Beaver Community Swimming Pool
Facility Conditions Assessment & Feasibility Study

Prepared for: Borough of Beaver
Beaver County, PA

Prepared by: Environmental Planning & Design, LLC
Aquatic Facility Design, Inc.
Lennon, Smith, Souleret Engineering, Inc.

FEBRUARY 2011
Borough of Beaver, Beaver County
RESOLUTION NO. XX-XX-2011
A RESOLUTION OF THE BOROUGH OF
BEAVER, BEAVER COUNTY
ADOPTING FEASIBILITY STUDIES

WHEREAS, the Pennsylvania Municipalities Planning Code authorizes the Borough Council of Beaver Borough to prepare Feasibility Studies, hereafter referred to as the Studies, addressing the potential for construction of an indoor recreation center as well as potential renovation of the Borough’s Community swimming pool and bathhouse.

WHEREAS, the Borough’s appointed Council has reviewed and recommended the approval of each Study that addresses community recreation goals, existing recreation conditions, and the potential for future indoor recreation and Community swimming pool facilities; and

WHEREAS, completion of the Studies was done in accordance with the PA DCNR Grant Agreement; and

WHEREAS, the project expenditures have been made and were in accordance with the Grant Agreement; and

WHEREAS, the Studies and related materials are acceptable to the Borough; and

WHEREAS, the Studies and related materials will be used to guide future recreation and conservation decisions.
NOW, THEREFORE, be it resolved by the Borough Council of the Borough of Beaver, Beaver County that the Studies as attached hereto be adopted.

RESOLVED AND ADOPTED this 21st day of February, 2011.

ATTEST
BOROUGH OF BEAVER, BEAVER COUNTY

_________________________
Borough Manager/Ex-Officio

_________________________
Joe Zagorski
President, Borough Council
BEAVER BOROUGH FEASIBILITY STUDY:
POOL & BATHHOUSE FACILITY

EXECUTIVE SUMMARY

INTRODUCTION / PURPOSE
The Beaver Borough Pool and Bathhouse facility has provided swimming and recreation opportunities to its residents for many years. As a result of natural wear and tear over the years and as well as, new building code regulations and ADA accessibility standards, the pool and bathhouse facility would need additional repairs and renovations. Additionally, as a result of the increased demand for a greater diversity of swimming pool and indoor related functions / activities for all ages, this facility would provide opportunity for these activities without the cost burden of constructing a new facility.

- Assess the nature, scale and physical issues associated with the existing bathhouse building, community swimming pool area and other site related problems.
- Evaluate the economic impacts associated with renovating/enhancing the existing bathhouse building, community swimming pool area and other site related enhancements.
- Outline the associated goals/recommendations needed for code compliance, accessibility, maintenance, and operation associated with the bathhouse and pool facility construction and programming.

PUBLIC PARTICIPATION
Over the course of the project, the community residents were able to contribute their thoughts about the positive and challenging aspects of renovating the Beaver Borough community swimming pool and bathhouse. Four (4) methods for collecting community feedback were provided and included Study Committee Meetings, a Resident Survey, Key Person Interviews and Public Meetings.
While there were understandably varied viewpoints regarding the amenities a potential community swimming pool and bathhouse should provide, the general consensus gained from the community was that if a facility were to be renovated it should include amenities that are typically associated with a pool and bathhouse facility. This shall include maintaining the current character of the existing bathhouse and pool facility; maintaining the existing amenities such as the diving board, concessions, pool deck, etc; and incorporating additional updated modern amenities such as, slides, lap lanes, shade structures, etc.

BATHHOUSE ASSESSMENT
Given the buildings age, it was found to be in good condition. Minor cracking was observed above some of the door and window lintels which is common for the age of the building. Minor cracks were also observed at the south corners of the building indicating minor building settlement. Both of these issues are minor and can be repaired. Overall, the building appears structurally sound and most likely could be renovated to meet current code compliance and ADA accessibility requirements. Furthermore, it is likely that additional renovations could be completed to improve the efficiency of current operations. The extent of any renovations would be dependent on the budget.
COMMUNITY SWIMMING POOL ASSESSMENT

A. Main Pool
The Main Pool, believed constructed in the early 1930's, is of steel reinforced concrete with a painted finish. It is a rectangular configuration beginning at a depth of approximately 3 feet in the shallow end and terminating at a depth of approximately 9 feet in the deep well. The pool consists of approximately 11,265 sq. ft. of surface area. The pool has an underground recirculation piping system consisting of an overflow gutter system, a sidewall filtered water return system, and a single deep well drain intake box. The underground piping system appears to be a combination of PVC and steel piping. The Pool Structure is non-ADA Compliant as a stand alone structure. No ADA device, such as a handicapped chair lift, is present on site for patron use.

