APPENDIX M

Engineering Reports

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M.2 | SIGNATURE EAST – SITE DRAWINGS

M.3 | SIGNATURE SOUTH – ENGINEER'S REPORT

M.4 | SIGNATURE SOUTH – SITE DRAWINGS

APPENDIX M.1

Signature East – Engineer's Report

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- Underground Basin Manufacturer Specifications
- Buoyancy Calculations
- Stormwater Soil Log Findings by GZA GeoEnvironmental, Inc. dated March 20, 2026
- Geotechnical Report by Whitestone Associates dated May 20, 2015
- NOAA Atlas 14 Precipitation Estimate Report
- Previously Approved NJDEP Flood Hazard Area Verification and Individual Permit

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- HUC-14 Sub-Watershed Map
- NJDEP Surface Waters Map
- FEMA FIRM Map
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- Drainage Area Maps
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  - MVSA Drainage Area Map

G. MAPS

- **USGS Map**
- **Street**
- **Tax Map**
- **Site Aerial Map**
- **HUC-14 Sub-Watershed Map**
- **NJDEP Surface Waters Map**
- **FEMA FIRM Map**
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  - **Proposed Drainage Area Map**
  - **Inlet Drainage Area Map**
  - **Water Quality Drainage Area Map**
  - **MVSA Drainage Area Map**

