Stormwater Management Requirements

Stormwater Retention Volume

SWRv = P (Rv$_I$*%I + Rv$_C$*%C + Rv$_N$*%N)* SA*7.48 / 12

- SWRv = Volume required to be retained on site (gal)
- P   = Precipitation (in)
- Rv$_I$ = 0.95 (runoff coefficient for impervious cover)
- Rv$_C$ = 0.25 (runoff coefficient for compacted cover)
- Rv$_N$ = 0.0 (runoff coefficient for natural cover)
- %I = % of site in impervious cover
- %C = % of site in compacted cover
- %N = % of site in natural cover
- SA = Surface area (square feet)

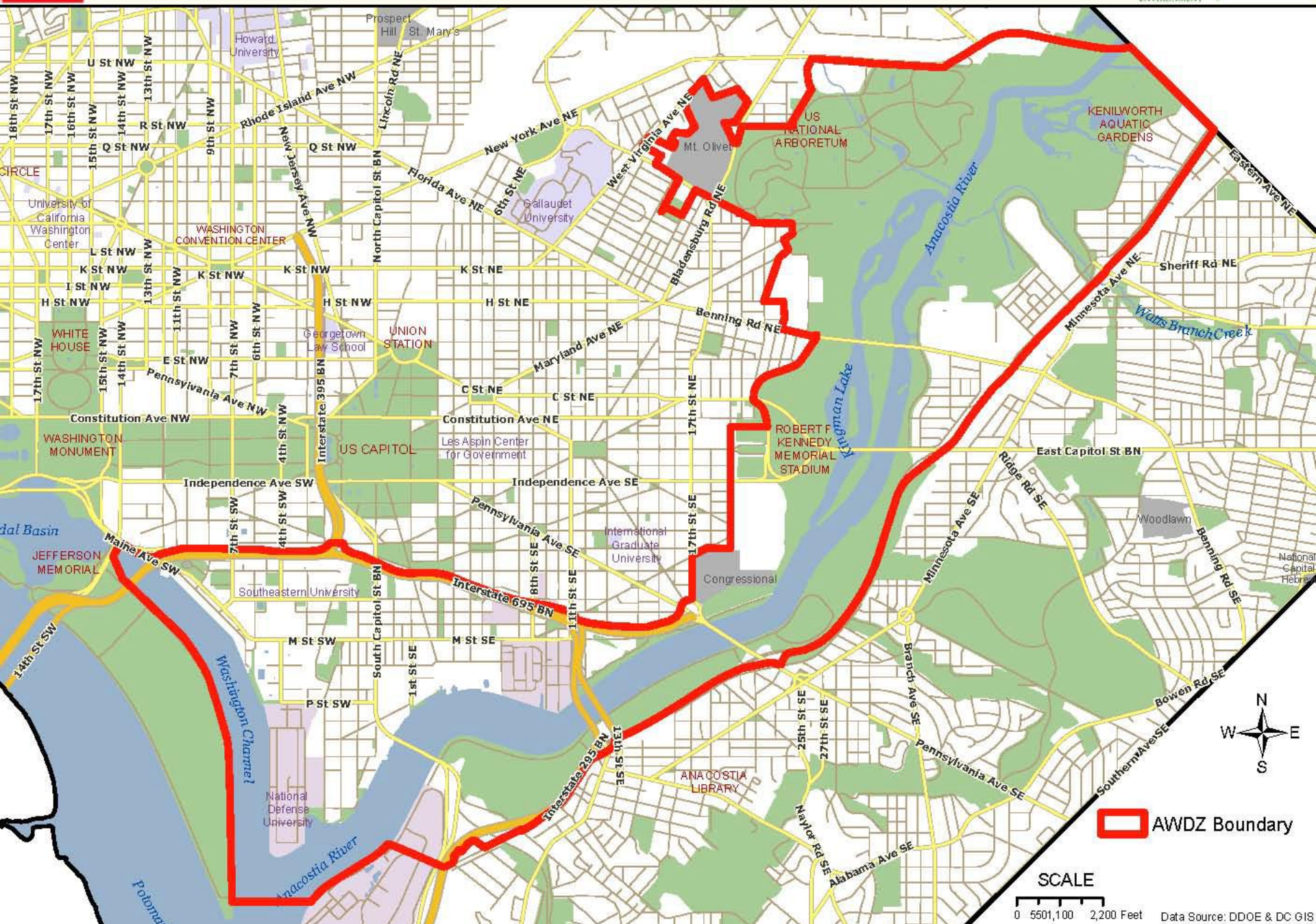# Precipitation Depths:

SWRv = P (Rv$_I$*%I + Rv$_C$*%C + Rv$_N$*%N)* SA*7.48 / 12

- For Major Land-Disturbing Activity: P = 1.2 inches

- For Major Substantial Improvement Activity (AWDZ): P = 1.0 inches

- For Major Substantial Improvement Activity (District-wide): P = 0.8 inches

- For PROW: Achieve required volume to the MEP.

Anacostia Waterfront Development Zone (AWDZ)

DISTRICT DEPARTMENT OF THE ENVIRONMENT

green forward

Howard University
Prospect Hill
St. Mary's
U St NW
18th St NW
17th St NW
16th St NW
15th St NW
14th St NW
13th St NW
9th St NW
R St NW
Rhode Island Ave NW
Lincoln Rd NE
New York Ave NE
West Virginia Ave NE
US NATIONAL ARBORETUM
KENILWORTH AQUATIC GARDENS
CIRCLE
Q St NW
Q St NW
Florida Ave NE
6th St NE
Mt. Olivet
Bladensburg Rd NE
Anacostia River
Eastern Ave NE
University of California Washington Center
New Jersey Ave NW
North Capitol St SE
Gallaudet University
WASHINGTON CONVENTION CENTER
L St NW
K St NW
13th St NW
11th St NW
K St NW
K St NW
K St NE
Benning Rd NE
Minnesota Ave NE
Sheriff Rd NE
I St NW
H St NW
7th St NW
6th St NW
H St NW
H St NE
Watts Branch Creek
WHITE HOUSE
E St NW
Georgetown Law School
UNION STATION
Maryland Ave NE
17th St NE
Kingman Lake
17th St SE
Pennsylvania Ave NW
C St NE
C St NE
Constitution Ave NE
ROBERT F KENNEDY MEMORIAL STADIUM
East Capitol St BN
Constitution Ave NW
4th St NW
US CAPITOL
Les Aspin Center for Government
WASHINGTON MONUMENT
Woodlawn
Independence Ave SW
Independence Ave SE
National Capital Hebre
dal Basin
JEFFERSON MEMORIAL
Maine Ave SW
7th St SW
4th St SW
Pennsylvania Ave SE
8th St SE
11th St SE
International Graduate University
Congressional
Ridge Rd SE
Minnesota Ave SE
Benning Rd SE
Southeastern University
Interstate 695 BN
14th St SW
South Capitol St BN
M St SW
M St SE
1st St SE
Branch Ave SE
Washington Channel
P St SW
25th St SE
27th St SE
Pennsylvania Ave SE
Bowen Rd SE
Interstate 295 BN
13th St BN
Southern Ave SE
National Defense University
ANACOSTIA LIBRARY
Naylor Rd SE
Alabama Ave SE
Potoma
Anacostia River

N
W   E
S

☐ AWDZ Boundary

SCALE

0   550 1,100   2,200 Feet

Data Source: DDOE & DC GIS

Quantity Control Requirements:

- 2-year storm: control peak discharge to pre-development conditions.