There are no competition style race lanes. A single rope line divides the shallow and deep areas of the pool. See Fig. 1. There is a series of stainless steel ladders for access and 5 fixed in place lifeguard platforms. A poured concrete deck surrounds the pool. A single dive platform is present at the end wall of the deep well. See Fig. 2. No additional play type or other general recreational amenities exist. The patron usage load for the Main Pool is currently 552.

B. Wading Pool
The Wading Pool is believed to have also been constructed in the early 1930’s. It is constructed of steel reinforced concrete. It is of a square configuration. The pool consists of approximately 601 sq. ft. of surface area. The pool has an underground recirculation piping system. Underground piping appears to be a combination of PVC and steel composition. A poured concrete deck surrounds the pool. The pool structure is ADA COMPLIANT as a stand alone structure. No amenities exist. See Fig. 5. The patron user load for the Wading Pool is currently 40.
BATHHOUSE CONCEPT & COSTS

C. Existing Bathhouse

D. Proposed Bathhouse Renovations including
   ADA Parking Lot & Accessible Route
E. Estimated Minimum Short Term Solution to Meet ADA Compliance
*Includes improvements for ADA accessible parking, an access route to bathhouse, circulation throughout the bathhouse and restroom/changing facilities.

<table>
<thead>
<tr>
<th>TOTAL BATHHOUSE RENOVATIONS INCLUDING ADA PARKING LOT &amp; ACCESSIBLE ROUTE COSTS</th>
<th>$581,175.00</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ESTIMATED MINIMUM SHORT TERM SOLUTION TO MEET ADA COMPLIANCE COSTS</th>
<th>$300,000.00</th>
</tr>
</thead>
</table>

COMMUNITY SWIMMING POOL CONCEPT

F. Community Swimming Pool Renovations
TOTAL COMMUNITY SWIMMING POOL RENOVATION COSTS

$1,383,800.00
G. Community Swimming Pool Renovations with New Splash Pad

| TOTAL COMMUNITY SWIMMING POOL RENOVATION WITH NEW SPLASH PAD COSTS | $1,959,316.00 |

H. Estimated Minimum Short Term Solution to Meet ADA Compliance
*Includes the installation of an ADA lift for access into the existing swimming pool.

| ESTIMATED MINIMUM SHORT TERM SOLUTION TO MEET ADA COMPLIANCE COSTS | $12,000.00 |

DEVELOPMENT PROFORMA

Scenario 1 – Bathhouse & Main Pool Development

| Bathhouse | $513,675 |
| Site       | $67,500  |
| Community Swimming Pool | $1,383,800 |
| Principal | $1,964,975 |
| 15 Year bond | 3% Bond rate |

($164,599)

| Total debt service | $2,468,989 |
| Total households   | 2,100      |

($78) Total annual household cost
Scenario 2 – Bathhouse, Main Pool & Splash Pad Development

$513,675     Bathhouse
$67,500      Site
$1,959,316   Community Swimming Pool (includes splash pad)

$2,540,491   Principal
15          Year bond
3%          Bond rate

($212,808) Annual debt service

$2,753,299 Total debt service
2,100       Total households

($101) Total annual household cost

Scenario 3 – Estimated Minimum Short Term Solution to meet ADA Compliance

$232,500     Bathhouse
$67,500      Site
$12,000      Community Swimming Pool ADA Lift

$312,000     Principal
15          Year bond
3%          Bond rate

($26,135) Annual debt service

$338,135 Total debt service
2,100       Total households

($12) Total annual household cost

GOALS / RECOMMENDATIONS

I. Bathhouse
   • Provide required ADA parking spaces in the location of the existing parking.
• All doorway openings provided along the ADA accessible route and restrooms must have 32” clear space thru the doorway opening.

• An ADA compliant ramp should be provided at the main and children’s pool entrances, men’s and women’s restrooms/locker rooms, and from the parking lot to the main entrance to the building.

• Existing handrails located on the steps of the pool entrance side of the building will need replaced to meet the ADA requirements.