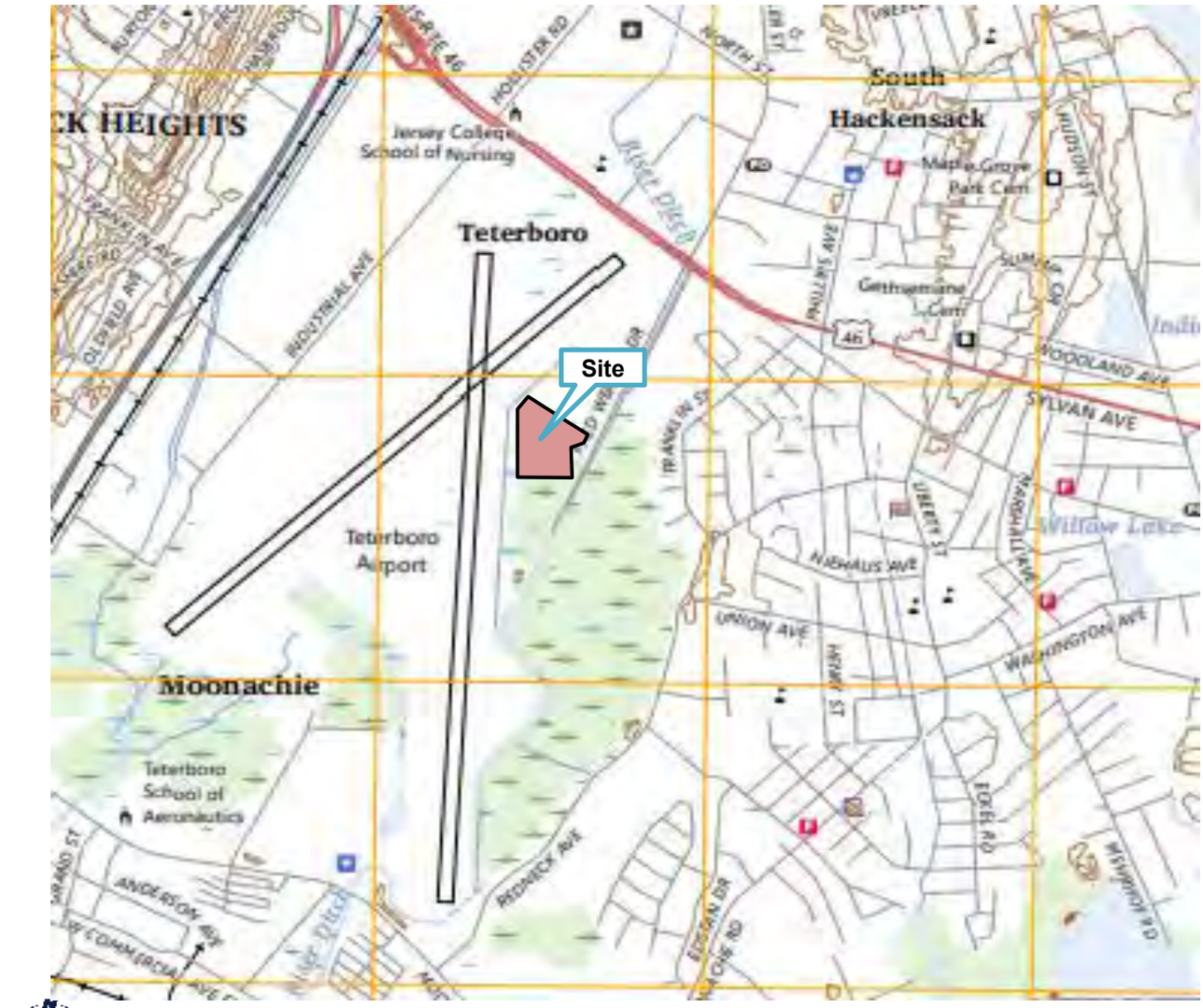


Figure 1: USGS Map
614,820-ft. E; 735,892-ft. N
Weehawken Quadrangle

Source: USGS, 2023

Date Access: 07/31/2025

Signature Aviation USA, LLC	
Fred Wehran Drive **Block 203; Portion of Lot 1**	**Borough of Teterboro, Bergen County, NJ**
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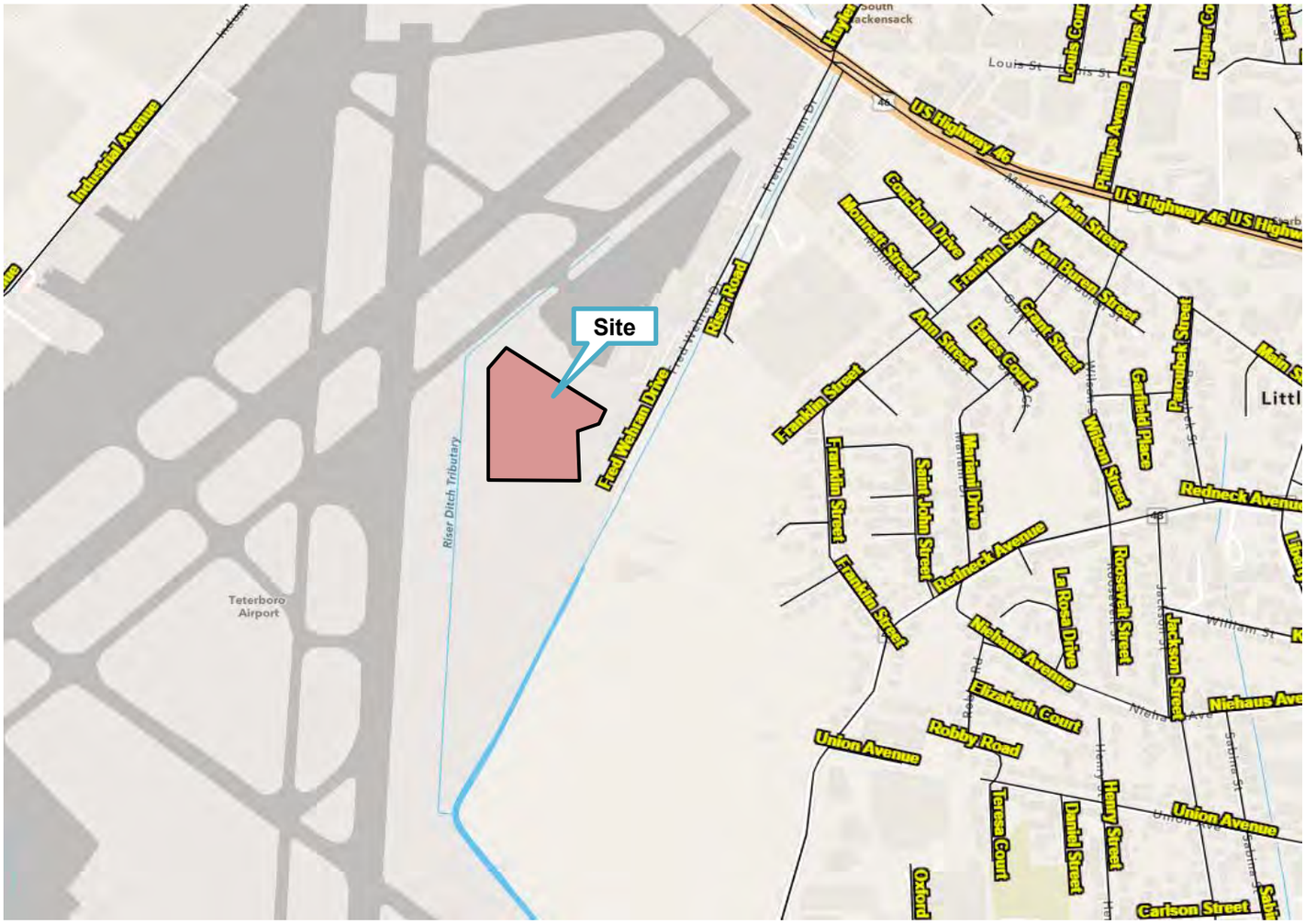


Figure 2: Street Map

Source: NJ-GeoWeb

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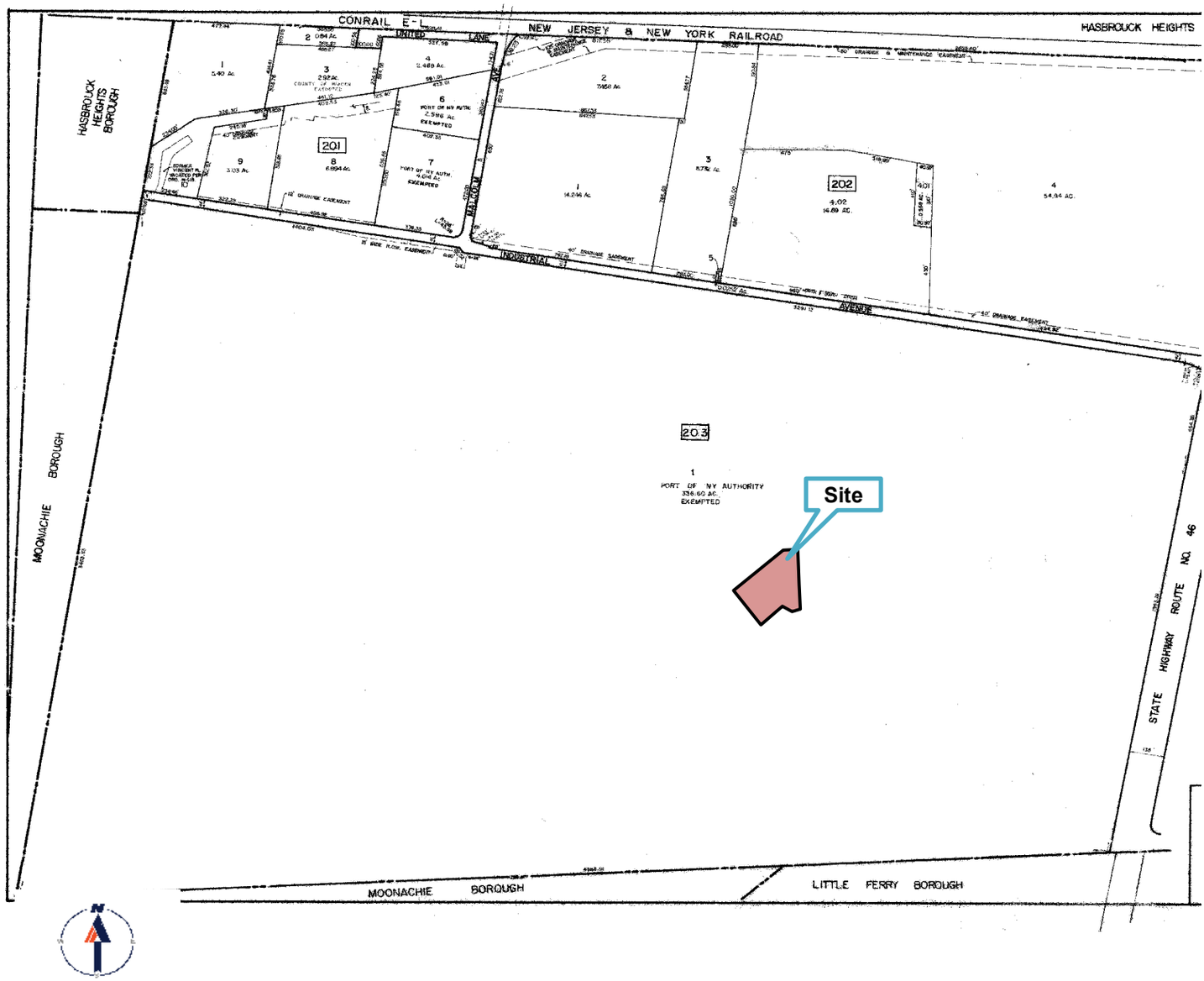


