



Appendix E-9 – Select GSI Projects

I-1 – Braddock Borough Community Plaza GSI Rendering and Layout

I-2 – Homestead Borough Frick Park GSI Rendering and Layout

I-3 – Etna Borough Bridge Street GSI Rendering and Layout

I-4 – City of Pittsburgh McKinley Park GSI Rendering and Layout

I-5 – City of Pittsburgh Morningside Neighborhood Vetter Street GSI
Rendering and Layout

I-6 – East Pittsburgh Grandview Avenue Park GSI Layout

I-7 – ALCOSAN Access Shaft M-30 GSI Layout

I-8 – Stowe Township Fleming Avenue GSI Layout

I-9 – Allegheny Commons GSI Rendering

I-10 – Wilmerding Airbrake Avenue GSI Layout



Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-1

Braddock Plaza GSI Rendering and Layout

BRADDOCK BOROUGH

BRADDOCK PLAZA

STORMWATER INFILTRATION DEMONSTRATION







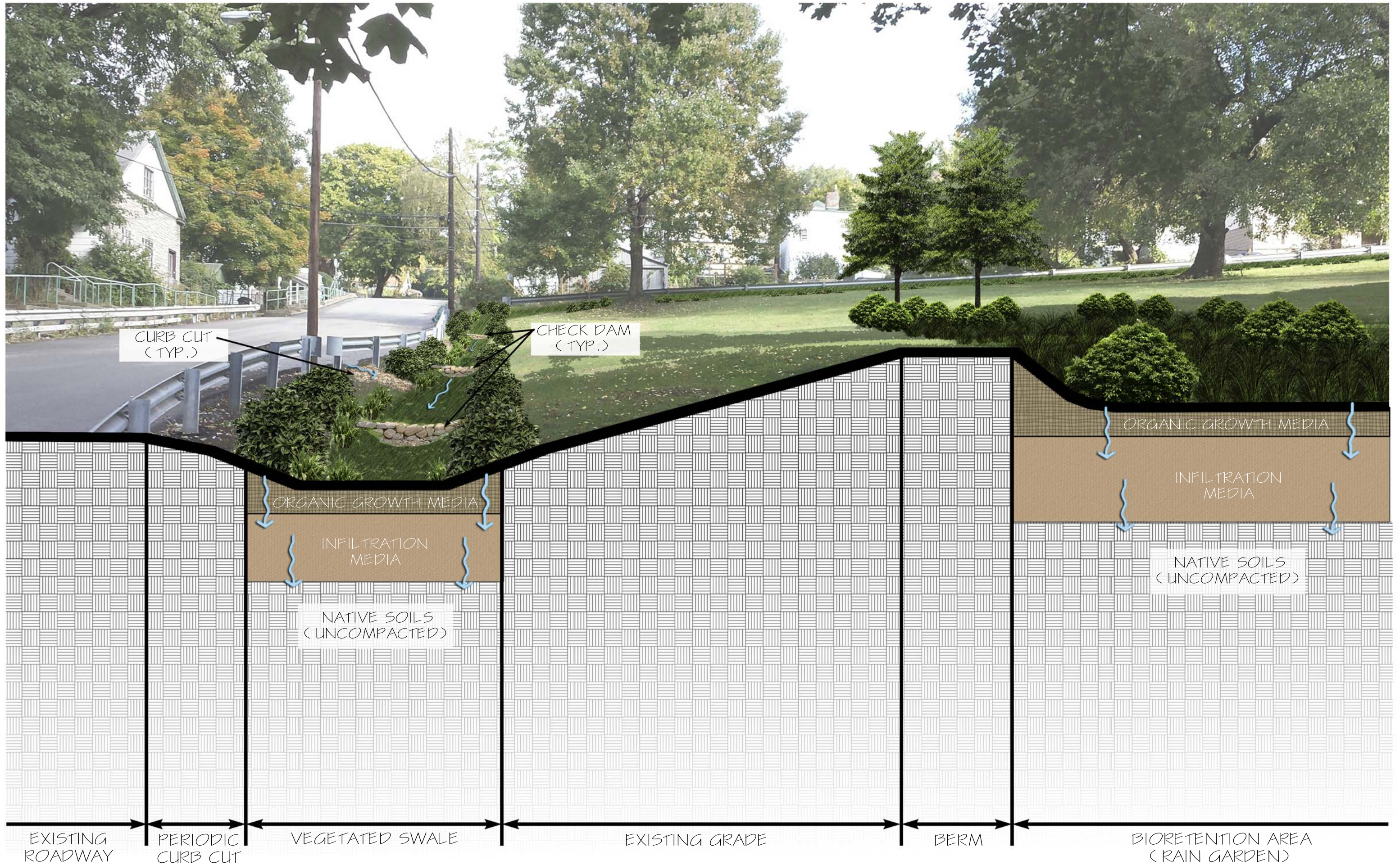
Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-2