- 15-year storm: control peak discharge to pre-project conditions.
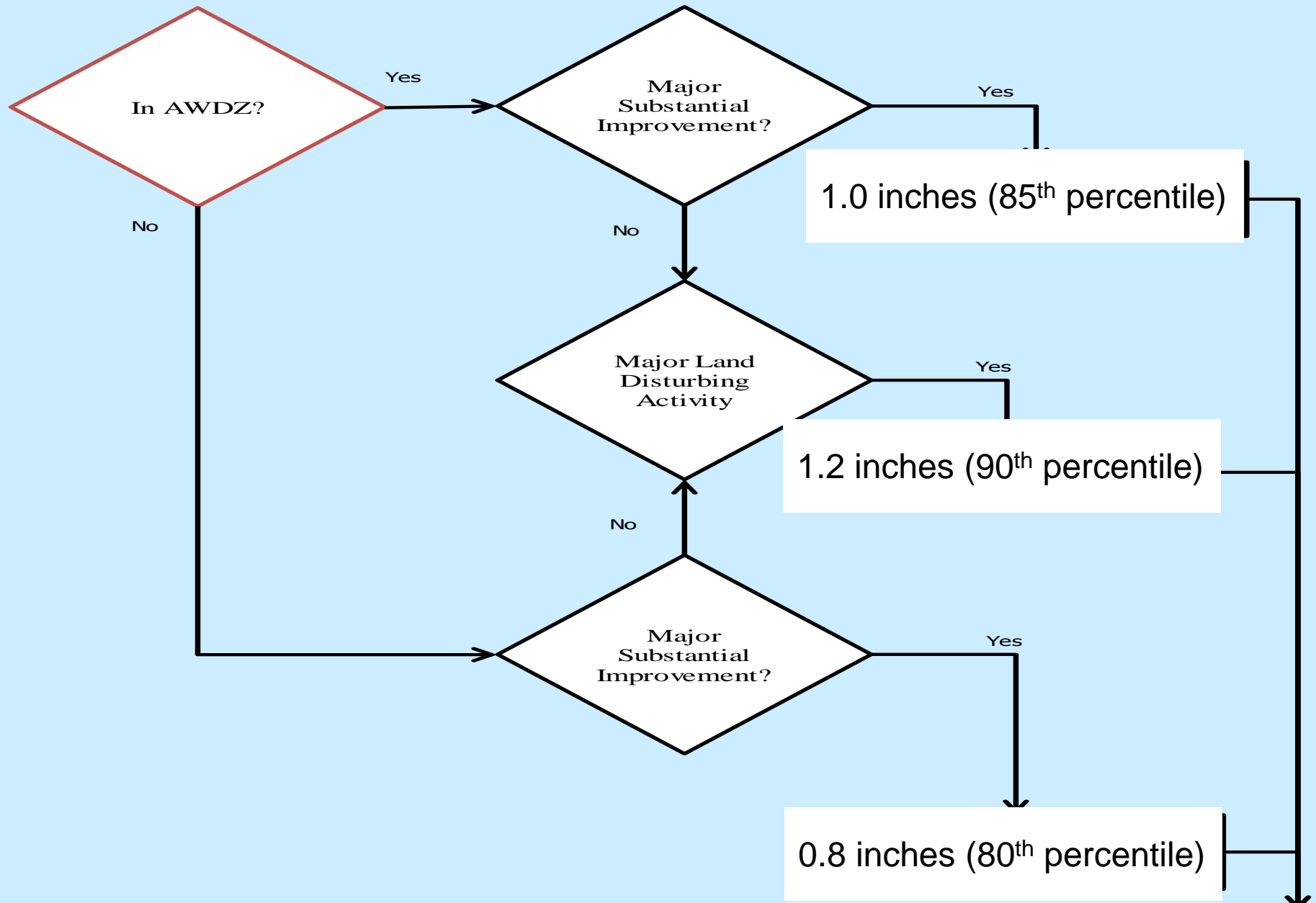
