



Hazen and Sawyer
One South Broad Street, Suite 900
Philadelphia, PA 19107

Submitted Electronically

April 17, 2024

Philadelphia Art Commission
1515 Arch Street, 13th Floor
Philadelphia PA 19102

**Re: Philadelphia Water Department
Proposed Sidestream Deammonification Treatment Facility at the
Southwest Water Pollution Control Plant / Biosolids Recycling Center**

Dear Commissioners:

On behalf of the Philadelphia Water Department (PWD), Hazen and Sawyer (Hazen) is pleased to submit the attached application for a proposed sidestream deammonification treatment facility at the Southwest Water Pollution Control Plant (SWWPCP) / Biosolids Recycling Center (BRC) in South Philadelphia.

Please find attached the following information for your review:

- Site aerial
- Color photographs of the site
- Applicable drawings and renderings, including:
 - Site plan
 - Elevations views of the proposed facility
 - Color rendering (*will be submitted electronically by/before April 24th*)
- Statement from PWD indicating that they will set aside 1% of the project budget for the Percent for Art Program.

Existing Condition of Property

The proposed address for the new facility is 7901 Penrose Ferry Avenue. The proposed facility will be located at the BRC / SWWPCP which is located in a remote industrial section of the City. As depicted on the provided aerial and photographs, the existing 3.5± acre site is an empty paved parking lot that is occasionally used by PWD/City of Philadelphia to store concrete barriers, fencing, etc. At one time the site was used by PWD to compost dewatered sludge from the BRC, but that practice was discontinued in 2007.

Purpose of Proposed Work

PWD is proposing to construct a sidestream deammonification treatment facility that will intercept and treat the ammonia-rich centrate which is generated by the existing sludge dewatering activities at the BRC. The proposed sidestream treatment facility will reduce the SWWPCP's effluent ammonia discharge into the Delaware River, which experiences issues with ammonia toxicity and low dissolved oxygen levels during the summer/recreational season.

The proposed 32,000± square foot facility will consist of the following components:

1. Equalization Tanks: two (2) at-grade concrete tanks operating in parallel prior to the sidestream bioreactors for flow equalization of the centrate from the BRC's dewatering centrifuges.
2. Deammonification Bioreactors: two (2) at-grade concrete bioreactor tanks operating in parallel will treat the ammonia-rich centrate prior to the conveyance to the head of the SWWPCP facility.
3. Ancillary Building: will include equipment, electrical room, control room, process analysis room, restroom, storage, and conference room.

Project Budget

The Engineer's Estimate for the project = \$74.2 million (will be bid in Summer 2024). The City is currently seeking funding from the Pennsylvania Infrastructure Investment Authority (PENNVEST).

Contact Information

- Applicant
Philadelphia Water Department
1101 Market Street
Philadelphia, PA 19107
Attention: Nicholas Perese, Project Manager
215.685.6346
Nicholas.Perese@Phila.gov
- Engineering/Architectural Consultant
Hazen and Sawyer
1 South Broad Street, Suite 900
Philadelphia, PA 19107
Attention: Mark Bottin PE, Associate Vice President
215-592-4402
mbottin@hazenandsawyer.com

We look forward to your determination regarding the visual impact of the project. Please do not hesitate to contact Nicholas Perese or myself if you have any questions or require additional information. We thank you in advance for your review and your consideration of this application.

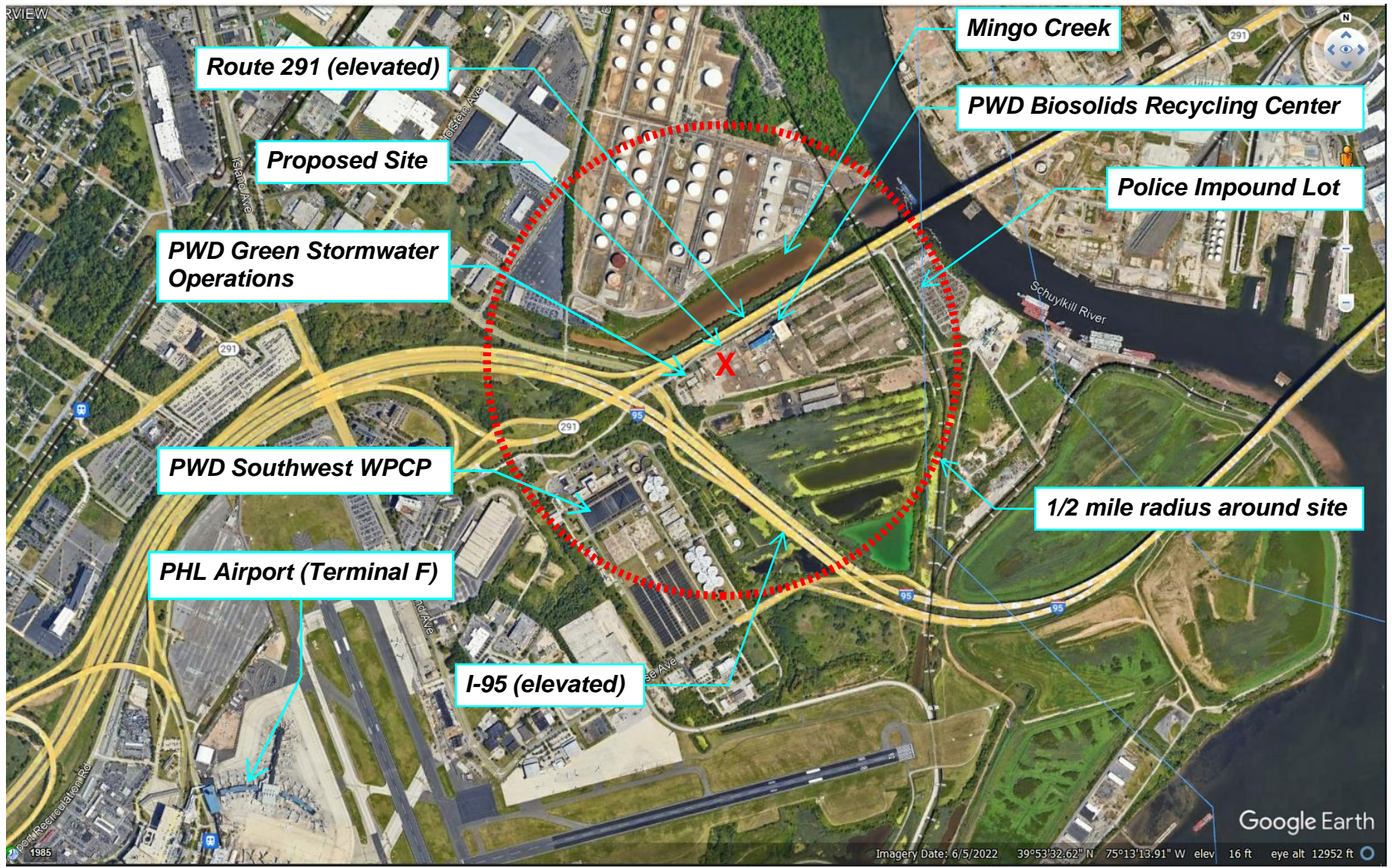
Very truly yours,



Mark Bottin, PE
Associate Vice President

Enclosures

c: PWD: David Weld, John Hynes, Nicholas Perese



Aerial
Proposed PWD Sidestream Deammonification Facility
7901 Pennrose Ferry Road



Photo #1: Entrance into site – looking east (to Biosolids Recycling Center)



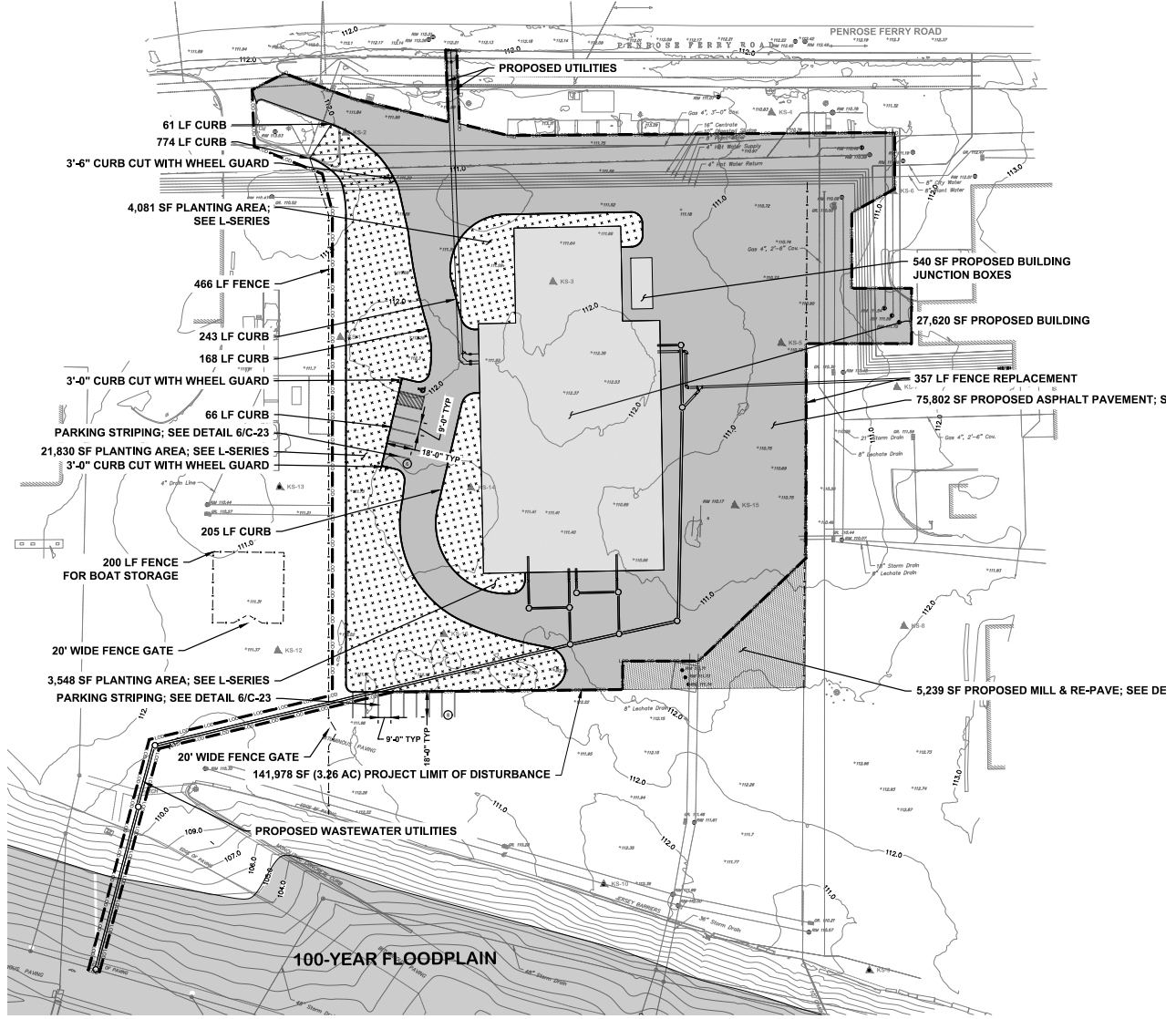
Photo #2: At site – looking west (to PWD Green Stormwater Operations)



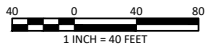
Photo #3: At site – looking north (towards Pennrose Avenue/Route 291)



Photo #4: At site – looking south (I-95 billboards in the background)



- LEGEND**
- PROJECT BOUNDARY/LIMIT OF DISTURBANCE
 - - - FENCE
 - CONCRETE CURB
 - ▒ ASPHALT PAVEMENT
 - ▒ MILL AND RE-PAVE
 - ▒ PLANTING AREA
 - ▒ PROPOSED BUILDING



File: J:\2023\10\101-HAZEN AND SAWYER PHOENIX FACILITY\CAD\DWG\ASSET FILES\23-101 - SITE PLAN SWPHOENIX.MXD Date: 1/22/2024 12:22 PM
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meliora

259 Morgan Street,
Phoenixville PA 19460

PROJECT ENGINEER:	M. HENDERSON
DESIGNED BY:	T. DOUGHERTY
DRAWN BY:	M. TRAHEY
CHECKED BY:	M. HENDERSON
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

Hazen

HAZEN AND SAWYER
ONE SOUTH BROAD STREET, SUITE 900
PHILADELPHIA, PA 19107

CITY OF PHILADELPHIA,
PENNSYLVANIA

SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT

SITE PLAN

DATE:	JANUARY 2024
HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	

**Statement on Art Program
from Philadelphia Water Department**

The Philadelphia Water Department (PWD) will comply with the 1% contribution to the Percent for Art Program.

The Engineer's Estimate for the project is \$74.2 million. Therefore, the anticipated contribution to the Percent for Art Program would be approximately \$742,000. The actual construction cost will be determined when the project is placed out to bid in summer 2024.

PWD requests that the public art funds be used in conjunction with a PWD project and not put into the general fund.

Hazen

May 2024

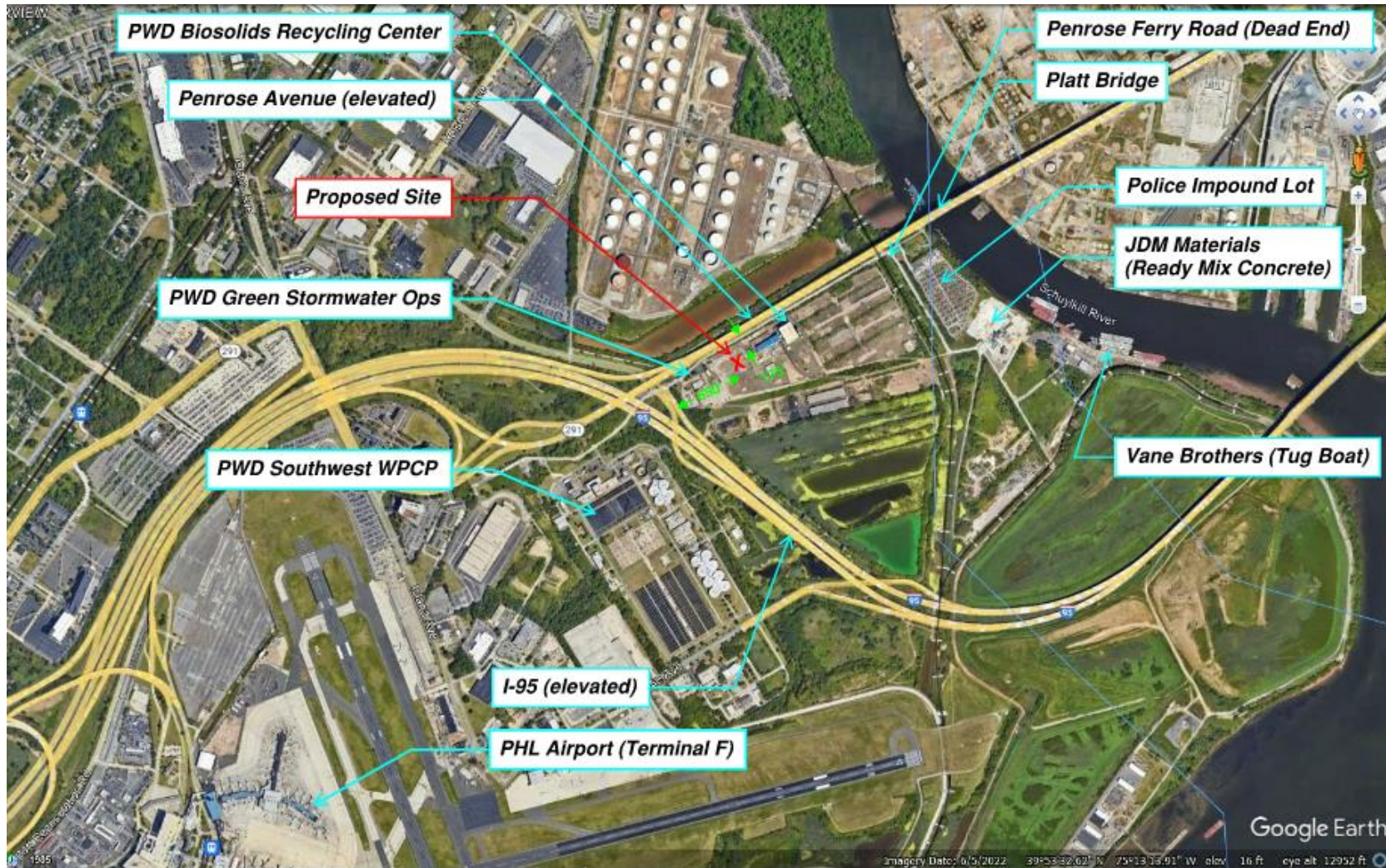


PHILADELPHIA
WATER
— DEPARTMENT —

Sidestream Treatment Facility at the SWWPCP/BRC

Location Plan

7901 Penrose Ferry Road



Existing Site Photos



Photo #1: Entrance into site – looking east
(to Biosolids Recycling Center)



