

# Baltimore City Department of Public Works Overview

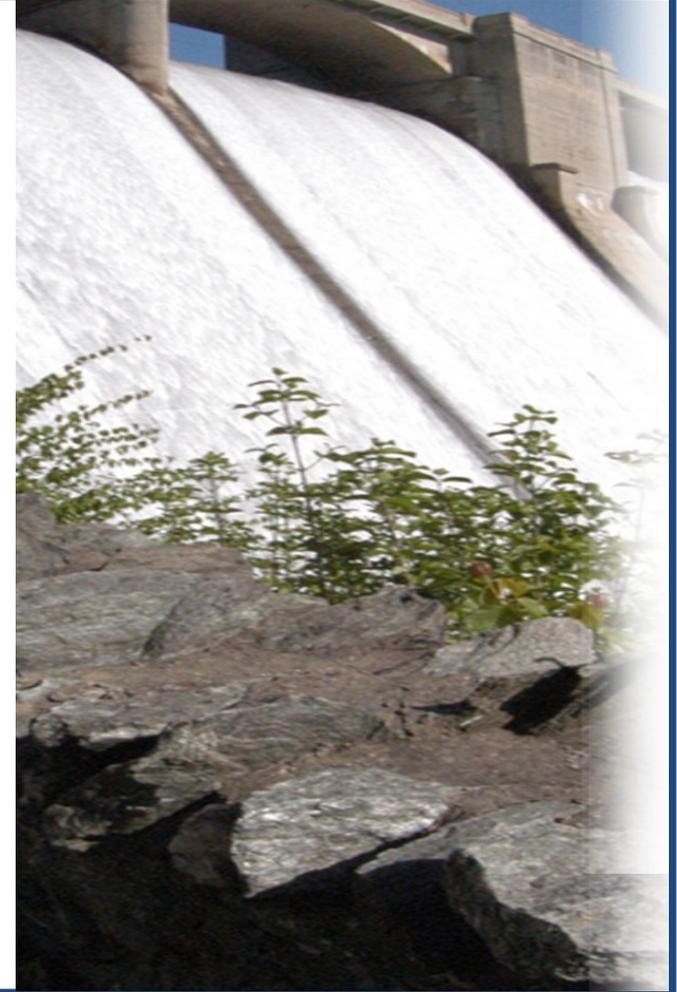


BALTIMORE CITY

# DPW

DEPARTMENT OF PUBLIC WORKS

RUDOLPH S. CHOW, P. E.  
DIRECTOR



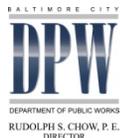
STEPHANIE  
RAWLINGS-BLAKE  
MAYOR



# Water Contract No. 1211, Ashburton Reservoir Tanks

## EPA's Safe Drinking Water Act Requirements (LT2ESWTR)

- **Design Notice to Proceed: May 28, 2014**
- **30 Percent Design Meeting: Oct. 28, 2014**
- **Design Completion: March 29, 2016**
- **Bid Phase Completion: September 13, 2016**
- **Construction NTP: September 14, 2016**
- **Construction Completion: December 2018**



**Baltimore City Department of Public Works**



# Water Contract No. 1211, Ashburton Reservoir Tanks



ZONE 2 TANK STUDY  
CIRCULAR TANKS, HANLON PARK ONLY  
SCALE: NOT TO SCALE



STEPHANIE RAWLINGS-BLAKE  
MAYOR



DEPARTMENT OF PUBLIC WORKS  
RUDOLPH S. CHOW, P. E.  
DIRECTOR

VALENTINA I. DRWUOMA  
BUREAU HEAD



KUMASI YINES  
ACTING BUREAU HEAD

# Water Contract No. 1211, Ashburton Reservoir Tanks

## Ashburton Reservoir Aeration

- Fountain Systems not sufficient for maintaining complete aeration of the Reservoir
- Submerged Bubble Diffuser System
  - More effective at maintaining oxygen levels
  - Bubbles are difficult to observe on the surface
  - Can be operated intermittently or at night
- Recommend utilizing both a Fountain System and a Submerged Bubble Diffuser



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**Baltimore City Department of Public Works**



VALENTINA I. ODIWOOMA  
BUREAU HEAD

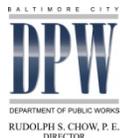


KUMASI YINES  
ACTING BUREAU HEAD

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## Entrance Plaza, Relocated Pavilion and Playground



