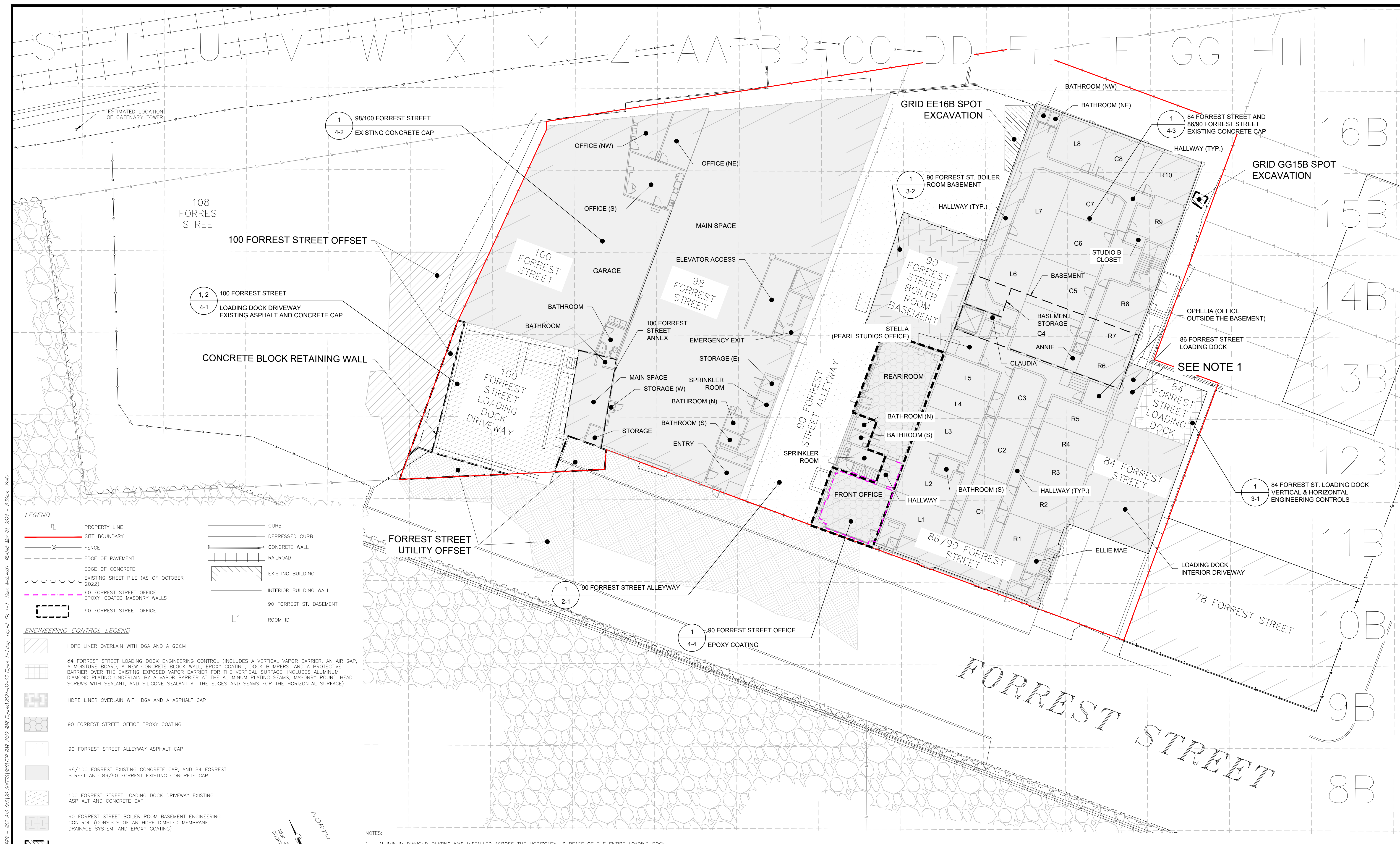


Remedial Action Report – Forrest Street Properties (AOC FSP-1C, AOC FSP-1D, AOC FSP-1E, AOC FSP-1F, AOC FSP-1G, AOC FSP-1H, AOC FSP-1I, AOC FSP-1J, and AOC FSP-1K) Soil, Current-Use, Final, Revision 2
Garfield Avenue Group
PPG, Jersey City, New Jersey

Appendix G

As-Built Diagrams



LEGEND

	PROPERTY LINE		CURB
	SITE BOUNDARY		DEPRESSED CURB
	FENCE		CONCRETE WALL
	EDGE OF PAVEMENT		RAILROAD
	EDGE OF CONCRETE		EXISTING BUILDING
	EXISTING SHEET PILE (AS OF OCTOBER 2022)		INTERIOR BUILDING WALL
	90 FORREST STREET OFFICE EPOXY-COATED MASONRY WALLS		90 FORREST ST. BASEMENT
	90 FORREST STREET OFFICE		ROOM ID

ENGINEERING CONTROL LEGEND

	HDPE LINER OVERLAIN WITH DGA AND A GCCM
	84 FORREST STREET LOADING DOCK ENGINEERING CONTROL (INCLUDES A VERTICAL VAPOR BARRIER, AN AIR GAP, A MOISTURE BOARD, A NEW CONCRETE BLOCK WALL, EPOXY COATING, DOCK BUMPERS, AND A PROTECTIVE BARRIER OVER THE EXISTING EXPOSED VAPOR BARRIER FOR THE VERTICAL SURFACE. INCLUDES ALUMINUM DIAMOND PLATING UNDERLAIN BY A VAPOR BARRIER AT THE ALUMINUM PLATING SEAMS, MASONRY ROUND HEAD SCREWS WITH SEALANT, AND SILICONE SEALANT AT THE EDGES AND SEAMS FOR THE HORIZONTAL SURFACE)
	HDPE LINER OVERLAIN WITH DGA AND AN ASPHALT CAP
	90 FORREST STREET OFFICE EPOXY COATING
	90 FORREST STREET ALLEYWAY ASPHALT CAP
	98/100 FORREST EXISTING CONCRETE CAP, AND 84 FORREST STREET AND 86/90 FORREST EXISTING CONCRETE CAP
	100 FORREST STREET LOADING DOCK DRIVEWAY EXISTING ASPHALT AND CONCRETE CAP
	90 FORREST STREET BOILER ROOM BASEMENT ENGINEERING CONTROL (CONSISTS OF AN HDPE DIMPLED MEMBRANE, DRAINAGE SYSTEM, AND EPOXY COATING)
	GRID EE16B AND GRID GG15B SPOT EXCAVATIONS

NOTES:

- ALUMINUM DIAMOND PLATING WAS INSTALLED ACROSS THE HORIZONTAL SURFACE OF THE ENTIRE LOADING DOCK. HOWEVER, ONLY THE EXTENTS OF ALUMINUM PLATING DEPICTED ON THIS DRAWING SERVE AS THE ENGINEERING CONTROL. IN PORTIONS OF THE LOADING DOCK WHERE ALUMINUM DIAMOND DOES NOT SERVE AS AN ENGINEERING CONTROL, THE EXISTING CONCRETE CAP SERVES AS THE ENGINEERING CONTROL.

GCCM - GEOSYNTHETIC CEMENTITIOUS COMPOSITE MAT
 DGA - DENSE-GRADED AGGREGATE
 HDPE - HIGH-DENSITY POLYETHYLENE
 ID - IDENTIFICATION
 NAD83 - NORTH AMERICAN DATUM OF 1983
 ST. - STREET




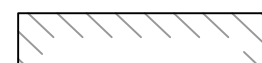



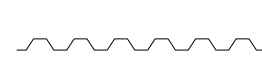





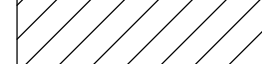
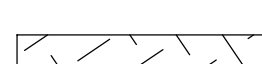
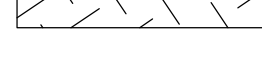


PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		REMEDIAL ACTION REPORT EXTENTS OF REMEDIAL ACTIONS
DATE: 03/04/2024	DRWN: EC/MDN	FIGURE 1-1

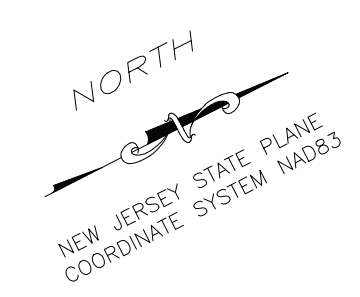
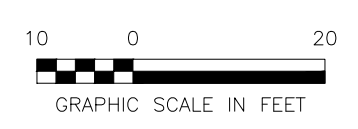
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File: C:\Users\nichols\OneDrive\Documents\Projects\2023-05-17\2023-05-17_Figure 2-1_2-3.dwg Layout: Figure 2-1 User: nichols Date: 05/17/2023 12:26pm Rev: 5

LEGEND

-  PROPERTY LINE
-  SITE BOUNDARY
-  EDGE OF CONCRETE
-  EXISTING BUILDING
-  BUILDING DOOR
-  MASONRY BLOCK STEP
-  NEW JERSEY TRANSIT - LIGHT RAIL
-  EXISTING SHEET PILE
-  SEWER UTILITY LINE
-  COMBINED SEWER MANHOLE
-  CATCH BASIN INLET
-  ASPHALT BERM
-  90 FORREST STREET ALLEYWAY SUBGRADE PREPARATION (NO REMEDIAL EXCAVATION)
-  GRIDS EE16B AND GG15B SPOT EXCAVATIONS
-  FORREST STREET UTILITY OFFSET EXCAVATION (SEE NOTE 4)
-  100 FORREST STREET OFFSET EXCAVATION (SEE NOTE 5)

- NOTES:**
1. ELEVATIONS ARE SHOWN IN FT NAVD88.
 2. PROPERTY BOUNDARIES ARE SOURCED FROM THE "BOUNDARY AND TOPOGRAPHIC SURVEY, PPG INDUSTRIES, SITE 114, LOTS 11, 12, 14 AND 15, BLOCK 21501, CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY, PREPARED BY BORBAS SURVEYING AND MAPPING, LLC, DATED JANUARY 8, 2019.
 3. REVISED PROPERTY LINES ARE SOURCED FROM THE "DEED NOTICE AREA LOCATED ON LOT 14.01, BLOCK 21501, JERSEY CITY, HUDSON COUNTY, NEW JERSEY" DRAWING PREPARED BY BORBAS SURVEYING AND MAPPING, LLC, DATED JUNE 22, 2020.
 4. AS-BUILT EXCAVATION CONTOURS FOR FORREST STREET UTILITY OFFSET ARE AVAILABLE IN APPENDIX E OF THE REMEDIAL ACTION REPORT, FORREST STREET (AOC FSP-1A, AOC FSP-1B, AOC FSP-1C, AOC FSP-2A, AOC FSP-2B, AND AOC FSP-2C), SOIL, FINAL, PREPARED BY AECOM IN SEPTEMBER 2019.
 5. AS-BUILT EXCAVATION CONTOURS FOR 100 FORREST STREET OFFSET ARE AVAILABLE IN APPENDIX F OF THE REMEDIAL ACTION REPORT, FORREST STREET PROPERTIES (AOC FSP-1A, AOC FSP-1B, AOC FSP-2A, AND AOC FSP-2B), SOIL, FINAL, PREPARED BY AECOM IN AUGUST 2019.
- DGA** DENSE-GRADED AGGREGATE
FT FEET OR FOOT
GCCM GEOSYNTHETIC CEMENTITIOUS COMPOSITE MAT
HDPE HIGH-DENSITY POLYETHYLENE
NAD83 NORTH AMERICAN DATUM OF 1983
NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988



PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY	REMEDIAL ACTION REPORT EXCAVATION AS-BUILT
DATE: 05/17/2023	DRWN: MDN
FIGURE 2-1	

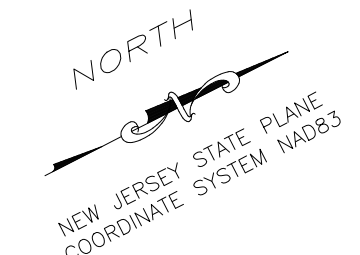
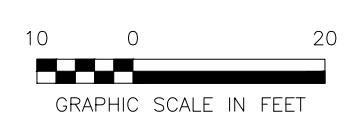
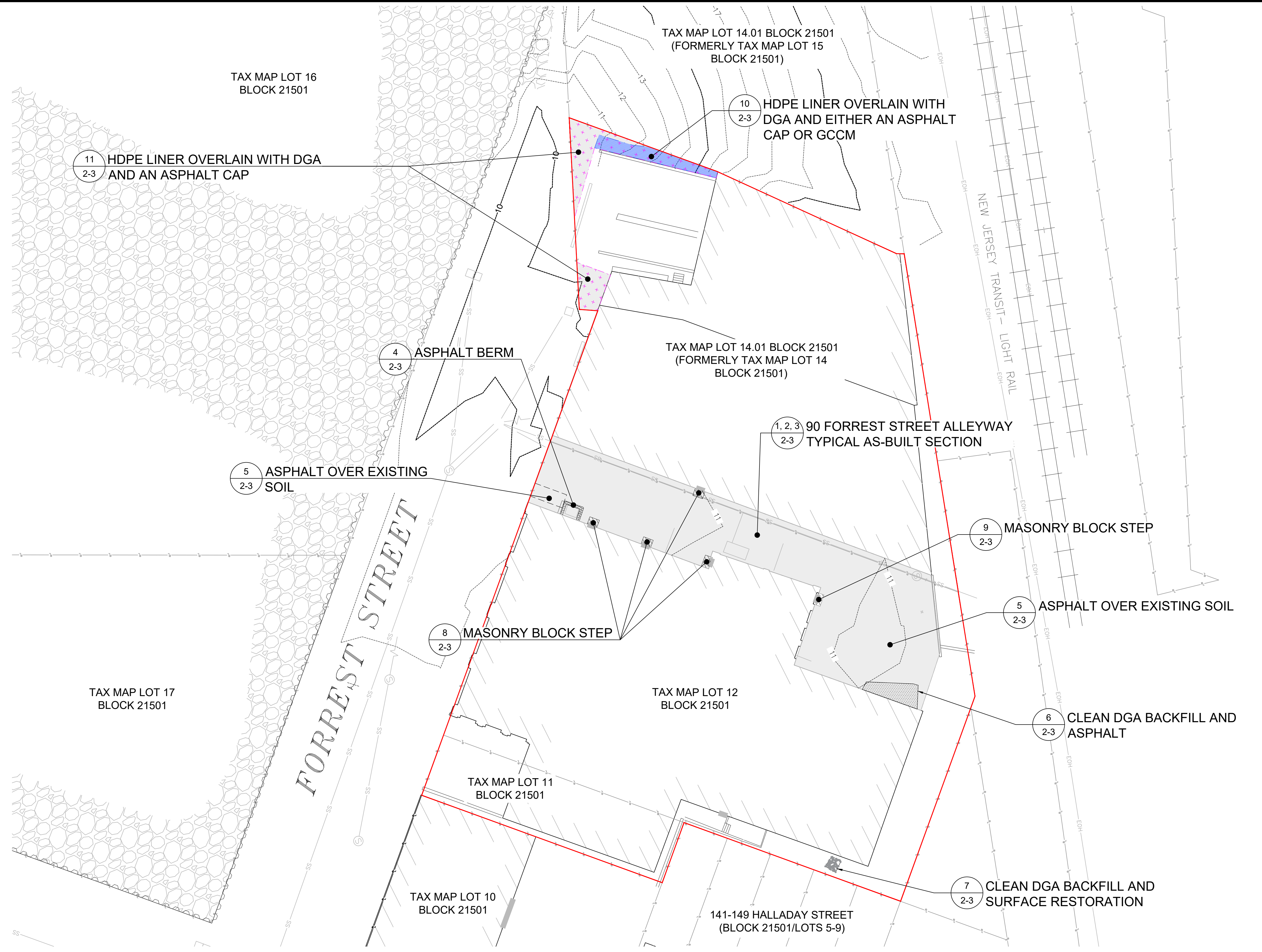
LEGEND

- PROPERTY LINE
- SITE BOUNDARY
- EDGE OF CONCRETE
- EXISTING BUILDING
- BUILDING DOOR
- MASONRY BLOCK STEP
- NEW JERSEY TRANSIT - LIGHT RAIL
- RESTORATION AS-BUILT ELEVATION CONTOURS (MINOR)
- RESTORATION AS-BUILT ELEVATION CONTOURS (MAJOR)
- EXISTING SHEET PILE
- SEWER UTILITY LINE
- COMBINED SEWER MANHOLE
- CATCH BASIN INLET
- ASPHALT BERM
- HDPE LINER
- GCCM
- ASPHALT
- ASPHALT OVER EXISTING SOIL
- CLEAN DGA BACKFILL AND ASPHALT
- CLEAN DGA BACKFILL

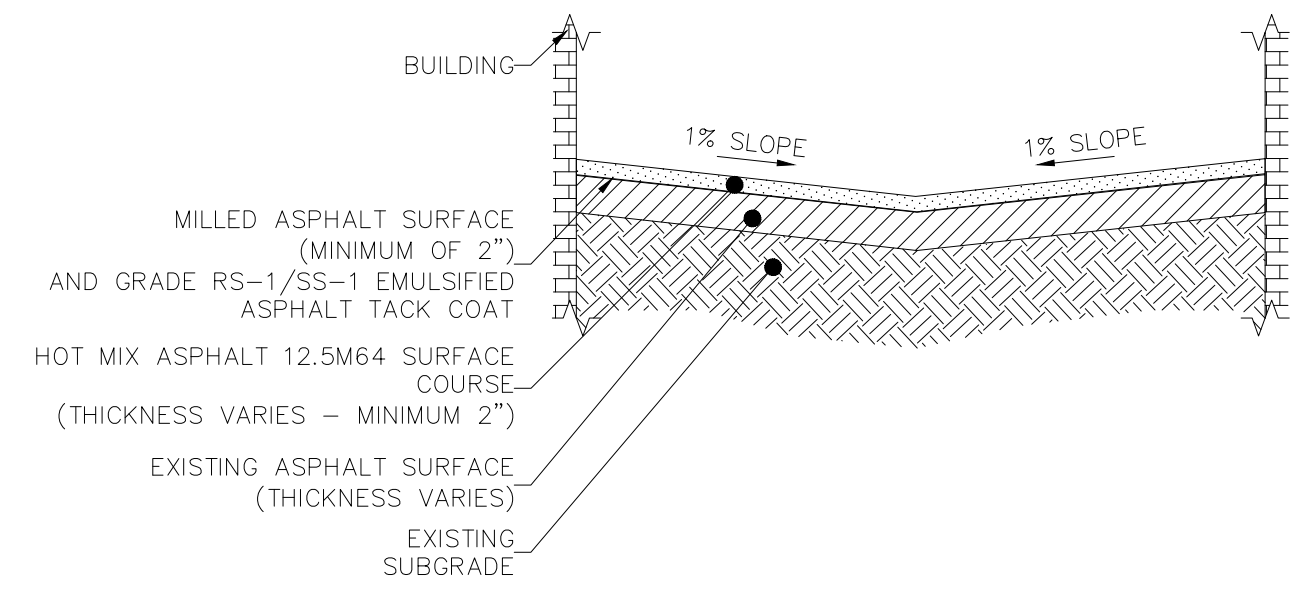
NOTES:

1. ELEVATIONS ARE SHOWN IN FT NAVD88.
2. PROPERTY BOUNDARIES ARE SOURCED FROM THE "BOUNDARY AND TOPOGRAPHIC SURVEY, PPG INDUSTRIES, SITE 114, LOTS 11, 12, 14 AND 15, BLOCK 21501, CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY" PREPARED BY BORBAS SURVEYING AND MAPPING, LLC, DATED JANUARY 8, 2019.
3. REVISED PROPERTY LINES ARE SOURCED FROM THE "DEED NOTICE AREA LOCATED ON LOT 14.01, BLOCK 21501, JERSEY CITY, HUDSON COUNTY, NEW JERSEY" DRAWING PREPARED BY BORBAS SURVEYING AND MAPPING, LLC, DATED JUNE 22, 2020.
4. RESTORATION AS-BUILT ELEVATION CONTOURS ARE SOURCED FROM THE "FINAL AS-BUILT SURVEY FOR ENTACT, LLC, PPG SITE 113 & 135, SKYWAYS, 900 GARFIELD AVENUE, JERSEY CITY, HUDSON COUNTY, NEW JERSEY" PREPARED BY MASER CONSULTING P.A., DATED SEPTEMBER 25, 2018.
5. SURFACE RESTORATION AS-BUILT CONTOURS WITHIN THE 90 FORREST STREET ALLEYWAY ARE APPROXIMATE.

