

RODNEY STREET RESERVOIR DEMOLITION

APRIL 2023

DEI PROJECT NO.: 718018

DEPARTMENT OF PUBLIC WORKS
CITY OF WILMINGTON
DELAWARE



City of Wilmington Delaware
Department of Public Works

Louis L. Redding City/County Building
800 N. French Street, 6th Floor
Wilmington, DE 19801

D'HUY Engineering, Inc.



D'HUY Engineering, Inc.
1 East Broad Street
Bethlehem, PA, 18018
610-865-3000

PRELIMINARY
NOT FOR
CONSTRUCTION

MANAGEMENT BLOCK

CONTRACT NO.:

A-E APPROVALS	DATE
DESIGNER	E. HENBEST
CHECKED	C. MURRAY
PROJ. ENG.	E. HENBEST
PROJ. MGR.	C. MURRAY
APPROVED	

CITY OF WILMINGTON
DEPARTMENT OF PUBLIC WORKS

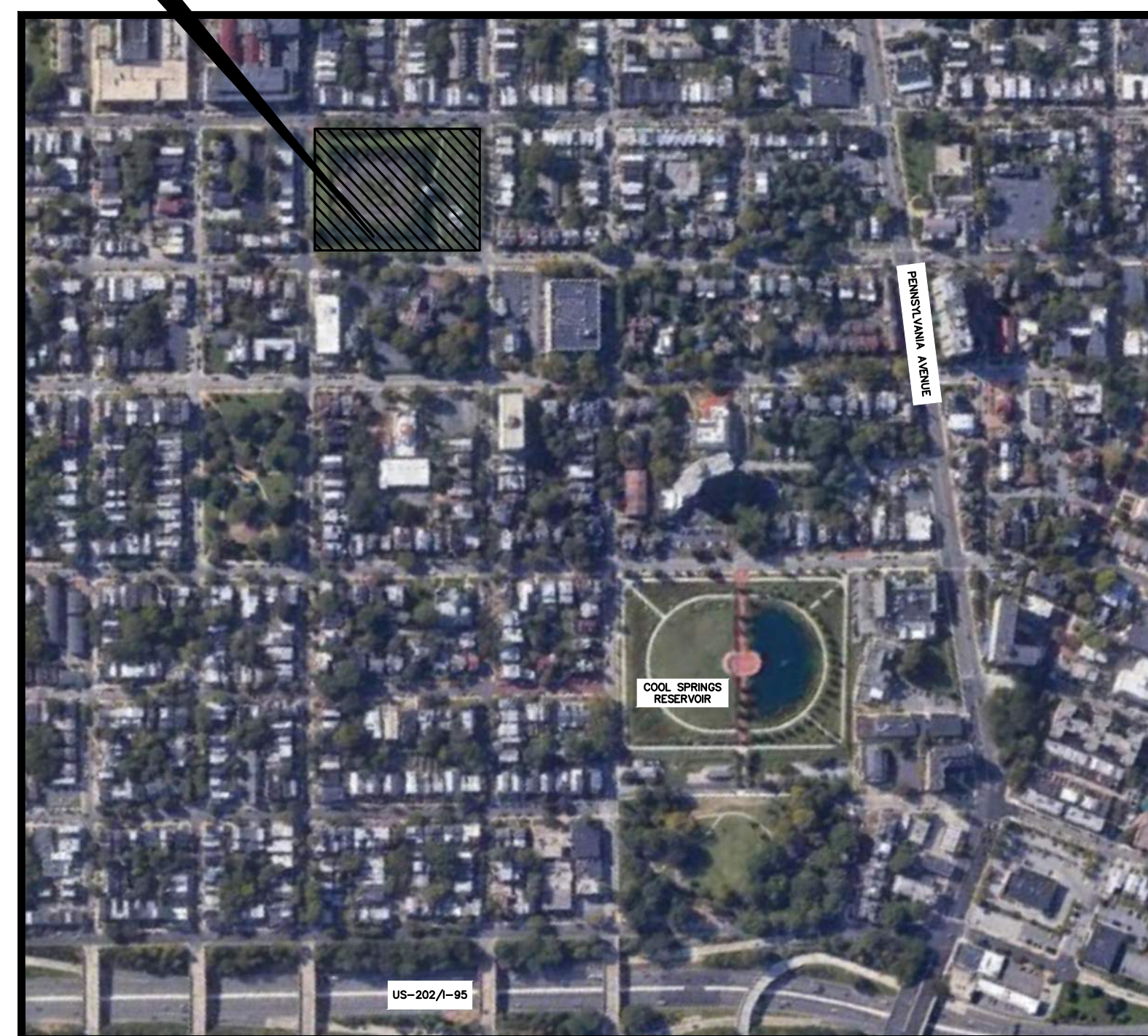
RODNEY STREET RESERVOIR
DEMOLITION

Rev.	Date	Description

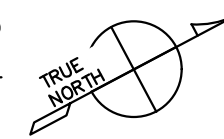
Sheet Title:
COVER SHEET

Sheet No.:
1 of 7

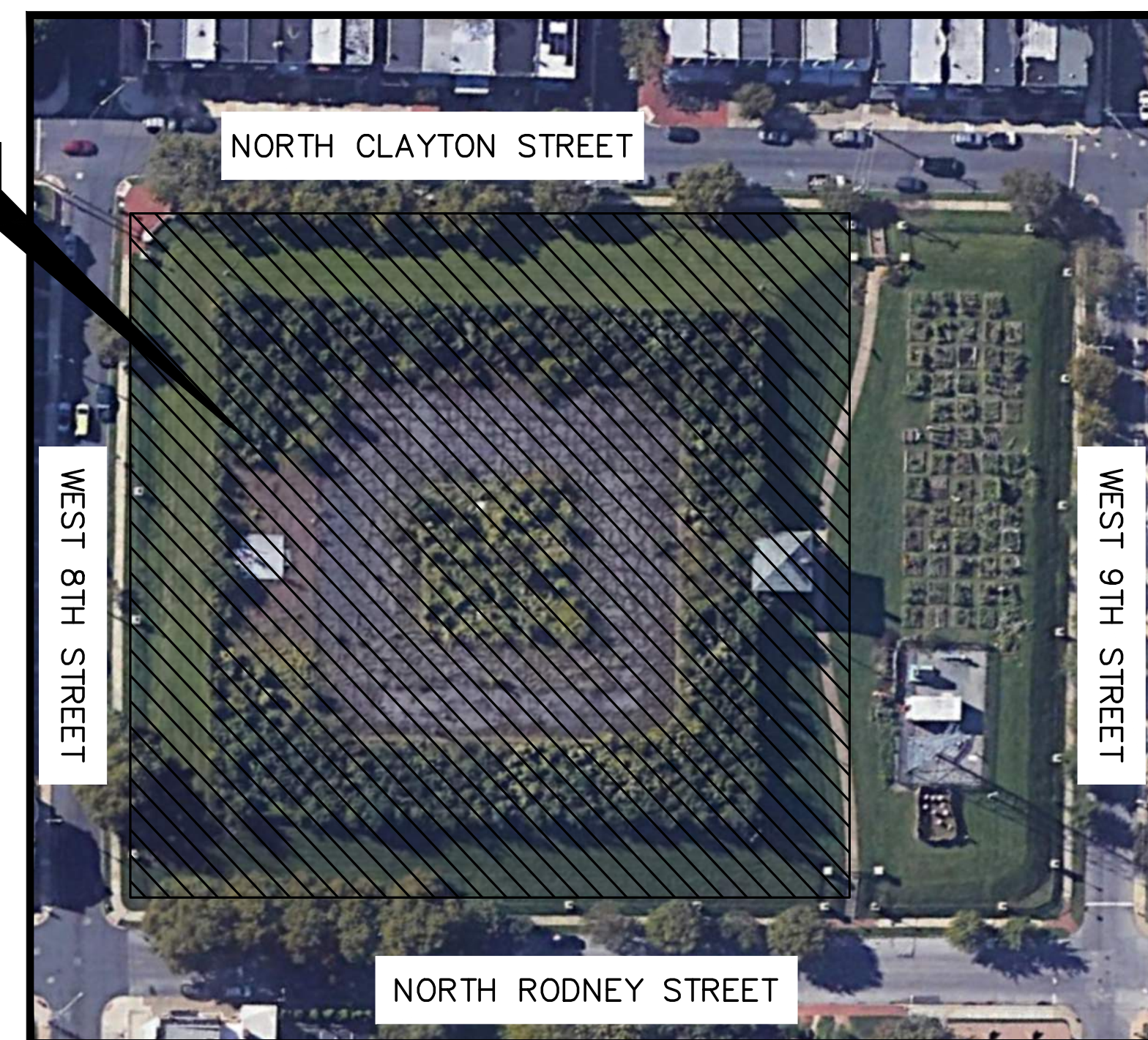
SITE



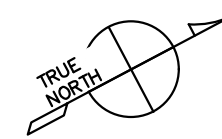
LOCATION MAP



WORK AREA



SITE MAP



RODNEY STREET RESERVOIR
1500 WEST 9TH STREET
WILMINGTON, DELAWARE 19806

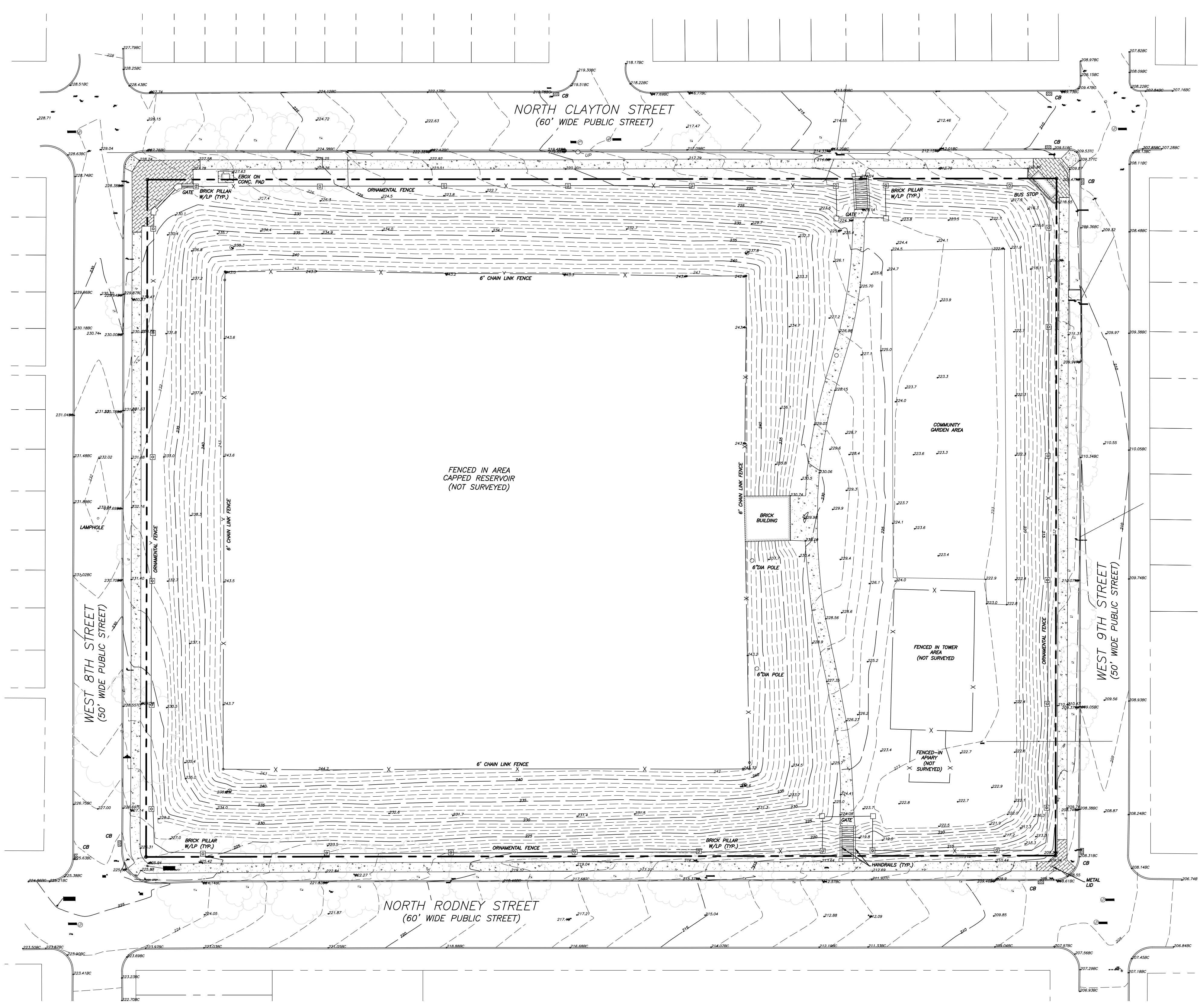
DRAWING LIST

- 1 COVER SHEET
- 2 EXISTING SITE PLAN
- 3 E&S PLAN, DETAILS, AND NOTES
- 4 DEMOLITION PLAN AND NOTES
- 5 DEMOLITION SECTIONS
- 6 FINAL GRADING PLAN AND NOTES
- 7 PIPING PLANS, SECTIONS, AND NOTES

CADFILE: G:\Projects\700-799 - Municipal\718 - Wilmington-DE City\718018 - Rodney Reservoir Demolition\CAD\718018 - Rodney Demo.dwg Mar 21, 2023 - 3:59pm

GENERAL DATA:

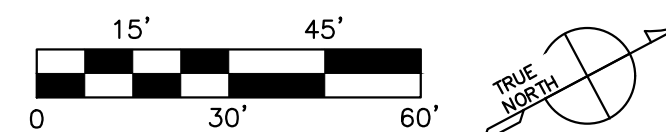
1. Owner: City of Wilmington – Water Department
2. Site Address: 1500 West 9th Street
Wilmington, DE 19806
3. Modified Grid: 102/360
4. Tax Parcel No.: 26-027.10-276
5. Area: 3.78± Acres
6. Date of Survey: August 17, 2022
7. Datum: Horizontal – Delaware State Plane Meridian NAD'83, Geoid 2018
(established by network RTK GPS observations)