Photo #2: At site – looking west
(to PWD Green Stormwater Operations)

Existing Site Photos



Photo #3: At site – looking north
(towards Penrose Ferry Avenue / Route 291)



Photo #4: At site – looking south
(I-95 billboards in the background)

Precedents



PWD Project: Pump Station, Manayunk, Pennsylvania

Precedents



NYC DEP Project: AWT-02, Wards Island, New York

Site Plan



PLATT BRIDGE (PENROSE AVENUE)

PENROSE FERRY ROAD

DEWATERING BUILDING

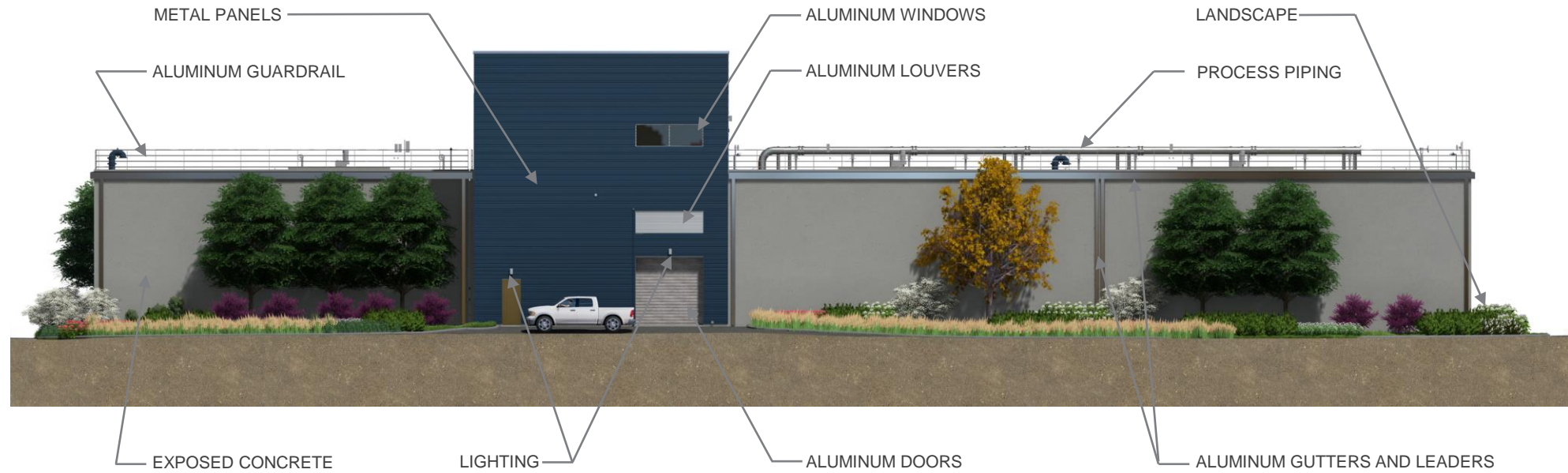
BIOSOLIDS RECYCLING

CANOPY

GREEN STORMWATER OPERATIONS BUILDING

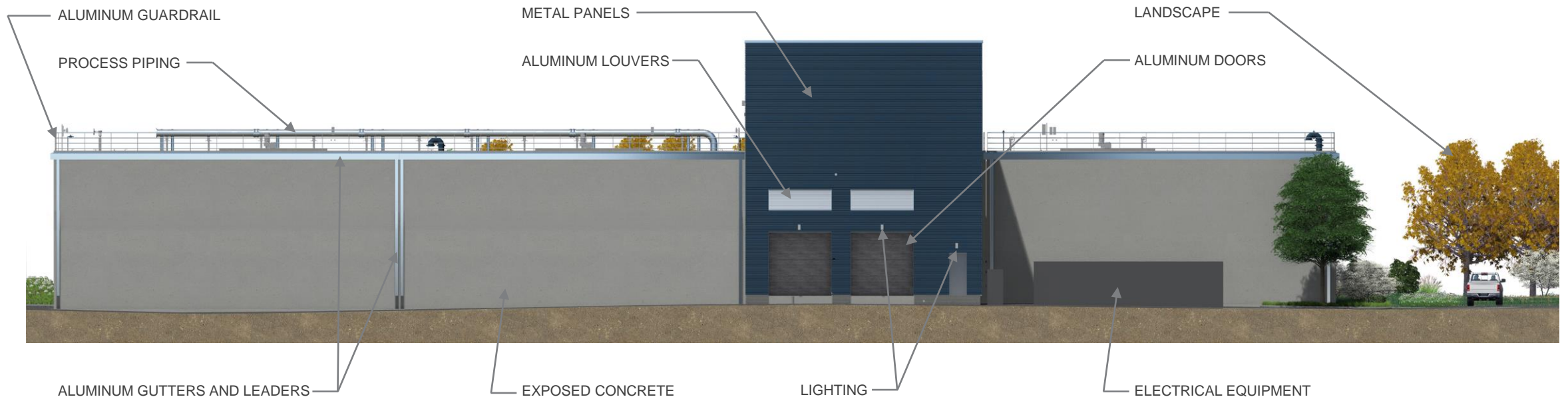
Sidestream Treatment Facility

South Elevation



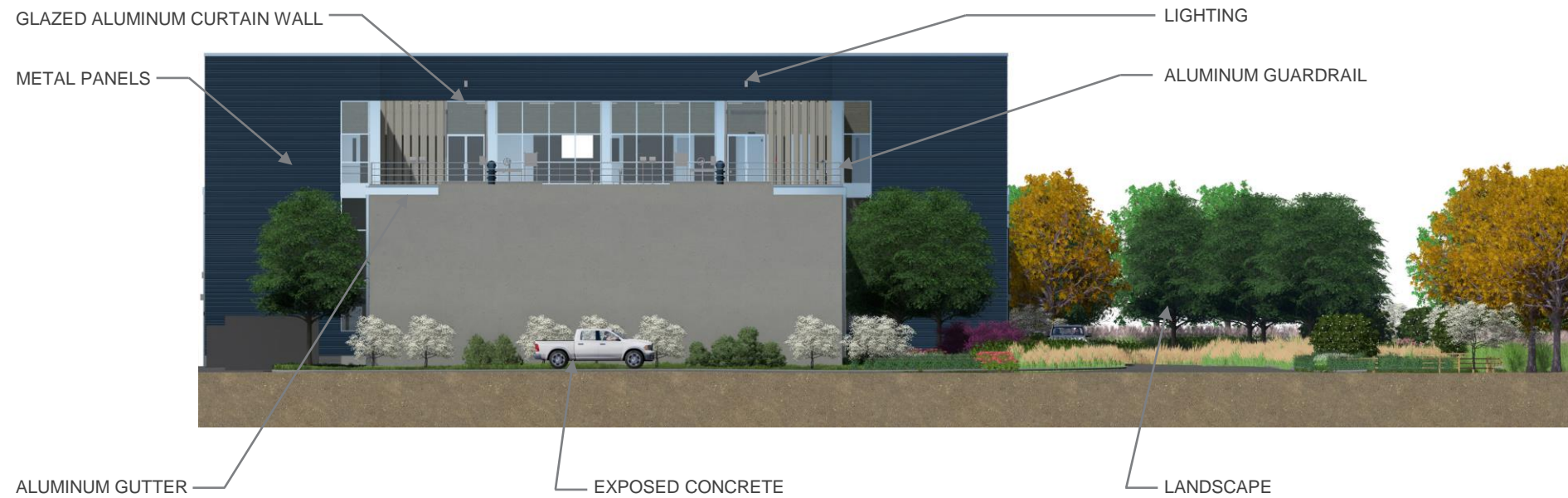
Sidestream Treatment Facility

North Elevation



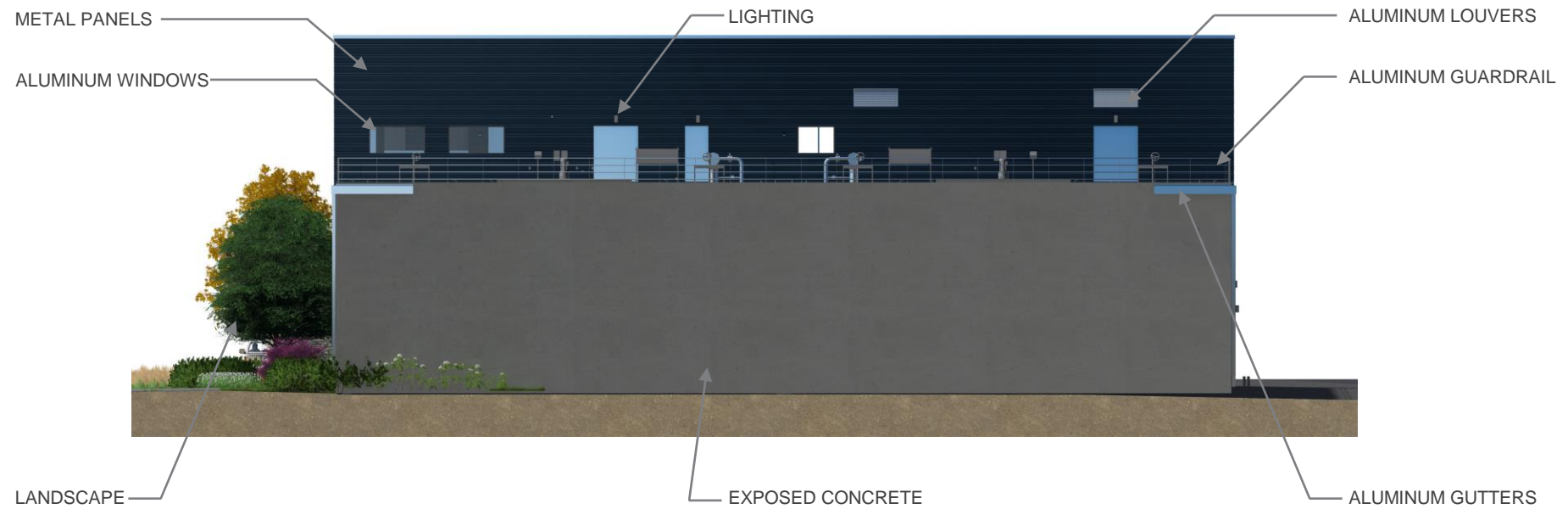
Sidestream Treatment Facility

West Elevation



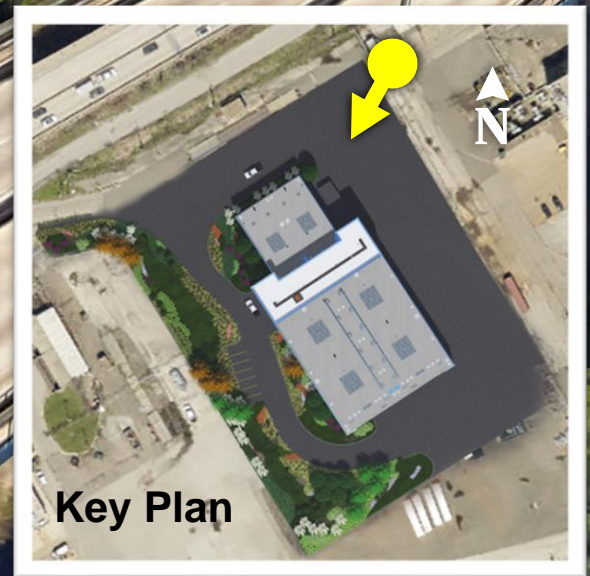
Sidestream Treatment Facility

East Elevation



Aerial View from Northwest

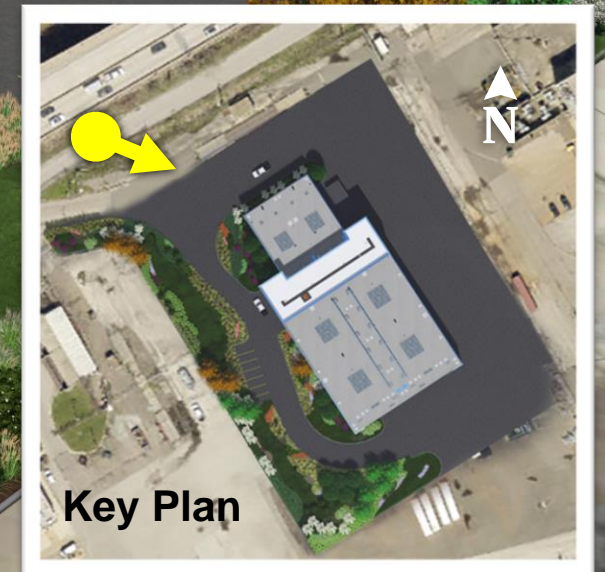
Contextual Massing Responds to Geometrical Relationship of Existing Structures



Key Plan

Aerial View from Southwest

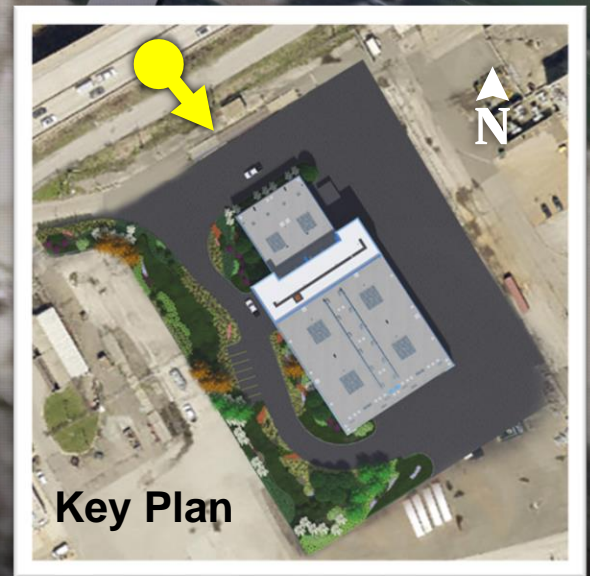
Scale and Proportion Seamlessly Integrates into the Existing Urban Fabric