• The location of the drinking fountain should be easily accessible and requires the least amount of plumbing and meet ADA compliance.

• The interior/exterior restrooms / locker rooms should meet all ADA compliant requirements. This includes upgrades to water closets, toilet stalls, urinals, lavatories and mirrors, shower stalls, handrails, grab bars, tub and shower seats, bench seating area, etc.

• At the locations of the proposed ADA ramp, a detectable warning surface will need to be provided.

• Signage will be required at the location of the ADA entrance and the ADA restroom facilities.

• Provide an area of the required size at the outdoor bleacher locations for both the men’s and women’s area.

J. Community Swimming Pool
• An additional core boring analysis of the pool basin is recommended to better assess the integrity of the concrete structure and to better identify the actual extent of necessary repairs/replacement.

• Based upon initial observations, the concrete structure of the pool is in a state of advanced structural decay. A rehabilitation of the pool, as well as, the decking and recirculation systems does not appear to be feasible. As per these observations, replacement of the Main Pool is recommended.
• Provide equal opportunities for educational, social, and recreational types of programs for all age groups and activity levels.
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## APPENDICES

APPENDIX A: RESIDENT SURVEY

APPENDIX B: ADA FIGURES

APPENDIX C: RENOVATED POOL FEATURES
Acknowledgements:

Funders
This project has been funded in part by a grant from the Community Conservation Partnerships Program, Keystone Recreation, Park and Conservation Fund, under the administration of the Pennsylvania Department of Conservation and Natural Resources, Bureau of Recreation and Conservation Grant #BRC-TAG-13.3-457.

Additional funding has been made available from the PA Department of Community and Economic Development and U.S. Department of Housing and Urban Development.

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Beaver County Representative
Rocco Bianco
I. Introduction and Purpose

The Beaver Borough Community Pool and Bathhouse has provided swimming and recreation opportunities to its residents since 1933. As a result of natural wear and tear over the years as well as new building code regulations and ADA accessibility standards, the pool and bathhouse facility will need repairs and renovations. Additionally, as a result of the increased demand for a greater diversity of swimming pool and aquatic related functions / activities for all ages, this facility should also provide opportunity for these activities without the cost burden of constructing a new facility.

- Assess the nature, scale and physical issues associated with the existing bathhouse building, community swimming pool area and other site related problems.

- Evaluate the economic impacts associated with renovating/enhancing the existing bathhouse building, community swimming pool area and other site related enhancements.

- Outline the associated goals/recommendations needed for code compliance, accessibility, maintenance, and operation associated with the bathhouse and pool facility construction and programming.
II. Public Participation

Over the course of the project, the community residents were able to contribute their thoughts about the positive and challenging aspects of renovating the Beaver Borough community swimming pool and bathhouse. Four (4) methods for collecting community feedback were provided and included Study Committee Meetings, a Resident Survey, Key Person Interviews and Public Meetings.

A. Study Committee Review Meetings

The EPD Planning Team met regularly with a Study Committee composed of residents and elected officials. The purpose of the meetings was to discuss roles and responsibilities, initial thoughts, concerns and visions regarding the Bathhouse and Community Swimming Pool, and ultimately to establish the initial goals and objectives regarding the feasibility study outcomes. The goals and objectives recommended by the Study Committee served as the foundation of planning/conceptual design activities and were continuously refined as new facts were revealed and new ideas emerged. The Study Committee Meetings were also held to review work completed to date, work through and build consensus regarding planning issues, and discuss future planning schedules, directions and activities. All Study Committee Meetings were open to the general Public.

B. Community Survey Response Summary

The EPD Planning Team worked with the Study Committee early on in the project to develop a Resident Survey. The survey included questions pertaining to the respondent’s general demographic information as well as perceptions and desires regarding potential renovations to the community swimming pool and bathhouse. Surveys were distributed to all Borough households through the Borough’s Newsletter.

Over 125 completed surveys were received, which represented 294 individuals, 48% of which are male and 52% female. Additionally, of the represented respondents, 19% were children age 0-19, 16% adults age 20-39, 41% adults age 40-64, and 24% adults age 65 and older. A summary of the results pertaining to the Community Swimming Pool are outlined below, and complete results can be found in Appendix A.