Vertical – North American Vertical Datum NAVD'88, Geoid 2018
(established by network RTK GPS observations)
8. This plan was prepared without the benefit of a title commitment, Title search or bring down and is subject to easements, validity of Chain of title, etc., that a subsequent search may disclose.
9. The boundary lines shown on this plan were established using observed evidence, however, boundary lines are shown for reference purposes only and do not represent a boundary survey by VanDemark & Lynch, Inc.
10. Existing utilities are shown as observed. Completeness or correctness thereof is not guaranteed. It shall be each contractor's responsibility to contact the utility companies involved in order to secure the most accurate information available as to utility location and elevation. No construction around or adjacent to utilities shall begin without notifying their owners at least 48 hours in advance. Each contractor shall take the necessary precautions to protect the existing utilities. To locate existing utilities in the field prior to construction, the contractor shall contact Miss Utility of Delmarva (telephone 800-282-8555).



LEGEND

- PROPERTY LINE
- 30 MAJOR CONTOUR
- 26 MINOR CONTOUR
- BRICK PAVERS
- CONCRETE SURFACE
- FENCE LINE
- SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- EDGE OF TREES
- SPOTGRADE – GROUND
- 18" DECIDUOUS TREE W/SIZE

EXISTING SITE PLAN
SCALE: 1"=30'-0"



City of Wilmington Delaware
Department of Public Works

Louis L. Redding City/County Building
800 N. French Street, 6th Floor
Wilmington, DE 19801

D'HUY Engineering, Inc.



D'HUY Engineering, Inc.
1 East Broad Street
Bethlehem, PA, 18018
610-865-3000

PRELIMINARY
NOT FOR
CONSTRUCTION

MANAGEMENT BLOCK	
CONTRACT NO.:	
A-E APPROVALS	DATE
DESIGNER	E. HENBEST
CHECKED	C. MURRAY
PROJ. ENG.	E. HENBEST
PROJ. MGR.	C. MURRAY
APPROVED	