Figure 3: Tax Map

Source: Borough of Teterboro Tax Map, Sheet #2

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Figure 4: Site Aerial Map

Source: NJ-GeoWeb

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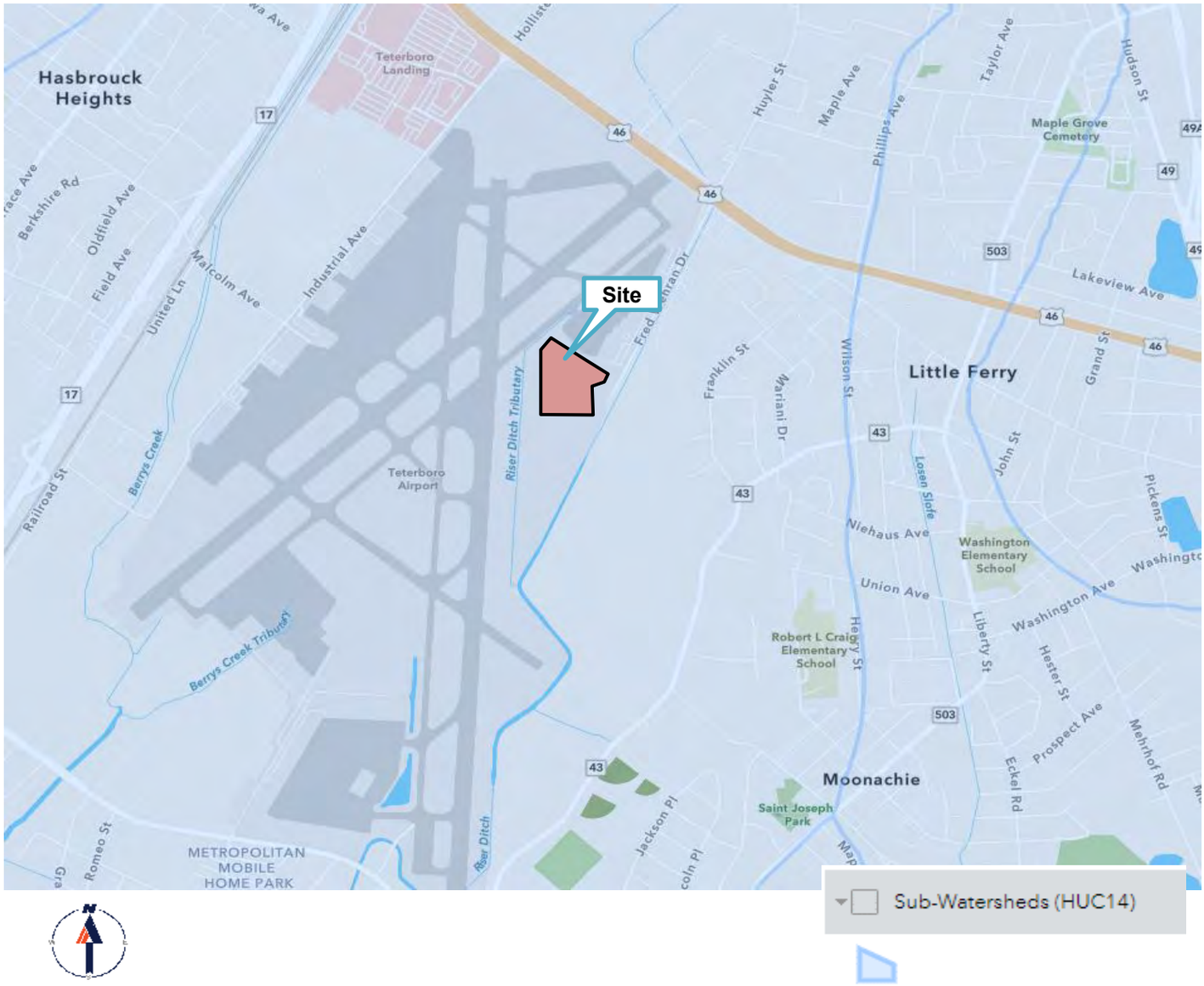


Figure 5: HUC-14 Sub-Watershed Map

Source: NJ-GeoWeb

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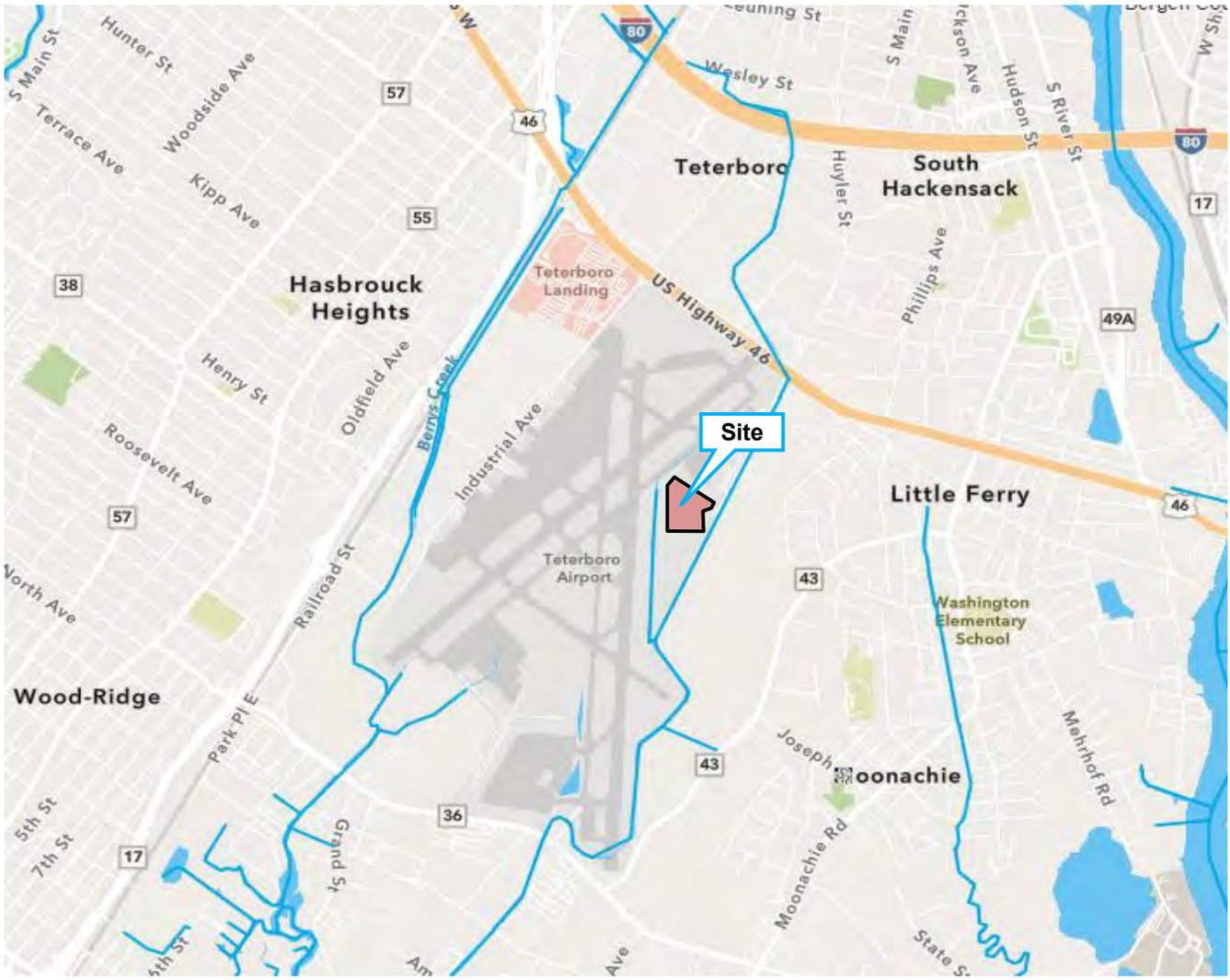