1.) When asked to rank the importance of incorporating various amenities into a potential pool renovation, with 1=Very Important; 2=Important; 3=Somewhat Important; 4=No Opinion; 5=Not Important, there was clear consensus among respondents that the most important features included a leisure pool for family swimming, zero depth entry, locker room facilities, a concessions area and an extra wide sunbathing deck.
2.) When asked whether or not a renovated Community Swimming Pool should be promoted/marketed to non-school district users, 60% of respondents said that the Community Pool should remain “exclusive” to Beaver Area School District residents only, while 40% felt that it could be marketed to a larger area.

3.) Any potential improvements to the Community Swimming Pool and/or Bathhouse could be financed through a variety of means. Residents were asked to indicate their preferred method for the Borough to pursue financing the potential renovation/replacement of the Community Swimming Pool by ranking six methods with #1 being the most desired and #6 being the least desired method. Based upon a composite ranking, foundation grants and private donations were determined to be the most desirable funding methods, followed by State and Federal grants.

4.) Finally, residents were asked how much they would be willing to pay for an annual membership to the potential renovated/replaced Community Swimming Pool. These fees would help finance the construction/renovation and operation of the Community Swimming Pool. 72% of respondents said that they would be willing to pay the lowest listed annual fee of $60 for an individual and $210 for a family of (4). This is roughly equivalent to current pool membership rates.

C. **Key Person Interview Summary**

In conjunction with the DCNR Grant requirements, the EPD Planning Team worked with the Study Committee to identify a group of “key persons”, or stakeholders, who could potentially provide additional insights/information regarding the potential renovation/replacement of the existing Community Swimming Pool and Bathhouse. The identified individuals represent a “cross-section” of the Beaver community, and include elderly residents, families, youth athletics, youth programs, business owners, etc.

The EPD Planning Team conducted and facilitated more than fifteen (15) stakeholder interviews. These phone interviews were confidentially completed and were based upon a series of questions designed to:

- define opportunities and challenges to potential renovations;
- gauge the importance of maintaining the current Community Swimming Pool and Bathhouse character in any new/renovated facility;
- identify existing Community Swimming Pool amenities that are associated with the identity of the pool and that should be retained in any new design;
- determine any new amenities that should be included in a renovated Bathhouse; and to
• discuss potential funding strategies that may be acceptable to the community for any
development/improvement costs.

The interviews were conducted over the course of several weeks, and given the diversity of
stakeholders who participated in the interview process, one might expect a great divergence
of opinion. Surprisingly, several common themes emerged regarding specific subject matter.
The following summary report attempts to capture those common themes and to present
the interview findings without judgment. The summary includes the following:

1.) **Current Community Swimming Pool and Bathhouse Character**

The EPD Planning Team informed the “key persons” that based upon assessments of
the current condition of the Community Swimming Pool and Bathhouse both require
significant investment to meet current standards. While the pool has been
maintained in good condition well beyond its normal life expectancy, it would
appear that the pool walls and bottom should be completely replaced. Additionally,
while the Bathhouse structure is in great condition, it does not currently meet any
federal requirements for universal accessibility, as per the Americans with
Disabilities Act (ADA), and requires significant renovation to meet these standards.
In light of these necessary improvements, there was an overwhelming consensus
among those interviewed that the existing character of both the Community
Swimming Pool and the Bathhouse were extremely important to maintain with any
new and/or renovated facilities. Both facilities were constructed during the Great
Depression as a result of the Works Projects Administration (WPA), and as many
stated, “… they’re Beaver.”

In light of the findings that the Community Swimming Pool would need to be
completely replaced, individuals were asked what the most important features of the
current pool are that should be incorporated into a new facility. There was consensus
that many wanted to see the diving boards, separate wading pool area and
concessions remain. However, some individuals did acknowledge that removing the
diving boards may reduce liability issues/concerns, and should at least be considered
depending upon overall costs of construction/operation of a new facility. In addition,
many individuals commented that they would like to see a “zero entry” area and
water slides incorporated into the new pool facility.

With regards to the Bathhouse, interviewees unanimously agreed that the building
needed to be renovated to meet ADA standards, including the addition of
handicapped accessible parking in close proximity to the building. There was also a
clear majority that felt the building’s exterior should be preserved and that any
necessary addition should complement the existing buildings current architectural
class. The interior character was less important and individuals generally agreed
that the interior facilities should be updated and an important element to include would be a family friendly restroom/changing area. There were, however, a few individuals who felt that a new building should be constructed instead because it was important for Beaver to be “… one step ahead…” of other municipalities.