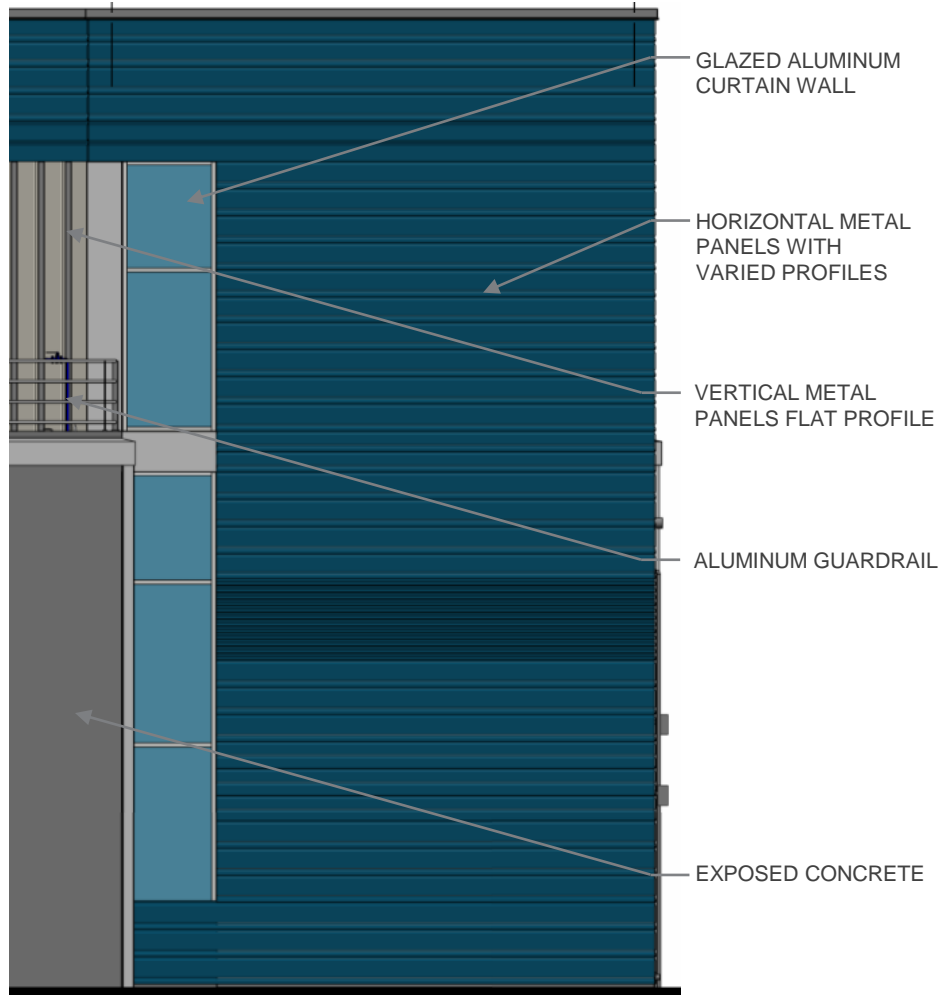


Aerial View from West

Materials Resonate with Existing Context



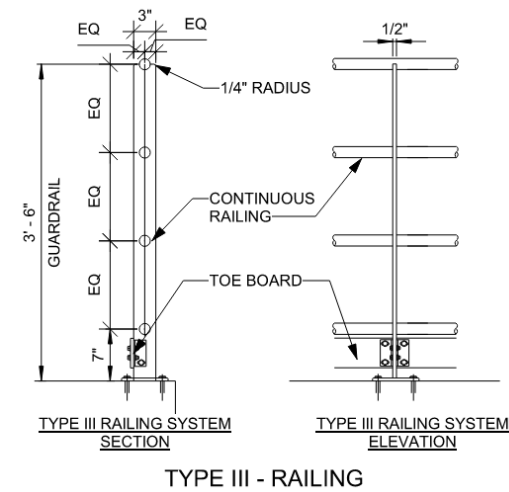
Materials Palette



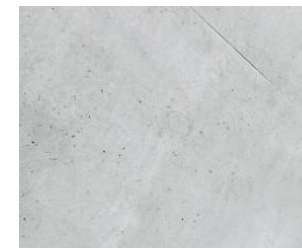
Partial Elevation



Panel Profiles



Exterior Lighting



Exposed Concrete



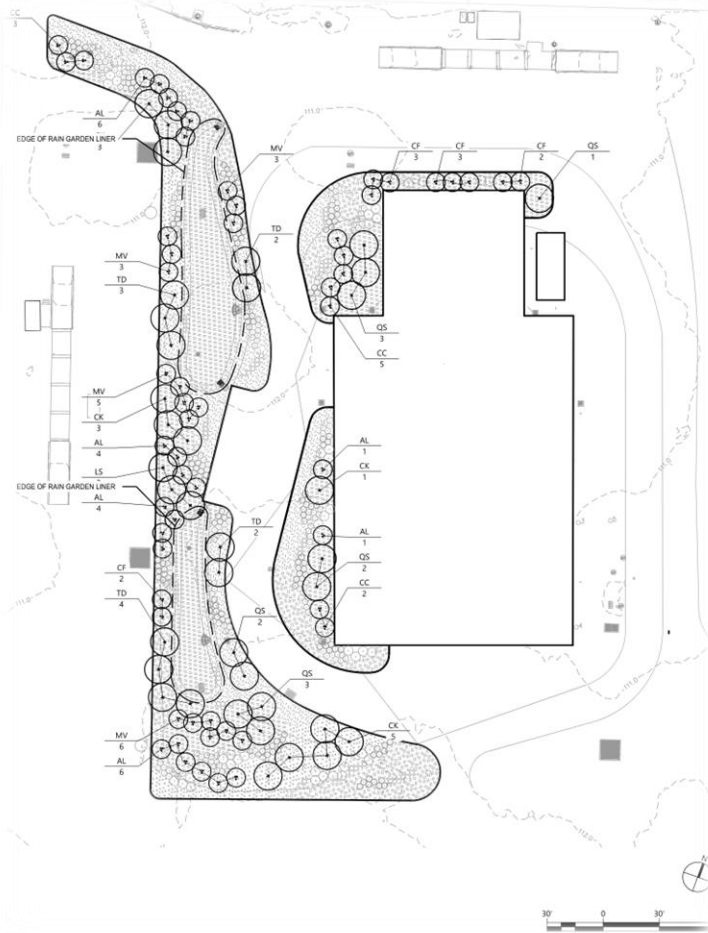
Horizontal Metal Panels



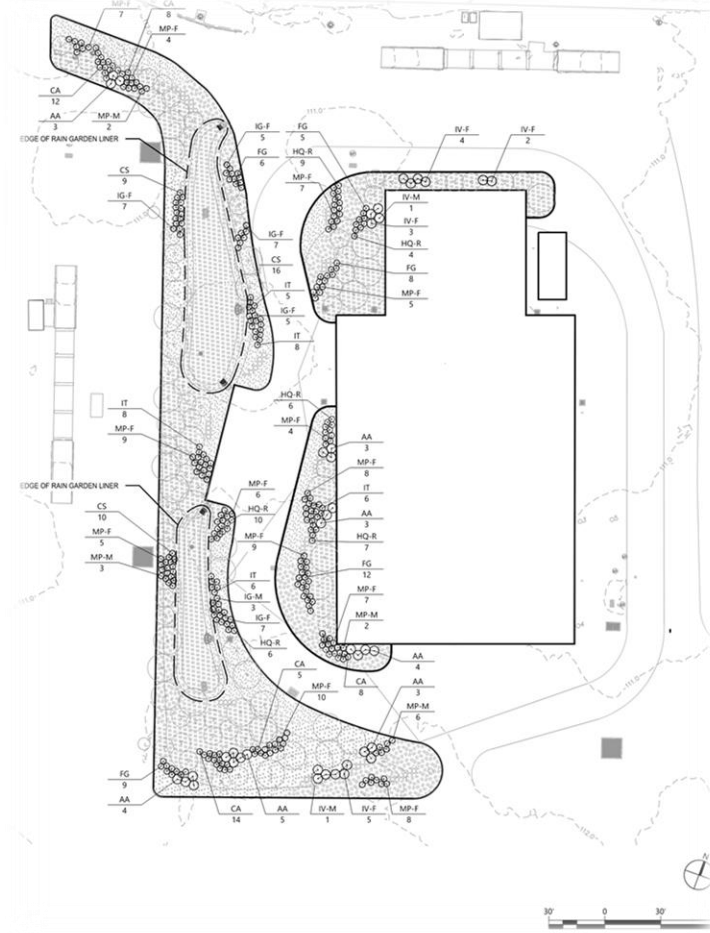
Curtain Wall, Doors, Windows, Guardrail, Gutters, Leaders

Finishes

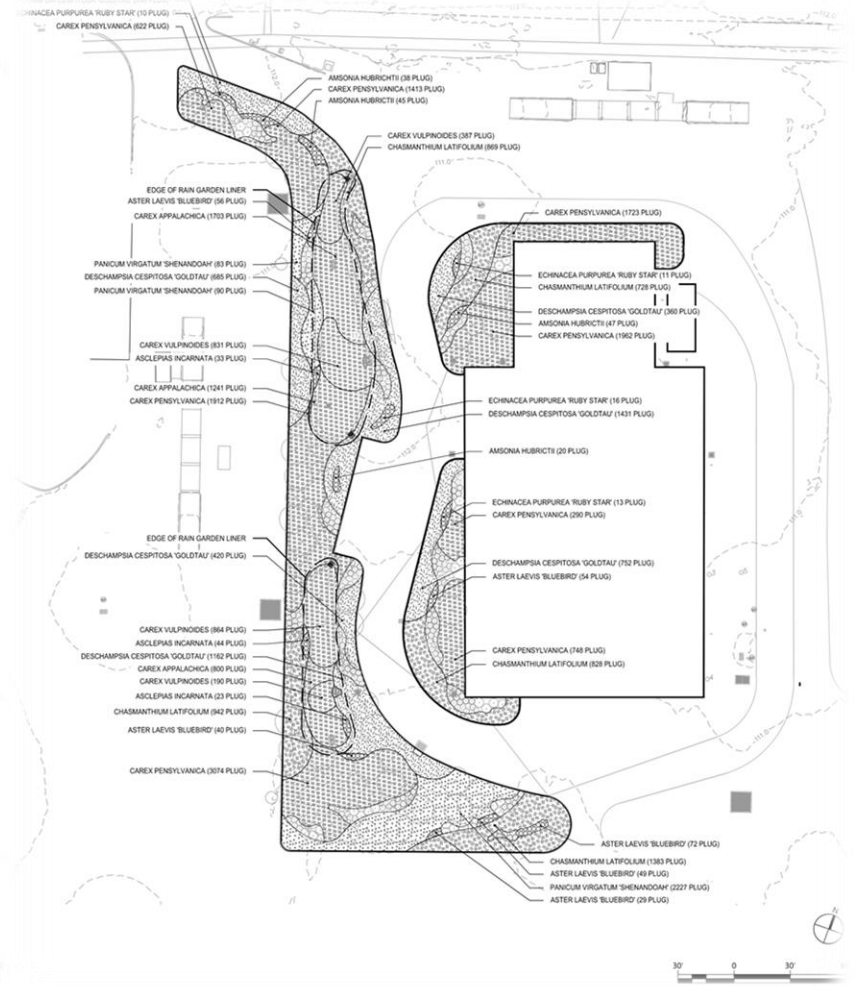
Landscape Plans



Tree Planting Plan



Shrub Planting Plan



Grass and Perennial Planting Plan

Landscape



Cladrastis kentukea
Yellowwood

☀️ ☀️ 50/55' U



Quercus shumardii
Shumard Oak

☀️ ☀️ 60/40' LU



Taxodium distichum
Bald Cypress

☀️ ☀️ 70/45' LU



Amelanchier laevis
Allegheny Serviceberry

☀️ ☀️ 15/35' LU



Magnolia virginiana
'Moonglow'
Sweetbay Magnolia

Upright, reliably evergreen, slightly larger flowers

☀️ ☀️ 35/20' LU



Fothergilla gardenii
Dwarf Fothergilla

☀️ ☀️ 3/4' U



Myrica pensylvanica
'Morton'
Bayberry

Compact, female clone (needs male for good fruit)

☀️ ☀️ 5/7' E LU



Itea virginica
'Merlot'
Sweetspire

Dwarf cultivar, deep wine-red in fall

☀️ ☀️ 3.5/3' E LU



Ilex glabra
'Compacta'
Inkberry

Mounded

☀️ ☀️ 4/6' E LU



Aronia melanocarpa
'Morton' IROQUOIS BEAUTY
Chokeberry

Compact

☀️ ☀️ 3/5' LU



Amsonia hubrichtii
Threadleaf Bluestar

☀️ ☀️ 3/3' LU



Asclepias incarnata
Swamp Milkweed

☀️ 4/3' L



Echinacea purpurea
'Ruby Star'
Purple Coneflower

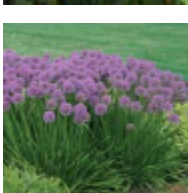
Large flowers, sturdy

☀️ 5/2' U



Narcissus minor
Trumpet Daffodil

☀️ ☀️ .5/1' U



Allium
'Millenium'
Prairie Onion

Purple flowers

☀️ 2/2' U



Carex pensylvanica
Pennsylvania Sedge

☀️ ☀️ 1/1' U



Carex vulpinoidea
Fox Sedge

☀️ ☀️ 3/2' E L



Chasmanthium latifolium
Northern Sea Oats

☀️ ☀️ 3/3' L



Panicum virgatum
'Shenandoah'
Switch Grass

Compact upright habit, drought tolerant

☀️ ☀️ 4/4' LU







Deschampsia cespitosa
'Pixie Fountain'
Tufted Hair Grass

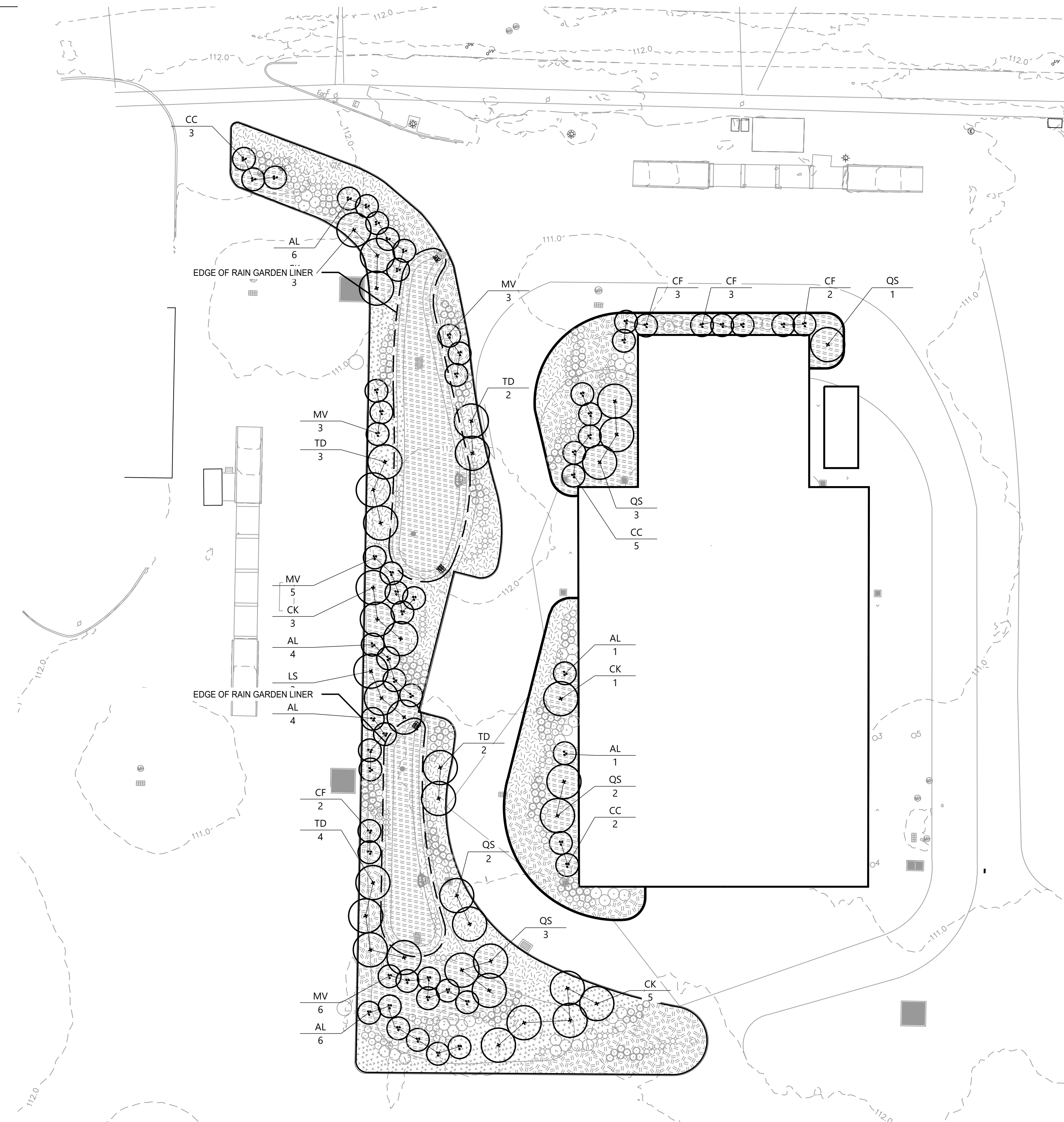
Dwarf, silvery blooms

☀️ ☀️ 2/1.5' LU

Questions?