DGA DENSE-GRADED AGGREGATE
 FT FEET OR FOOT
 GCCM GEOSYNTHETIC CEMENTITIOUS COMPOSITE MAT
 HDPE HIGH-DENSITY POLYETHYLENE
 NAD83 NORTH AMERICAN DATUM OF 1983
 NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988

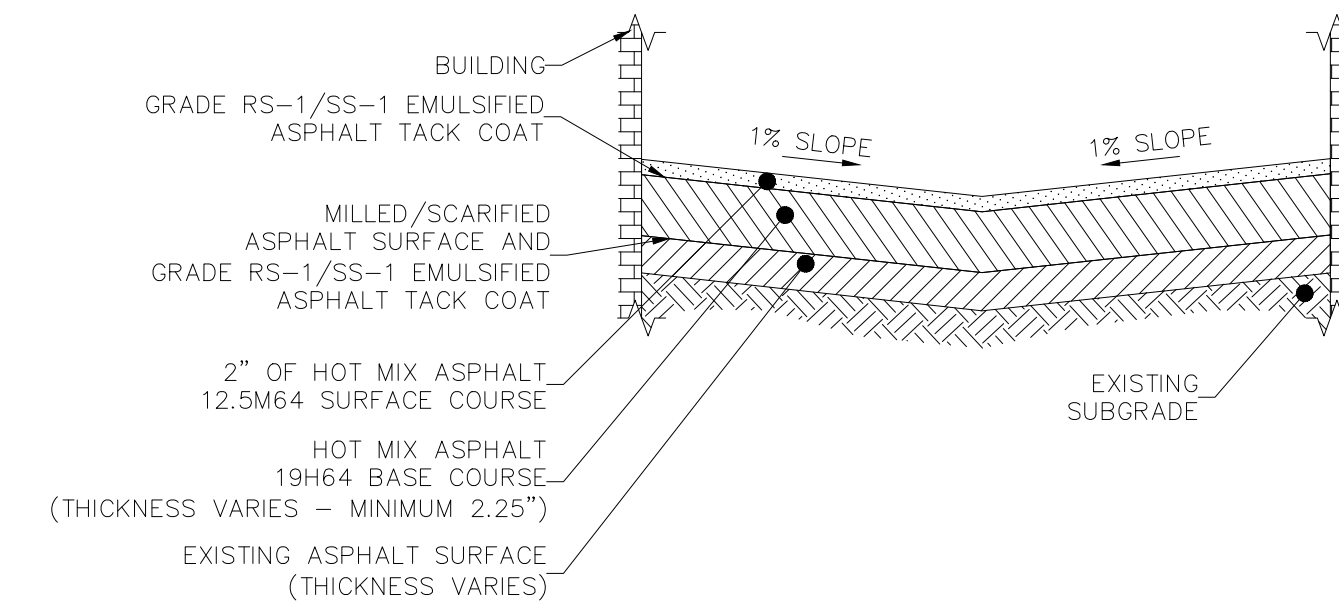


<p>PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY</p>	<p>REMEDIAL ACTION REPORT RESTORATION AS-BUILT</p>
DATE: 05/17/2023	DRWN: MDN
FIGURE 2-2	