Figure 2.3: Precipitation Event
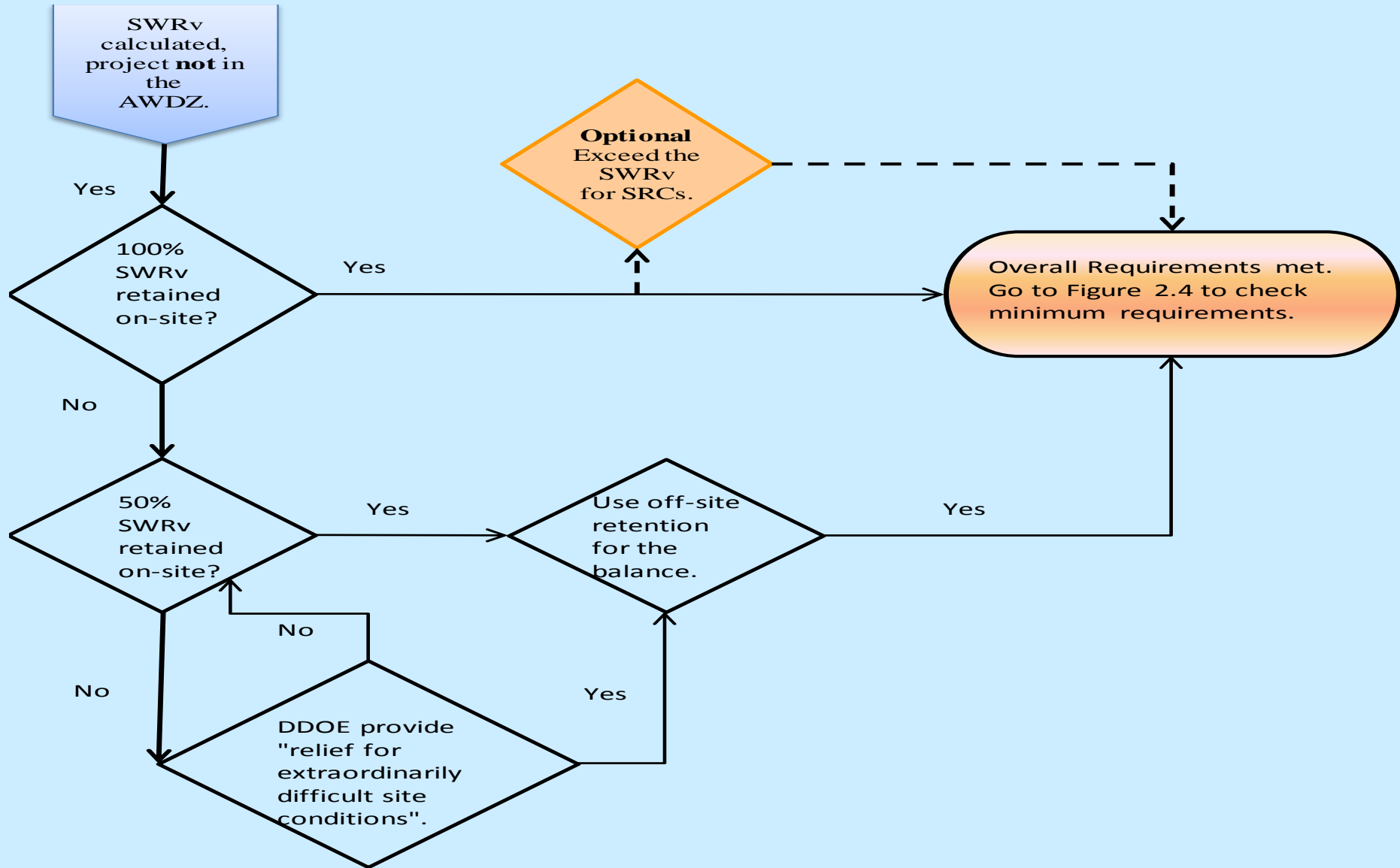
Figure 2.4: Overall Requirements