Homestead/Frick Park GSI Rendering and Layout







Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-3

Etna Borough GSI Rendering and Layout

ETNA BOROUGH

BRIDGE STREET STORMWATER INFILTRATION DEMONSTRATION



EXISTING INLET

EXISTING "ETNA"
ENTRY SIGN
RAIN GARDEN
THROUGH SIDEWALK
CHANNEL DRAIN

ONSTREET
INFILTRATION
TRENCH (TYP.)

MODIFIED INLET

UNDERGROUND
INFILTRATION BED
UNDER AGGREGATE
PARKING LOT

Strawberry Alley



FREEPORT ST

BOROUGH OF ETNA
EST. 1866

BRIDGE ST

Borough of Etna EMS
277 Pop Beach
November 22nd
For Fishers, CA
612.792.8826

Unity in the Community / Etna Ballfield
* Spring and Picnic
Friday Oct 3rd @ 7 PM
* Free Picnic
Saturday Oct 4th 1-5 PM

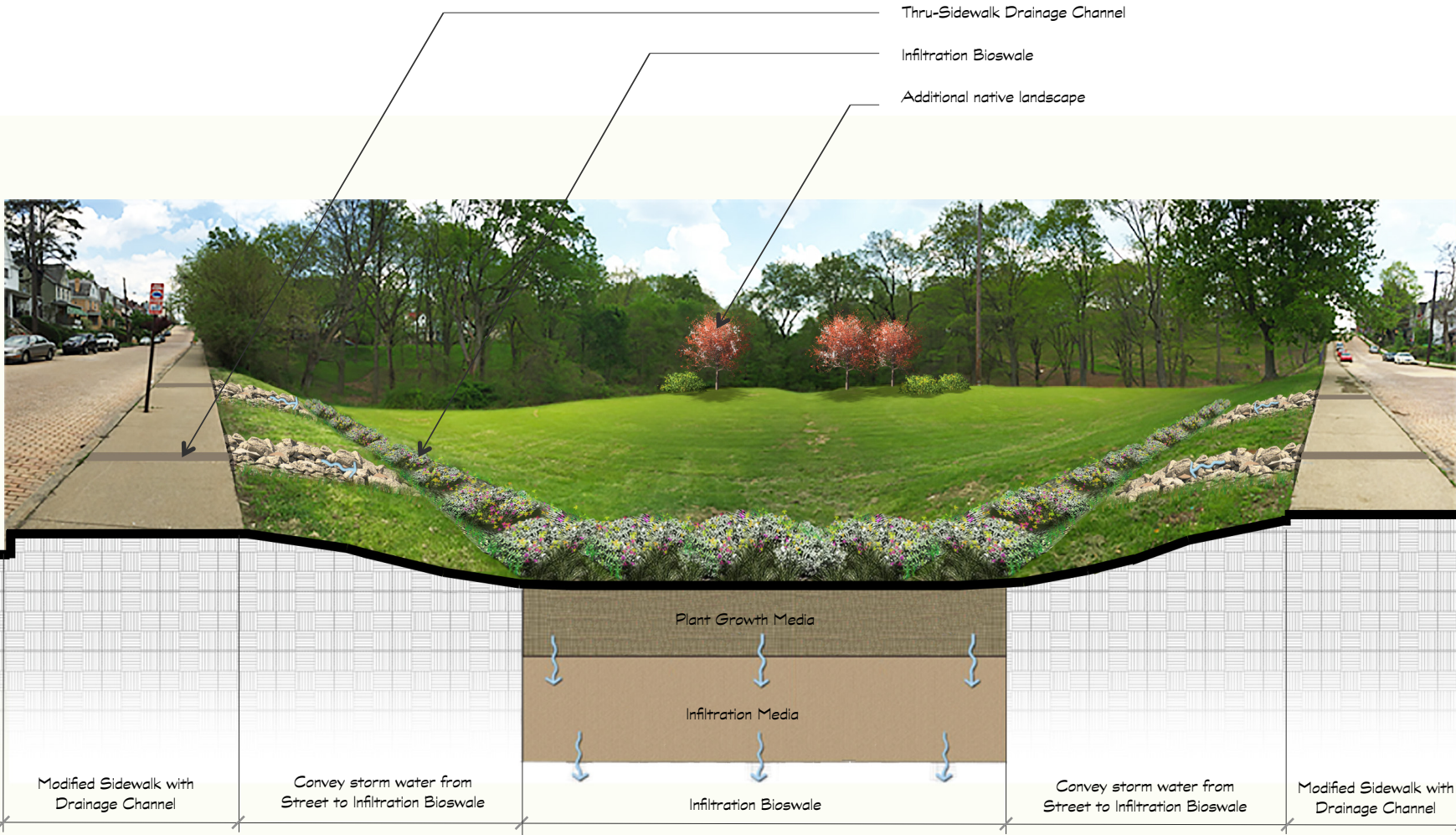


Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-4

McKinley Park GSI Rendering and Layout



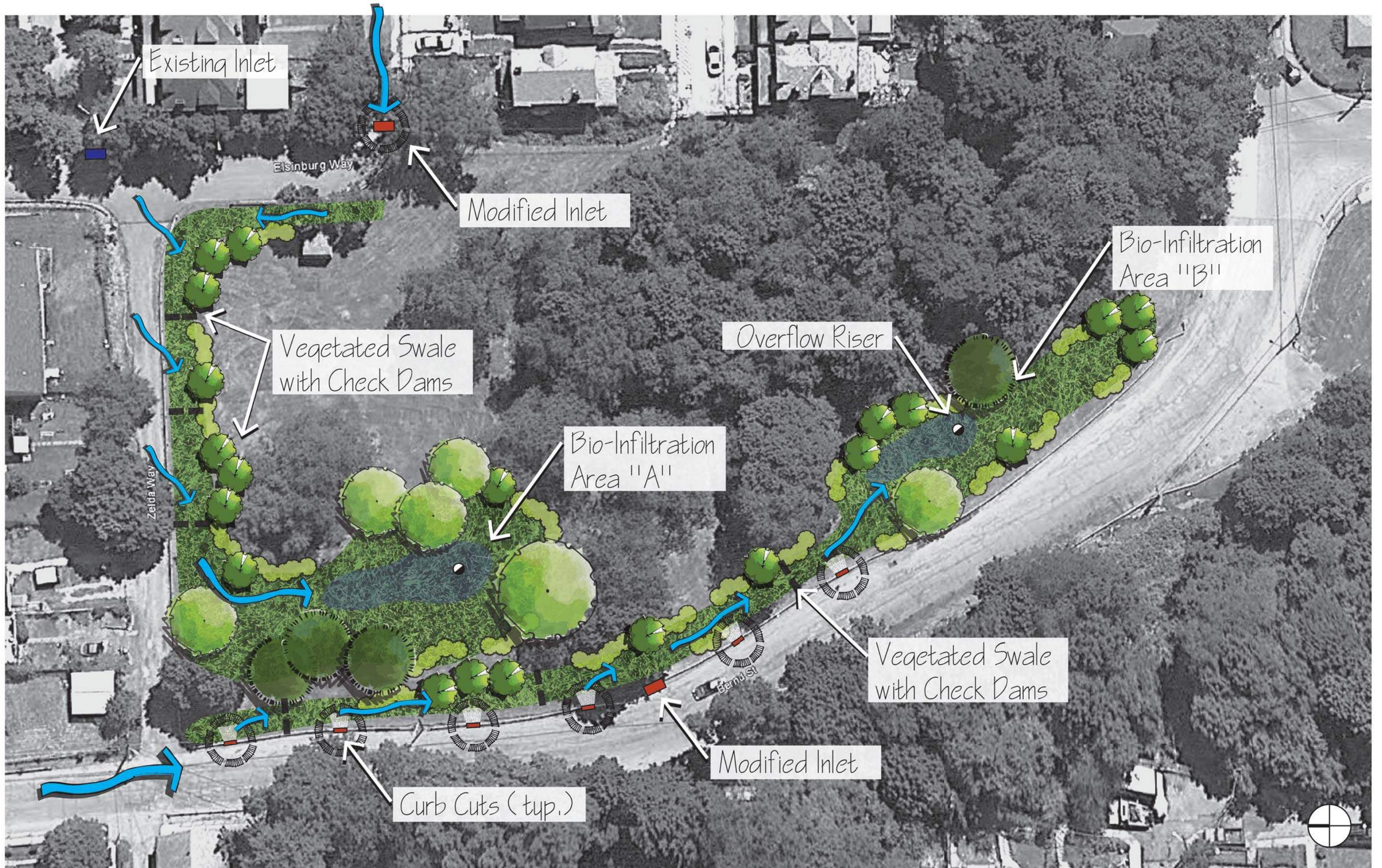
Existing Site Condition

ALCOSAN SITE 83

Green Infrastructure Project Site

Michigan Street along McKinley Park, City of Pittsburgh, Beltzhoover Neighborhood









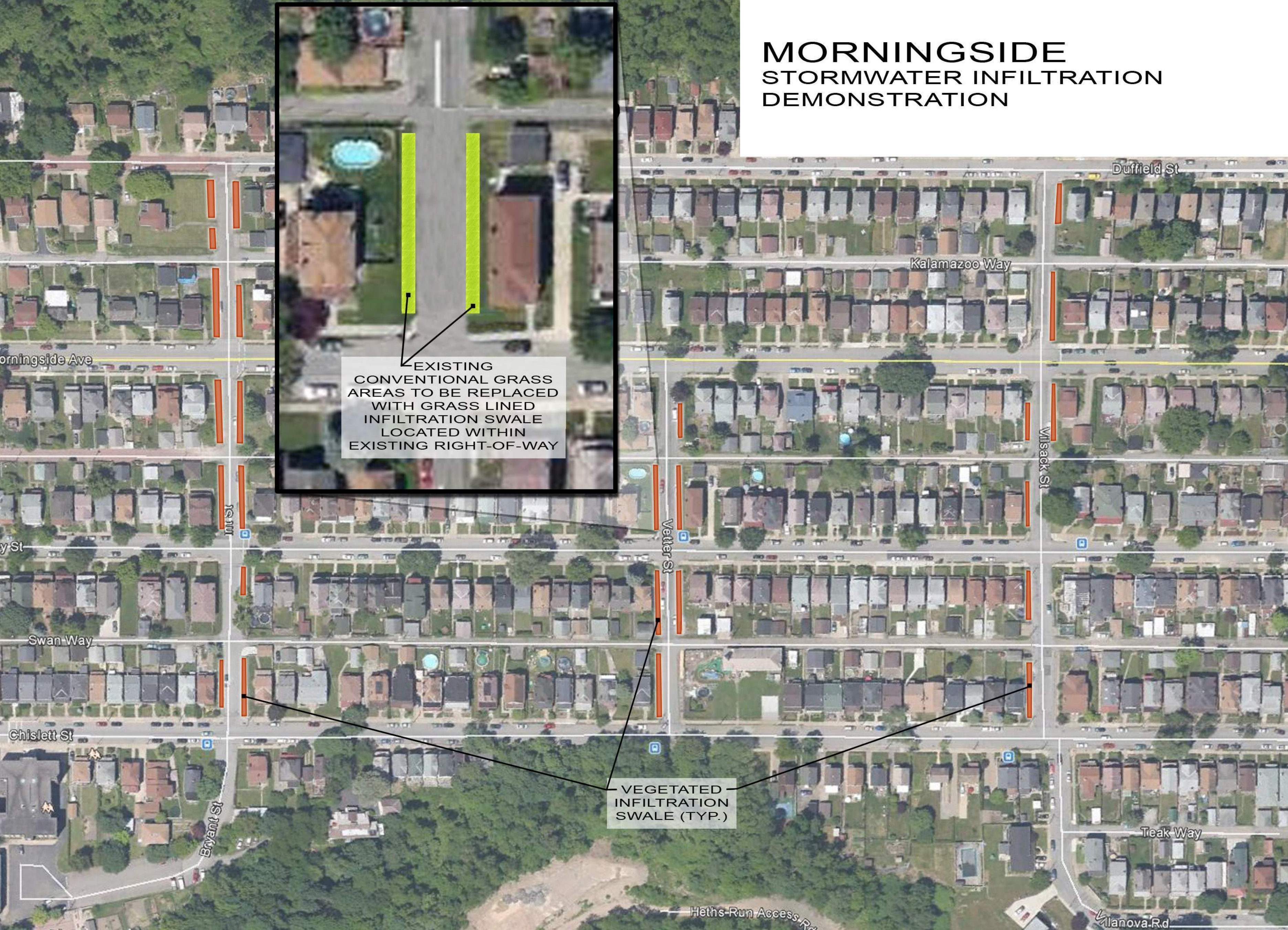
Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-5