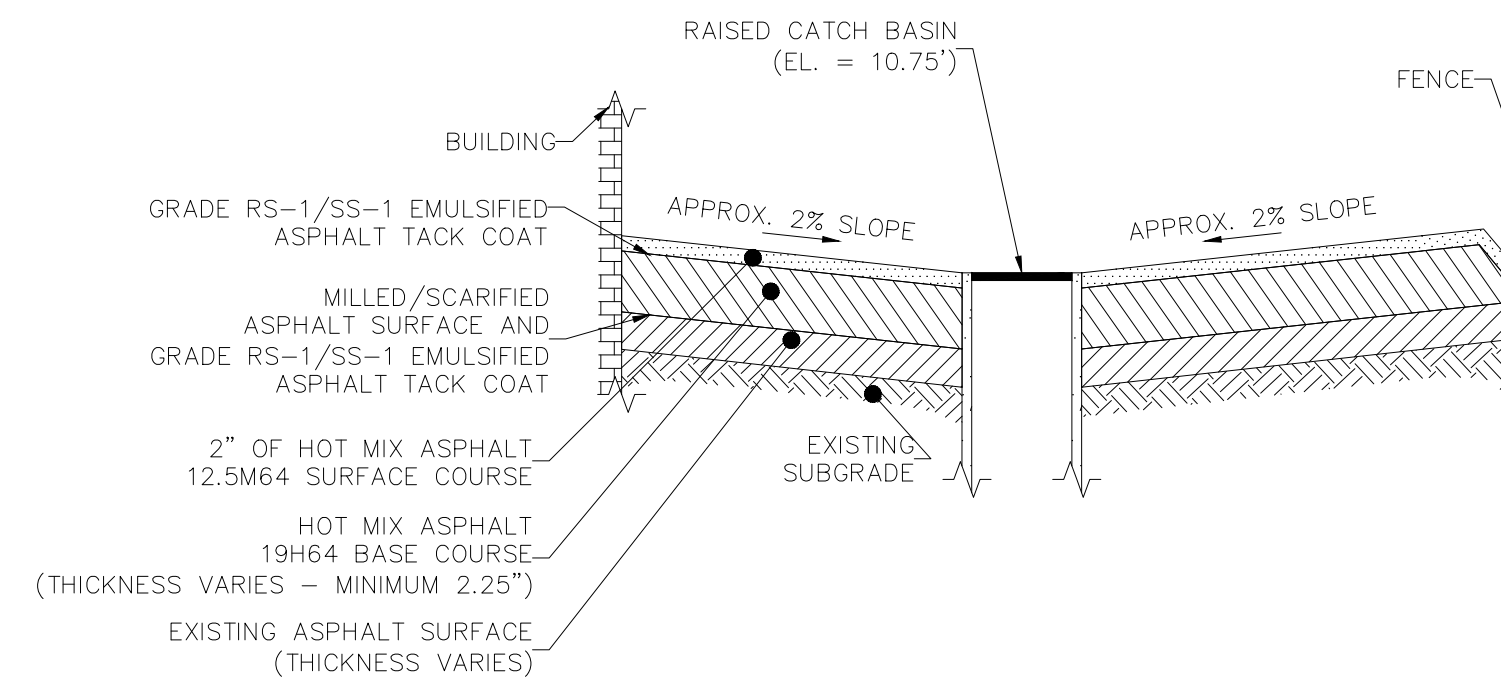
1 ALLEYWAY
2-3 TYPICAL SECTION 1

NTS



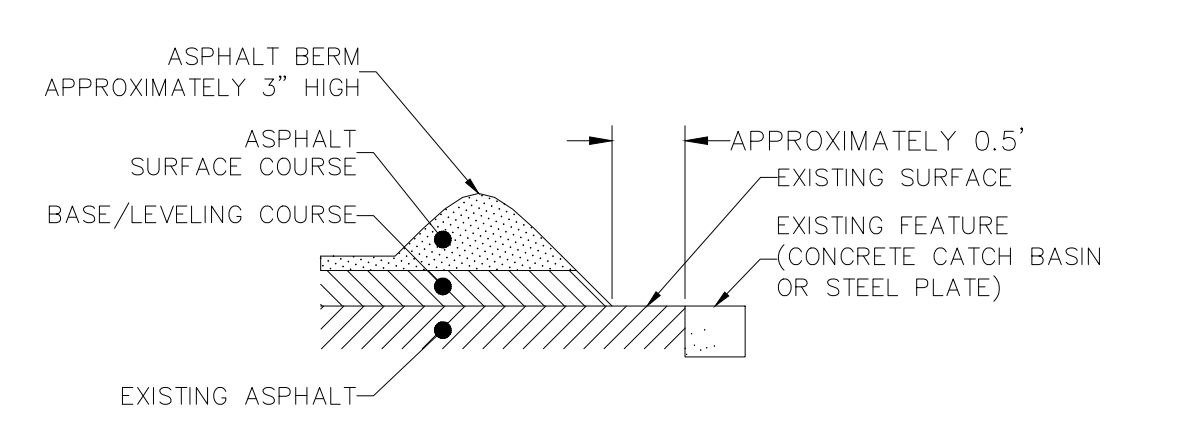
2 ALLEYWAY
2-3 TYPICAL SECTION 2

NTS



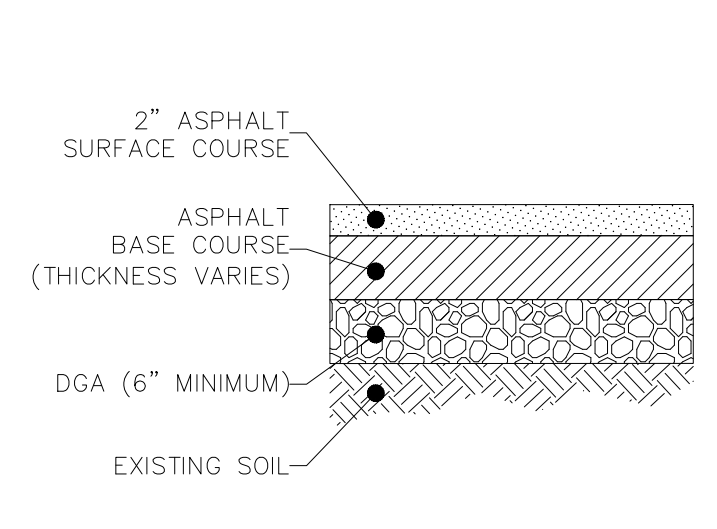
3 ALLEYWAY
2-3 TYPICAL SECTION 3

NTS



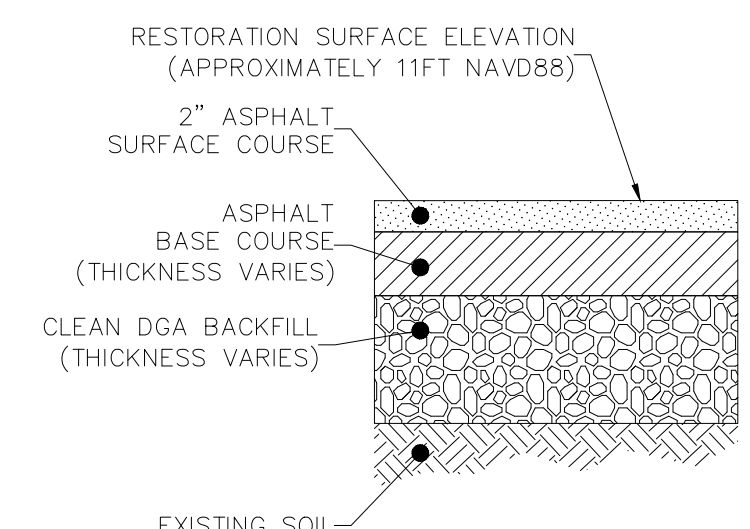
4 ASPHALT BERM DETAIL

NTS



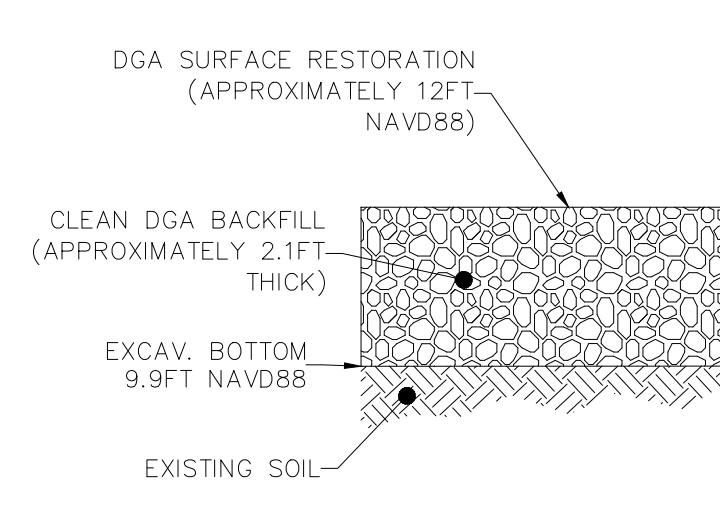
5 ASPHALT OVER EXISTING SOIL
2-3 DETAIL

NTS



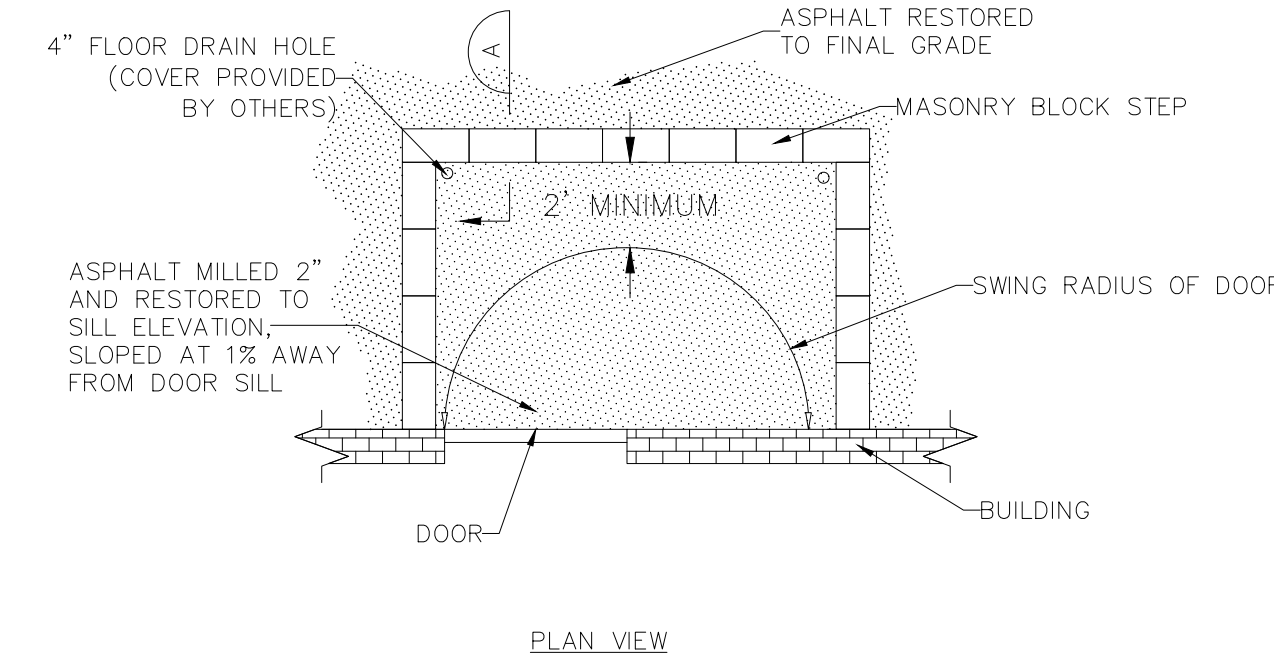
6 CLEAN DGA BACKFILL AND ASPHALT
2-3 DETAIL

NTS



7 CLEAN DGA BACKFILL
2-3 DETAIL

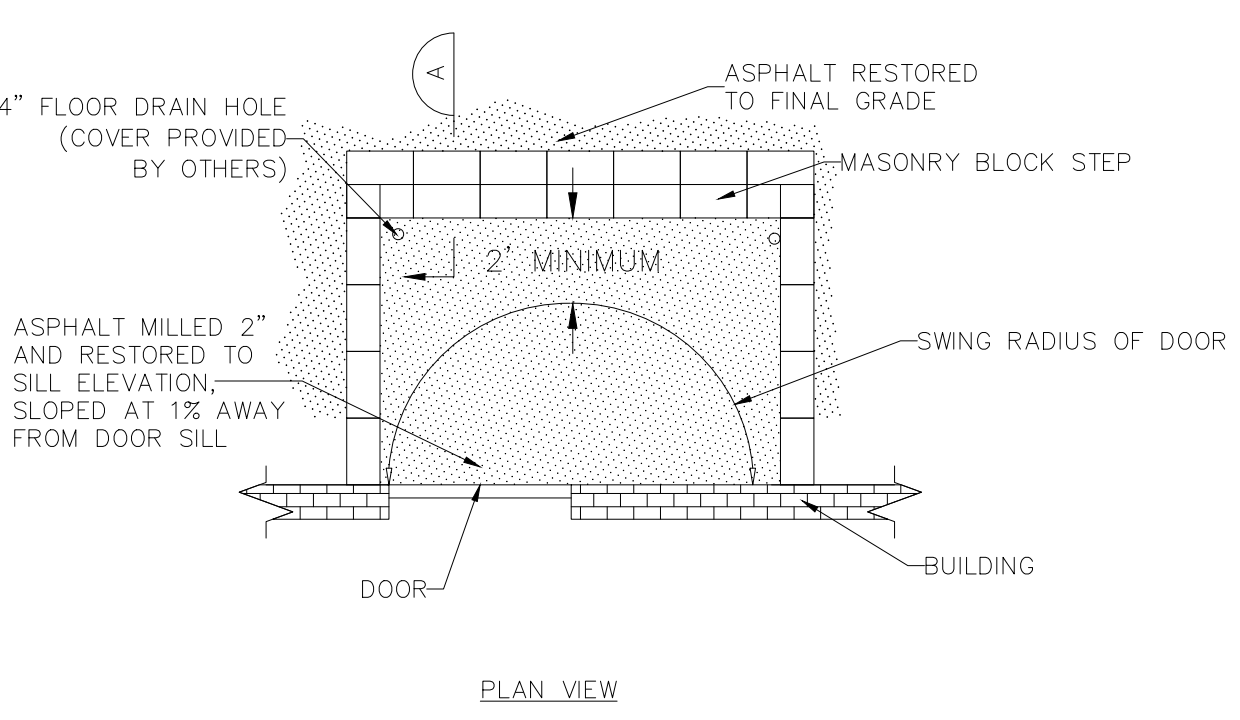
NTS



8 MASONRY BLOCK STEP
2-3 DETAIL

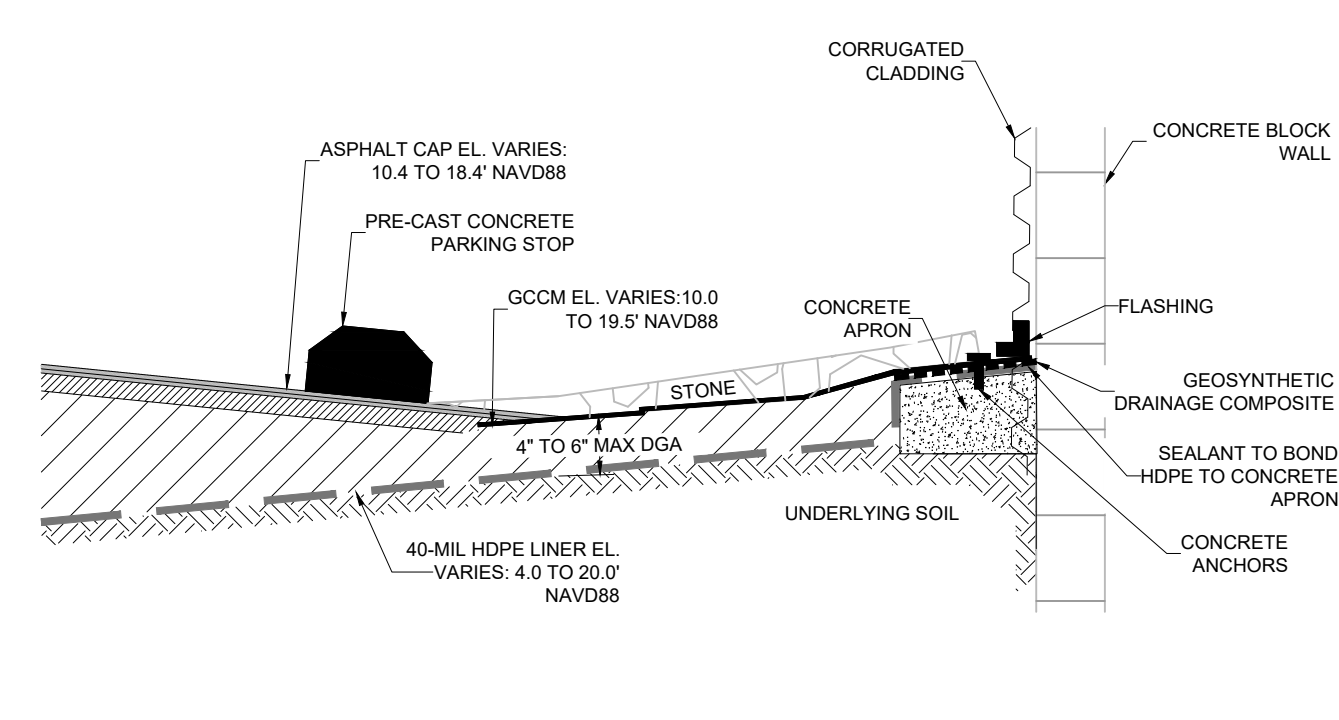
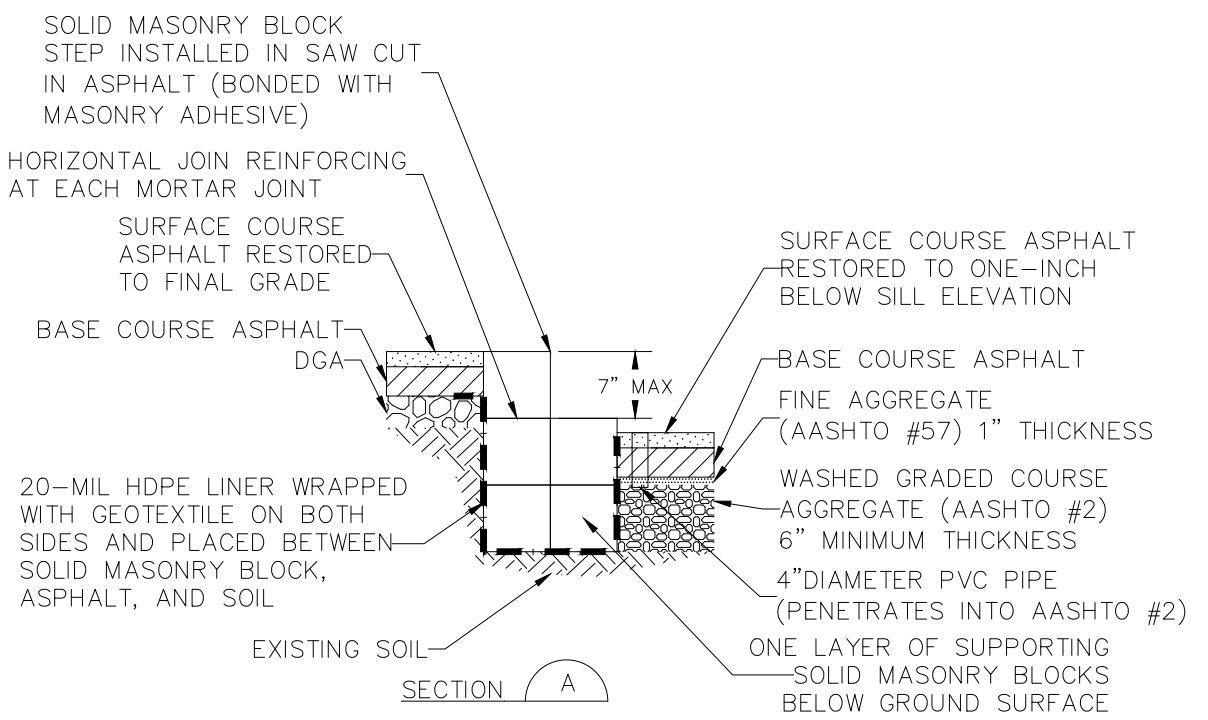
PLAN VIEW