Figure 6: NJDEP Surface Waters Map

Source: NJ-GeoWeb

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Figure 7: FEMA FIRM Map

Source: Preliminary FEMA FIRM Map #34003C0256J dated August 29, 2014

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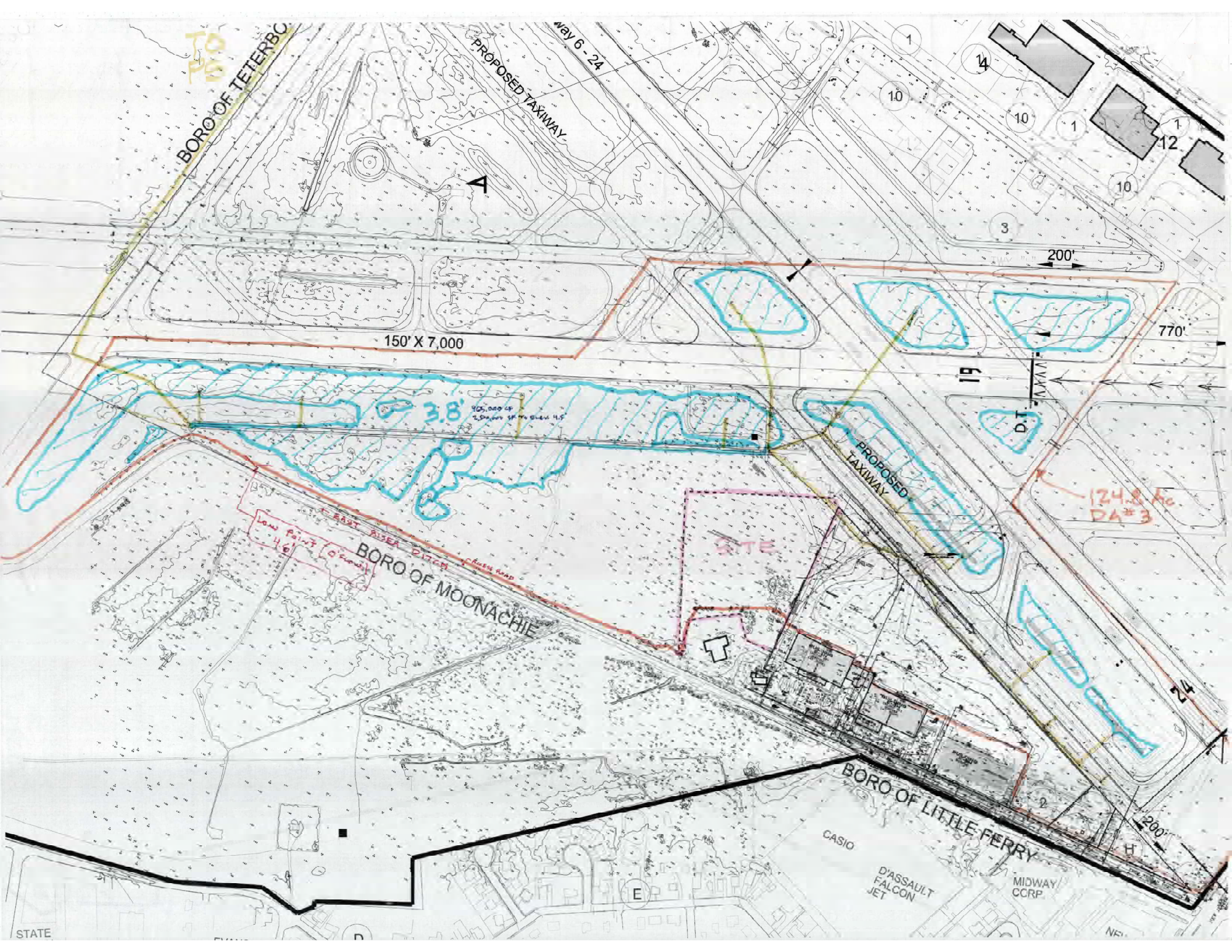
Map Unit Symbol	Map Unit Name
TrkAv	Westbrook, Ipswich, and Sandyhook soils, 0 to 2 percent slopes, very frequently flooded
UdwB	Udorthents, wet substratum, 0 to 8 percent slopes