CITY OF WILMINGTON
DEPARTMENT OF PUBLIC WORKS

RODNEY STREET RESERVOIR
DEMOLITION

Rev.	Date	Description

Sheet Title:
EXISTING SITE PLAN

CIVIL

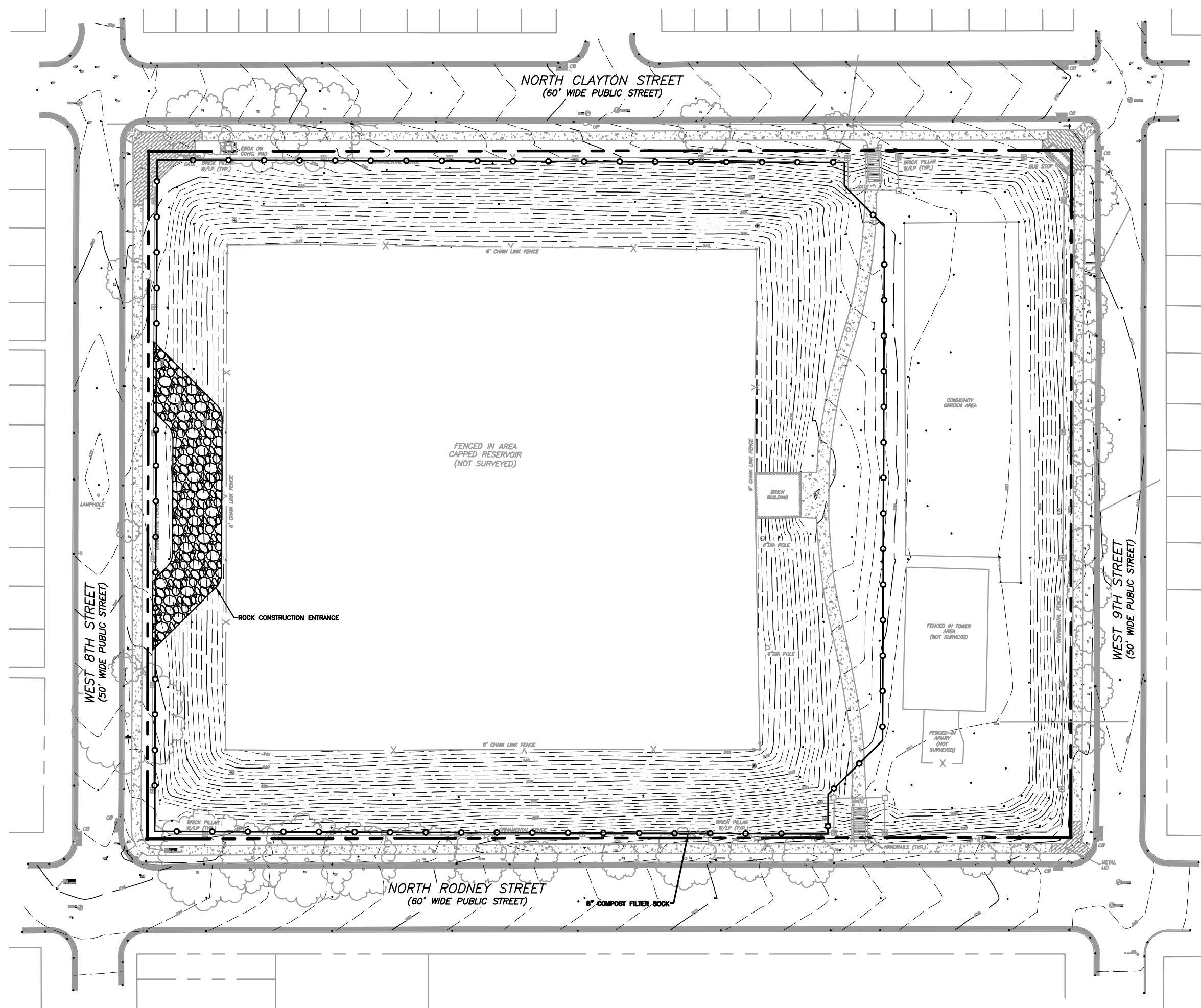
Sheet No.:
2 of 7

D

C

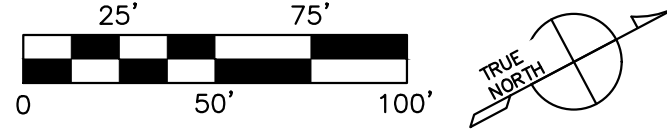
B

A



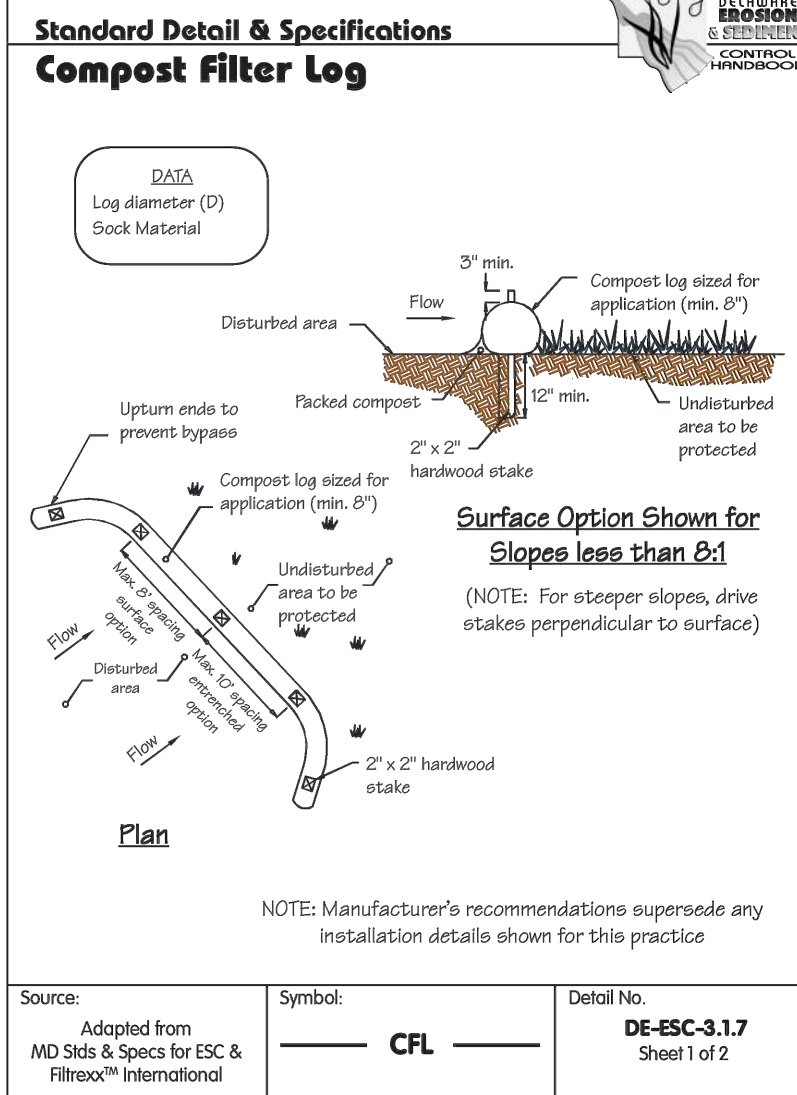
EROSION CONTROL SITE PLAN

SCALE: 1"=50'-0"



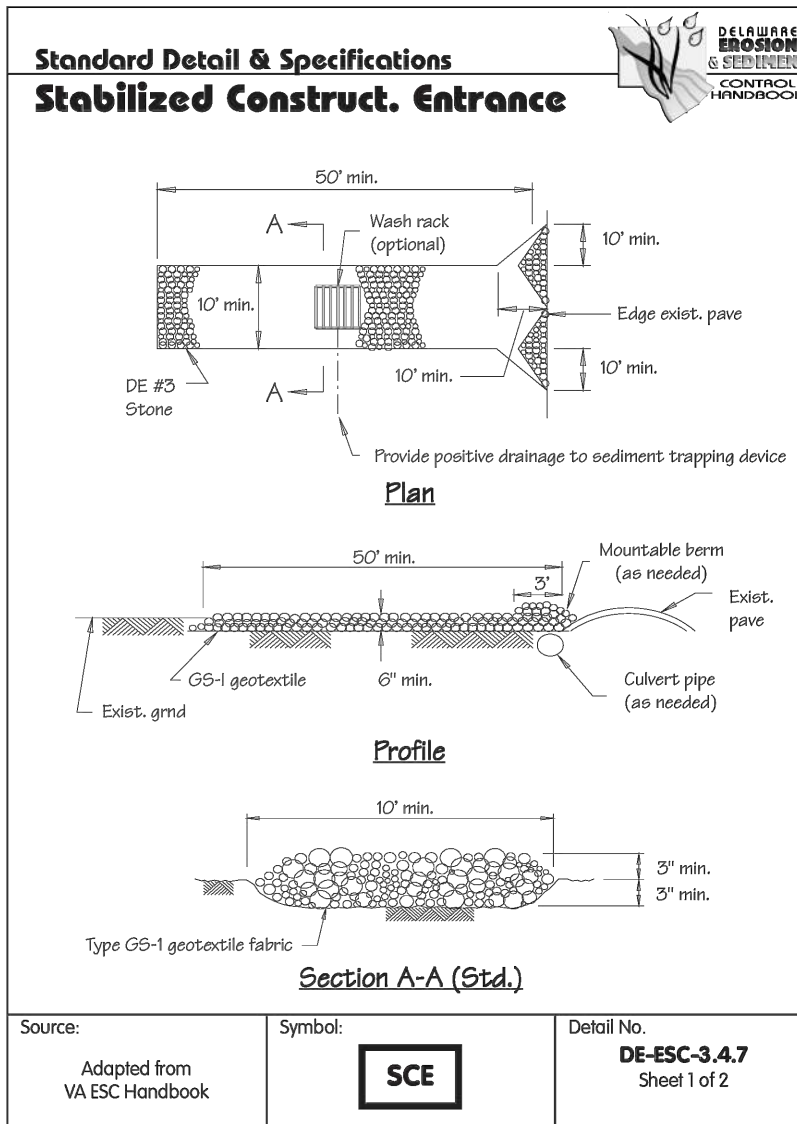
STANDARD E&S NOTES:

- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS, INCLUDING ANY SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP.
- CLEAN FILL - UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THIS INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH.