PLANTING LEGEND

-  LARGE DECIDUOUS TREE
-  SMALL DECIDUOUS TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB



PWD - SIDESTREAM PLANT SCHEDULE								
SYM.	QTY.	COMMON NAME	SCIENTIFIC NAME	CULTVAR	SIZE	SPACING	TYPE	NOTES
CANOPY TREE								
CK	12	Yellowwood	<i>Cladrastis kentukea</i>	n/a	2 1/2" Caliper	As shown	B&B	Substitute with <i>Cladrastis kentukea</i> if planting in the Fall
LS	3	Sweetgum	<i>Liquidambar styraciflua</i>	n/a	2 1/2" Caliper	As shown	B&B	Substitute with <i>Carya ovata</i> if planting in the Fall
QS	11	Shumard Oak	<i>Quercus shumardii</i>	n/a	2 1/2" Caliper	As shown	B&B	Substitute with <i>Quercus shumardii</i> if planting in the Fall
TD	11	Bald Cypress	<i>Taxodium distichum</i>	n/a	2 1/2" Caliper	As shown	B&B	
UNDERSTORY TREE								
AL	22	Serviceberry	<i>Amelanchier laevis</i>	n/a	6-8' H	As shown	B&B	Multi-Stem
CC	10	Eastern Redbud	<i>Cercis canadensis</i>	n/a	6-8' H	As shown	B&B	Multi-Stem, Substitute with <i>Magnolia virginiana</i> 'Moonglow' if planting in the Fall
CF	10	Flowering Dogwood	<i>Cornus florida</i>	n/a	6-8' H	As shown	B&B	Substitute with <i>Amelanchier laevis</i> if planting in the Fall
MV	19	Moonglow Magnolia	<i>Magnolia virginiana</i>	'Moonglow'	6-8' H	As shown	B&B	Multi-Stem

ON-SITE TREE REQUIREMENTS COMPUTATIONS

LIMIT OF DISTURBANCE AREA (SF)	141,978
TOTAL BUILDING AREA (SF)	28,160
TOTAL PARKING LOT AREA INCLUDING DRIVE AISLE (SF)	2,823
TOTAL AREA FOR TREE REQUIREMENT (SF)	141,978 - (28,169 + 2,823) = 110,986
INTERIOR LANDSCAPING TREES REQUIRED (1 PER 1,600 SF)	110,986/1,600 = 70 TREES (WITH 2" CALIPER)
TOTAL CALIPER INCHES REQUIRED:	140
LANDSCAPING TREES PROVIDED (WITH 2 1/2" CALIPER):	98
TOTAL CALIPER INCHES PROVIDED:	245

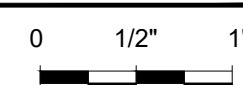
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3868 Terrace Street
Philadelphia, PA 19128

PROJECT ENGINEER:	M. BOTTIN
DESIGNED BY:	E. SYLVESTER
DRAWN BY:	E. SYLVESTER
CHECKED BY:	T. DOCKWILLER

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE



REV	ISSUED FOR	DATE	BY

Hazen

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CITY OF PHILADELPHIA,
PENNSYLVANIA

SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT

LANDSCAPING
TREE PLANTING PLAN

DATE: JANUARY 2024





HAZEN NO.: 90000-020

WORK NO.: 73067

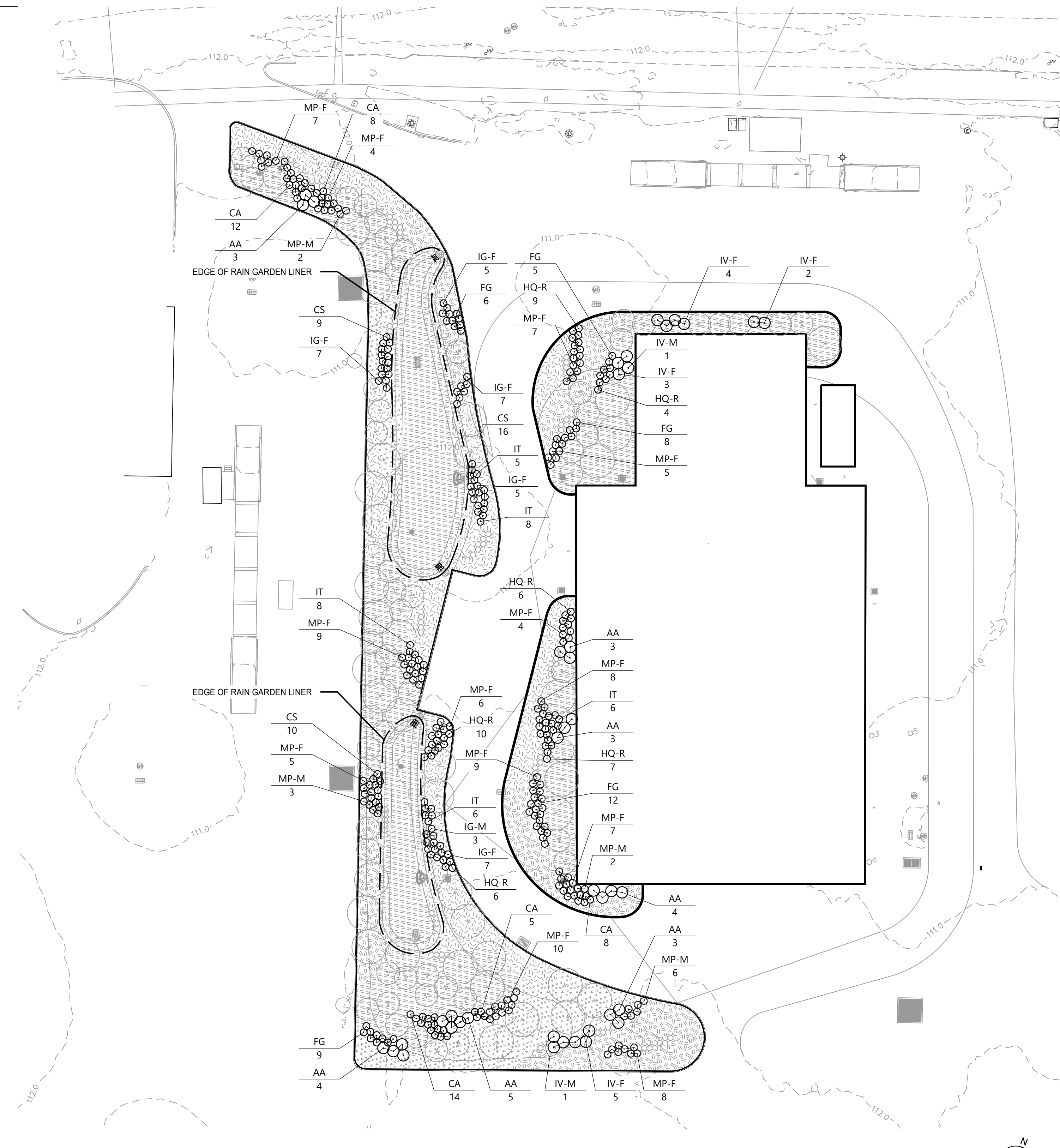
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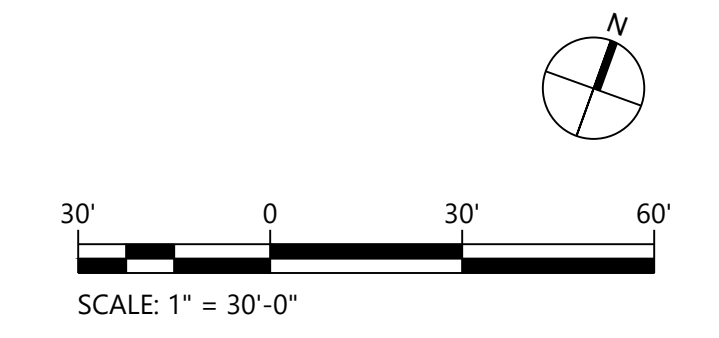
PLANTING LEGEND

-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  LARGE DECIDUOUS TREE
-  SMALL DECIDUOUS TREE

PWD - SIDESTREAM PLANT SCHEDULE								
SYM.	QTY.	COMMON NAME	SCIENTIFIC NAME	CULTIVAR	SIZE	SPACING	TYPE	NOTES
<i>SHRUBS</i>								
AA	25	Red Chokecherry	<i>Aronia melanocarpa</i>	n/a	#3 Container	As shown	CONT.	
CA	47	Sweet Pepper Bush	<i>Clethra alnifolia</i>	'Ruby Spice'	#3 Container	As shown	CONT.	
CS	19	Red Twig Dogwood	<i>Cornus sericea</i>	'Kelsey'	#3 Container	As shown	CONT.	
FG	40	Dwarf Fothergilla	<i>Fothergilla gardenii</i>	n/a	#3 Container	As shown	CONT.	
HQ-R	42	Dwarf Oakleaf Hydrangea	<i>Hydrangea quercifolia</i>	'Ruby Slippers'	#3 Container	As shown	CONT.	
IG-F	31	Irkberry	<i>Ilex glabra</i>	'Compacta'	#3 Container	As shown	CONT.	FEMALE
IG-M	3	Irkberry	<i>Ilex glabra</i>	'Compacta'	#3 Container	As shown	CONT.	MALE
IV-F	14	Winterberry	<i>Ilex verticillata</i>	n/a	#3 Container	As shown	CONT.	FEMALE
IV-M	2	Winterberry	<i>Ilex verticillata</i>	n/a	#3 Container	As shown	CONT.	MALE
IT	33	Virginia sweetspire	<i>Itea virginica</i>	'Merlot'	#3 Container	As shown	CONT.	
MP-F	89	Bayberry	<i>Myrica pensylvanica</i>	n/a	#3 Container	As shown	CONT.	FEMALE
MP-M	13	Bayberry	<i>Myrica pensylvanica</i>	n/a	#3 Container	As shown	CONT.	MALE



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 Philadelphia, PA 19128



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IF THIS BAR DOES NOT MEASURE 1\"/>	

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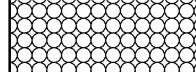
CITY OF PHILADELPHIA,
 PENNSYLVANIA
 SIDESTREAM DEAMMONIFICATION
 SOUTHWEST WATER POLLUTION
 CONTROL PLANT

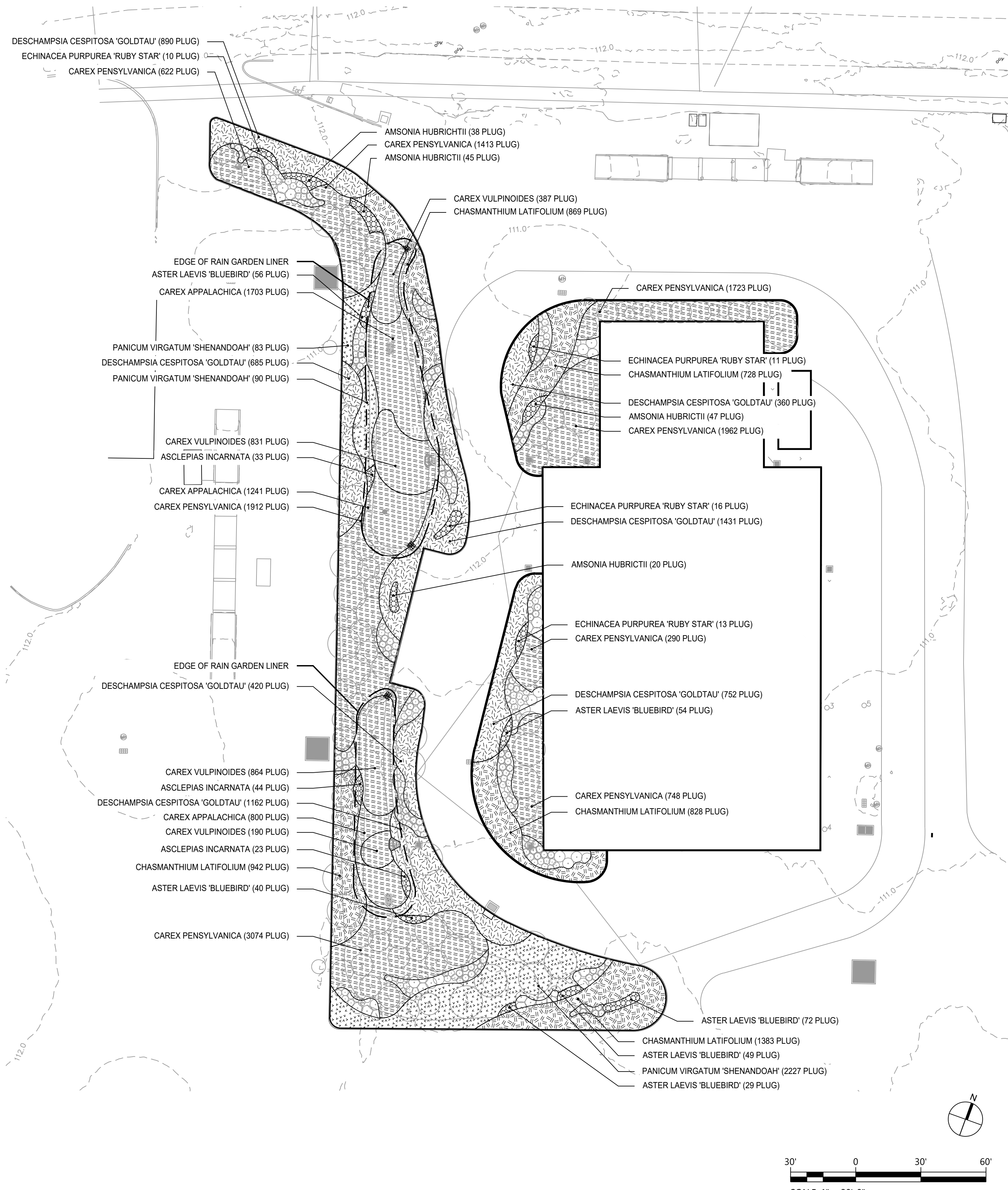
LANDSCAPING
 SHRUB PLANTING PLAN

DATE:	JANUARY 2024
HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	L-02

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 PLOT DATE: 1/19/2024 10:29 AM BY: ERIC

PLANTING LEGEND

-  CHASMANTHIUM LATIFOLIUM
-  DESCHAMPSIA CESPITOSA 'GOLDTAU'
-  PANICUM VIRGATUM 'SHENANDOAH'
-  SEDGE VARIETY
-  PERENNIAL PLANTING



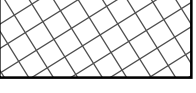




PWD - SIDESTREAM PLANT SCHEDULE

SYM.	QTY.	COMMON NAME	SCIENTIFIC NAME	CULTIVAR	SIZE	SPACING	TYPE
GROUND COVER							
	3648	Appalachian Sedge	Carex appalachica	n/a	LP32 plug	10" o.c.	Plug
	11744	Pennsylvania Sedge	Carex pennsylvanica	n/a	LP32 plug	10" o.c.	Plug
	2272	Fox Sedge	Carex vulpinoidea	n/a	LP32 plug	12" o.c.	Plug
	4750	Northern Sea Oats	Chasmanthium latifolium	n/a	LP50 plug	12" o.c.	Plug
	5700	Tufted Hairgrass 'Goldtau'	Deschampsia cespitosa	'Goldtau'	LP50 plug	12" o.c.	Plug
	2400	Switchgrass	Panicum virgatum	'Shenandoah'	LP50 plug	24" o.c.	Plug
HERBACEOUS PERENNIALS							
	150	Threadleaf Blue Star	Amsonia hubrichtii	n/a	LP50 plug	18" o.c.	Plug
	100	Swamp Milkweed	Asclepias incarnata	n/a	LP50 plug	12" o.c.	Plug
	300	Smooth Aster	Aster laevis	'Bluebird'	LP50 plug	12" o.c.	Plug
	50	Ruby Star Coneflower	Echinacea purpurea	'Ruby Star'	LP50 plug	24" o.c.	Plug

