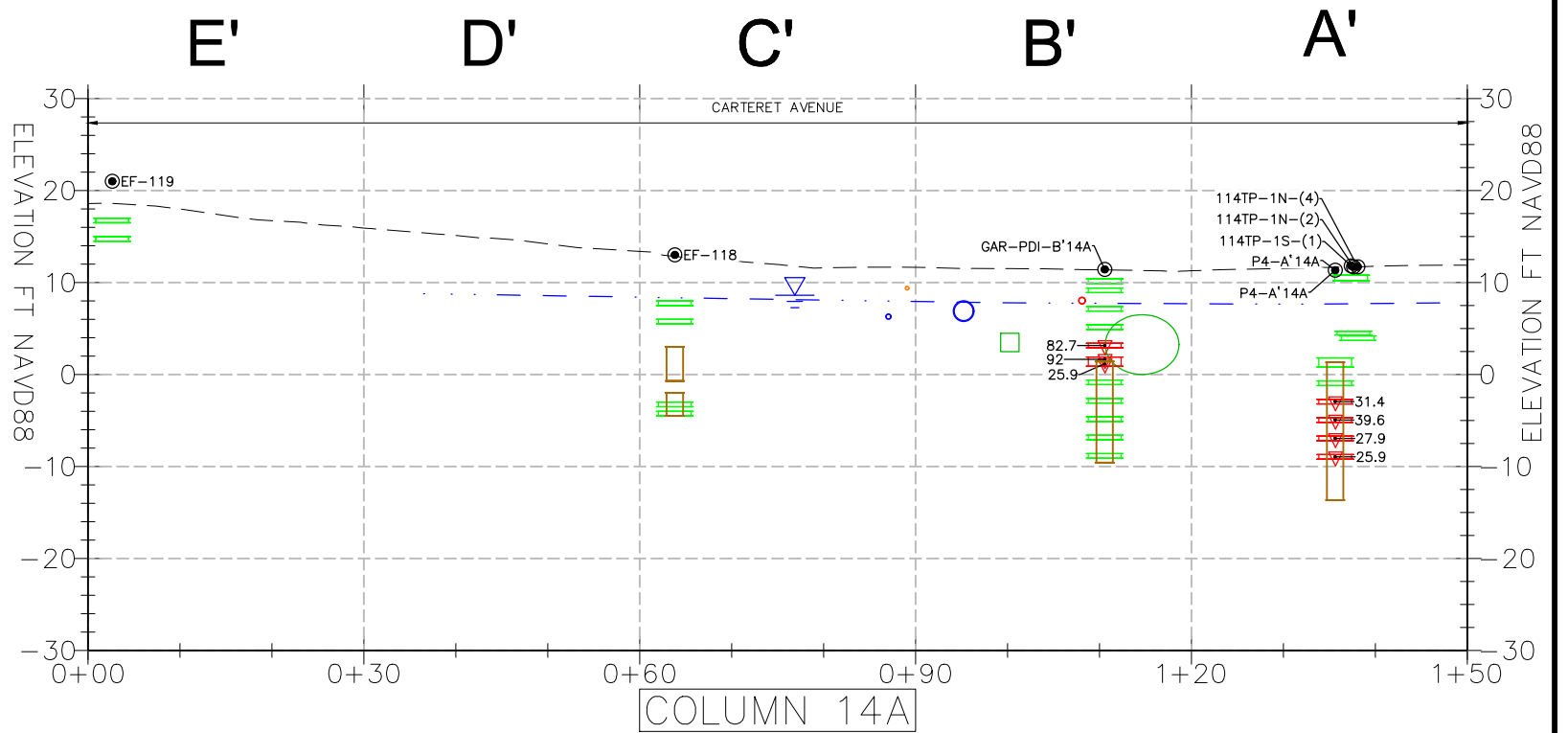
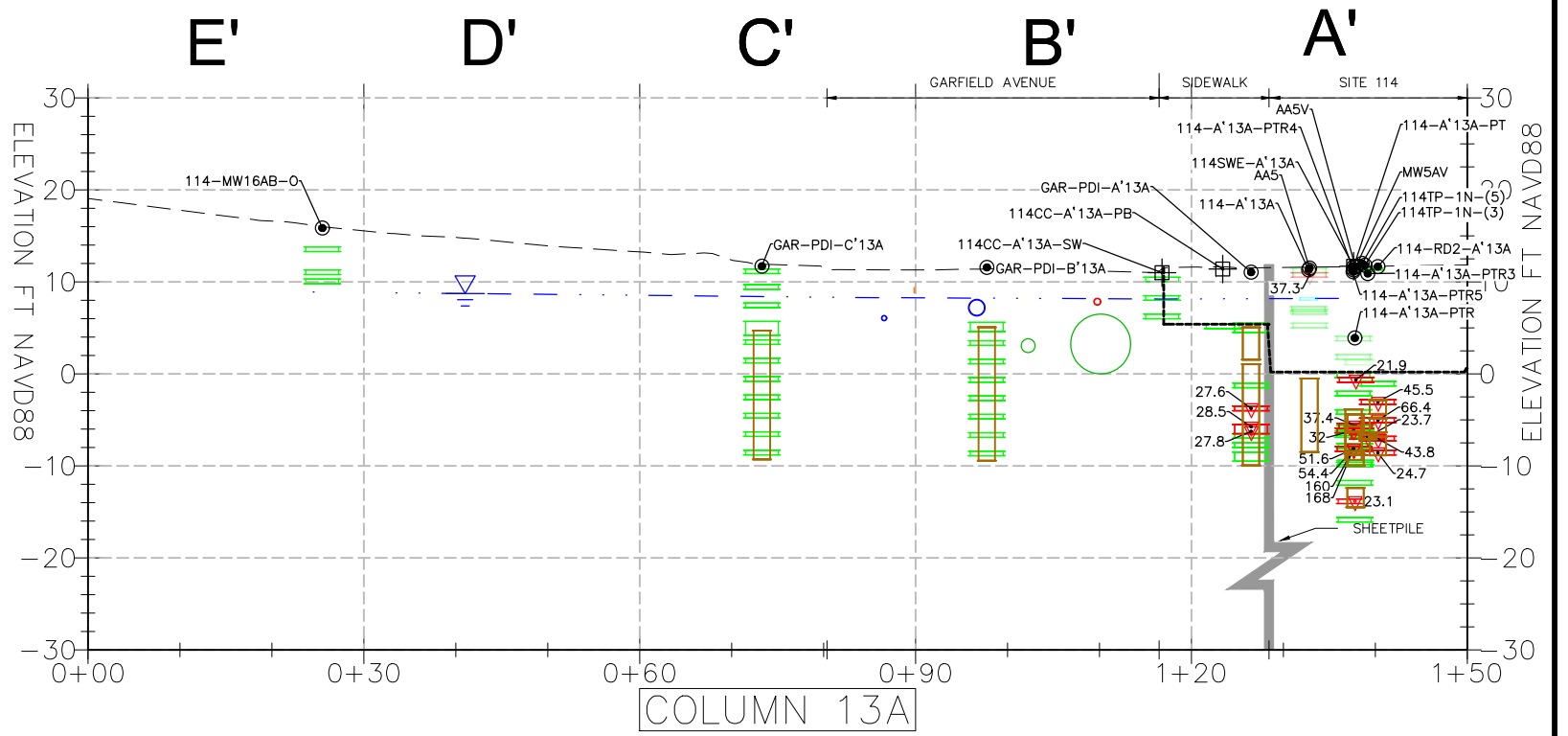
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**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