COMPOST FILTER SOCK

NOT TO SCALE



ROCK CONSTRUCTION ENTRANCE WITH WASH RACK

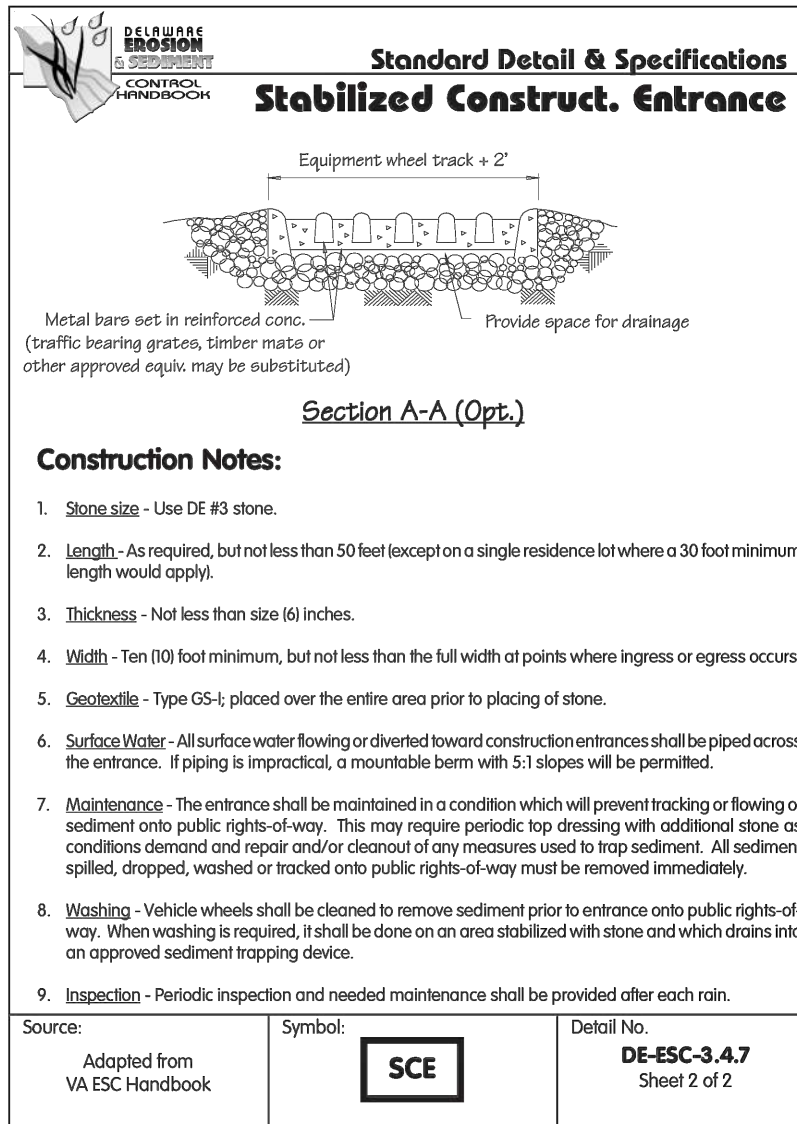
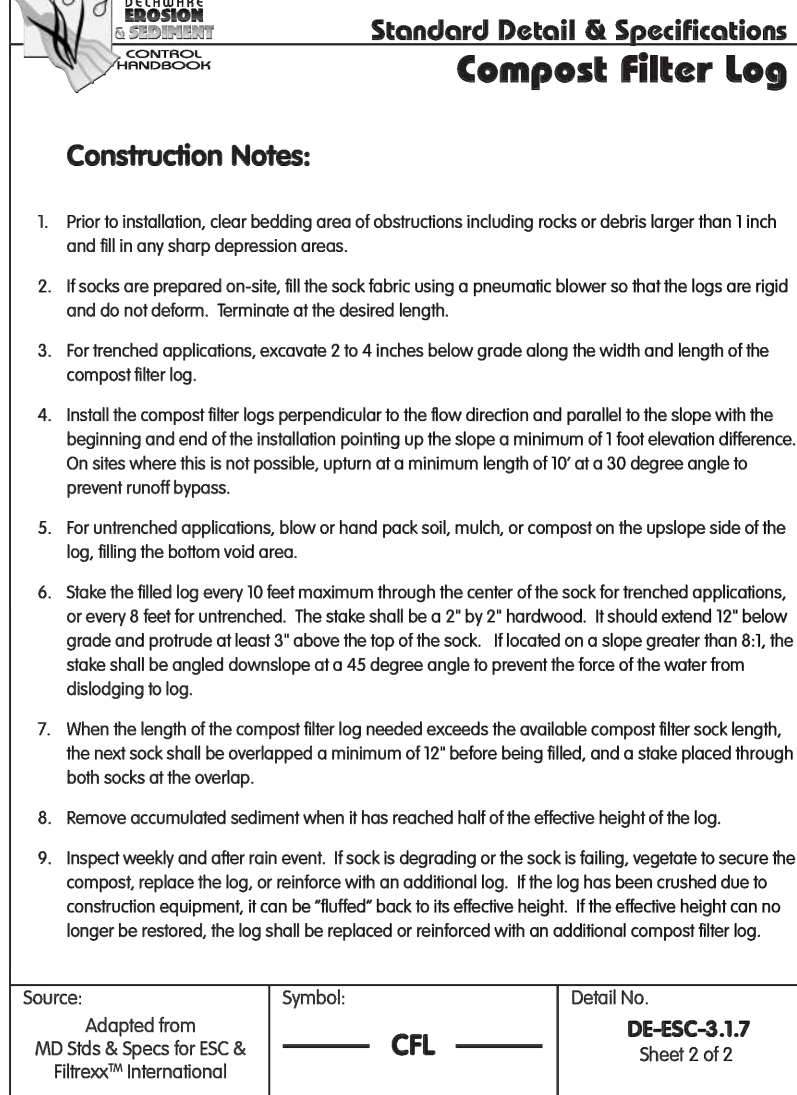
NOT TO SCALE

Standard Detail & Specifications
Vegetative Stabilization

Seeding Mixture	Seeding Rate*	Optimum Seeding Dates †	Remarks
1. Certified Seed	100	APR 15 - MAY 15	AP
2. Well Drained Soils	100	APR 15 - MAY 15	AP
3. Heavy Slopes	100	APR 15 - MAY 15	AP
4. Heavy Slopes	100	APR 15 - MAY 15	AP
5. Heavy Slopes	100	APR 15 - MAY 15	AP
6. Heavy Slopes	100	APR 15 - MAY 15	AP
7. Heavy Slopes	100	APR 15 - MAY 15	AP
8. Heavy Slopes	100	APR 15 - MAY 15	AP
9. Heavy Slopes	100	APR 15 - MAY 15	AP
10. Heavy Slopes	100	APR 15 - MAY 15	AP
11. Heavy Slopes	100	APR 15 - MAY 15	AP
12. Heavy Slopes	100	APR 15 - MAY 15	AP
13. Heavy Slopes	100	APR 15 - MAY 15	AP
14. Heavy Slopes	100	APR 15 - MAY 15	AP
15. Heavy Slopes	100	APR 15 - MAY 15	AP
16. Heavy Slopes	100	APR 15 - MAY 15	AP
17. Heavy Slopes	100	APR 15 - MAY 15	AP
18. Heavy Slopes	100	APR 15 - MAY 15	AP
19. Heavy Slopes	100	APR 15 - MAY 15	AP
20. Heavy Slopes	100	APR 15 - MAY 15	AP