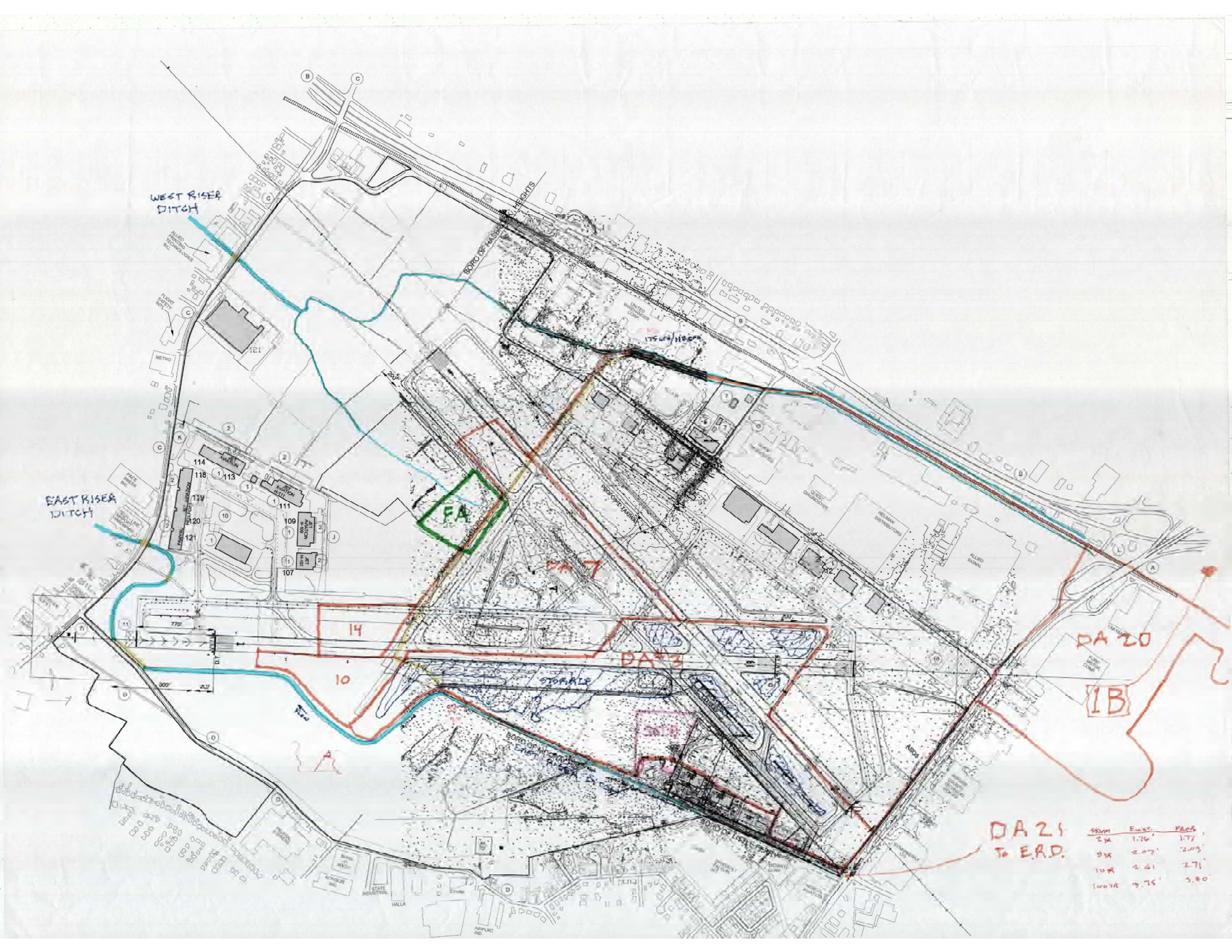
Figure 8: Soils Map

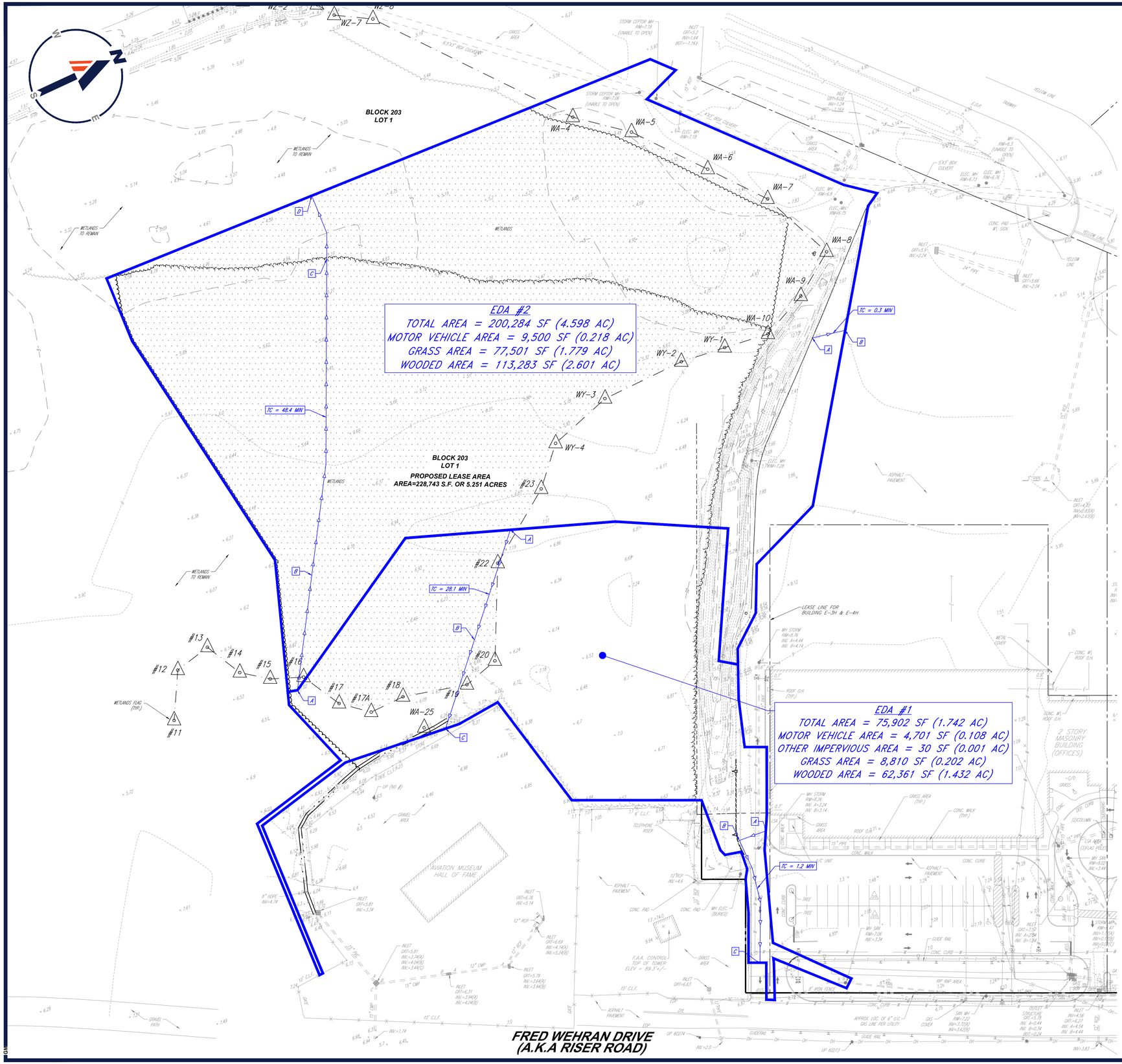
Source: NRCS Web Soil Survey, 2012

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BORO OF TETERBO
PROPOSED TAXIWAY
Way 6 - 24
150' X 7,000
200'
770'
3.8'
PROPOSED TAXIWAY
124.8 Ac
DA#3
SITE
BORO OF MOONACHIE
BORO OF LITTLE FERRY
CASIO
D'ASSAULT FALCON JET
MIDWAY CORP.
STATE