Morningside/Chislett Street GSI Rendering and Layout

MORNINGSIDE STORMWATER INFILTRATION DEMONSTRATION



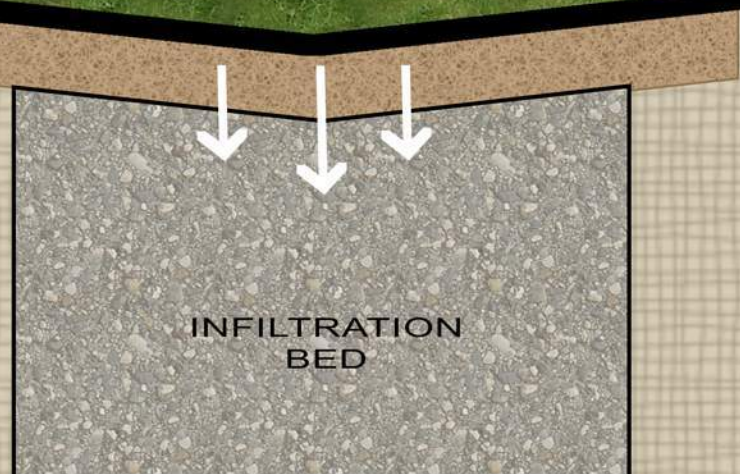
EXISTING
CONVENTIONAL GRASS
AREAS TO BE REPLACED
WITH GRASS LINED
INFILTRATION SWALE
LOCATED WITHIN
EXISTING RIGHT-OF-WAY

VEGETATED
INFILTRATION
SWALE (TYP.)