SWRv calculated, project not in the AWDZ.

Yes

100% SWRv retained on-site?

Yes → **Overall Requirements met. Go to Figure 2.4 to check minimum requirements.**

Optional Exceed the SWRv for SRCs.

No

50% SWRv retained on-site?

Yes → **Use off-site retention for the balance.**

Yes → **Overall Requirements met.**

No

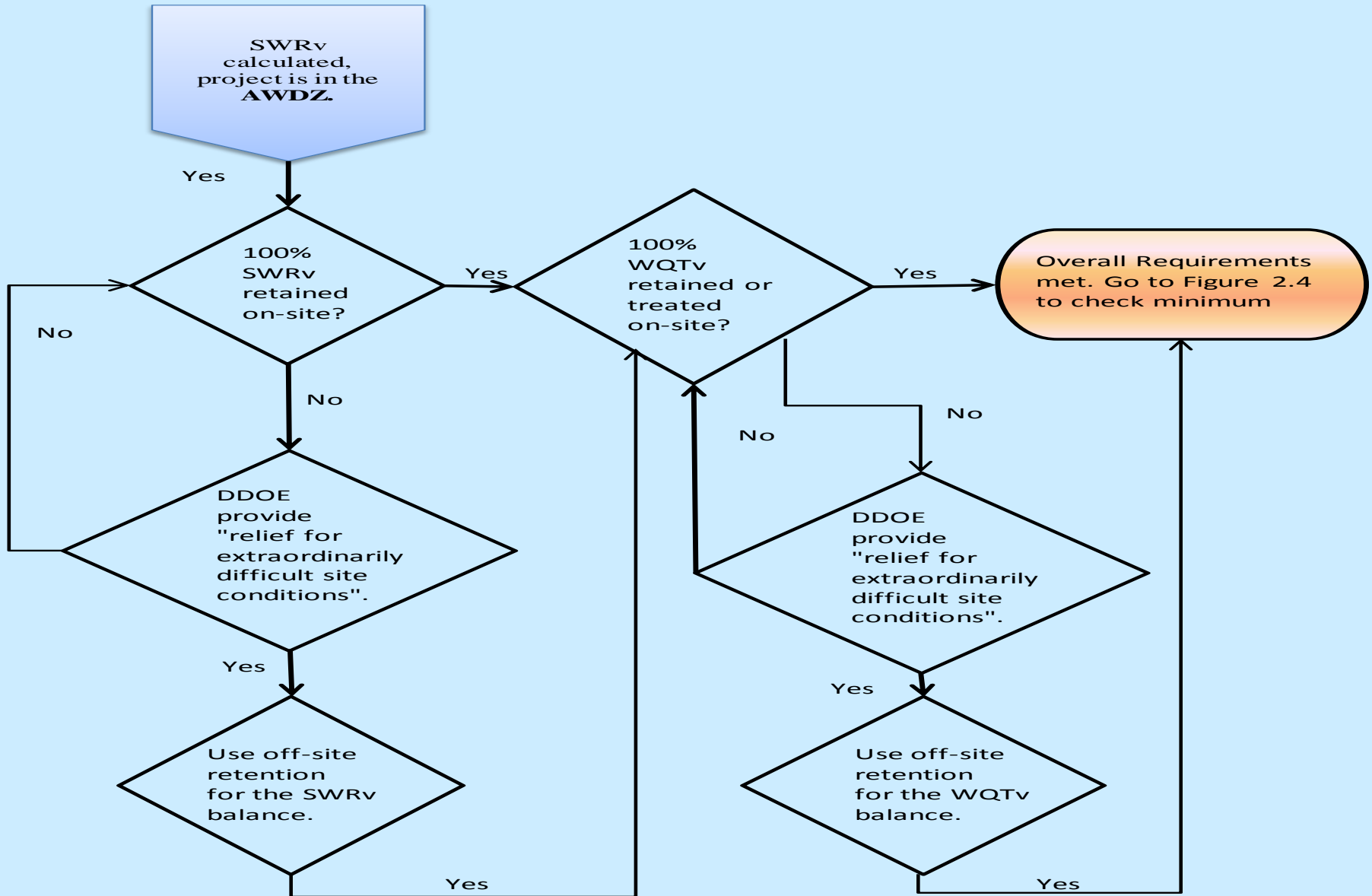No → **DDOE provide "relief for extraordinarily difficult site conditions".**

Yes

Figure 2.5: AWDZ Requirements

Figure 2.6: Minimum Requirements