WEST RISER DITCH
EAST RISER DITCH
BORO OF HASBROUCK HEIGHTS
STORAGE
DA 1
DA 2
DA 3
DA 7
DA 20
14
10
1B
DA 21 To E.R.D.
Storm
2 yr
5 yr
10 yr
100 yr
Flow
1.76'
2.07'
2.41'
3.75'
Pipe
1.77'
2.03'
2.71'
3.80'



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SITE DEVELOPMENT PLANS

FOR

SIGNATURE AVIATION USA, LLC

SIGNATURE AVIATION

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TETERBORO AIRPORT
FRED WEHRAN DRIVE
BOROUGH OF TETERBORO
BERGEN COUNTY, NEW JERSEY

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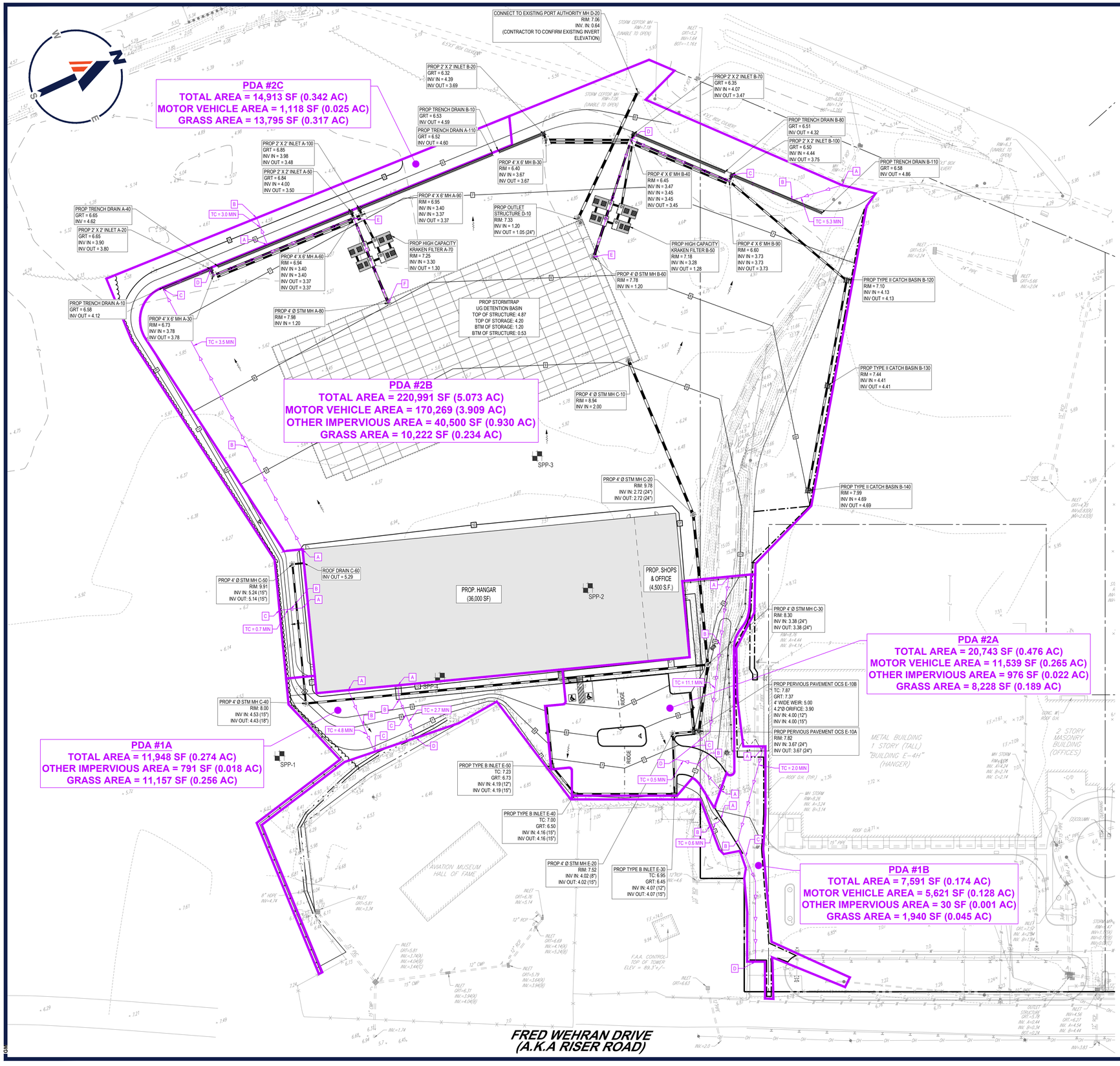
PRE DEVELOPMENT DRAINAGE AREA MAP

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1 OF 5

REVISION 1 - 03/16/2026

I:\BOHLERENG.NET\SHARES\NJ-PROJECTS\2024\NJC240059.00\CAD\DRAWINGS\PLAN SETS\DRAINAGE AREA MAPS\P-DMAP-PROP-NJC240059.00-1A---LAYOUT: C-001 EDAM



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POST DEVELOPMENT DRAINAGE AREA MAP

SHEET NUMBER:

2 OF 5

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INLET AREA B-20
TOTAL = 0.728 AC
IMPERVIOUS = 0.683 AC
OPEN SPACE = 0.045 AC

PROP 2' X 2' INLET B-20
GRT = 6.32
INV IN = 4.39
INV OUT = 3.69

INLET AREA A-100
TOTAL = 0.495 AC
IMPERVIOUS = 0.495 AC

PROP TRENCH DRAIN B-10
GRT = 6.53
INV OUT = 4.59

PROP TRENCH DRAIN A-110
GRT = 6.52
INV OUT = 4.60

PROP 2' X 2' INLET A-100
GRT = 6.85
INV IN = 3.98
INV OUT = 3.48

PROP 2' X 2' INLET A-50
GRT = 6.84
INV IN = 4.00
INV OUT = 3.50

PROP TRENCH DRAIN A-40
GRT = 6.65
INV = 4.62

PROP 2' X 2' INLET A-20
GRT = 6.65
INV IN = 3.90
INV OUT = 3.80

PROP TRENCH DRAIN A-10
GRT = 6.58
INV OUT = 4.12

INLET AREA A-50
TOTAL = 0.820 AC
IMPERVIOUS = 0.820 AC

INLET AREA A-20
TOTAL = 0.418 AC
IMPERVIOUS = 0.418 AC

SPP-3

PROP 4' Ø STM MH C-20
RIM: 9.78
INV IN: 2.72 (24")
INV OUT: 2.72 (24")

PROP 4' Ø STM MH C-50
RIM: 9.91
INV IN: 5.24 (15")
INV OUT: 5.14 (15")

ROOF DRAIN C-60
INV OUT = 5.29

PROP. HANGAR
(36,000 SF)

PROP. SHOPS
& OFFICE
(4,500 S.F.)