NTS



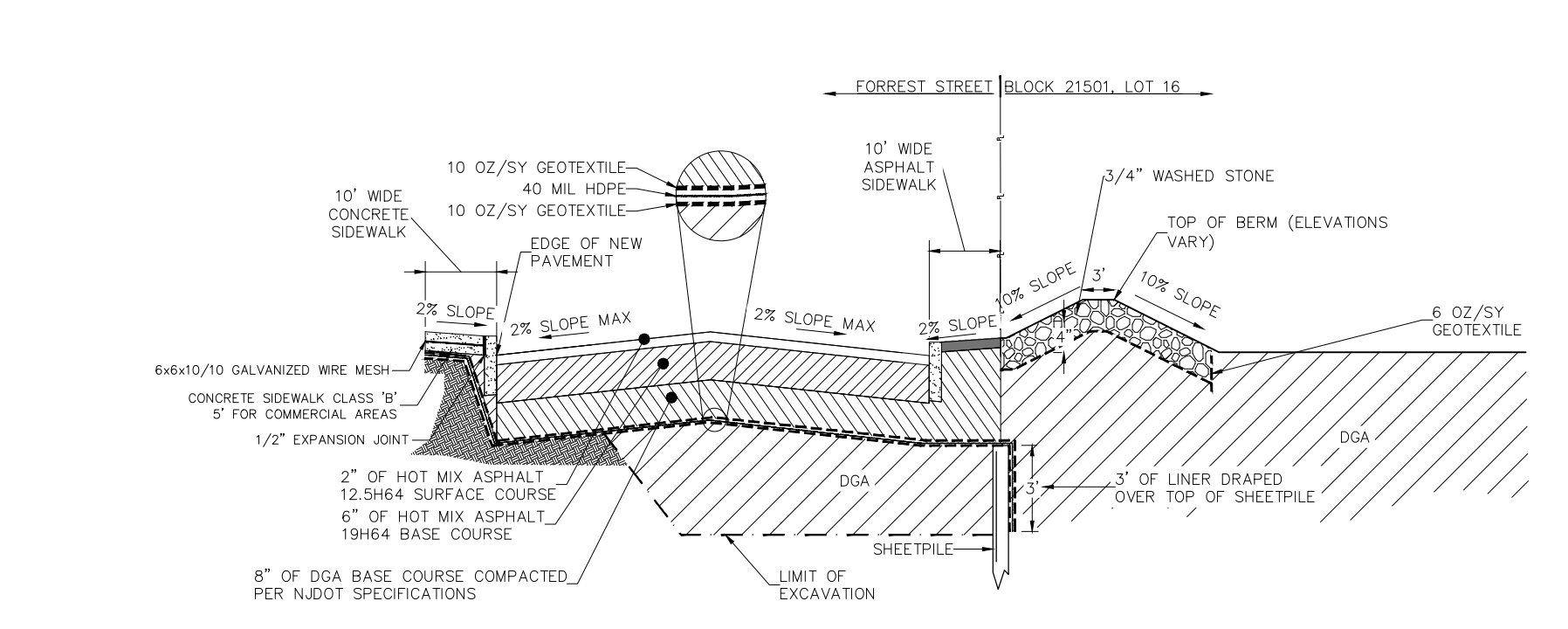
9 MASONRY BLOCK STEP
2-3 DETAIL

NTS



10 HDPE LINER OVERLAIN WITH DGA AND EITHER
2-3 AN ASPHALT CAP OR GCCM

NTS



11 HDPE LINER
2-3 TYPICAL SECTION

NTS

Fig. C:\Users\NicholasM\ACCOM\PPG - 051 910 CA01\00 SHEETS\BARI\SP BARI 2022 BARI Figures\2021-05-17 Figure 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21, 2-22, 2-23, 2-24, 2-25, 2-26, 2-27, 2-28, 2-29, 2-30, 2-31, 2-32, 2-33, 2-34, 2-35, 2-36, 2-37, 2-38, 2-39, 2-40, 2-41, 2-42, 2-43, 2-44, 2-45, 2-46, 2-47, 2-48, 2-49, 2-50, 2-51, 2-52, 2-53, 2-54, 2-55, 2-56, 2-57, 2-58, 2-59, 2-60, 2-61, 2-62, 2-63, 2-64, 2-65, 2-66, 2-67, 2-68, 2-69, 2-70, 2-71, 2-72, 2-73, 2-74, 2-75, 2-76, 2-77, 2-78, 2-79, 2-80, 2-81, 2-82, 2-83, 2-84, 2-85, 2-86, 2-87, 2-88, 2-89, 2-90, 2-91, 2-92, 2-93, 2-94, 2-95, 2-96, 2-97, 2-98, 2-99, 2-100, 2-101, 2-102, 2-103, 2-104, 2-105, 2-106, 2-107, 2-108, 2-109, 2-110, 2-111, 2-112, 2-113, 2-114, 2-115, 2-116, 2-117, 2-118, 2-119, 2-120, 2-121, 2-122, 2-123, 2-124, 2-125, 2-126, 2-127, 2-128, 2-129, 2-130, 2-131, 2-132, 2-133, 2-134, 2-135, 2-136, 2-137, 2-138, 2-139, 2-140, 2-141, 2-142, 2-143, 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- NOTES:
- AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
 - DGA DENSE-GRADED AGGREGATE
 - EL ELEVATION
 - FT FEET OR FOOT
 - HDPE HIGH-DENSITY POLYETHYLENE
 - MIL 1/1000 INCH
 - NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988
 - OZ OUNCE
 - PVC POLYVINYL CHLORIDE
 - SY SQUARE YARD



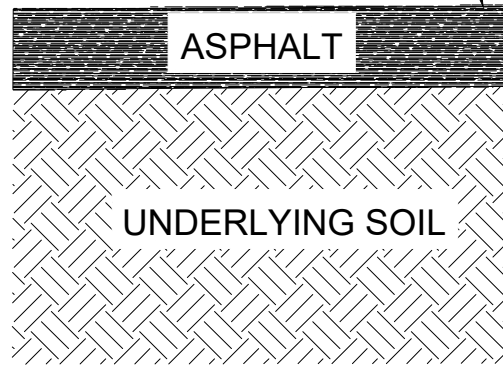
PPG - FORREST STREET PROPERTIES
CURRENT-USE REMEDIATION AREAS
GARFIELD AVENUE GROUP
JERSEY CITY, NEW JERSEY