PERMANENT VEGETATIVE STABILIZATION

NOT TO SCALE

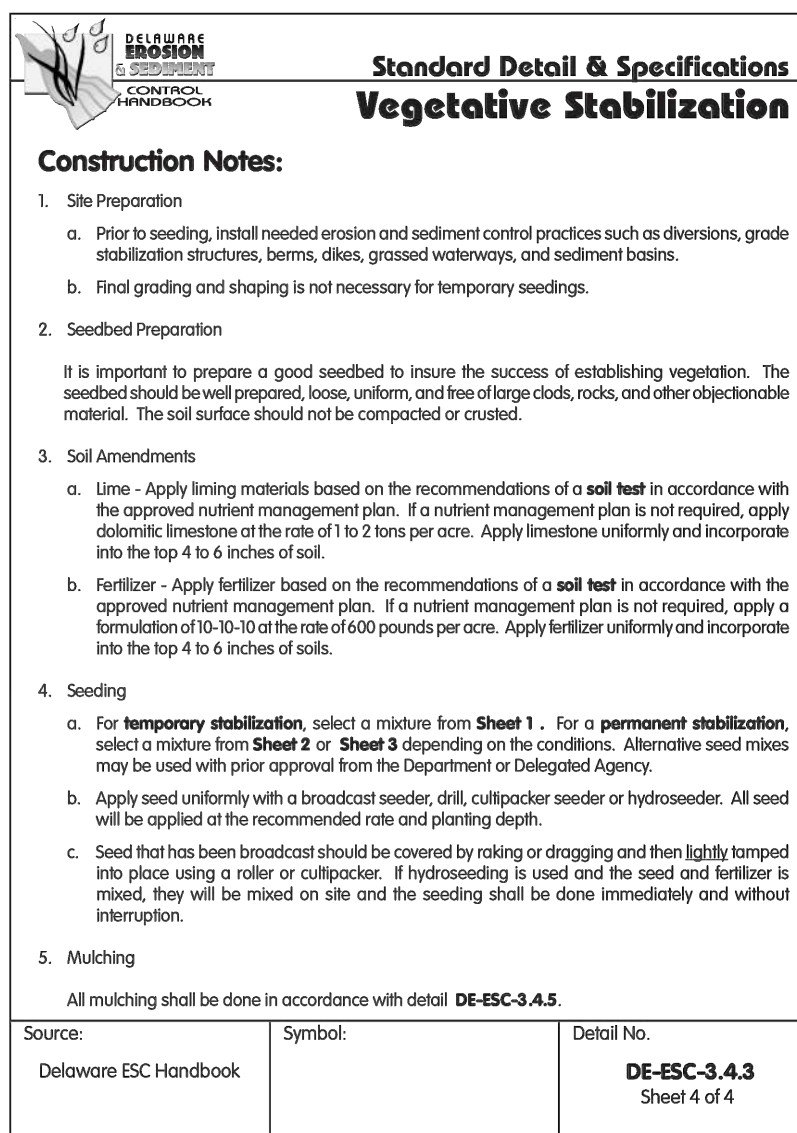


Standard Detail & Specifications
Vegetative Stabilization

Seeding Mixture	Seeding Rate*	Optimum Seeding Dates †	Remarks
1. Certified Seed	100	APR 15 - MAY 15	AP
2. Well Drained Soils	100	APR 15 - MAY 15	AP
3. Heavy Slopes	100	APR 15 - MAY 15	AP
4. Heavy Slopes	100	APR 15 - MAY 15	AP
5. Heavy Slopes	100	APR 15 - MAY 15	AP
6. Heavy Slopes	100	APR 15 - MAY 15	AP
7. Heavy Slopes	100	APR 15 - MAY 15	AP
8. Heavy Slopes	100	APR 15 - MAY 15	AP
9. Heavy Slopes	100	APR 15 - MAY 15	AP
10. Heavy Slopes	100	APR 15 - MAY 15	AP
11. Heavy Slopes	100	APR 15 - MAY 15	AP
12. Heavy Slopes	100	APR 15 - MAY 15	AP
13. Heavy Slopes	100	APR 15 - MAY 15	AP
14. Heavy Slopes	100	APR 15 - MAY 15	AP
15. Heavy Slopes	100	APR 15 - MAY 15	AP
16. Heavy Slopes	100	APR 15 - MAY 15	AP
17. Heavy Slopes	100	APR 15 - MAY 15	AP
18. Heavy Slopes	100	APR 15 - MAY 15	AP
19. Heavy Slopes	100	APR 15 - MAY 15	AP
20. Heavy Slopes	100	APR 15 - MAY 15	AP

PERMANENT VEGETATIVE STABILIZATION

NOT TO SCALE



City of Wilmington Delaware
Department of Public Works

Louis L. Redding City/County Building
800 N. French Street, 6th Floor
Wilmington, DE 19801

D'HUY Engineering, Inc.



D'HUY Engineering, Inc.
1 East Broad Street
Bethlehem, PA, 18018
610-865-3000

PRELIMINARY
NOT FOR
CONSTRUCTION

MANAGEMENT BLOCK

CONTRACT NO.:	
A-E APPROVALS	DATE
DESIGNER	E. HENBEST
CHECKED	C. MURRAY
PROJ. ENG.	E. HENBEST
PROJ. MGR.	C. MURRAY
APPROVED	

CITY OF WILMINGTON
DEPARTMENT OF PUBLIC WORKS

**RODNEY STREET RESERVOIR
DEMOLITION**

Rev.	Date	Description

Sheet Title:
E&S PLAN, DETAILS, AND NOTES

CIVIL
Sheet No.:
3 of 7

CADFILE: G:\Projects\700-799 - Municipal\718 - Wilmington-DE City\718018 - Rodney Reservoir Demolition\CAD\718018 - Rodney Demo.dwg Mar 21, 2023 - 4:56pm

D
C
B
A

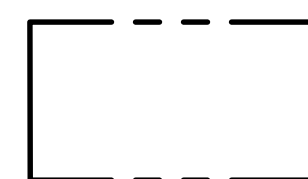

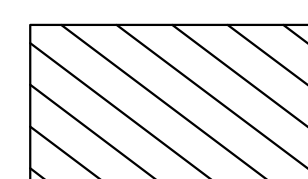
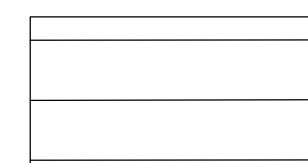
PROPOSED DEMOLITION SEQUENCE:

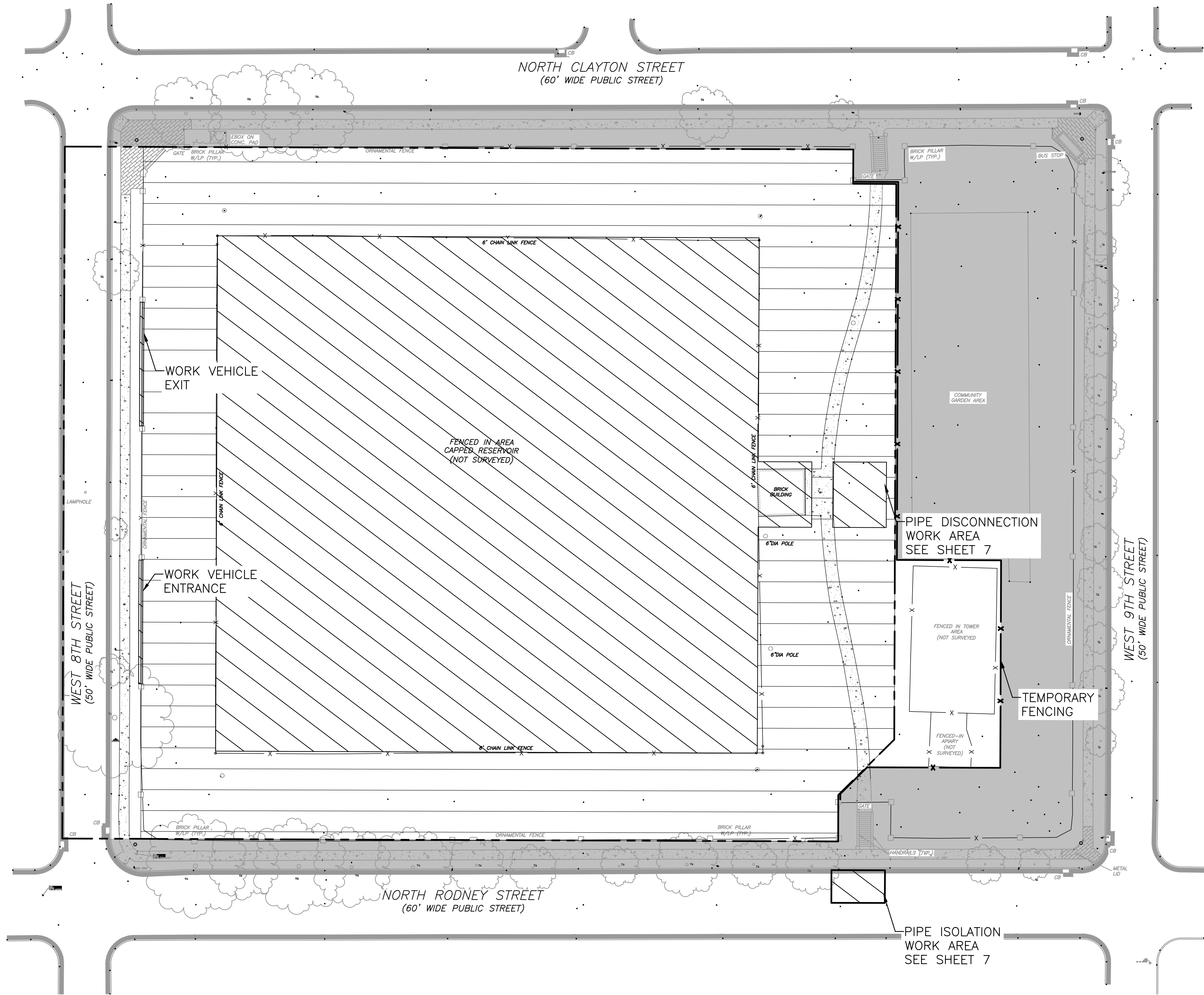
1. INSTALL SITE CONTROLS, INCLUDING TEMPORARY FENCING.
2. CLEAR AND GRUB AREA OF VEGETATION IN WORK AREA. VEGETATION TO BE HAULED AWAY FROM THE SITE.
3. PERFORM PIPING MODIFICATIONS TO DISCONNECT RESERVOIR FROM CITY WATER DISTRIBUTION SYSTEM.
4. STARTING FROM EIGHTH STREET, CREATE AN ENTRANCE TO RESERVOIR AND DEMOLISH ROOF, COLUMNS, AND CENTER WALL.
5. ALL CONCRETE DEBRIS TO BE PROCESSED AND BURIED ONSITE WITHIN FOOTPRINT OF RESERVOIR.
6. STRIP AND STORE TOPSOIL AND OTHER SUITABLE BACKFILL MATERIAL FROM SURROUNDING BERMS.
7. DEMOLISH PERIMETER WALLS OF RESERVOIR AND GATEHOUSE. WALLS AND FOUNDATIONS TO BE REMOVED TO A MINIMUM OF 2 FEET BELOW PROPOSED GRADE.
8. BACKFILL WORK AREA WITH SUITABLE MATERIAL, GRADE AREA, AND COVER WITH TOPSOIL. IMPORT ADDITIONAL SUITABLE MATERIAL AS NEEDED TO ACHIEVE PROPOSED FINISHED GRADE.
9. SEED AND STABILIZE ENTIRE AREA AND PERFORM SITE RESTORATION ACTIVITIES.