2.) **Potential Community Swimming Pool Funding and Management Strategies**

When asked about potential funding strategies to finance the construction of a new Community Swimming Pool Facility, there was consensus among interviewees that some form of tax based financing would most likely be required. There was also consensus that although the Borough should exhaust traditional non-tax based financing options for construction, such as grants and private donations, the majority of interviewees stated that they would be willing to accept a reasonable tax increase to provide any gap financing required. Once constructed however, there was consensus that the maintenance and operating expenses should be covered by admission and membership fees only.

Individuals also agreed that the Borough should maintain management responsibilities of any new pool facility due to the Borough’s “exceptional care of the current facility”, as demonstrated by its current condition and age.

D. **Public Meetings**

As previously mentioned, Study Committee Meetings were open to the general public, and members of the community were allowed to participate and voice their thoughts/concerns during those meeting. The first publicized Public Meeting was conducted to present background information and initial design/feasibility considerations with regards to both a potential indoor recreation center and the community swimming pool/bathhouse. While there were understandably varied viewpoints regarding which amenities a community swimming pool and bathhouse should provide, the general consensus gained was that if the facility were to be renovated, it should include amenities that are typically associated with a **community** pool and bathhouse facility. This shall include maintaining the current character of the existing bathhouse and pool; maintaining the existing amenities such as the diving board, concessions, pool deck, etc; and incorporating additional updated modern amenities such as, slides, lap lanes, shade structures, etc. The second meeting was used to present the final concept plans for both the swimming pool/bathhouse as well as the indoor recreation center facilities. Additionally, the projected cash flow for expenditures and revenues was presented at this second meeting, as well as potential management strategies.
III. Demographic Context

As part of Committee discussions and public comments, the following population characteristics were considered. Notably, the percentages of community children, adults in their family formation years, middle aged and seniors are all about equal.

Between the years 1990 and 2000, Brighton Township’s population increased 7.1%. At the same time, Beaver, Bridgewater and Vanport’s population declined. Collectively, the Area has maintained the same overall population unlike the County’s 2.5% decline.

The Southwest Pennsylvania Commission projects that Brighton Township’s population will continue to increase; adding population between 2000 & 2010. Similarly, the population pattern of the three other communities will remain relatively stable.

<table>
<thead>
<tr>
<th>2000 Demographic Analysis</th>
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<tbody>
<tr>
<td>Beaver Borough</td>
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<tr>
<td>----------------</td>
</tr>
<tr>
<td>Median Family Income</td>
</tr>
<tr>
<td>Per Capita Income</td>
</tr>
<tr>
<td>Gender</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>Age 0-4</td>
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<tr>
<td>Age 5-19</td>
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<tr>
<td>Age 20-24</td>
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<tr>
<td>Age 25-44</td>
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<tr>
<td>Age 45-64</td>
</tr>
<tr>
<td>Age 65+</td>
</tr>
<tr>
<td>White</td>
</tr>
<tr>
<td>Black</td>
</tr>
<tr>
<td>Amer. Ind.</td>
</tr>
<tr>
<td>Asian</td>
</tr>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>

Source: U.S. Census Bureau 2000 Census

Note: 2010 Census information was not yet available at the time of this study’s completion.
IV. Comparable Facilities Analysis

As part of this feasibility study, an analysis of the comparable facilities in the Region has been examined. Each of these facilities has been chosen as a result of similarities in size, uses, characteristics, population served, and programs in order to evaluate future improvements needed to be completed at the Beaver Borough Community Pool and Bathhouse. Furthermore, this survey examines revenue breakdown, funding sources, ADA accessibility, membership fees, hours of operation, benefits/challenges/opportunities of the facility as a whole, competitions/events, etc.