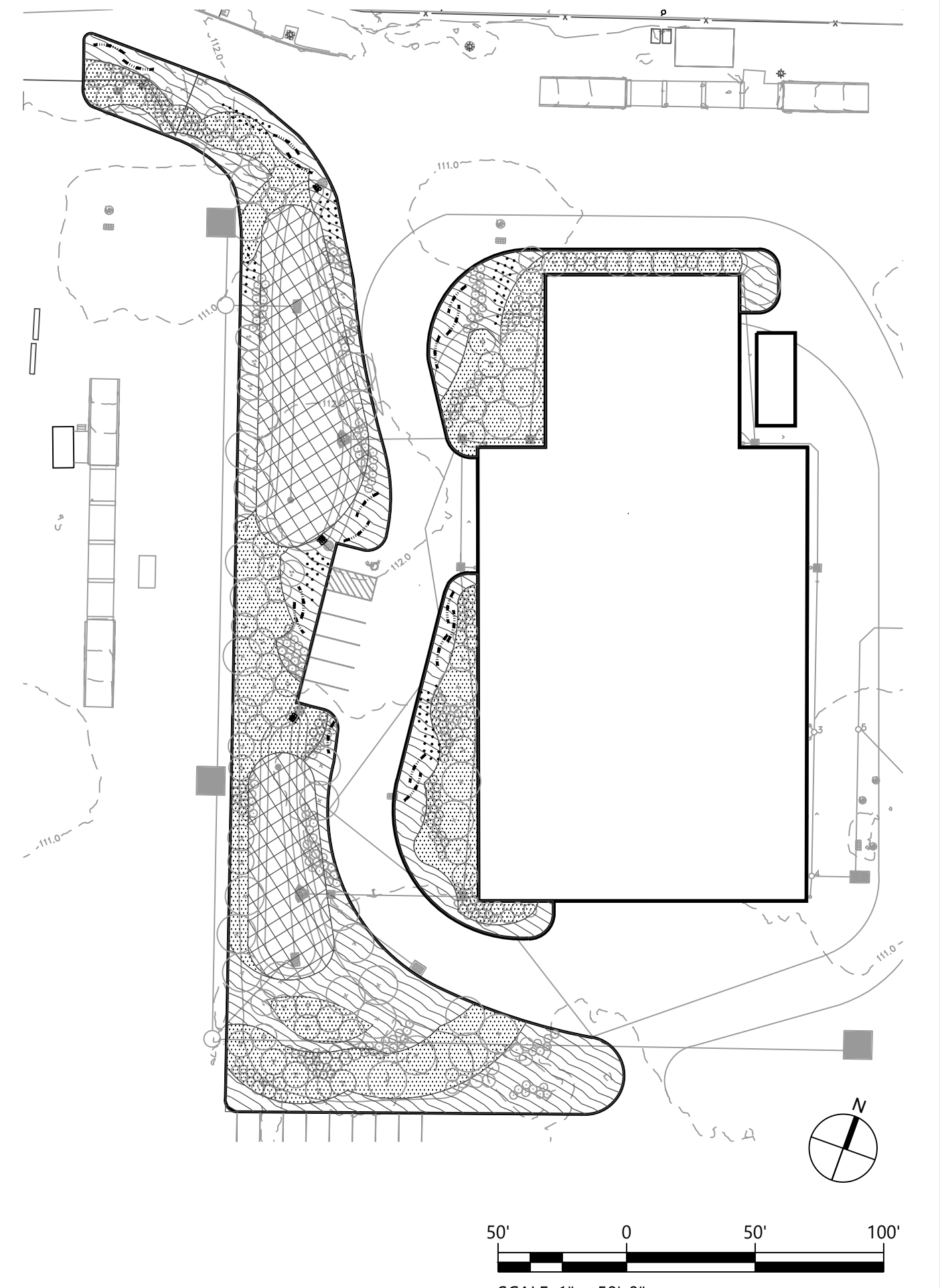
OVERSEED PLAN

LEGEND

-  DESCHAMPSIA CESPITOSA CAREX GRAYI
-  DESCHAMPSIA CESPITOSA CAREX INTUMESCENS
-  CAREX VULPINOIDEA
-  BULB - NARCISSUS 'FEBRUARY GOLD' GROUP QUANTITY 30
-  BULB - ALLIUM 'PURPLE SENSATION'

PWD - SIDESTREAM SEED AND BULB SCHEDULE

SEED		
QTY.	SEED TYPE	APPLICATION RATE
5 lbs.	Ernst Conservation Seeds: Carex grayi, PA Ecotype	20 lbs/acre with 30 lbs/acre of cover crop (grain oats)
5 lbs.	Ernst Conservation Seeds: Carex intumescens, PA Ecotype	20 lbs/acre with 30 lbs/acre of cover crop (grain oats)
1.5 lbs.	Ernst Conservation Seeds: Carex vulpinoidea, PA Ecotype	20 lbs/acre with 30 lbs/acre of cover crop (grain oats)
10 lbs.	Ernst Conservation Seeds: Deschampsia cespitosa	20 lbs/acre with 30 lbs/acre of cover crop (grain oats)
1.5 lbs.	Ernst Conservation Seeds: Juncus effusus	20 lbs/acre with 30 lbs/acre of cover crop (grain oats)
BULBS		
QTY.	BOTANICAL NAME	SPACING
108	Allium 'Purple Sensation'	As shown
510	Narcissus 'February Gold'	As shown



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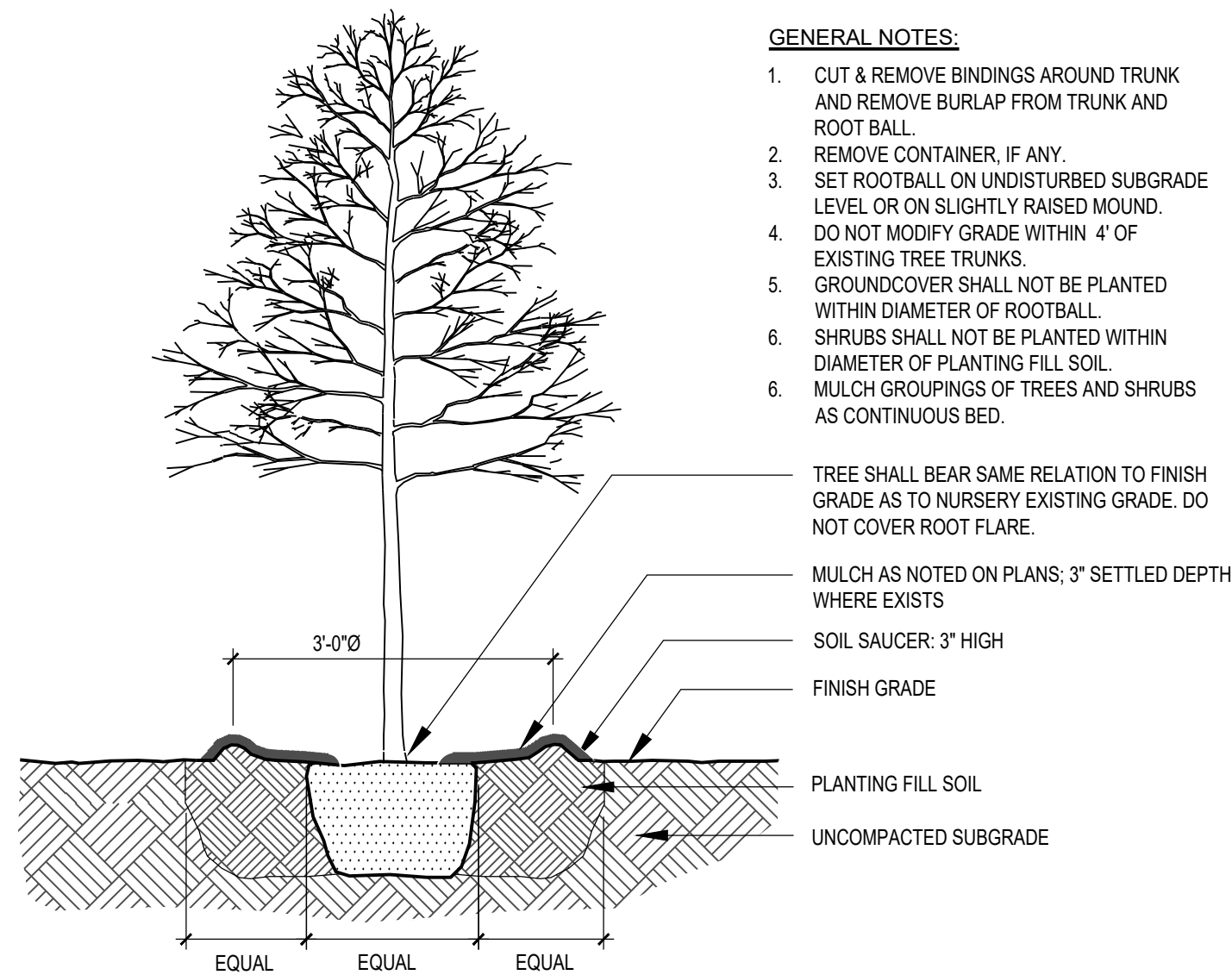
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 PENNSYLVANIA
 SIDESTREAM DEAMMONIFICATION
 SOUTHWEST WATER POLLUTION
 CONTROL PLANT

LANDSCAPING
 GRASS AND PERENNIAL
 PLANTING PLAN

DATE:	JANUARY 2024
HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	L-03

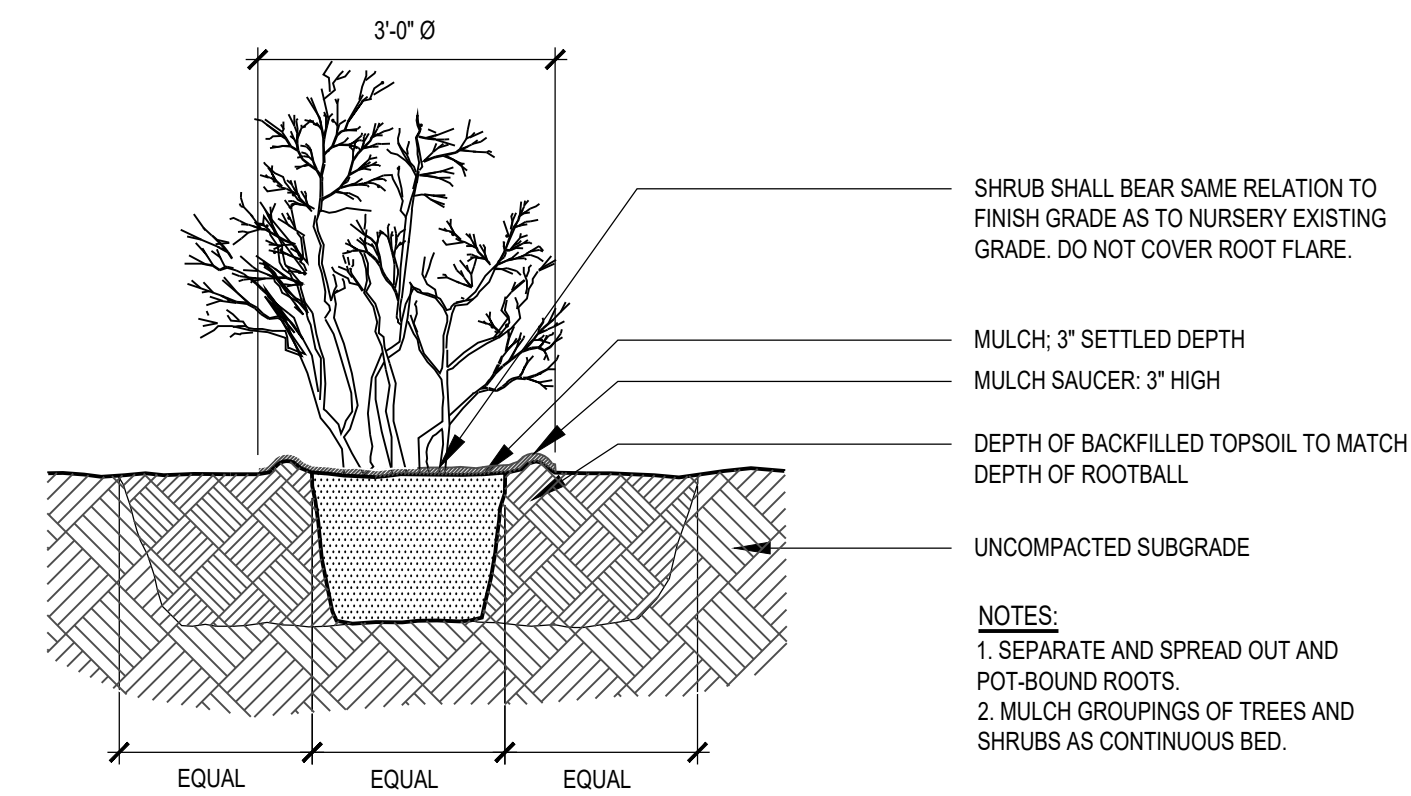
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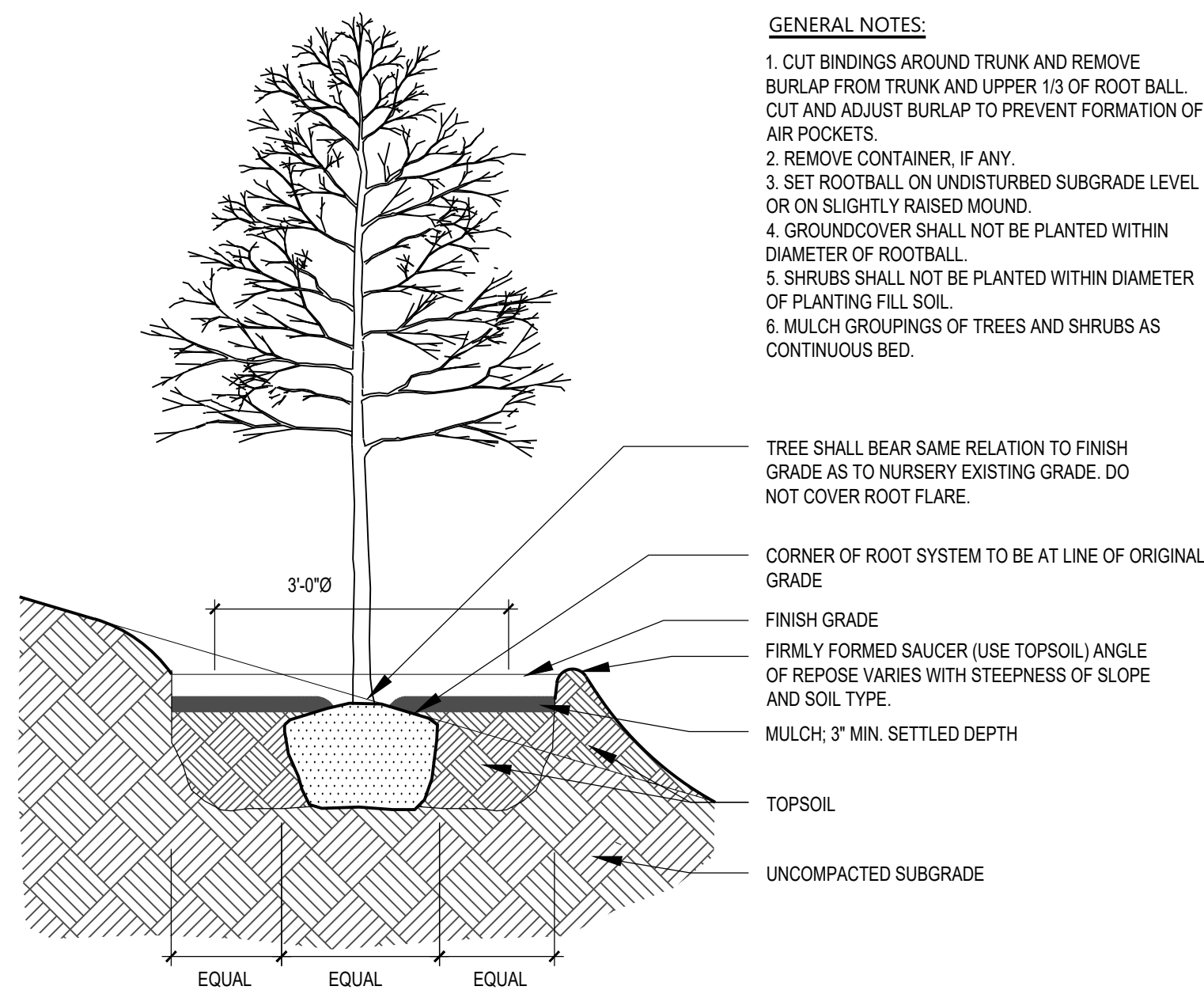
1
L-04 TREE PLANTING
NOT TO SCALE

- GENERAL NOTES:**
- CUT & REMOVE BINDINGS AROUND TRUNK AND REMOVE BURLAP FROM TRUNK AND ROOT BALL.
 - REMOVE CONTAINER, IF ANY.
 - SET ROOTBALL ON UNDISTURBED SUBGRADE LEVEL OR ON SLIGHTLY RAISED MOUND.
 - DO NOT MODIFY GRADE WITHIN 4' OF EXISTING TREE TRUNKS.
 - GROUND COVER SHALL NOT BE PLANTED WITHIN DIAMETER OF ROOTBALL.
 - SHRUBS SHALL NOT BE PLANTED WITHIN DIAMETER OF PLANTING FILL SOIL.
 - MULCH GROUPINGS OF TREES AND SHRUBS AS CONTINUOUS BED.