DEMOLITION NOTES:

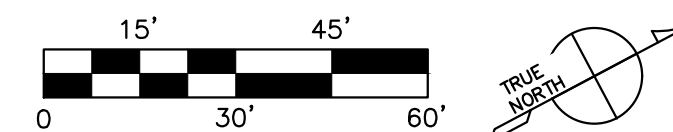
1. CONTRACTOR SHALL ENTER AND EXIT THE PROJECT WORK AREA FROM EIGHTH STREET.
2. CONTRACTOR SHALL REMOVE AND STORE FENCE ALONG EIGHTH STREET TO THE EXTENT REQUIRED FOR ITS OPERATIONS. FENCE SHALL BE REINSTALLED AFTER PROJECT COMPLETION. BRICK COLUMNS TO REMAIN AND BE PROTECTED. ALL OTHER FENCING TO REMAIN.
3. EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE ALONG THE FENCE LINE. CONTROLS SHALL BE REMOVED ONCE PERMANENT STABILIZATION GROWTH HAS BEEN ESTABLISHED.
4. CONTRACTOR SHALL RECYCLE REBAR, PIPING, AND OTHER FERRIC MATERIALS TO THE MAXIMUM EXTENT POSSIBLE.
5. ALL CONCRETE SHALL BE PROCESSED WITH A MUNCHER/PULVERIZER TO A MAXIMUM SIZE OF 12".
6. GARDEN AND RADIO TOWER AREAS TO BE LEFT UNTOUCHED BUT REMAIN ACCESSIBLE DURING DEMOLITION ACTIVITIES BY THE TWO EXISTING STAIRWAYS FROM CLAYTON AND RODNEY STREETS.
7. EXISTING SIDEWALKS ALONG EIGHTH STREET AND SIDEWALK RUNNING BETWEEN THE TWO SETS OF STAIRS BY THE GARDEN AREA SHALL BE REPLACED WITH NEW SIDEWALK.
8. TREES BETWEEN THE SIDEWALK AND STREET TO BE MAINTAINED ALONG RODNEY STREET, CLAYTON STREET, AND NINTH STREET. WHERE POSSIBLE, TREES ALONG EIGHTH STREET SHALL ALSO BE MAINTAINED.
9. LIGHTS ON FENCE COLUMNS TO REMAIN. POLE LIGHTS ON THE INTERIOR TO BE RELOCATED AND REINSTALLED ONSITE.
10. ALLOWABLE WORKING HOURS ARE BETWEEN 7AM AND 5PM.
11. PROVIDE TRAFFIC CONTROL AS REQUIRED ALONG EIGHTH STREET, INCLUDING AT THE INTERSECTIONS OF EIGHTH STREET AND CLAYTON AND RODNEY STREETS.

LEGEND

-  WORK AREA
-  PROTECTED AREA
-  RESERVOIR DEMOLITION AREA
-  EXISTING MATERIAL TO BE USED FOR REGRADING



DEMOLITION SITE PLAN
SCALE: 1"=30'-0"



City of Wilmington Delaware
Department of Public Works

Louis L. Redding City/County Building
800 N. French Street, 6th Floor
Wilmington, DE 19801

D'HUY Engineering, Inc.



D'HUY Engineering, Inc.
1 East Broad Street
Bethlehem, PA, 18018
610-865-3000

PRELIMINARY
NOT FOR
CONSTRUCTION

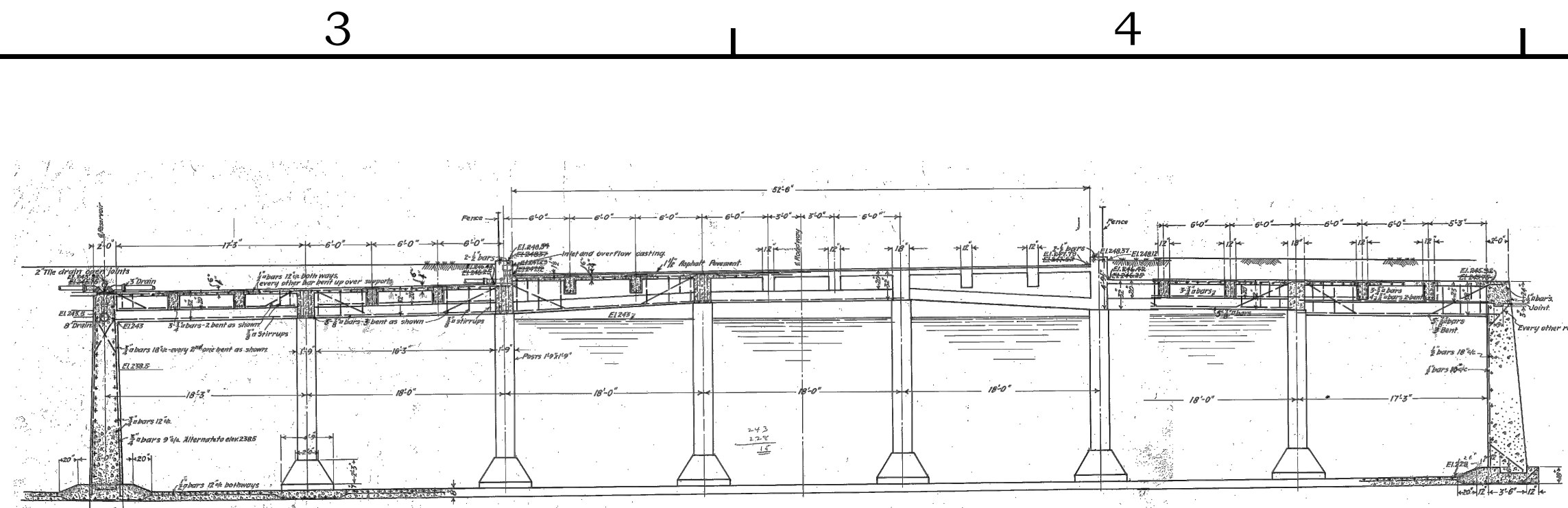
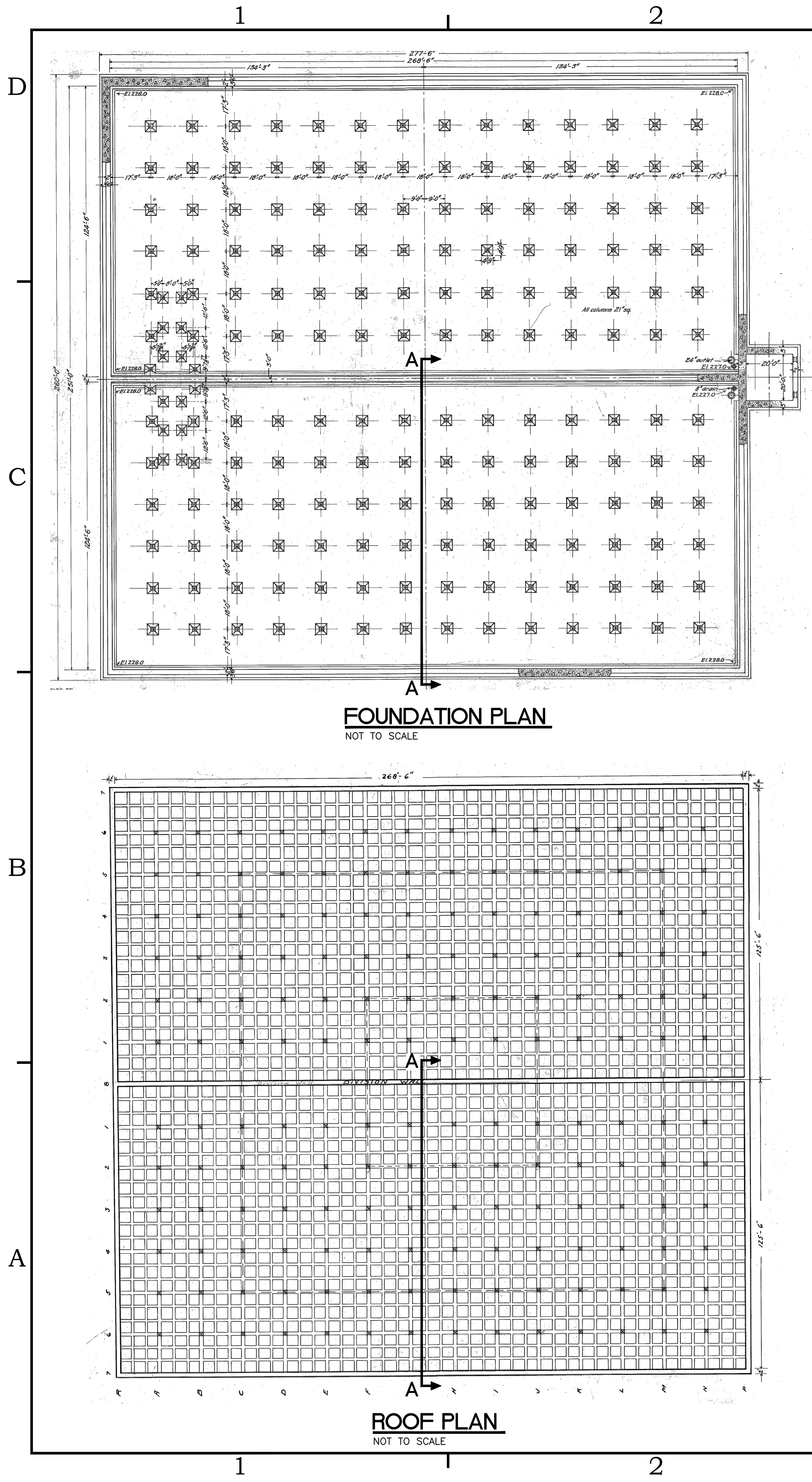
MANAGEMENT BLOCK	
CONTRACT NO.:	
A-E APPROVALS	DATE
DESIGNER	E. HENBEST
CHECKED	C. MURRAY
PROJ. ENG.	E. HENBEST
PROJ. MGR.	C. MURRAY
APPROVED	