### Operational Comparison/Survey of Managers

<table>
<thead>
<tr>
<th>1. Name of Facility</th>
<th>Beaver Municipal Pool</th>
<th>Old Economy Park Pool</th>
<th>Cranberry Waterpark</th>
<th>Hankey Farms Swimming Pool Complex</th>
<th>Wilson Park Pool</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Address</td>
<td>Buffalo Street &amp; 7th Street, Beaver, PA 15009</td>
<td>5 Forcey Drive Baden, PA 15005</td>
<td>450 North Boundary Park Dr, Cranberry Twp, PA 16066</td>
<td>c/o North Fayette Township Building 400 N Branch Rd Oakdale, PA 15071</td>
<td>855 Poplar Street Greentree, PA 15220</td>
</tr>
<tr>
<td>3. Phone</td>
<td>724-773-6707</td>
<td>724-266-2200</td>
<td>724-776-4806</td>
<td>NA</td>
<td>412-921-8414</td>
</tr>
<tr>
<td>5. Director/Manager</td>
<td>Hired Annually</td>
<td>Hired Annually</td>
<td>Christine Border</td>
<td>Robert Brozovich</td>
<td>Rob Aleva</td>
</tr>
<tr>
<td>6. Population Served by Facility</td>
<td>4,304</td>
<td>Population of county is 171,000</td>
<td>Regional facility</td>
<td>12,254</td>
<td>4,700</td>
</tr>
<tr>
<td>7. Is your Pool Owned by the Borough, Township, Other?</td>
<td>Borough</td>
<td>County</td>
<td>Township</td>
<td>Township</td>
<td>Borough</td>
</tr>
<tr>
<td>8. Describe any Municipal or Other Partnerships in which you participate.</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>9. Is your Pool Governed by a Recreation Board/Other?</td>
<td>Recreation Board and Borough Management</td>
<td>Administered by the County Commissioners and maintained by the Dept of Public Works</td>
<td>Township Parks and Recreation</td>
<td>Recreation Board</td>
<td></td>
</tr>
<tr>
<td>10. Is your Pool Managed by a YMCA/Other?</td>
<td>Managed by Borough</td>
<td>Managed by an individual</td>
<td>Managed by Township</td>
<td>Managed by Parks and Recreation</td>
<td>Managed by Borough</td>
</tr>
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<td>------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Adults – 144</td>
<td>Other Students – 97</td>
<td>Adults - 172</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Family of 4: $215 ($260)</td>
<td>Family of 5 or more - $295</td>
<td>Family of 5 or more - $295</td>
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<tr>
<td></td>
<td>Family of 5+: $320 ($320)</td>
<td>Sr (ind)- $85</td>
<td>Sr (cpl)- $145</td>
<td></td>
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<tr>
<td></td>
<td>$5 (adult)</td>
<td>55+: $4</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>5 and Under: no charge</td>
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**Revenue Breakdown by percentage:**

| a) Memberships Fees | Revenue is by month | 33% | NA |
| b) Program Fees     | Includes Passes, Daily Admission and Concessions | 36% | NA |
| c) Municipal Support / Gov. Support | May – 7% June – 47% July – 32% | 0% | NA |
| d) Contributions Funding | August – 15% | 0% | NA |
| e) Other | 8% - daily passes 24% - concession | NA |