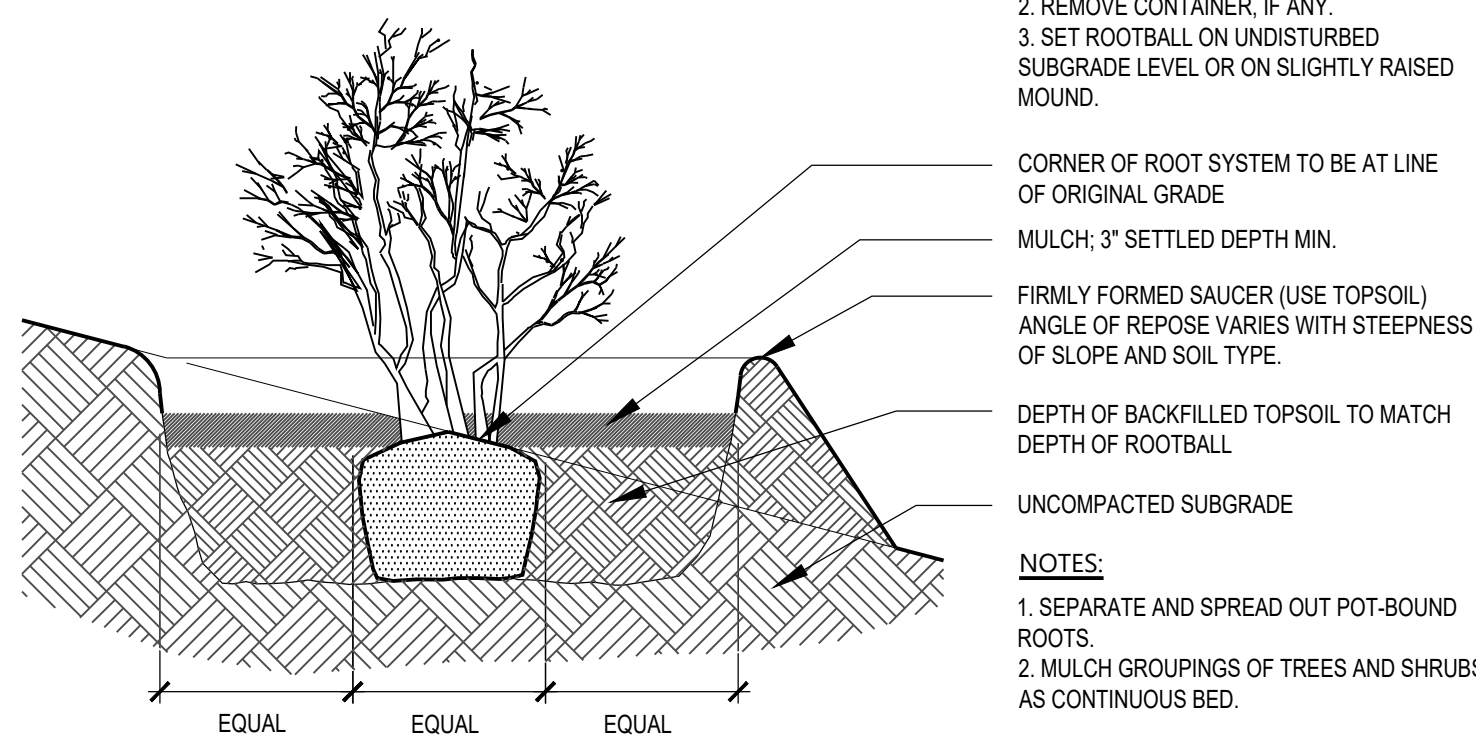
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L-04 SHRUB PLANTING
NOT TO SCALE

- GENERAL NOTES:**
- SEPARATE AND SPREAD OUT AND POT-BOUND ROOTS.
 - MULCH GROUPINGS OF TREES AND SHRUBS AS CONTINUOUS BED.



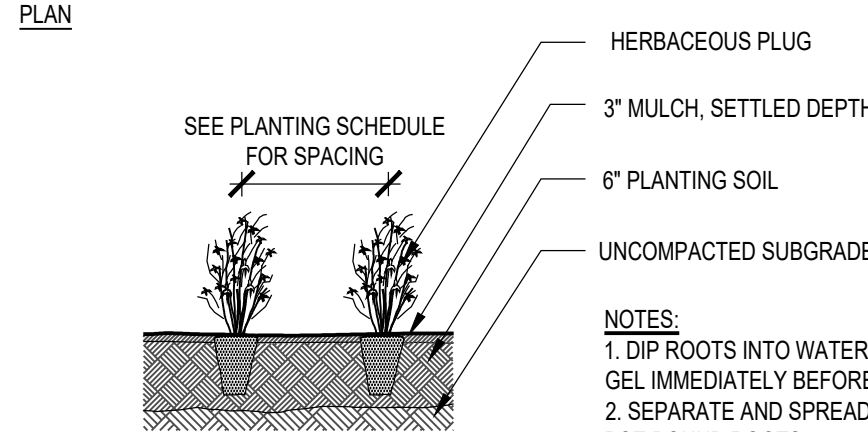
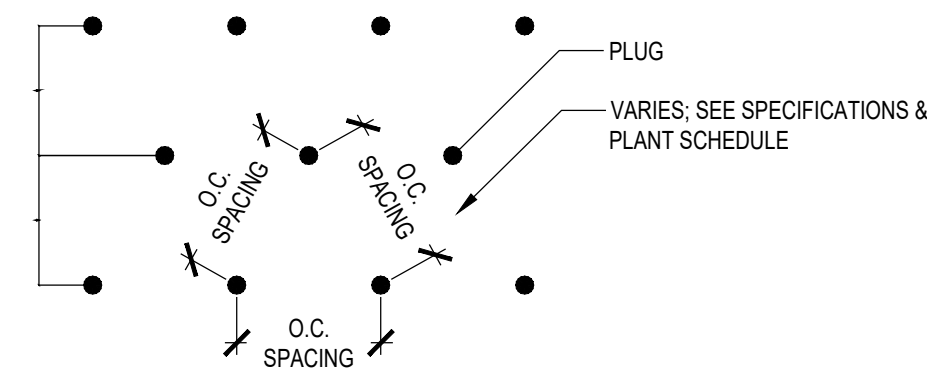
2
L-04 TREE PLANTING ON SLOPE
NTS

- GENERAL NOTES:**
- CUT BINDINGS AROUND TRUNK AND REMOVE BURLAP FROM TRUNK AND UPPER 1/3 OF ROOT BALL. CUT AND ADJUST BURLAP TO PREVENT FORMATION OF AIR POCKETS.
 - REMOVE CONTAINER, IF ANY.
 - SET ROOTBALL ON UNDISTURBED SUBGRADE LEVEL OR ON SLIGHTLY RAISED MOUND.
 - GROUND COVER SHALL NOT BE PLANTED WITHIN DIAMETER OF ROOTBALL.
 - SHRUBS SHALL NOT BE PLANTED WITHIN DIAMETER OF PLANTING FILL SOIL.
 - MULCH GROUPINGS OF TREES AND SHRUBS AS CONTINUOUS BED.



4
L-04 SHRUB PLANTING
NTS

- GENERAL NOTES:**
- CUT BINDINGS AROUND TRUNK AND REMOVE BURLAP FROM TRUNK AND UPPER 1/3 OF ROOT BALL. CUT AND ADJUST BURLAP TO PREVENT FORMATION OF AIR POCKETS.
 - REMOVE CONTAINER, IF ANY.
 - SET ROOTBALL ON UNDISTURBED SUBGRADE LEVEL OR ON SLIGHTLY RAISED MOUND.



5
L-04 PLUG PLANTING
NTS

- NOTES:**
- DIP ROOTS INTO WATER ABSORBENT GEL IMMEDIATELY BEFORE PLANTING
 - SEPARATE AND SPREAD OUT ANY POT-BOUND ROOTS

viridian landscape studio

landscape architecture | ecological planning | urban design

3868 Terrace Street
Philadelphia, PA 19128

PROJECT ENGINEER:	M. BOTTIN
DESIGNED BY:	E. SYLVESTER
DRAWN BY:	E. SYLVESTER
CHECKED BY:	T. DOCKWILLER
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

Hazen

HAZEN AND SAWYER
ONE SOUTH BROAD STREET, SUITE 900
PHILADELPHIA, PA 19107

CITY OF PHILADELPHIA,
PENNSYLVANIA

SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT

LANDSCAPING
PLANTING DETAILS

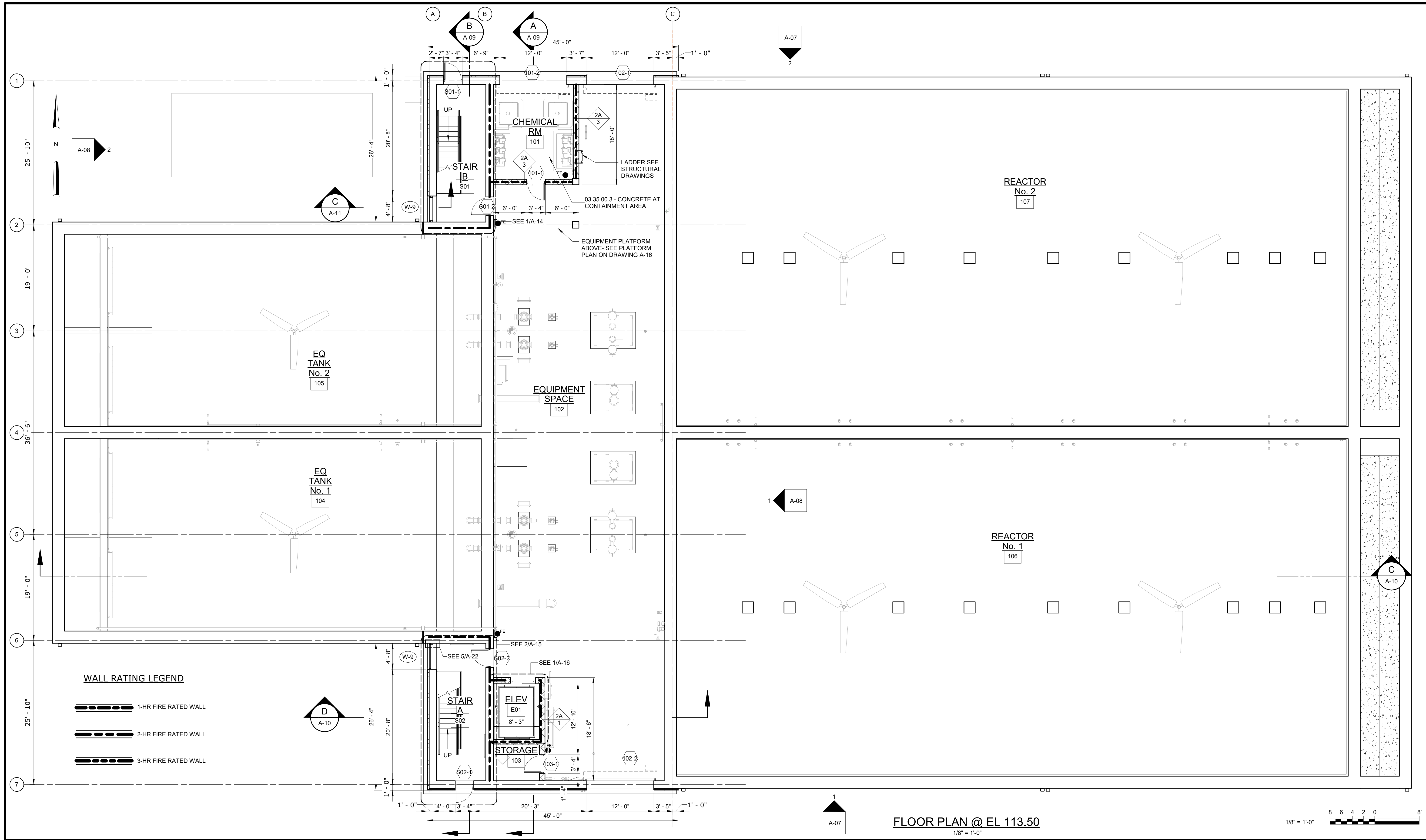
DATE: JANUARY 2024

HAZEN NO.: 90000-020

WORK NO.: 73067

DRAWING NUMBER:

L-04



FLOOR PLAN @ EL 113.50
1/8" = 1'-0"



Autodesk Docs/06000-020_Sidestream Treatment Facility/90000-020-50-EQ-TA-Hazem04 1/17/2024 2:11:16 PM

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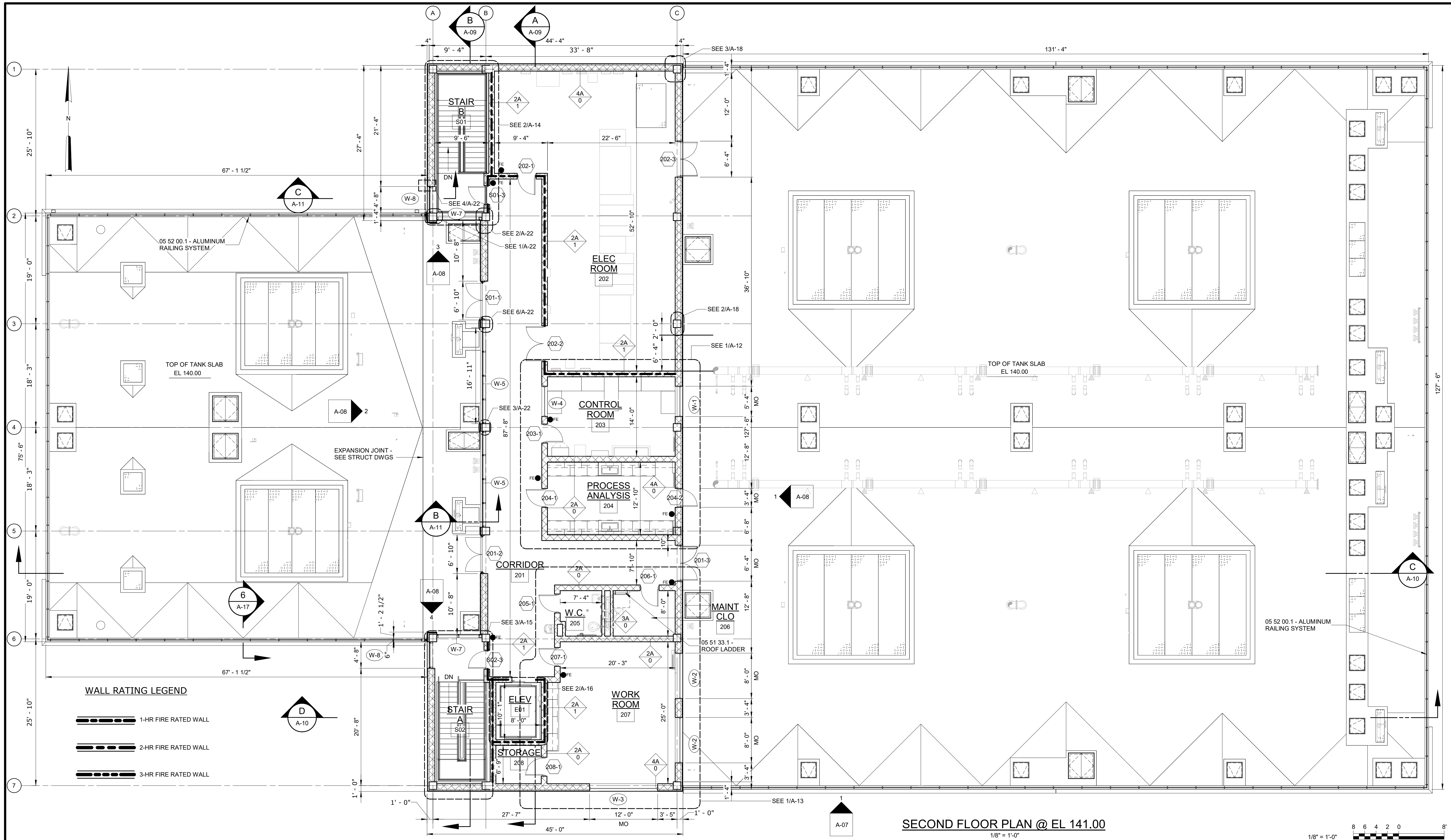
PROJECT ENGINEER:	M. BOTTIN
DESIGNED BY:	J. WOJCIESKI
DRAWN BY:	J. MARTINEZ
CHECKED BY:	M. STALLONE
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