CITY OF WILMINGTON
DEPARTMENT OF PUBLIC WORKS

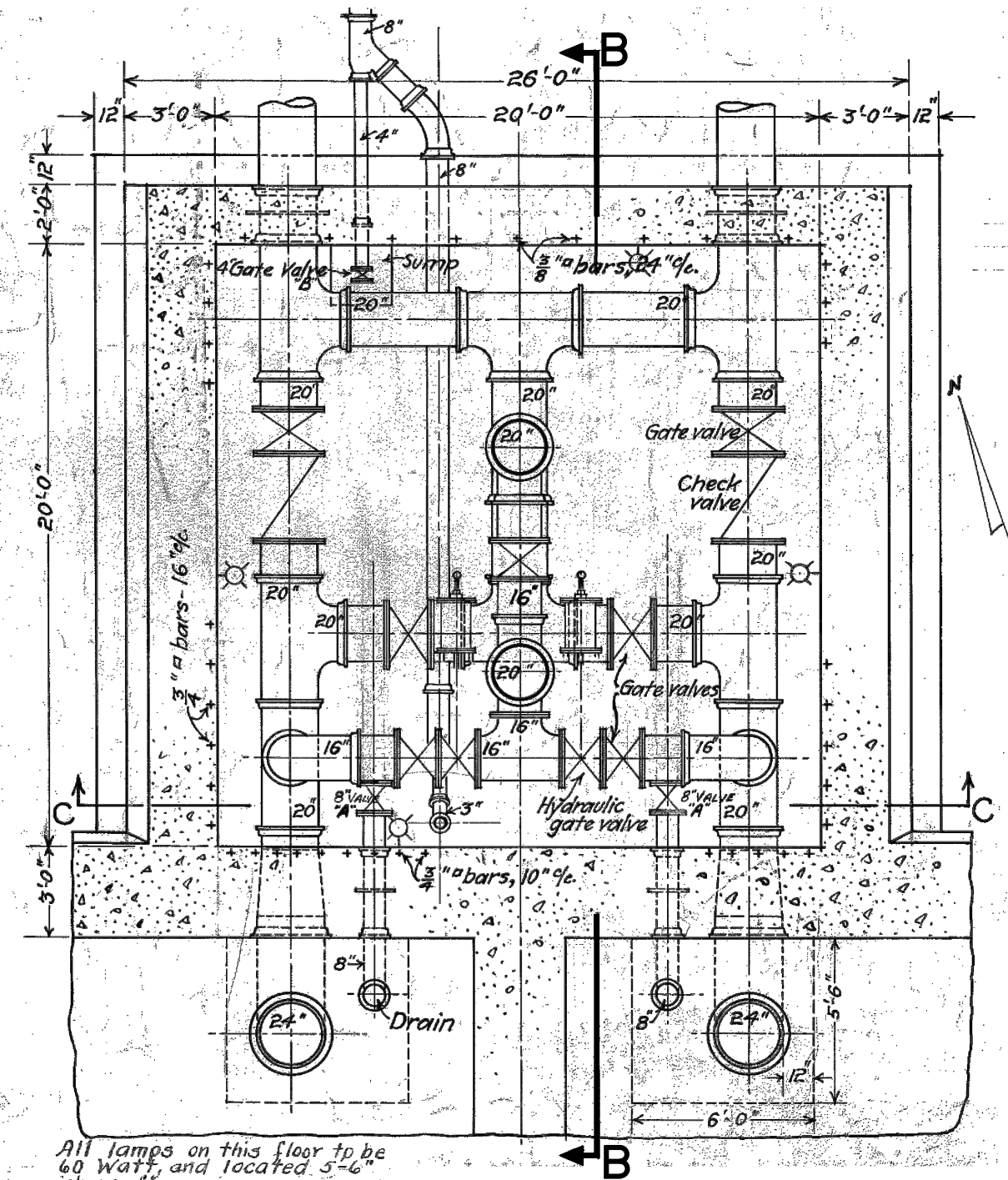
RODNEY STREET RESERVOIR
DEMOLITION

Rev.	Date	Description
Sheet Title: DEMOLITION PLAN AND NOTES		
DEMOLITION		
Sheet No.: 4 of 7		

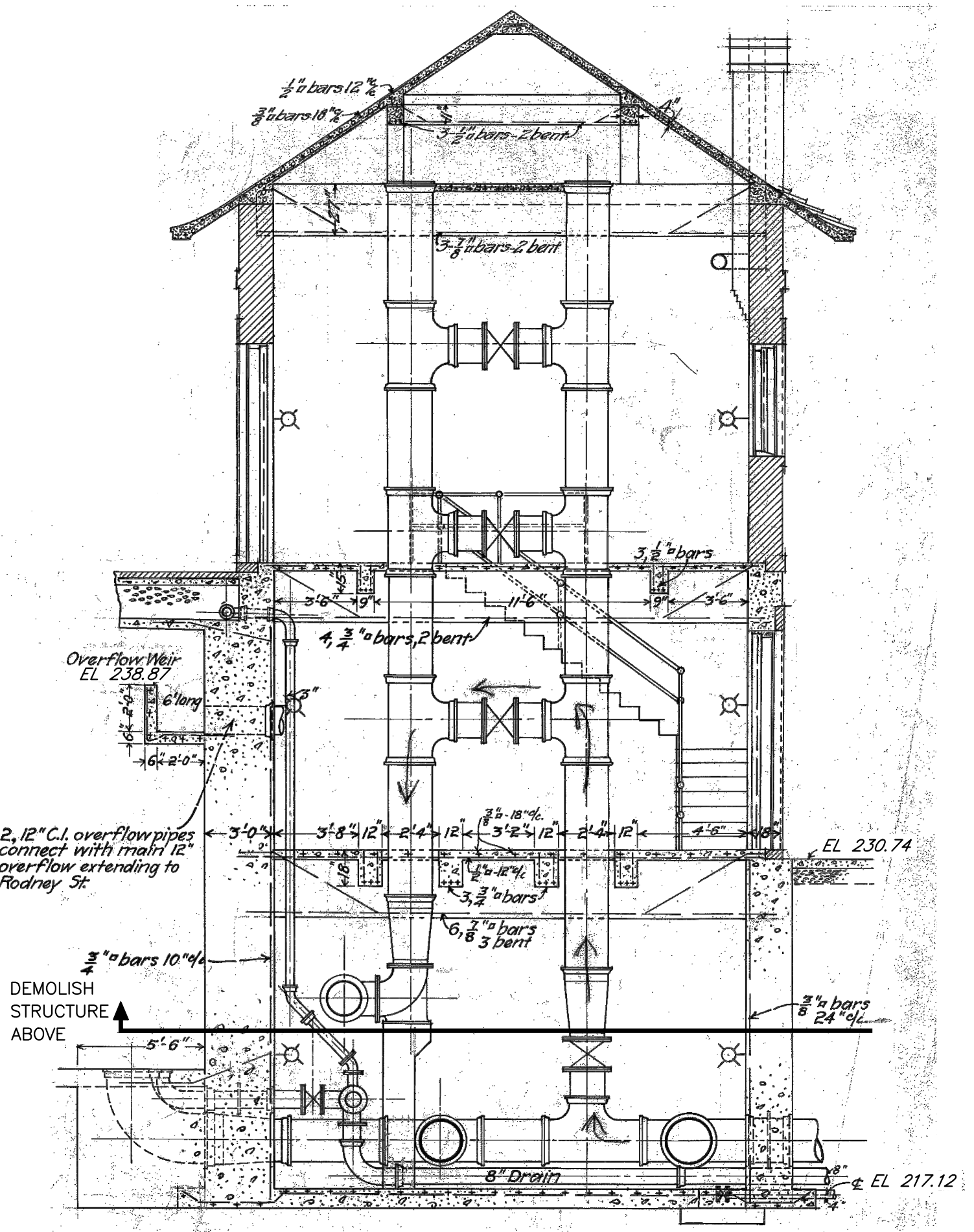
CADFILE: G:\Projects\700-799 - Municipal\718 - Wilmington-DE City\718018 - Rodney Reservoir Demolition\CAD\718018 - Rodney Demo.dwg Mar 21, 2023 - 5:55pm