VEGETATED SWALE

INFILTRATION SOIL MEDIA



INFILTRATION BED

UNCOMPACTED NATIVE SOILS

MORNINGSIDE NEIGHBORHOOD
VETTER STREET STORMWATER INFILTRATION DEMONSTRATION

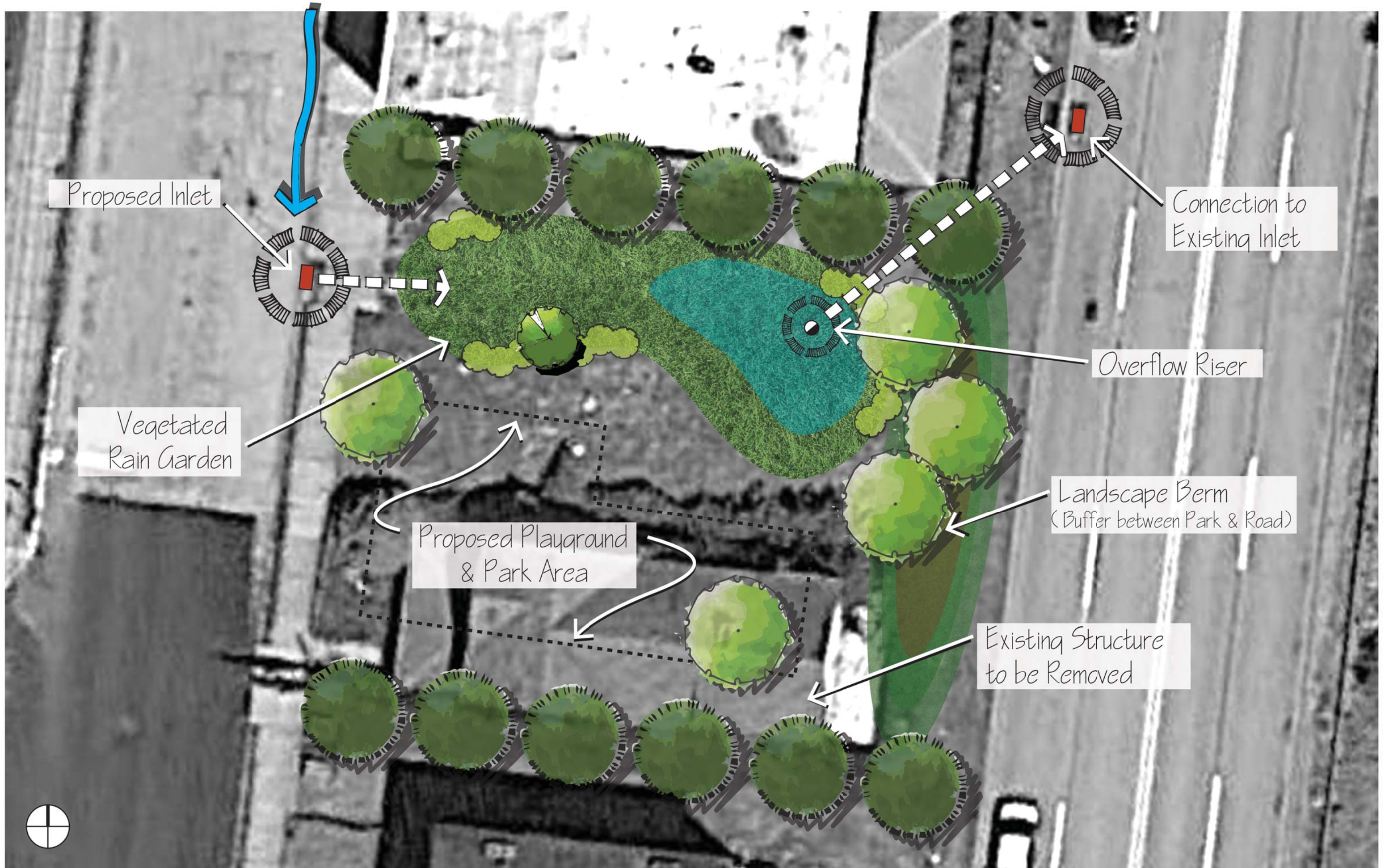


Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-6

East Pittsburgh Grandview Avenue Park GSI Layout



Proposed Inlet

Connection to Existing Inlet

Overflow Riser

Vegetated Rain Garden

Landscape Berm (Buffer between Park & Road)

Proposed Playground & Park Area

Existing Structure to be Removed





Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-7

ALCOSAN Access Shaft M-30 GSI Layout





Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-8

Stowe Township Fleming Avenue GSI Layout





Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-9

Allegheny Commons GSI Rendering

ALCOSAN SITE 32 Green Infrastructure Project Site

North Avenue along
Allegheny Commons,
City of Pittsburgh,
Allegheny City Central
Neighborhood