SPP-2

ROOF LEADER INLET AREA C-60
TOTAL = 0.930 AC
IMPERVIOUS = 0.930 AC

SPP-4

PROP 4' Ø STM MH C-40
RIM: 8.00
INV IN: 4.53 (15")
INV OUT: 4.43 (18")

INLET AREA E-50
TOTAL = 0.073 AC
IMPERVIOUS = 0.066 AC
OPEN SPACE = 0.007 AC

SPP-1

PROP TYPE B INLET E-50
TC: 7.23
GRT: 6.73
INV IN: 4.19 (12")
INV OUT: 4.19 (15")

INLET AREA E-40
TOTAL = 0.067 AC
IMPERVIOUS = 0.060 AC
OPEN SPACE = 0.007 AC

PROP TYPE B INLET E-40
TC: 7.00
GRT: 6.50
INV IN: 4.16 (15")
INV OUT: 4.16 (15")

PROP 4' Ø STM MH E-20
RIM: 7.52
INV IN: 4.02 (8")
INV OUT: 4.02 (15")

PROP TYPE B INLET E-30
TC: 6.95
GRT: 6.45
INV IN: 4.07 (12")
INV OUT: 4.07 (15")

INLET AREA B-70
TOTAL = 0.597 AC
IMPERVIOUS = 0.481 AC
OPEN SPACE = 0.116 AC

PROP 2' X 2' INLET B-70
GRT = 6.35
INV IN = 4.07
INV OUT = 3.47

PROP TRENCH DRAIN B-80
GRT = 6.51
INV OUT = 4.32

PROP 2' X 2' INLET B-100
GRT = 6.50
INV IN = 4.44
INV OUT = 3.75

PROP TRENCH DRAIN B-110
GRT = 6.58
INV OUT = 4.86

INLET AREA B-100
TOTAL = 0.590 AC
IMPERVIOUS = 0.516 AC
OPEN SPACE = 0.074 AC

PROP TYPE II CATCH BASIN B-120
RIM = 7.10
INV IN = 4.13
INV OUT = 4.13

INLET AREA B-120
TOTAL = 0.129 AC
IMPERVIOUS = 0.129 AC

PROP TYPE II CATCH BASIN B-130
RIM = 7.44
INV IN = 4.41
INV OUT = 4.41

INLET AREA B-130
TOTAL = 0.228 AC
IMPERVIOUS = 0.228 AC

PROP TYPE II CATCH BASIN B-140
RIM = 7.99
INV IN = 4.69
INV OUT = 4.69

INLET AREA B-140
TOTAL = 0.138 AC
OPEN SPACE = 0.138 AC

PROP 4' Ø STM MH C-30
RIM: 8.30
INV IN: 3.38 (24")
INV OUT: 3.38 (24")

INLET AREA E-10
TOTAL = 0.177 AC
IMPERVIOUS = 0.037 AC
OPEN SPACE = 0.140 AC

PROP PERVIOUS PAVEMENT OCS E-10B
TC: 7.87
GRT: 7.37
4' WIDE WEIR: 5.00
4.2"Ø ORIFICE: 3.90
INV IN: 4.00 (12")
INV IN: 4.00 (15")

PROP PERVIOUS PAVEMENT OCS E-10A
RIM: 7.82
INV IN: 3.67 (24")
INV OUT: 3.67 (24")

INLET AREA E-30
TOTAL = 0.159 AC
IMPERVIOUS = 0.125 AC
OPEN SPACE = 0.035 AC

METAL BUILDING
1 STORY (TALL)
"BUILDING E-4H"

2 STORY
MASONRY
BUILDING
(OFFICES)

AVIATION MUSEUM
HALL OF FAME

F.A.A. CONTROL
TOP OF TOWER
ELEV = 69.3'+/-

RIDGE

FRED WEHRAN DRIVE
(A.K.A RISER ROAD)

40 20 10 0 40
SCALE: 1" = 40'

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FOR

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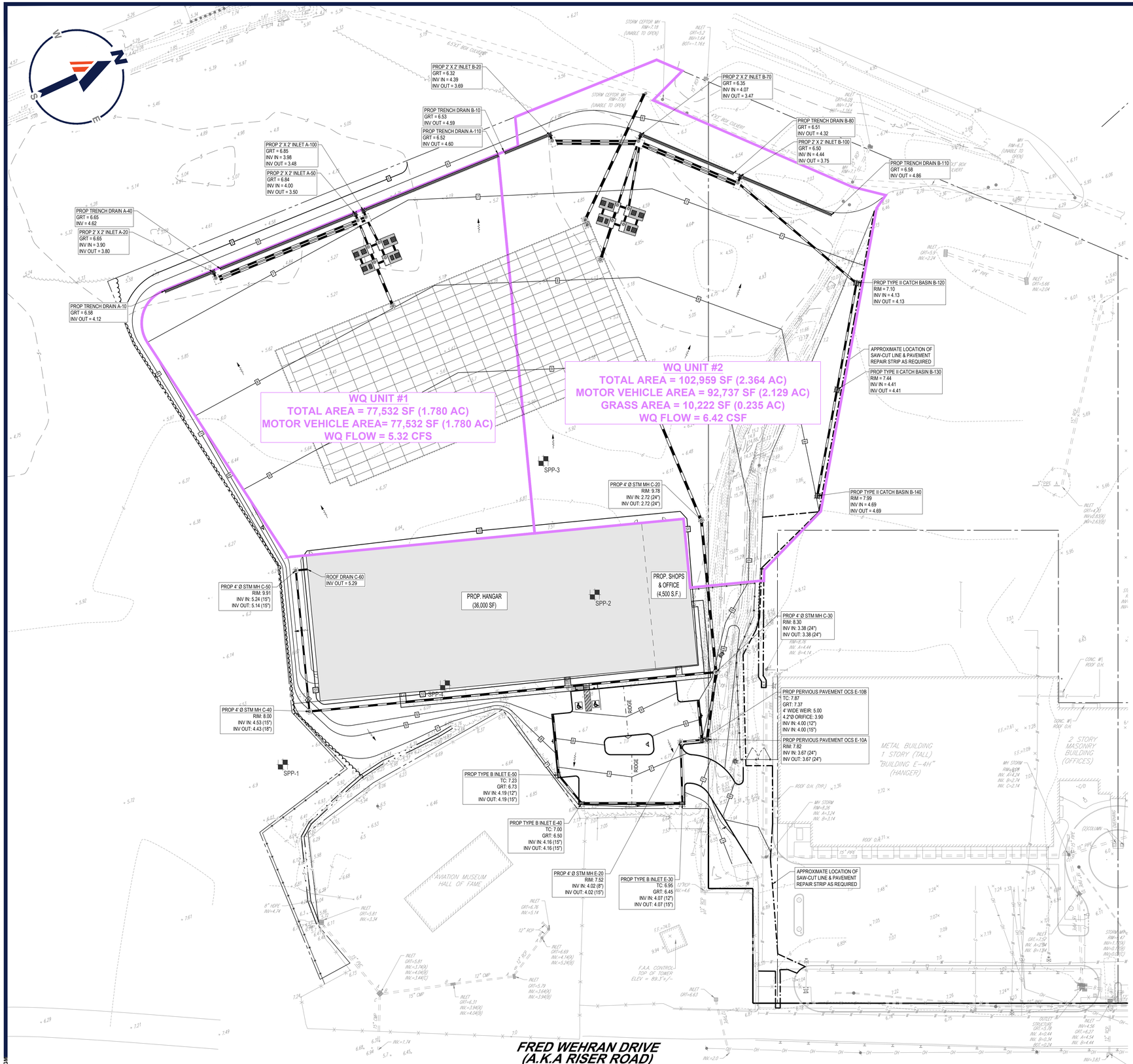
POST DEVELOPMENT INLET AREA MAP