RESERVOIR SECTION VIEW A-A
NOT TO SCALE



GATE HOUSE PLAN VIEW
NOT TO SCALE



GATE HOUSE SECTION VIEW B-B
NOT TO SCALE

- RESERVOIR AND GATE HOUSE DEMOLITION NOTES:**
- FOR CONSTRUCTION SEQUENCE AND GENERAL DEMOLITION NOTES SEE SHEET 4.
 - REGARDING DEMOLITION MATERIALS:
 - A. ALL PIPING TO BE REMOVED AND RECYCLED.
 - B. ALL MASONRY, CONCRETE, AND ASPHALT PAVING MATERIALS TO BE MANAGED ON SITE.
 - C. ALL OTHER CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF BY CONTRACTOR.
 - PRIOR TO ANY DEMOLITION WORK ON THE GATE HOUSE, CONTRACTORS SHALL DISCONNECT THE RESERVOIR FROM THE CITY DISTRIBUTION SYSTEM. SEE SHEET 7.
 - CONTRACTOR SHALL TEST ALL PIPING TO CONFIRM IT IS NO LONGER IN SERVICE BEFORE DEMOLISHING PIPING.



City of Wilmington Delaware
Department of Public Works

Louis L. Redding City/County Building
800 N. French Street, 6th Floor
Wilmington, DE 19801

D'HUY Engineering, Inc.



D'HUY Engineering, Inc.
1 East Broad Street
Bethlehem, PA, 18018
610-865-3000

PRELIMINARY
NOT FOR
CONSTRUCTION

MANAGEMENT BLOCK	
CONTRACT NO.:	
A-E APPROVALS	DATE
DESIGNER	E. HENBEST
CHECKED	C. MURRAY
PROJ. ENG.	E. HENBEST
PROJ. MGR.	C. MURRAY
APPROVED	

CITY OF WILMINGTON
DEPARTMENT OF PUBLIC WORKS

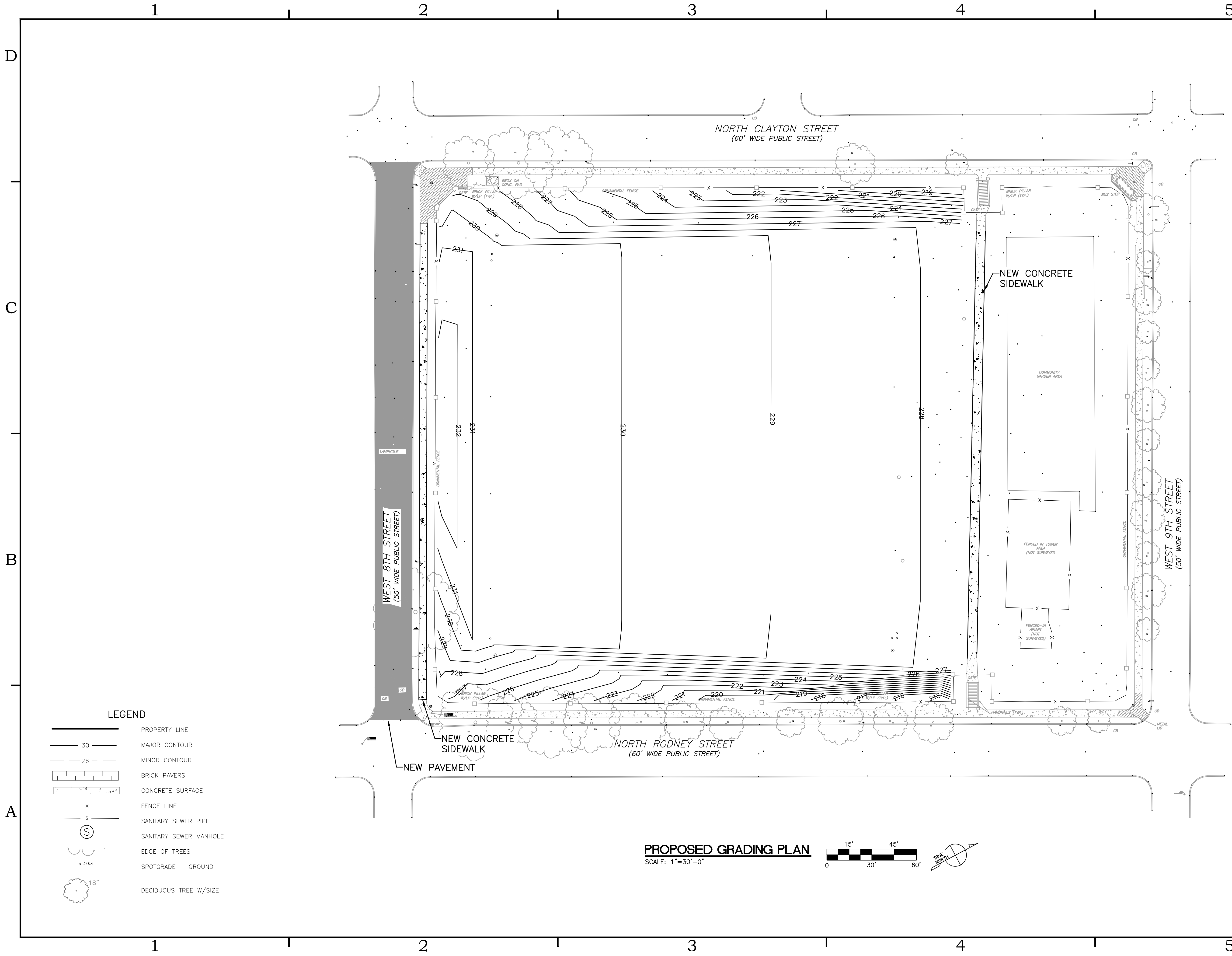
RODNEY STREET RESERVOIR
DEMOLITION

Rev.	Date	Description

Sheet Title:
DEMOLITION SECTIONS

Sheet No.:
5 of 7

CADFILE: G:\Projects\700-799 - Municipal\718 - Wilmington-DE City\718018 - Rodney Reservoir Demolition\CAD\718018 - Rodney Demo.dwg Mar 21, 2023 - 5:13pm



City of Wilmington Delaware
Department of Public Works

Louis L. Redding City/County Building
800 N. French Street, 6th Floor
Wilmington, DE 19801

D'HUY Engineering, Inc.



D'HUY Engineering, Inc.
1 East Broad Street
Bethlehem, PA, 18018
610-865-3000

PRELIMINARY
NOT FOR
CONSTRUCTION

MANAGEMENT BLOCK	
CONTRACT NO.:	
A-E APPROVALS	DATE
DESIGNER	E. HENBEST
CHECKED	C. MURRAY
PROJ. ENG.	E. HENBEST
PROJ. MGR.	C. MURRAY
APPROVED	

CITY OF WILMINGTON
DEPARTMENT OF PUBLIC WORKS

RODNEY STREET RESERVOIR
DEMOLITION

Rev.	Date	Description

Sheet Title:
PROPOSED GRADING PLAN
CIVIL

Sheet No.:
6 of 7