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PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	GARFIELD AVENUE CROSS SECTIONS COLUMNS 10A - 12A
DATE: 06/30/2017    DRWN: TDL	FIGURE 10



**LEGEND**

- COPR OBSERVED IN BORING
- GGM OBSERVED IN BORING
- MM OBSERVED IN BORING
- UND OBSERVED IN BORING
- SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
- SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
- 133-P3B-M41A BORING AND/OR TEST PIT LOCATION
- 143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
- ▼ 500 Cr<sup>+6</sup> SOIL CONCENTRATION > 20 MG/KG
- ▽ REPRESENTATIVE GROUNDWATER CONDITIONS
- PRE-CONSTRUCTION SURFACE
- PREVIOUS EXCAVATION GRADE
- P<sub>L</sub> PROPERTY LINE
- WATER LINE (6" AND 20")
- COMMUNICATION LINE (SIZE UNKNOWN)
- GAS LINE (8")
- COMBINED SEWER
- 18" VITRIFIED CLAY PIPE
- 24" CONCRETE BLOCK PIPE
- 78" CARBON STEEL PIPE

**NOTES:**

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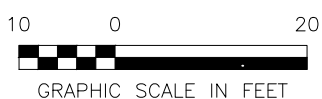
- MANHOLE
- CATCH BASIN

**ACRONYMS:**

- COPR CHROMITE ORE PROCESSING RESIDUE
- Cr<sup>+6</sup> HEXAVALENT CHROMIUM
- FT NAVD88 DATUM FEET IN THE NORTH AMERICAN VERTICAL OF 1988
- GGM GREEN-GRAY MUD
- MG/KG MILLIGRAMS PER KILOGRAM
- MM MEADOW MAT
- UND UNDISTURBED NATIVE DEPOSITS