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CONCEPT A ENTRANCE PLAZA



CONCEPT B ENTRANCE PLAZA



SCULPTED LAND FORM



OVERLOOK DECK



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MAYOR



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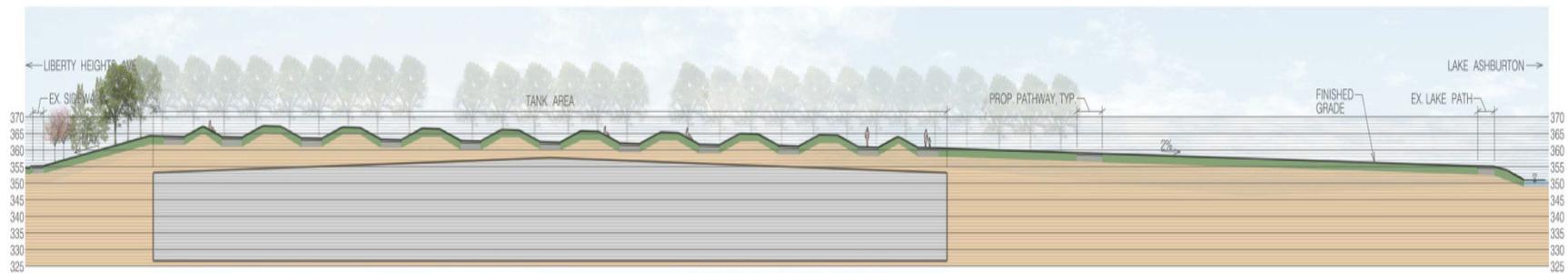


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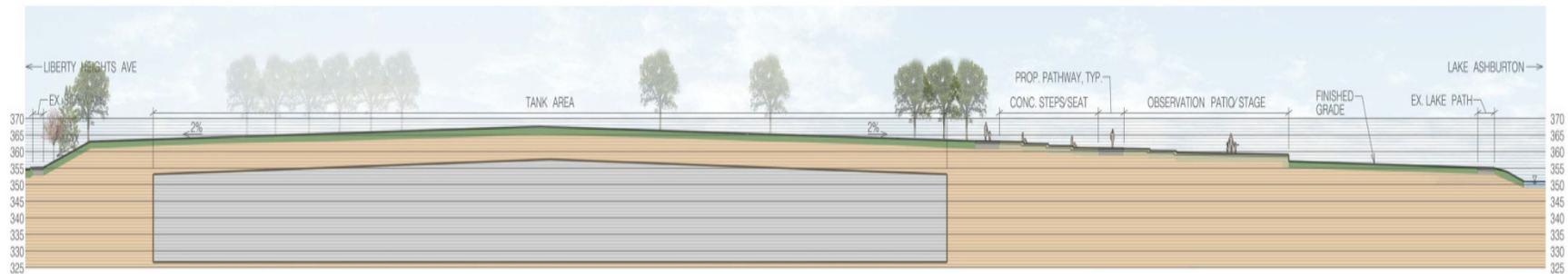


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# Water Contract No. 1211, Ashburton Reservoir Tanks



**SCHEME A - TANK SECTION**  
SCALE: 1" = 30'



**SCHEME B - TANK SECTION**  
SCALE: 1" = 30'

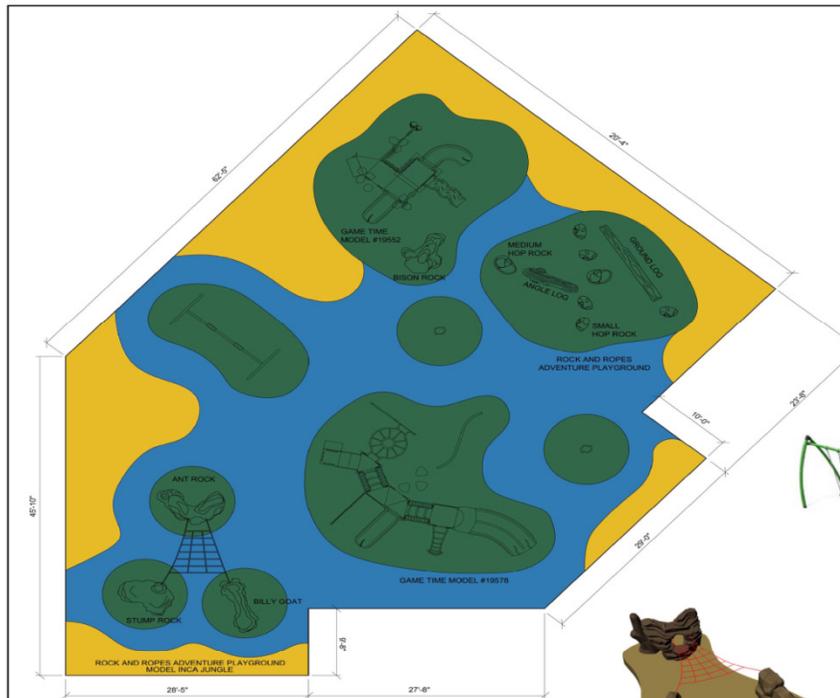


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# Water Contract No. 1211, Ashburton Reservoir Tanks

REVISIONS		
NO.	DESCRIPTION	DATE BY



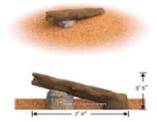
Deck: [Color swatches]  
Metal: [Color swatches]  
Plastic: [Color swatches]