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CITY OF PHILADELPHIA,
PENNSYLVANIA
SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT

ARCHITECTURAL
FIRST FLOOR PLAN @ EL 113.50

DATE:	JANUARY 2024
HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	A-04



SECOND FLOOR PLAN @ EL 141.00
1/8" = 1'-0"

1/8" = 1'-0" 8 6 4 2 0 8'

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DESIGNED BY:	J. WOJCIESKI
DRAWN BY:	J. MARTINEZ
CHECKED BY:	M. STALLONE
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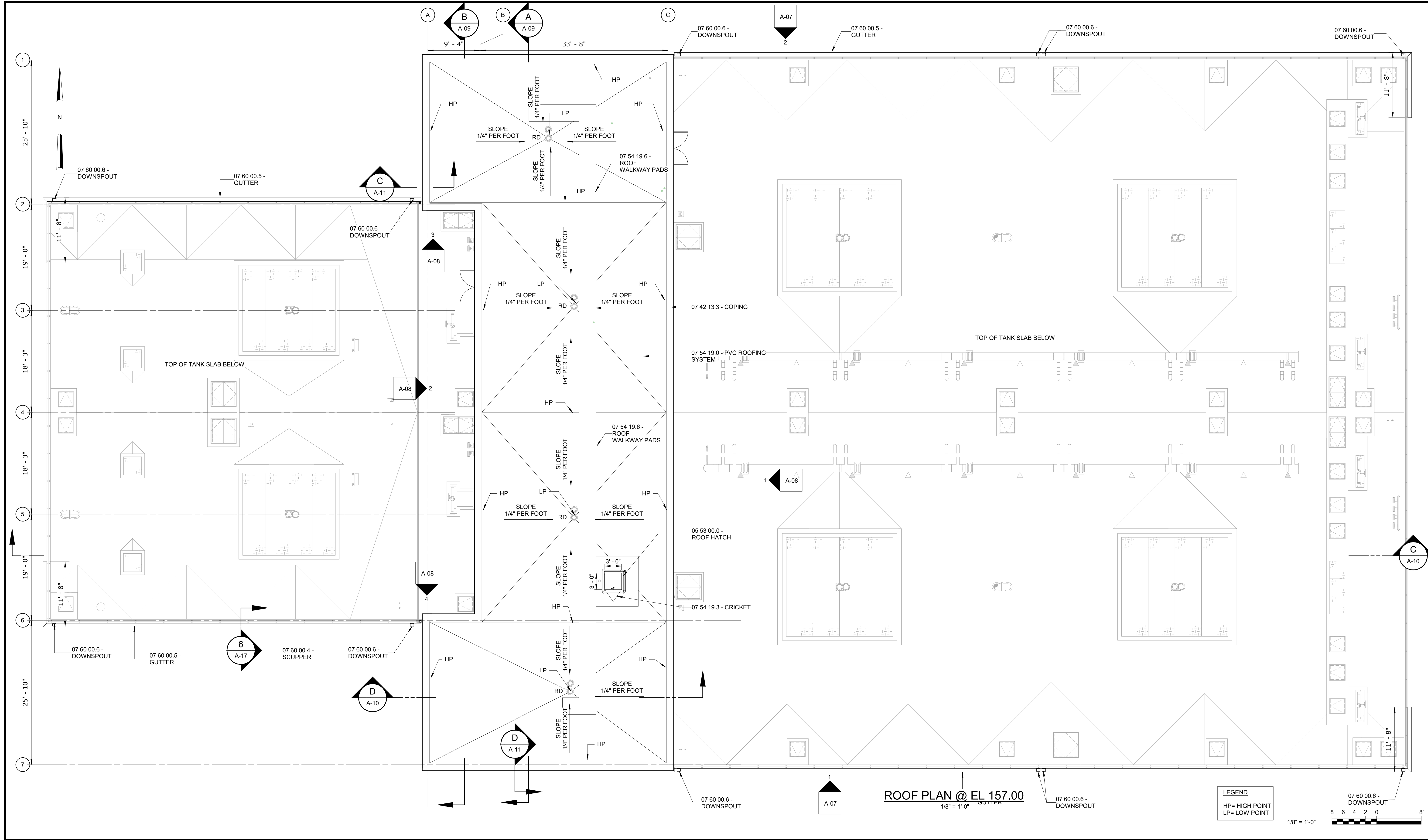
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CITY OF PHILADELPHIA,
PENNSYLVANIA
SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT

ARCHITECTURAL
SECOND FLOOR PLAN @ EL 141.00

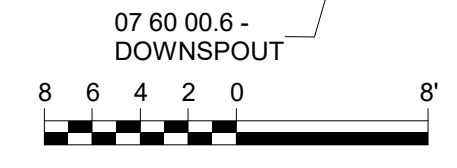
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HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	A-05

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ROOF PLAN @ EL 157.00
1/8" = 1'-0"

LEGEND
HP= HIGH POINT
LP= LOW POINT



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PROJECT ENGINEER:	M. BOTTIN
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DRAWN BY:	J. MARTINEZ
CHECKED BY:	M. STALLONE
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

Hazen

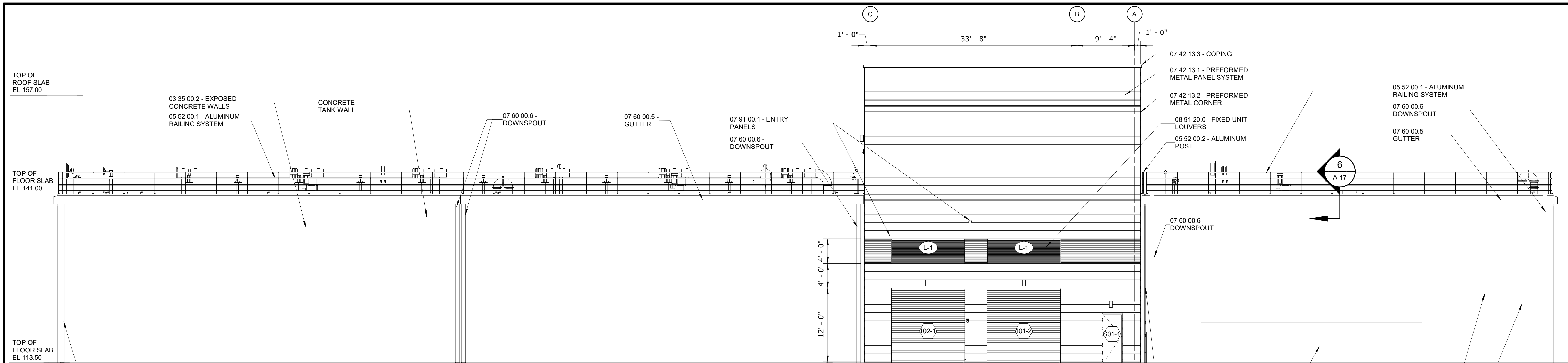
HAZEN AND SAWYER
ONE SOUTH BROAD STREET, SUITE 900
PHILADELPHIA, PENNSYLVANIA 19107

CITY OF PHILADELPHIA,
 PENNSYLVANIA

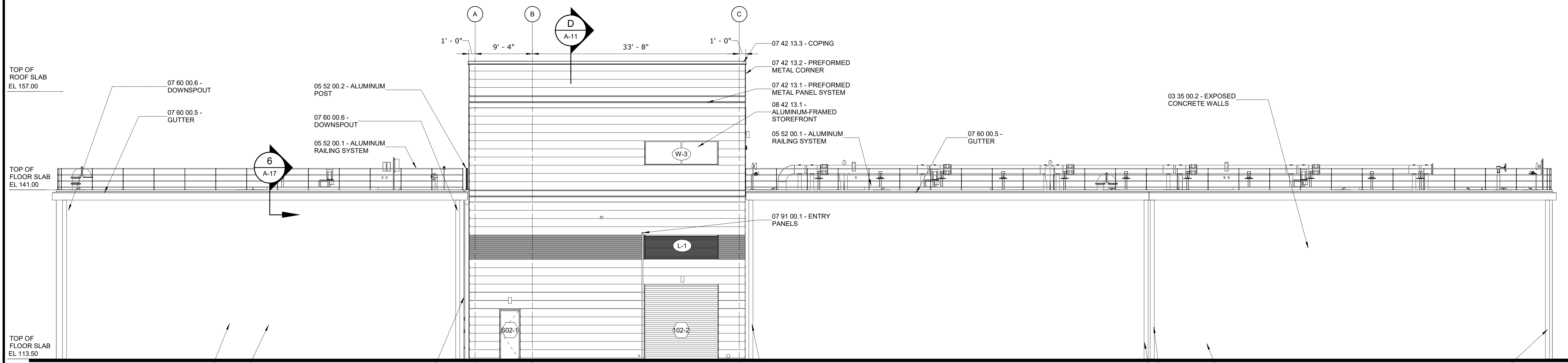
 SIDESTREAM DEAMMONIFICATION
 SOUTHWEST WATER POLLUTION
 CONTROL PLANT

ARCHITECTURAL
 ROOF PLAN @ EL 157.00

DATE:	JANUARY 2024
HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	A-06



NORTH ELEVATION
1/8" = 1'-0"



SOUTH ELEVATION
1/8" = 1'-0"



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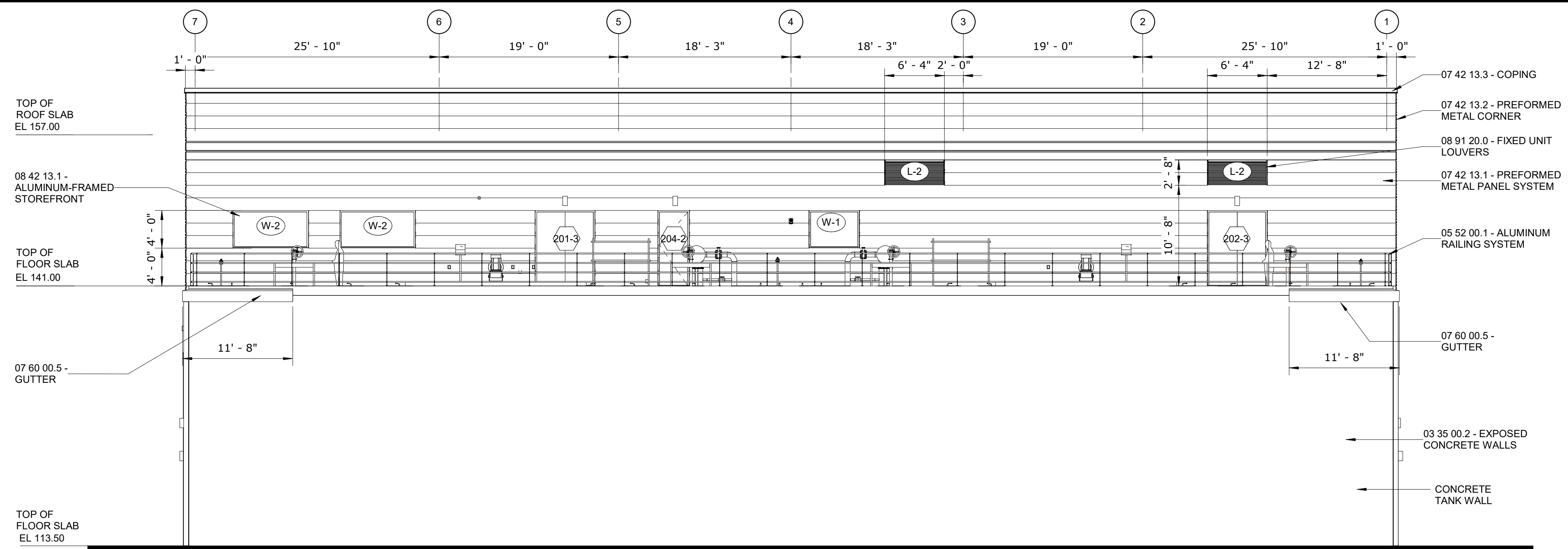
PROJECT ENGINEER:	M. BOTTIN
DESIGNED BY:	J. WOJCIESKI
DRAWN BY:	J. MARTINEZ
CHECKED BY:	M. STALLONE
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

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ONE SOUTH BROAD STREET, SUITE 900
PHILADELPHIA, PENNSYLVANIA 19107

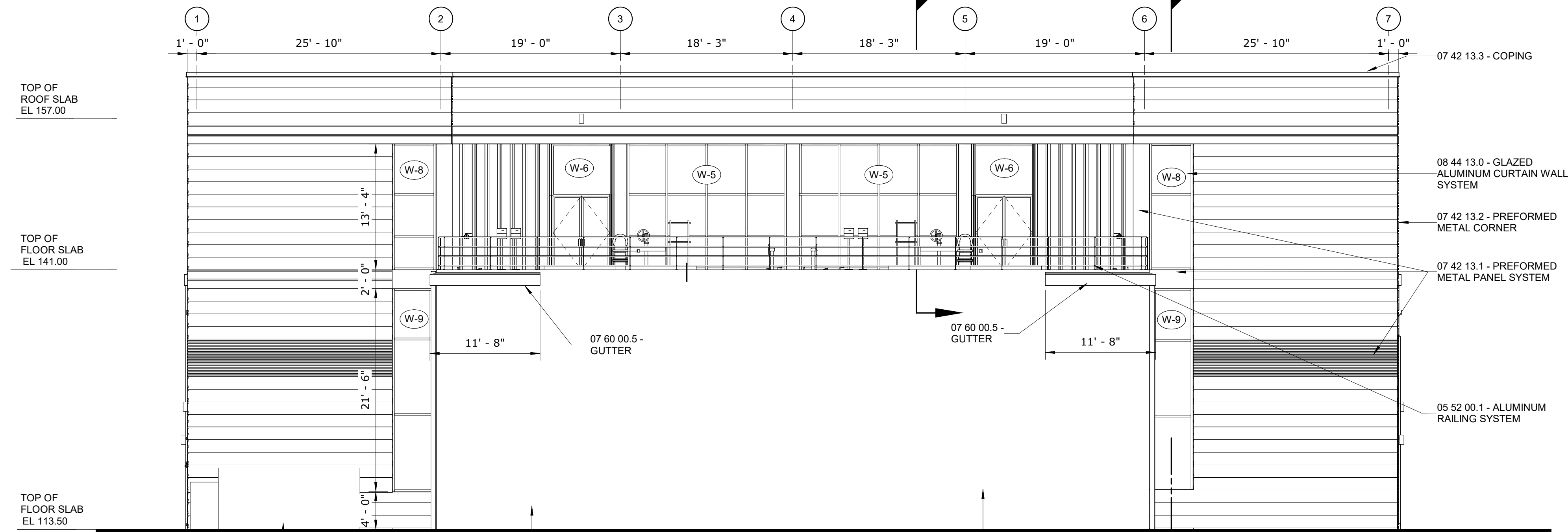
CITY OF PHILADELPHIA,
PENNSYLVANIA
**SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT**