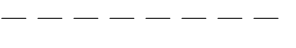
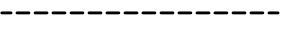




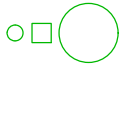


**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

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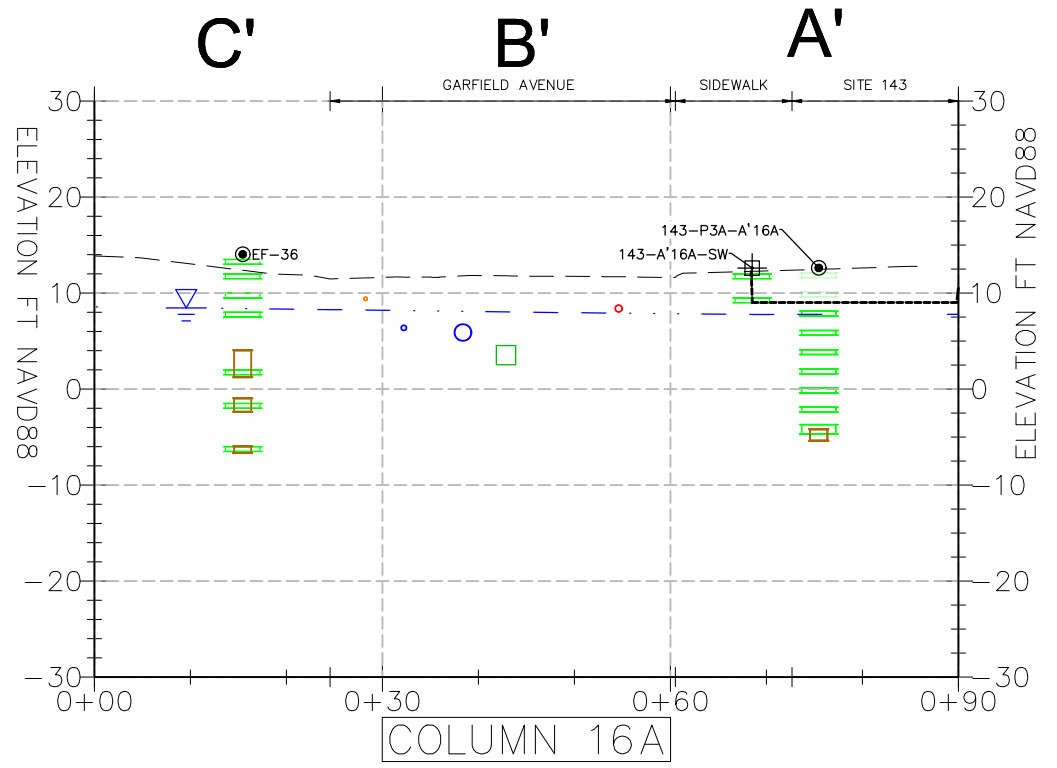
PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	<b>GARFIELD AVENUE                  CROSS SECTIONS                  COLUMNS 13A - 15A</b>
DATE: 06/30/2017    DRWN: TDL	<b>FIGURE 11</b>

**LEGEND**

-  COPR OBSERVED IN BORING
-  GGM OBSERVED IN BORING
-  MM OBSERVED IN BORING
-  UND OBSERVED IN BORING
-  SOIL ANALYTICAL RESULT < 20 MG/KG Cr<sup>+6</sup>
-  SOIL ANALYTICAL > 20 MG/KG Cr<sup>+6</sup>
-  133-P3B-M41A BORING AND/OR TEST PIT LOCATION
-  143-A'15A-SW PIT BOTTOM OR SIDEWALL SAMPLE LOCATION
-  500 Cr<sup>+6</sup> SOIL CONCENTRATION > 20 MG/KG
-  REPRESENTATIVE GROUNDWATER CONDITIONS
-  PRE-CONSTRUCTION SURFACE
-  PREVIOUS EXCAVATION GRADE
-  P<sub>L</sub> PROPERTY LINE
-  WATER LINE (6" AND 20")
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78" CARBON STEEL PIPE
-  MANHOLE
-  CATCH BASIN

ACRONYMS:

- COPR CHROMITE ORE PROCESSING RESIDUE
- Cr<sup>+6</sup> HEXAVALENT CHROMIUM
- FT NAVD88 DATUM FEET IN THE NORTH AMERICAN VERTICAL OF 1988
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**CONCEPTUALIZATION OF SITE CONDITIONS ONLY\***

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PPG GARFIELD AVENUE GROUP OF SITES JERSEY CITY, NEW JERSEY	<b>GARFIELD AVENUE                  CROSS SECTIONS                  COLUMN 16A</b>
DATE: 06/30/2017    DRWN: TDL	FIGURE 12