DATE: 05/17/2023 DRWN: MDN

REMEDIATION ACTION REPORT
RESTORATION AS-BUILT DETAILS

FIGURE 2-3

90 FORREST STREET ALLEYWAY
ASPHALT CAP
(MINIMUM THICKNESS OF 4")



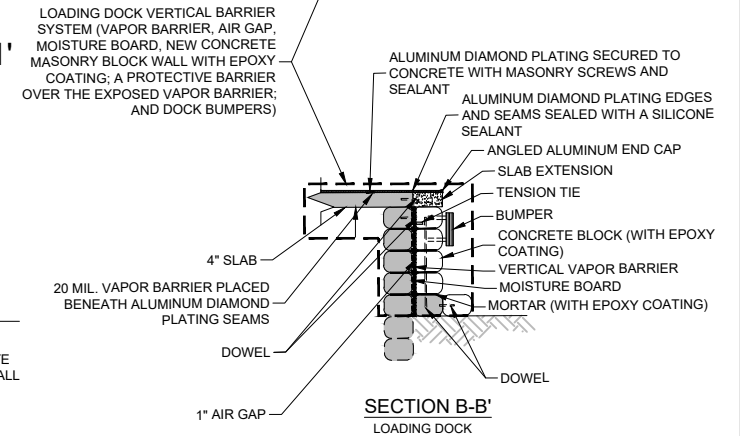
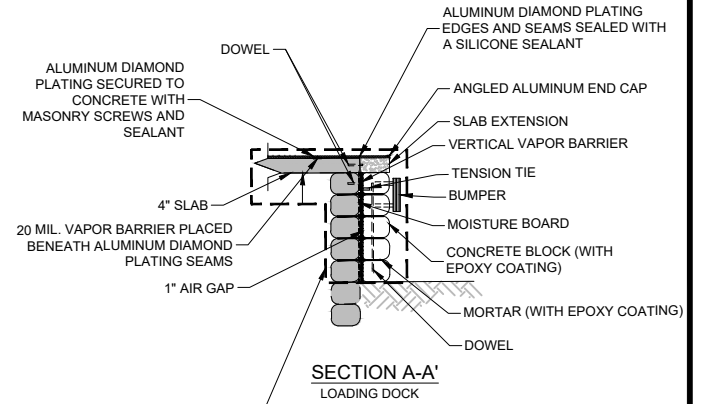
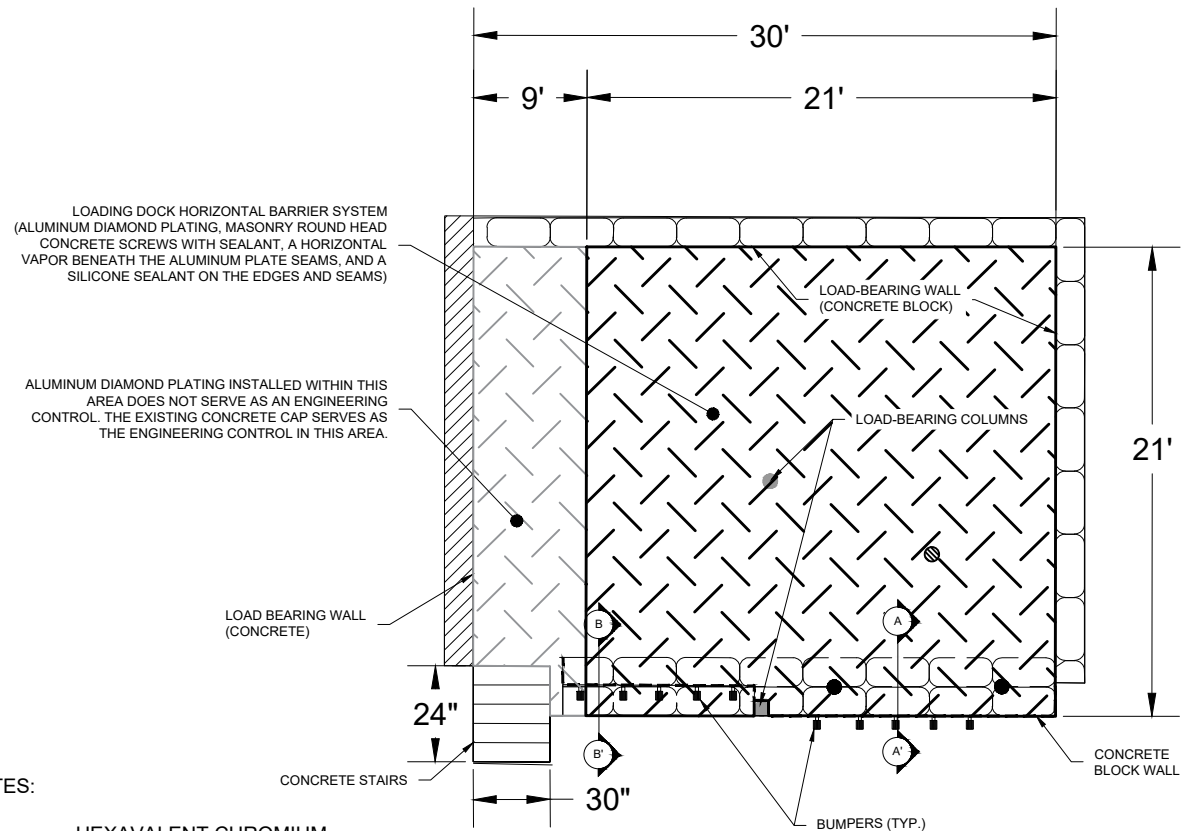
1 90 FORREST STREET ALLEYWAY - ASPHALT CAP
NTS

NOTES:

- NTS NOT TO SCALE
- PI PROGRAM INTEREST



PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		REMEDIAL ACTION REPORT 90 FORREST STREET ALLEYWAY ENGINEERING CONTROL AS-BUILT
DATE: 05/17/2023	DRWN: MDN	FIGURE 2-4



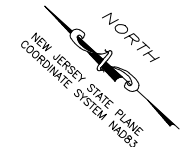
NOTES:

- Cr⁺⁶ HEXAVALENT CHROMIUM
- HDPE HIGH-DENSITY POLYETHYLENE
- MG/KG MILLIGRAM PER KILOGRAM
- MIL 1/1000 INCH
- NTS NOT TO SCALE
- TYP. TYPICAL

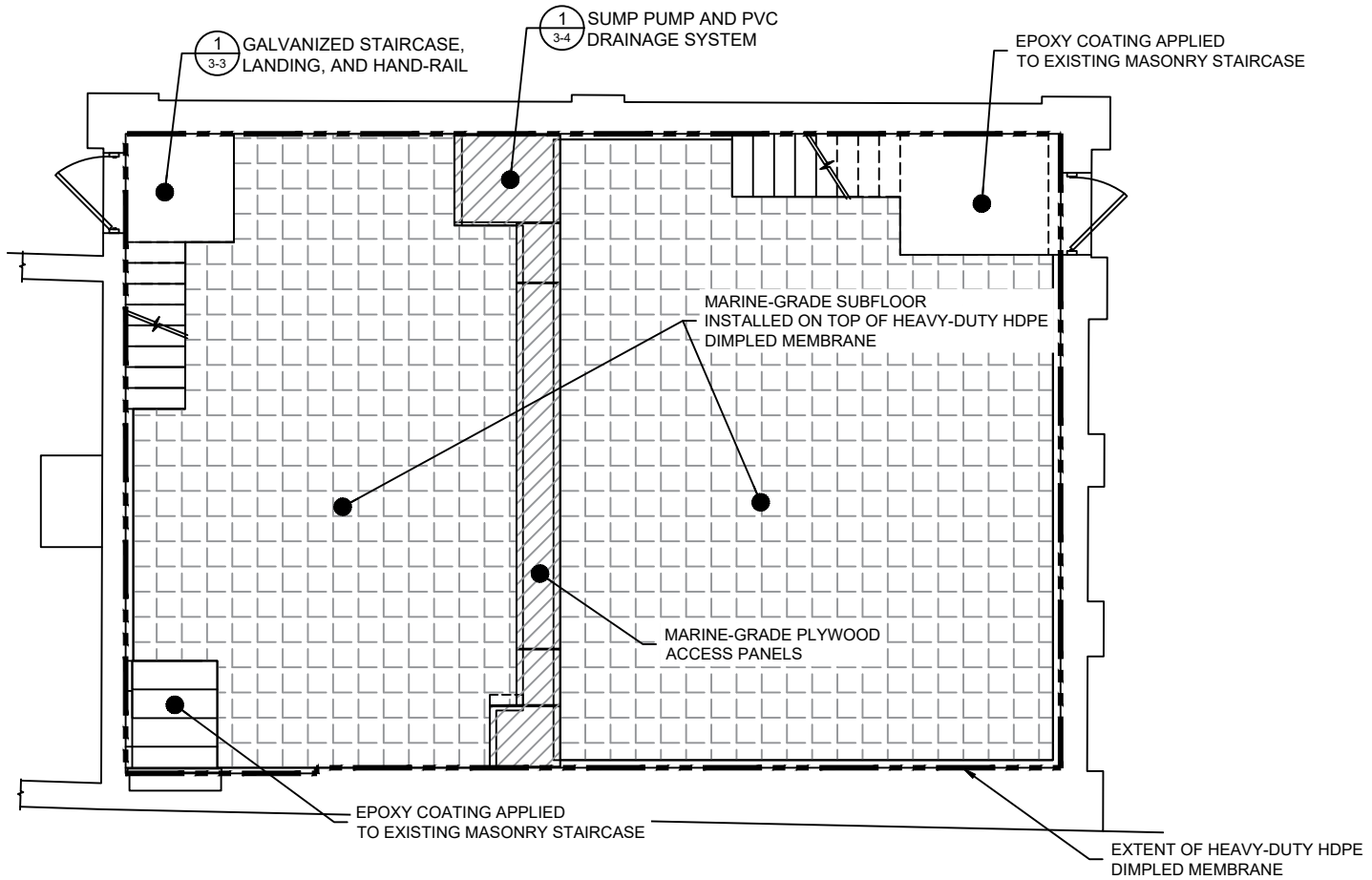
- APPROXIMATE LOCATION OF CONCRETE CHIP SAMPLE CONCENTRATIONS EXCEEDING 20 MG/KG FOR Cr⁺⁶
- ⊗ APPROXIMATE LOCATION OF SOIL SAMPLE CONCENTRATIONS EXCEEDING 20 MG/KG FOR Cr⁺⁶ 4' TO 6' BELOW THE CONCRETE SLAB OF THE LOADING DOCK

- EXTENT OF ALUMINUM DIAMOND PLATING
- EXTENT OF ALUMINUM DIAMOND PLATING SERVING AS AN ENGINEERING CONTROL

1 84 FORREST STREET - LOADING DOCK NTS



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DATE: 05/17/2023 DRWN: MDN	FIGURE 3-1