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3 OF 5

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J.A. HOLZAPFEL

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 73500

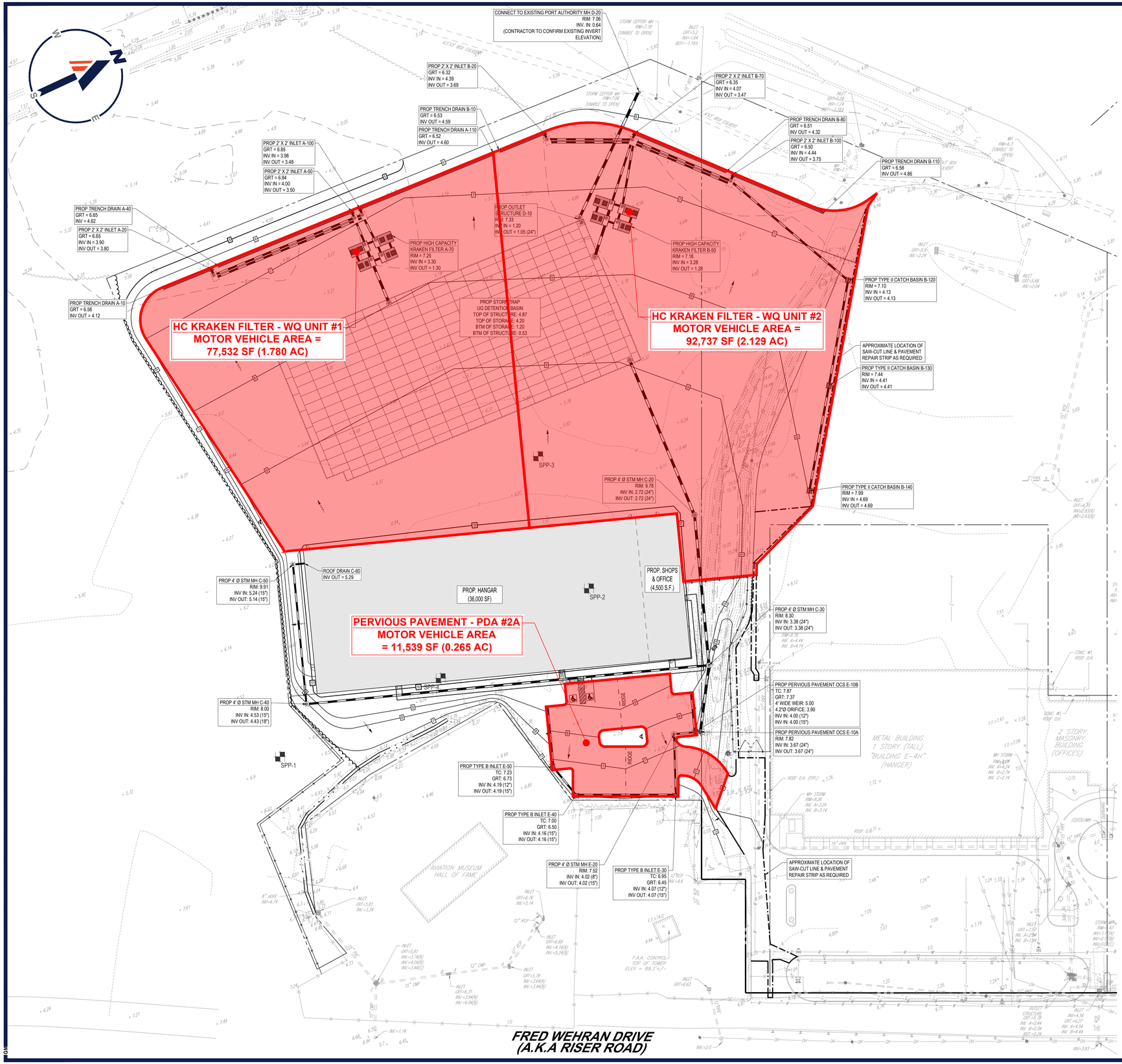
SHEET TITLE:

WQ UNIT DRAINAGE AREA MAP

SHEET NUMBER:

4 OF 5

REVISION 1 - 03/16/2026



LEGEND

REGULATED MOTOR VEHICLE SURFACE	

BOHLER

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

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REVISIONS

REV	DATE	COMMENT	DRAWN BY / CHECKED BY
1	03/16/2026	REV PER NJDEP COMMENTS	GM / ECW/BE

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PROJECT No.:	NJC240059.00-1A
DRAWN BY:	CTC
CHECKED BY:	BE
DATE:	10/28/2025
CAD I.D.:	P-DMAP-PROP

PROJECT:

SITE DEVELOPMENT PLANS

FOR

SIGNATURE AVIATION USA, LLC

SIGNATURE AVIATION

PROPOSED EAST SIDE RAMP EXPANSION & HANGAR

TETERBORO AIRPORT
FRED WEHRAN DRIVE
BOROUGH OF TETERBORO
BERGEN COUNTY, NEW JERSEY

BOHLER
BOHLER ENGINEERING NJ, LLC
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NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000122

J.A. HOLZAPFEL
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 73500

SHEET TITLE:

MVSA DRAINAGE AREA MAP

SHEET NUMBER:

5 OF 5

REVISION 1 - 03/16/2026

I:\BOHLER\NJ\SHARED\NJ-PROJECTS\2024\NJC240059.00\CAD\DRAWINGS\PLAN SETS\DRAINAGE AREA MAPS\P-DMAP-PROP-NJC240059.00-1A.---=LAYOUT: C-005 MVSA