ARCHITECTURAL
EXTERIOR ELEVATIONS - SHEET 1 OF 2

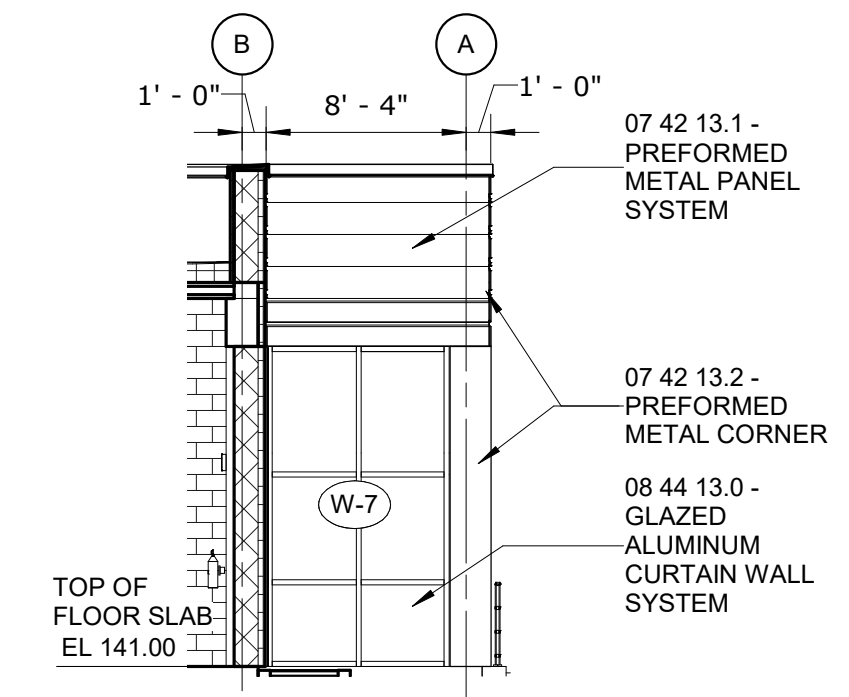
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HAZEN NO.:	90000-020
WORK NO.:	73067
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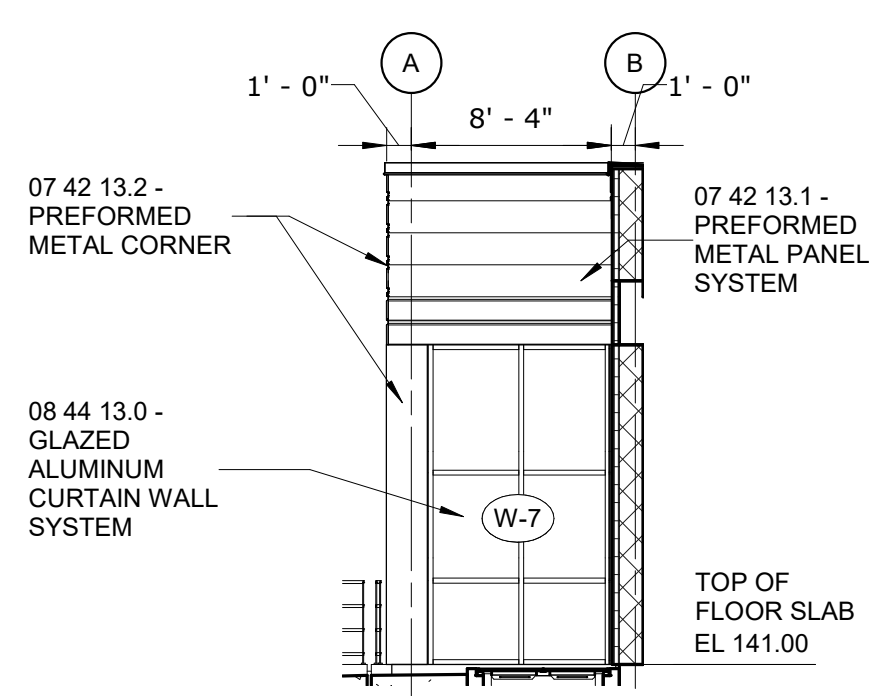
EAST ELEVATION
1/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"



SOUTH ELEVATION - EL 141.00
1/8" = 1'-0"



NORTH ELEVATION - EL 141.00
1/8" = 1'-0"



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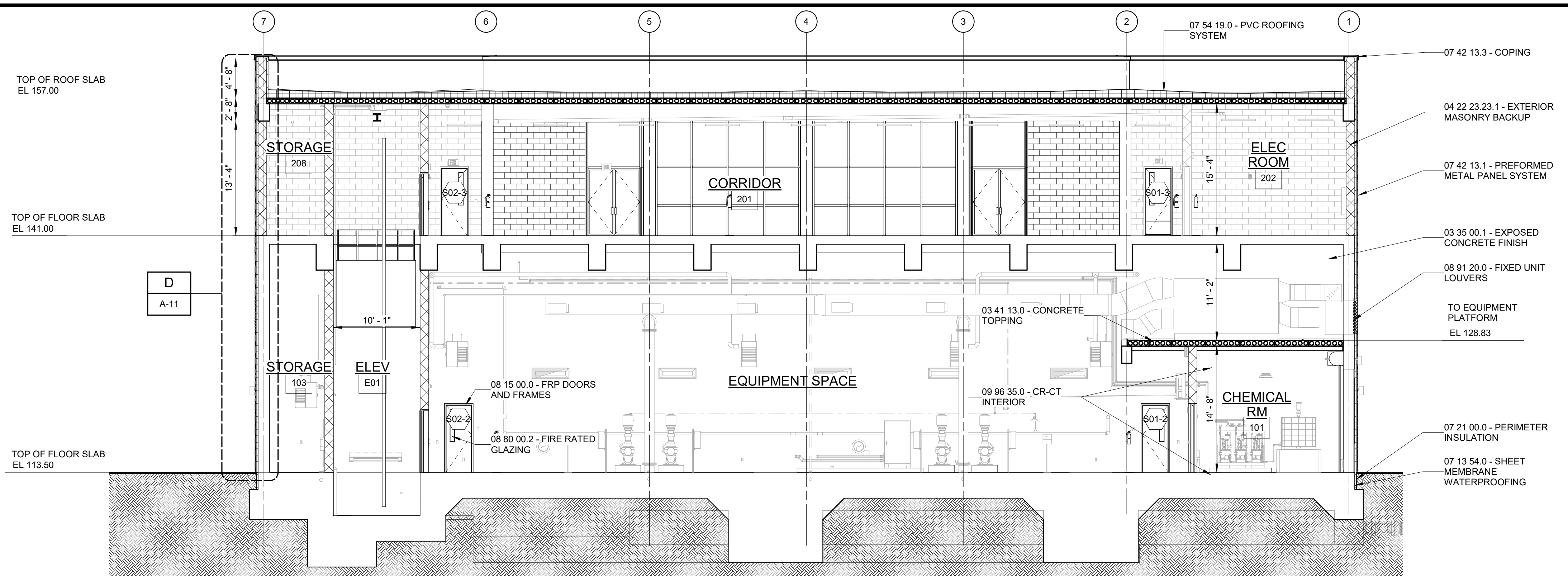
PROJECT ENGINEER:	M. BOTTIN
DESIGNED BY:	J. WOJCIESKI
DRAWN BY:	J. MARTINEZ
CHECKED BY:	M. STALLONE
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ONE SOUTH BROAD STREET, SUITE 900
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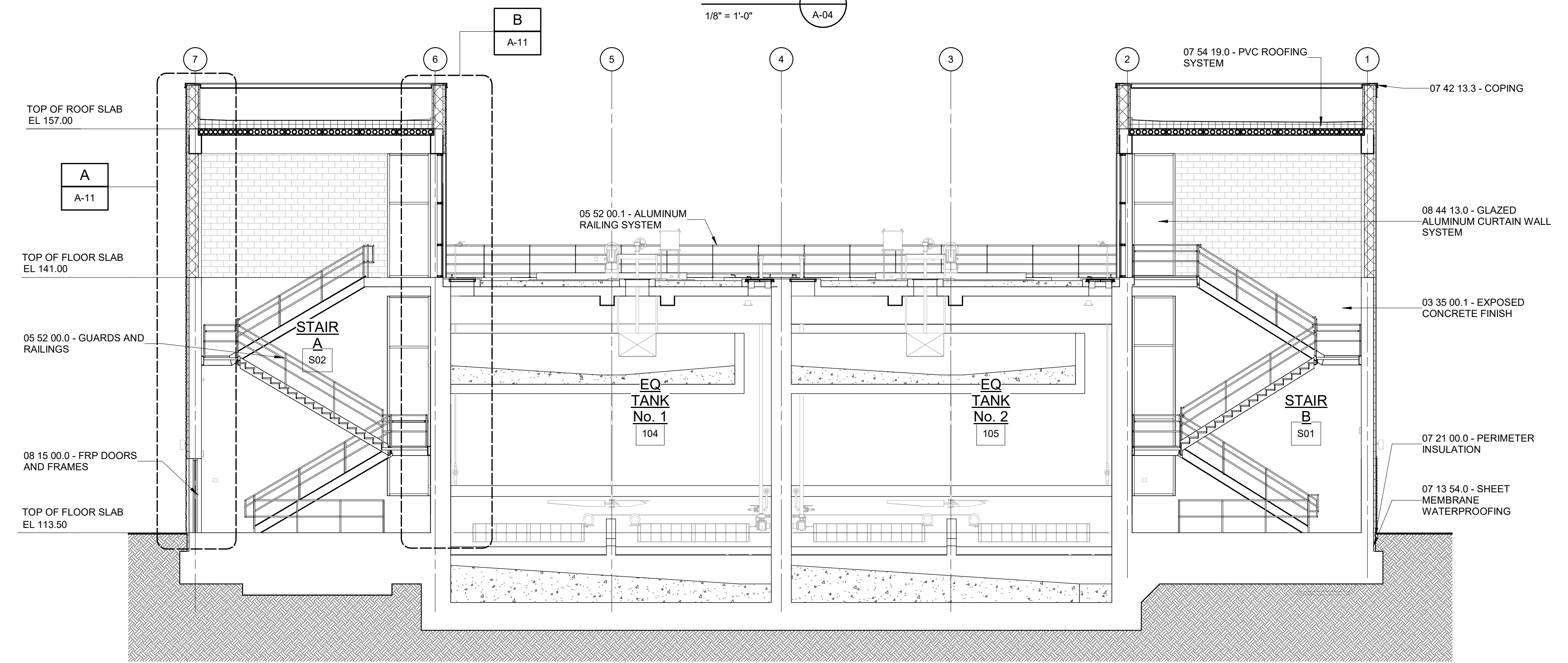
CITY OF PHILADELPHIA,
PENNSYLVANIA
**SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT**

ARCHITECTURAL
EXTERIOR ELEVATIONS - SHEET 2 OF 2

DATE:	JANUARY 2024
HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	A-08



SECTION A
1/8" = 1'-0"



SECTION B
1/8" = 1'-0"



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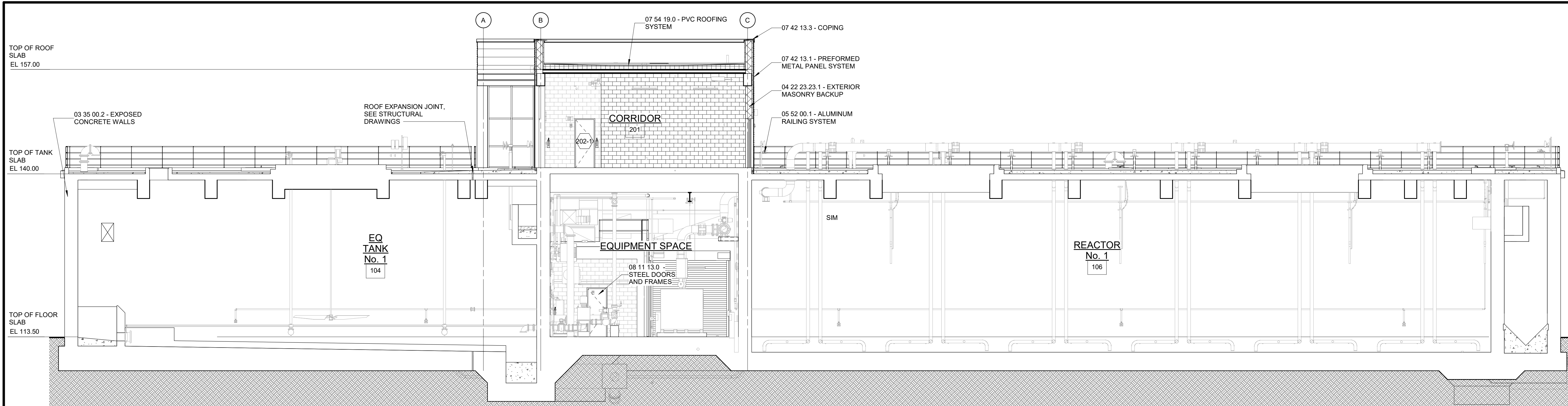
PROJECT ENGINEER:	M. BOTTIN
DESIGNED BY:	J. WOJCIESKI
DRAWN BY:	J. MARTINEZ
CHECKED BY:	M. STALLONE
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

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ONE SOUTH BROAD STREET, SUITE 900
PHILADELPHIA, PENNSYLVANIA 19107

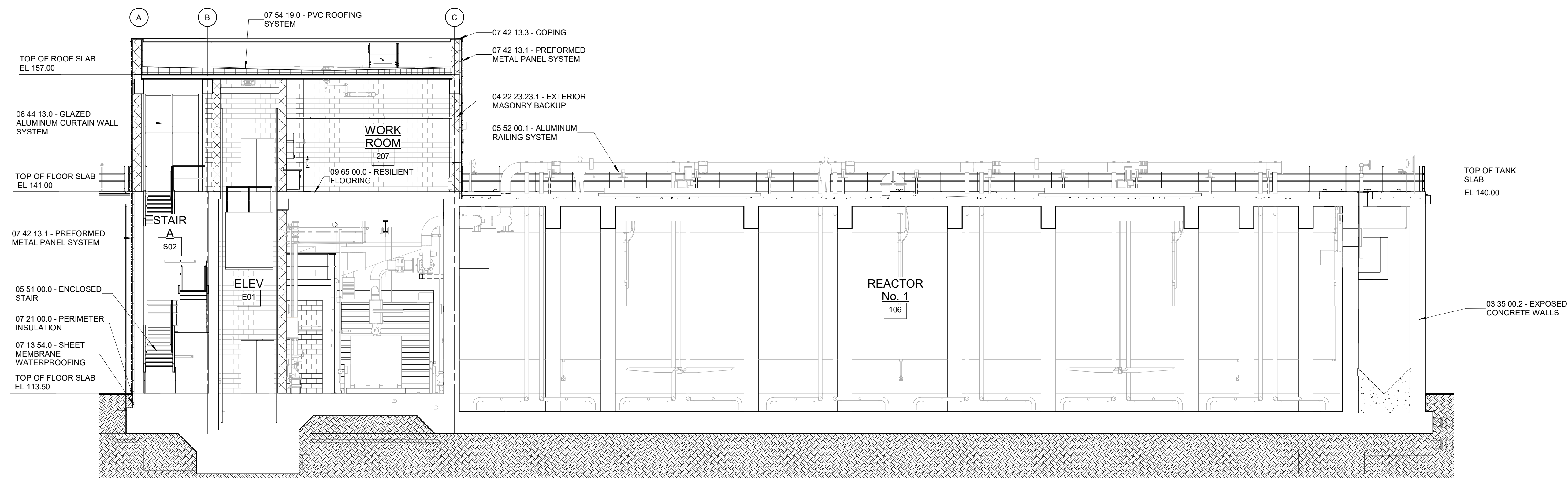
CITY OF PHILADELPHIA,
PENNSYLVANIA
SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT

ARCHITECTURAL
BUILDING SECTIONS - SHEET 1 OF 2

DATE:	JANUARY 2024
HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	A-09



SECTION C
1/8" = 1'-0"



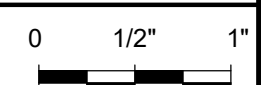
SECTION D
1/8" = 1'-0"



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PROJECT ENGINEER:	M. BOTTIN
DESIGNED BY:	J. WOJCIESKI
DRAWN BY:	J. MARTINEZ
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CITY OF PHILADELPHIA,
PENNSYLVANIA
SIDESTREAM DEAMMONIFICATION
SOUTHWEST WATER POLLUTION
CONTROL PLANT

ARCHITECTURAL
BUILDING SECTIONS - SHEET 2 OF 2

DATE:	JANUARY 2024
HAZEN NO.:	90000-020
WORK NO.:	73067
DRAWING NUMBER:	A-10