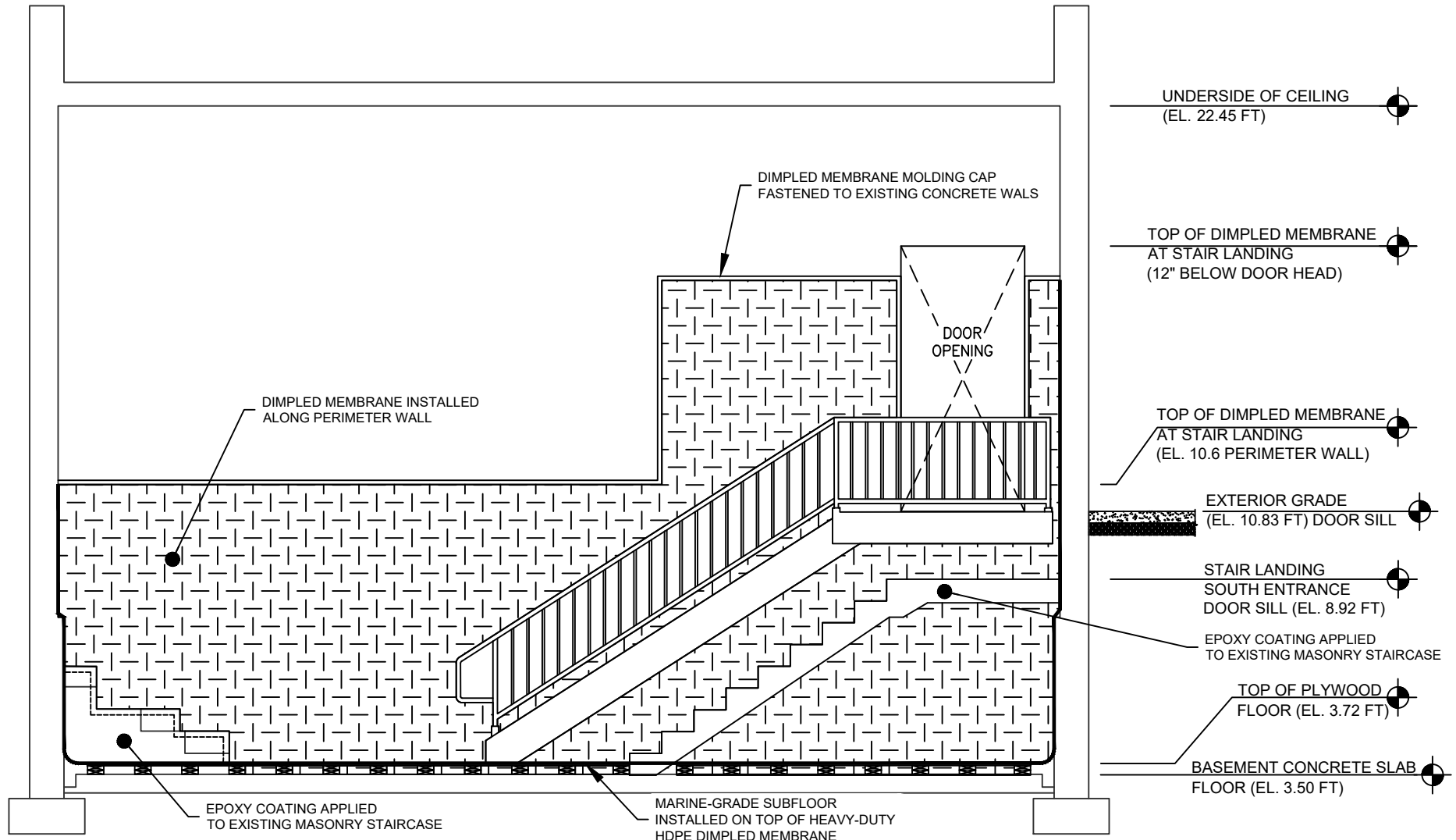
1 90 FORREST STREET - BOILER ROOM BASEMENT LAYOUT
NTS

NOTES:

HDPE HIGH-DENSITY POLYETHYLENE
 NTS NOT TO SCALE
 PVC POLYVINYL CHLORIDE



PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		REMEDIAL ACTION REPORT 90 FORREST STREET BOILER ROOM BASEMENT ENGINEERING CONTROL LAYOUT
DATE: 05/17/2023	DRWN: MDN	FIGURE 3-2



NOTES:

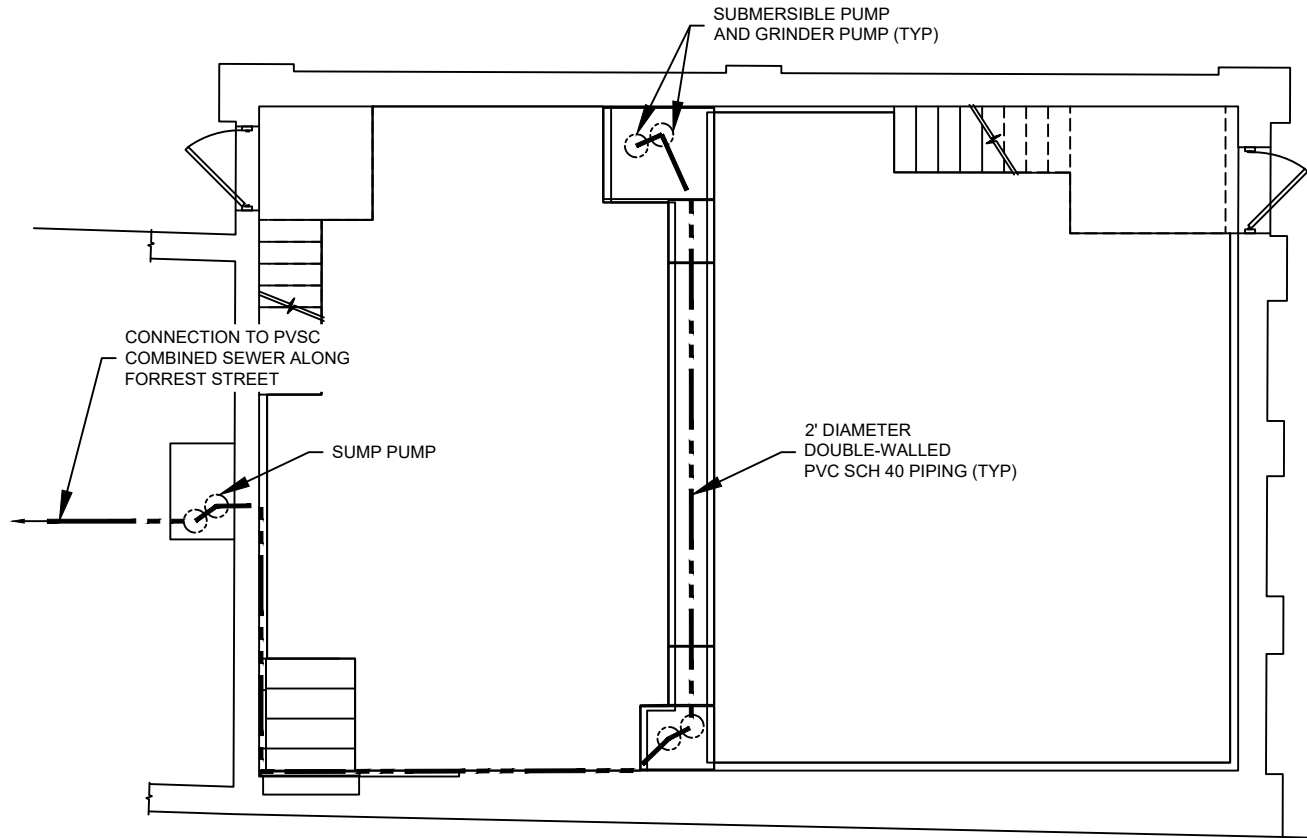
EL. ELEVATION
 HDPE HIGH-DENSITY POLYETHYLENE
 NTS NOT TO SCALE
 PVC POLYVINYL CHLORIDE

1 90 FORREST STREET - BASEMENT BUILDING SECTION
 NTS

- ELEVATIONS SPECIFIED ON THIS DRAWING ARE APPROXIMATE AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		REMEDIAL ACTION REPORT 90 FORREST STREET BOILER ROOM BASEMENT BASEMENT BUILDING SECTION
DATE: 05/17/2023	DRWN: MDN	FIGURE 3-3



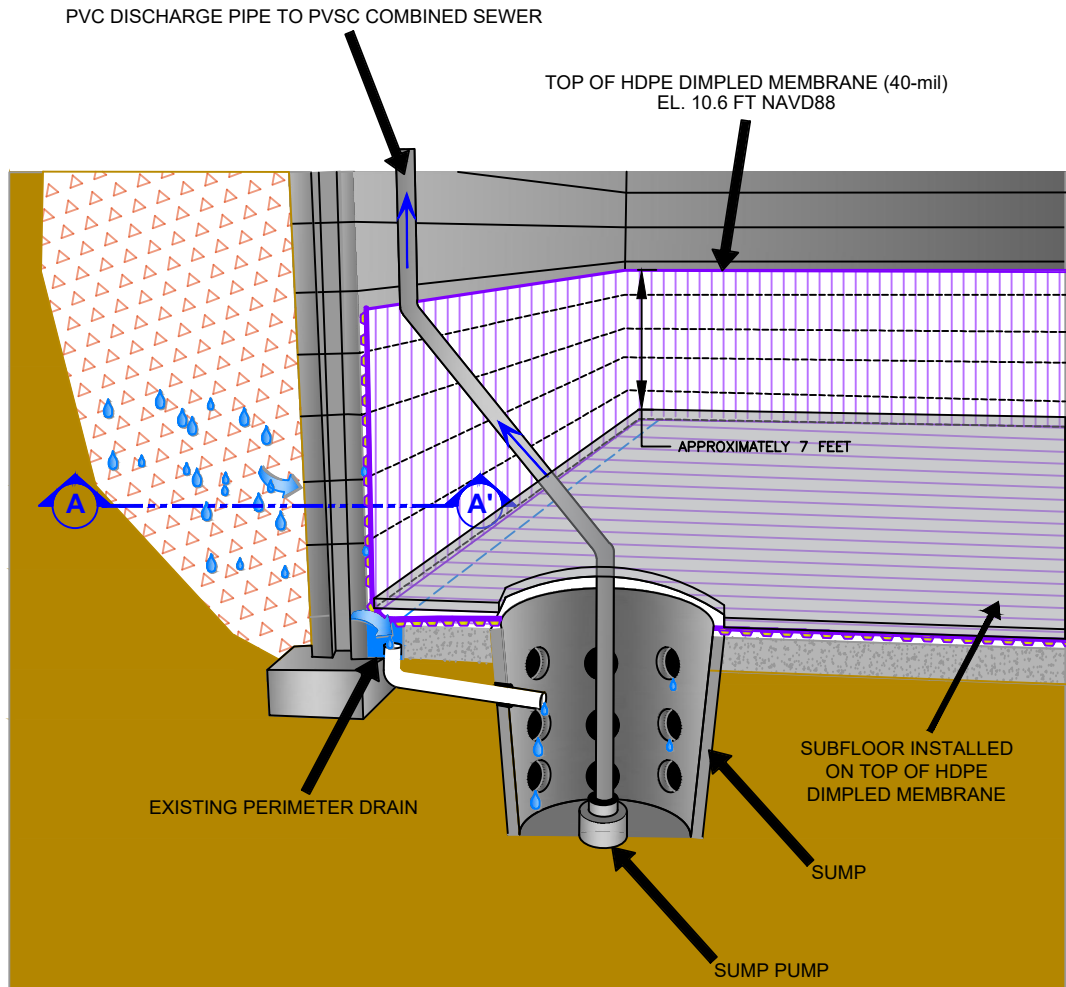
1 90 FORREST STREET - BOILER ROOM BASEMENT LAYOUT
NTS

NOTES:

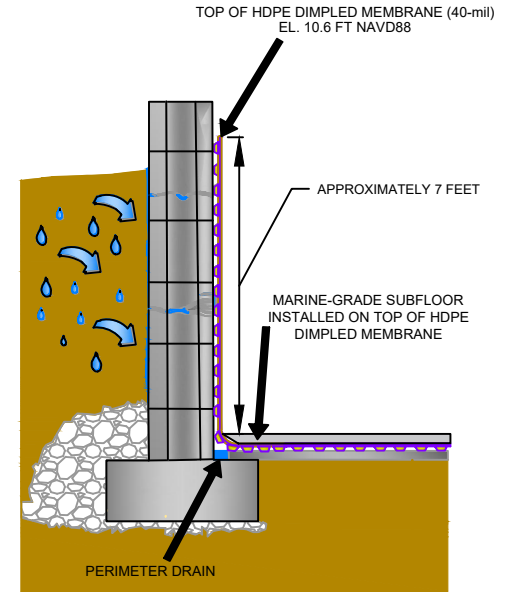
- HDPE HIGH-DENSITY POLYETHYLENE
- NTS NOT TO SCALE
- PVC POLYVINYL CHLORIDE
- PVSC PASSAIC VALLEY SEWERAGE COMMISSION
- SCH SCHEDULE
- TYP TYPICAL



PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		REMEDIAL ACTION REPORT 90 FORREST STREET BOILER ROOM BASEMENT DRAINAGE SYSTEM PLAN
DATE: 05/17/2023	DRWN: MDN	FIGURE 3-4



BOILER ROOM BASEMENT
HDPE DIMPLED MEMBRANE
ISOMETRIC VIEW NTS



BOILER ROOM BASEMENT
HDPE DIMPLED MEMBRANE
SECTION A - A' NTS

NOTES:

- HDPE HIGH-DENSITY POLYETHYLENE
- mil 1/1000 INCH
- NTS NOT TO SCALE
- PVC POLYVINYL CHLORIDE
- PVSC PASSAIC VALLEY SEWERAGE COMMISSION

1 90 FORREST STREET - BOILER ROOM BASEMENT
NTS

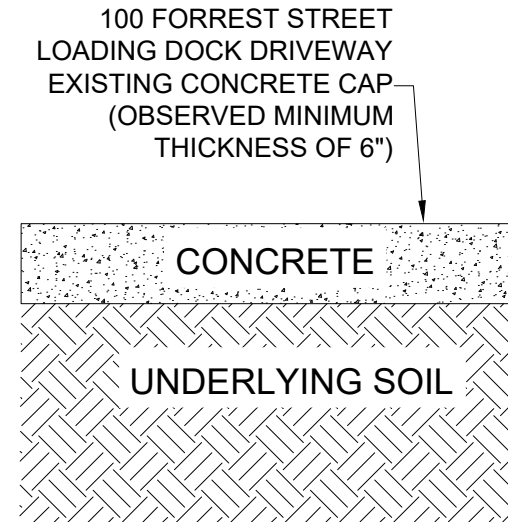
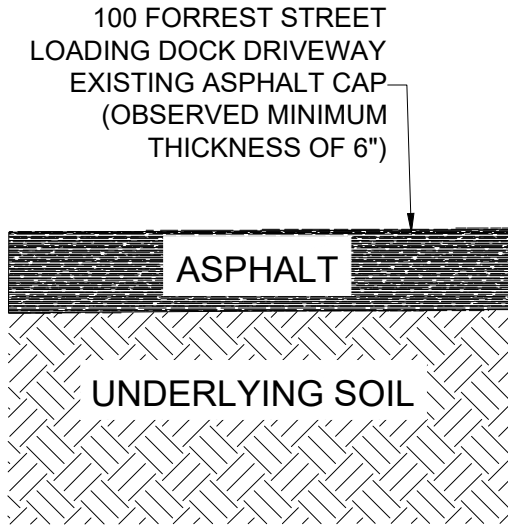


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REMEDIATION ACTION REPORT
90 FORREST STREET BOILER ROOM BASEMENT
ENGINEERING CONTROL AS-BUILT

DATE: 05/17/2023 DRWN: MDN

FIGURE 3-5



1 100 FORREST STREET LOADING DOCK DRIVEWAY - EXISTING ASPHALT CAP
NTS

2 100 FORREST STREET LOADING DOCK DRIVEWAY - EXISTING CONCRETE CAP
NTS

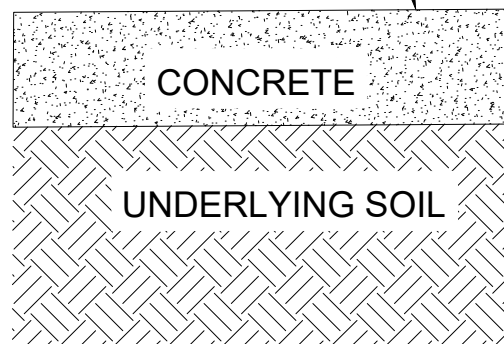
NOTES:

- NTS NOT TO SCALE
- PI PROGRAM INTEREST



PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		REMEDIAL ACTION REPORT 100 FORREST ST. LOADING DOCK DRIVEWAY EXISTING ASPHALT AND CONCRETE CAP
DATE: 05/17/2023	DRWN: MDN	FIGURE 4-1

98/100 FORREST STREET
EXISTING CONCRETE CAP
(OBSERVED MINIMUM
THICKNESS OF 6")



1 98/100 FORREST STREET BUILDING EXISTING CONCRETE CAP
NTS

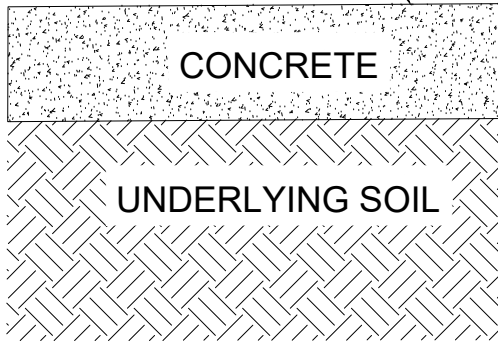
NOTES:

- NTS NOT TO SCALE
- PI PROGRAM INTEREST



PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		REMEDIAL ACTION REPORT 98/100 FORREST STREET EXISTING CONCRETE CAP
DATE: 05/17/2023	DRWN: MDN	FIGURE 4-2

84 FORREST STREET AND
86/90 FORREST STREET
EXISTING CONCRETE CAP
(MINIMUM OBSERVED
THICKNESS OF 6 INCHES)



1 84 FORREST STREET AND 86/90 FORREST STREET EXISTING CONCRETE CAP
NTS

NOTES:

NTS NOT TO SCALE
PI PROGRAM INTEREST



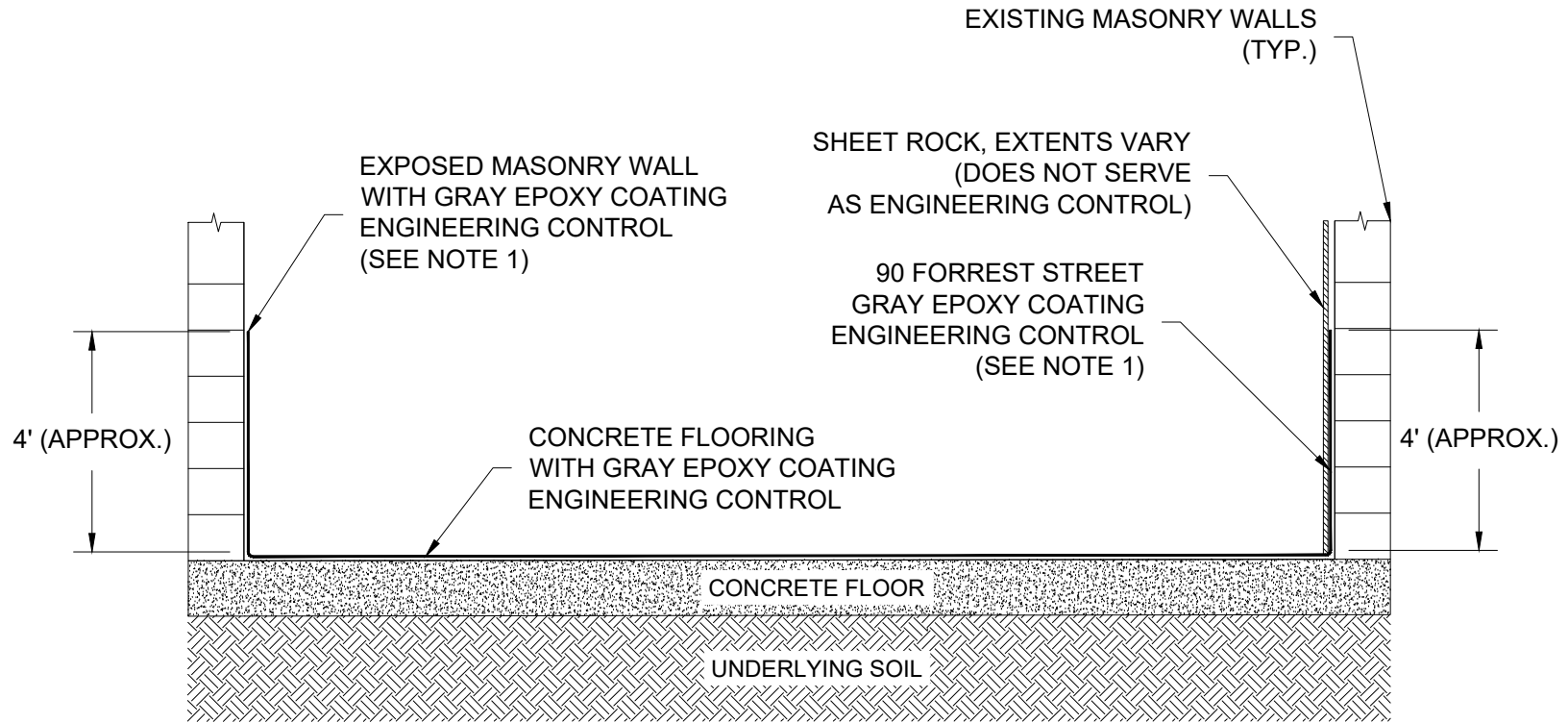
PPG - FORREST STREET PROPERTIES
CURRENT-USE REMEDIATION AREAS
GARFIELD AVENUE GROUP
JERSEY CITY, NEW JERSEY

REMEDIAL ACTION REPORT
84 FORREST ST. AND 86/90 FORREST ST.
EXISTING CONCRETE CAP

DATE: 05/17/2023

DRWN: MDN

FIGURE 4-3



1 90 FORREST STREET OFFICE EPOXY COATING
NTS

NOTES:

1) GRAY EPOXY COATING WAS ONLY APPLIED TO MASONRY WALLS THAT WERE EXPOSED DURING OWNER RENOVATIONS. SEE FIGURE 1-1 FOR SPECIFIC LOCATIONS.

2) SURFACE PAINT COVERING THE GRAY EPOXY COATING DOES NOT SERVE AS AN ENGINEERING CONTROL.

NTS NOT TO SCALE



PPG - FORREST STREET PROPERTIES CURRENT-USE REMEDIATION AREAS GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY		REMEDIAL ACTION REPORT 90 FORREST STREET OFFICE EPOXY COATING ENGINEERING CONTROL
DATE: 03/07/2024	DRWN: MDN	FIGURE 4-4