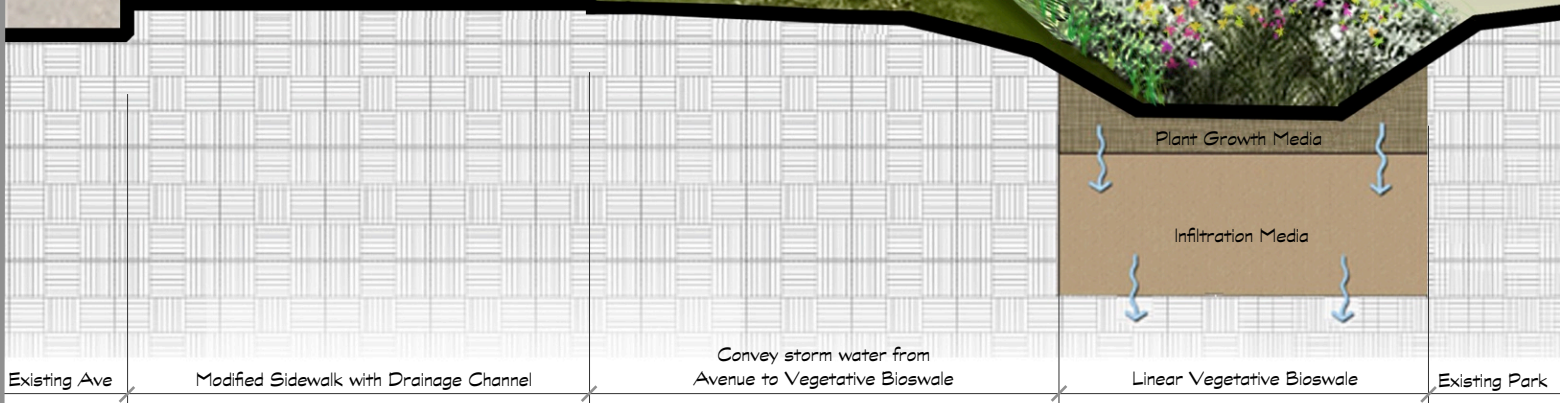


Potential for greening the bus stop:
Green Roof

Interpretative Green Infrastructure Signage

Linear Vegetative Bioswale

Thru-Sidewalk Drainage Channel



Existing Site Condition






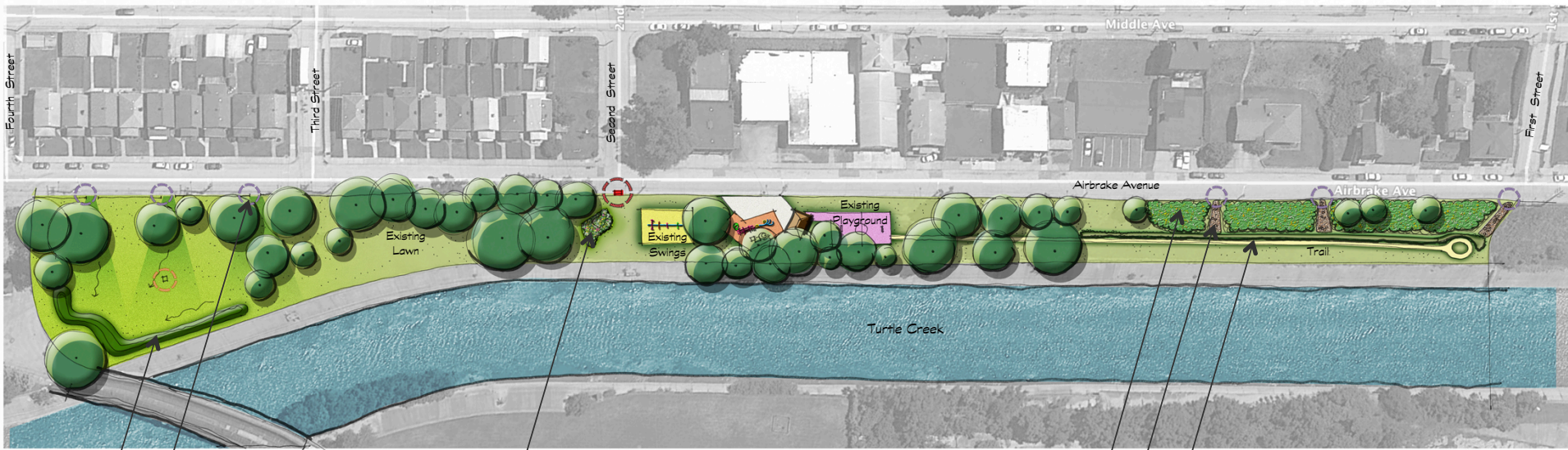
Starting at the Source:
How Our Region Can Work Together for Clean Water

Appendix I - Select GSI Projects

Appendix E-9-10

Wilmerding Airbrake Avenue GSI Layout

-  Thru - Curb Drainage Channel
-  Convey storm water from inlet into Rain Garden
-  Modify grade and raise inlet elevation. Gently grade lawn area to create positive drainage to new infiltration basin. Modified inlet as an overflow riser. Preserve existing canopy, shade and evergreen trees.



Curb cut to convey storm water to infiltration basin

Rain Garden

Infiltration Basin

Re-vegetate slope with native plants to establish slope groundcover

Convey storm water from Avenue to Linear Infiltration Bioswale

Linear Infiltration Bioswale located along new park trail



Existing Site - Google Earth

ALCOSAN

SITE 53

Green Infrastructure Project Site

Airbrake Avenue Walking Trail, Wilmerding Borough