Model: 19552  
Site Size: 27' 6" x 28' 4"  
Fall Height: 2' 6"  
Age Group(s): 3 to 12 Years  
Number of Children: 30-35

GAME TIME MODEL #19552  
COLOR FUN



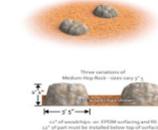
BISON ROCK



ANGLE ROCK



GROUND LOG



MEDIUM HOP ROCK



SMALL HOP ROCK

ROCKS AND ROPES ADVENTURE PLAYGROUNDS



ROCKS AND ROPES ADVENTURE PLAYGROUNDS  
INCA JUNGLE



Deck: HDPE [Color swatches]  
Metal: [Color swatches]  
Plastic: [Color swatches]

Model: 19578  
Site Size: 42' 2" x 60' 8"  
Fall Height: 6'  
Age Group(s): 3 to 12 Years  
Number of Children: 50-55

GAME TIME MODEL #19578  
GET FIT



GAME TIME IMPAX  
POURED IN PLACE RUBER

CITY OF BALTIMORE  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF WATER AND WASTEWATER  
WATER AND WASTEWATER ENGINEERING DIVISION  
WATER CONTRACT NO. 1211  
ASHBURTON RESERVOIR ZONE 2 TANKS DESIGN

LANDSCAPE ARCHITECT  
PLAY EQUIPMENT OPTION 1

SCALE: AS SHOWN DATE: 10/09/2014  
DRAWING NO: L4110 SHEET: 45 OF 72

DRAWN BY: SC  
DESIGNED BY: TD/SZ  
REVIEWED BY: LT

PROFESSIONAL CERTIFICATION  
LICENSE NO. \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

30% SUBMISSION  
NOT FOR  
CONSTRUCTION

HAZEN AND SAWYER  
A Joint Venture  
AECOM



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BUREAU HEAD

KUNASI VINES  
ACTING BUREAU HEAD

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



COLUMBIA CASCADE



GAMETIME



UNION LAND

FITNESS EQUIPMENT

DRAWN BY: SC  
 DESIGNED BY: TDSZ  
 REVIEWED BY: LT

PROFESSIONAL CERTIFICATION  
PROFESSIONAL CERTIFICATION AND LICENSE INFORMATION IS PROVIDED BY THE USER. THE USER IS RESPONSIBLE FOR VERIFYING THE CURRENT STATUS OF THE LICENSE AND EXPIRATION DATE.

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 NOT FOR  
 CONSTRUCTION

**HAZEN AND SAWYER** **AECOM**  
 A Joint Venture

CITY OF BALTIMORE  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF WATER AND WASTEWATER  
 WATER AND WASTEWATER ENGINEERING DIVISION  
 WATER CONTRACT NO. 1211  
 ASHBURTON RESERVOIR ZONE 2 TANKS DESIGN  
 LANDSCAPE ARCHITECT  
 FITNESS EQUIPMENT OPTIONS  
 SCALE: AS SHOWN DATE: 10/14/2014  
 DRAWING NO. LAST1 SHEET 47 OF 72



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REVISIONS			
NO.	DESCRIPTION	DATE	BY



PRUNUS SUBHIRTELLA 'AUTUMNALIS' / HIGAN CHERRY



PRUNUS X YEDOENSIS / YOSHINO CHERRY



AESCULUS X CARNEA 'BRIOTII' / HORSECHESTNUT



ACER RUBRUM 'OCTOBER GLORY' / OCTOBER GLORY RED MAPLE



ACER RUBRUM 'RED SUNSET' / RED SUNSET RED MAPLE



GLEDITSIA TRIACANTHOS 'SKYLINE' / SKYLINE HONEY LOCUST



ULMUS AMERICANA 'VALLEY FORGE' / VALLEY FORGE AMERICAN ELM



QUERCUS RUBRA / RED OAK



QUERCUS BICOLOR / SWAMP WHITE OAK



QUERCUS PHELLOS / WILLOW OAK



PICEA ABIES / NORWAY SPRUCE



PINUS STROBUS / EASTERN WHITE PINE

DRAWN BY: SC  
DESIGNED BY: TD/SZ  
REVIEWED BY: LT

RECOMMENDED TREE SPECIES

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH ALL CITY AND STATE REQUIREMENTS.  
LICENSEE NO. \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

30% SUBMISSION  
NOT FOR  
CONSTRUCTION

HAZEN AND SAWYER AECOM  
A Joint Venture

CITY OF BALTIMORE  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF WATER AND WASTEWATER  
WATER AND WASTEWATER ENGINEERING DIVISION  
WATER CONTRACT NO. 1211  
ASHBURTON RESERVOIR ZONE 2 TANKS DESIGN  
LANDSCAPE ARCHITECT  
RECOMMENDED TREE SPECIES  
SCALE: AS SHOWN DATE: 10/14/2014  
DRAWING NO. LA006 SHEET 42 OF 72



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Questions? Comments?



Ashburton Lake at Hanlon Park



STEPHANIE  
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