<p>| 13. When was your Facility initially constructed? | 1933 | 1997 | Early 1960s | 1965 |
| 14. When was your Facility Last Renovated / Updated? | Facility is updated and renovated annually | Repair of concrete, painting, etc. | | New fencing and concrete work |</p>
<table>
<thead>
<tr>
<th></th>
<th>Beaver Municipal Pool</th>
<th>Old Economy Park Pool</th>
<th>Cranberry Waterpark</th>
<th>Hankey Farms Swimming Pool Complex</th>
<th>Wilson Park Pool</th>
</tr>
</thead>
<tbody>
<tr>
<td>15. Did you utilize Grant Monies?</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td>NA</td>
</tr>
<tr>
<td>If yes, from where?</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. Does your Facility serve people of All Ages and All Fitness Levels? If so, how?</td>
<td>Yes. Baby pool for small children. Diving board, island, and fountain provide entertainment for kids. No lap lanes. Adult swim.</td>
<td>Yes</td>
<td>Yes</td>
<td>Facility and programming</td>
<td>Yes.  Provide steps into pool with handrails; seniors, water aerobics, swim team, swim lessons</td>
</tr>
<tr>
<td>17. How many pools are present in your complex? Please describe them.</td>
<td>One pool – shallow end with traditional spray fountain, island in center of pool, and diving board One wading pool</td>
<td>One – backward “L” shape with wading pool</td>
<td>One main pool with one closed form drop slide, one large open slide and a dive board Complex has a splash pad and a sand pit and many shade structures</td>
<td>One – rectangular pool and one small wading pool</td>
<td>2 Pools 1 Small Wading Pool 1 Large Main Pool w/Slide &amp; Diving Board and laps for swimming</td>
</tr>
<tr>
<td>18. Does your Pool(s) have a Zero Entry?</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>19. Does your Pool(s) have an ADA Lift, Ramp or Stairs? If so, please list.</td>
<td>None</td>
<td>No</td>
<td>Zero-depth entry and lift</td>
<td>None</td>
<td>Stairs</td>
</tr>
<tr>
<td>20. Does your Pool(s) have Diving?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>21. Does your Pool(s) have Slides? If yes – quantity &amp; type</td>
<td>No</td>
<td>120’ slide Tube slide</td>
<td>Yes – one semicircular</td>
<td>Yes, one enclosed corkscrew type slide</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Beaver Municipal Pool</td>
<td>Old Economy Park Pool</td>
<td>Cranberry Waterpark</td>
<td>Hankey Farms Swimming Pool Complex</td>
<td>Wilson Park Pool</td>
</tr>
<tr>
<td>---</td>
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<td>----------------------</td>
<td>---------------------</td>
<td>-----------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>22.</td>
<td>Does your Pool(s) have Play Features? If yes – quantity &amp; description. Which of these Play Features is, in your opinion:</td>
<td>One spray fountain and diving board</td>
<td>No</td>
<td>Zero-depth entry Spray pad zone</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>1. Most Popular:</td>
<td>#1 = diving</td>
<td></td>
<td></td>
<td>Slide and Diving Board only</td>
</tr>
<tr>
<td></td>
<td>2. Second:</td>
<td></td>
<td></td>
<td>#1 = diving</td>
<td>#2 = slide</td>
</tr>
<tr>
<td></td>
<td>3. Third:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23.</td>
<td>Is your pool heated?</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>24.</td>
<td>Does your facility host Competition Swimming? If yes, what rules do you follow?</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td>NCAA Rules</td>
</tr>
<tr>
<td>25.</td>
<td>Does your Facility have a Family Changing / Bathroom?</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>26.</td>
<td>Does your Facility have a Concession Operation?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>27.</td>
<td>Is your Concession managed “In-House,” Leased or Other?</td>
<td>Managed In-house</td>
<td>Concession is managed “in-house”</td>
<td>Managed In-house</td>
<td>In-house</td>
</tr>
<tr>
<td>28.</td>
<td>Does your Concession prepare and sell Hot Food, Pre-Package, a Combination or Other? Please describe menu. What are your Top (3) selling items?</td>
<td>Combination of hot and cold food.</td>
<td>Full-service concession stand Menu includes: Pizza, hamburgers, hot dogs, soft pretzels, nachos with cheese, funnel cakes, ice cream and fountain drinks</td>
<td></td>
<td>Pre-packaged</td>
</tr>
<tr>
<td></td>
<td>1) Pepperoni Rolls</td>
<td></td>
<td>1) Soda</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2) Nachos</td>
<td></td>
<td>2) Ice cream</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3) Hot Dogs</td>
<td></td>
<td>3) French fries</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Top (3) Selling Items:
1 – Soft pretzels
2 – Popcorn chicken
3 – Ice cream
<table>
<thead>
<tr>
<th></th>
<th>Beaver Municipal Pool</th>
<th>Old Economy Park Pool</th>
<th>Cranberry Waterpark</th>
<th>Hankey Farms Swimming Pool Complex</th>
<th>Wilson Park Pool</th>
</tr>
</thead>
<tbody>
<tr>
<td>29.</td>
<td>List any Program Offerings such as Swimming Lessons, Aqua Aerobics, Daycares, Day Camps, etc.</td>
<td>Special Events Tiny tots swim lessons were taught by guards who were paid by parents.</td>
<td>Swimming Lessons, Lifeguard Training, Guard Start, Scuba Pool Parties/ Facility Rental</td>
<td>Swimming Lessons, Lap Swimming, Senior and Adult Swims Pool Party Revenue</td>
<td>Swim Lessons, Recreation program swimming on Fridays, Water Aerobics</td>
</tr>
<tr>
<td>30.</td>
<td>Does your Facility offer “Reduced Rate Memberships” or “Sponsored Memberships” to those in the community who might not otherwise be able to afford Membership/ Program Fees?</td>
<td>No</td>
<td>No</td>
<td>Not advertised Worked with local schools and some people would buy memberships for children Also provided for abused women and children’s center</td>
<td>No</td>
</tr>
<tr>
<td>31.</td>
<td># of Sponsored Members in 2009</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>32.</td>
<td>Do you have a Fund to support these “Sponsored Memberships”? If so, what?</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>33.</td>
<td>Pool Hours</td>
<td>M-F: 11 am – 8 pm (7:30 in Aug) Sat: Noon – 8 pm (7:30 in Aug) Sun: 1 – 6 pm</td>
<td>Sun-Sat: 12 - 6 pm</td>
<td>11:30 am – 8:00 pm</td>
<td>Sun-Sat: Noon – 6 pm</td>
</tr>
</tbody>
</table>
### 34. Lifeguards:

<table>
<thead>
<tr>
<th></th>
<th>Beaver Municipal Pool</th>
<th>Old Economy Park Pool</th>
<th>Cranberry Waterpark</th>
<th>Hankey Farms Swimming Pool Complex</th>
<th>Wilson Park Pool</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) # April – May</td>
<td>None in April 14</td>
<td>Not reported</td>
<td>58</td>
<td>Not reported</td>
<td>18 (0 in April)</td>
</tr>
<tr>
<td>b) # June – July</td>
<td>14</td>
<td>58</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) # Aug – Sept</td>
<td>14</td>
<td>58</td>
<td>18 (end of season – 6-10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) Starting Hourly Wage -</td>
<td>$7.25</td>
<td>$7.50</td>
<td>WSI – $8.00</td>
<td>$9.00 per hour</td>
<td></td>
</tr>
<tr>
<td>e) Starting Hourly Wage with One Year of Experience</td>
<td>Recreation Board sets increases</td>
<td>$.25 raise every year</td>
<td>$9.00 per hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f) Training Required</td>
<td>Lifeguard Certification</td>
<td>Lifeguard Certification</td>
<td>Lifeguard Certification</td>
<td>Lifeguard Certification</td>
<td></td>
</tr>
<tr>
<td>g) Does your Facility have a “Jr. Lifeguard Leadership Program”?</td>
<td>No</td>
<td>No</td>
<td>Guard Start</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>h) Person responsible for hiring Lifeguards</td>
<td>Pool Manager</td>
<td>Pool Manager</td>
<td>Pool Manager</td>
<td>Pool Manager</td>
<td>Pool Manager w/approval from Borough Manager</td>
</tr>
<tr>
<td>35. Name or Title of Person Responsible for Pool Program</td>
<td>Pool Manager for 2010 and 2011 – Julie Brock</td>
<td>Michael Kristufek</td>
<td>Robert Brozovich</td>
<td>Rob Aleva</td>
<td></td>
</tr>
<tr>
<td>a) College Degree / Certifications</td>
<td>Current college student – will student teach in fall Lifeguarding, First Aid, CPR</td>
<td>2 Bachelor’s Degree – Phys Ed and History and Spanish</td>
<td>BS Health, Phys Ed and Recreation and Dance Lifeguarding First Aid, CPR Certified Pool Operator n</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Beaver Municipal Pool</td>
<td>Old Economy Park Pool</td>
<td>Cranberry Waterpark</td>
<td>Hankey Farms Swimming Pool Complex</td>
<td>Wilson Park Pool</td>
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<td>-----------------------</td>
<td>--------------------</td>
<td>------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>b) Years of Service</td>
<td>1</td>
<td></td>
<td>3</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>c) Three Primary Responsibilities</td>
<td>Safety of patrons and staff Enjoyable work environment and recreation environment provide activities</td>
<td></td>
<td>1) Staffing 2) Staff performing properly 3) Make sure facility was safe</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

36. Does your Pool Manager teach Swimming Lessons? No Subbed for absent instructor – as manager, does not teach regularly

37. What do you feel are the Three Primary Reasons for Success of the Complex 1) Easily accessible to community 2) Great facility despite age 3) Everybody goes there 1) clean 2) convenient 3) staff is nice to patrons

38. What do you feel are the Three Primary Improvement(s) you feel would Benefit your Complex? 1) Facility facelift 2) ADA access 3) More programs and lap lanes for adults 1) Sell sunscreen and goggles 2) Install an ATM 3) Add a new or different piece of equipment
V. **Bathhouse Assessment:** - *(See drawing FS-1 and figures in Appendix B)*

The Existing Bathhouse facility has provided recreation opportunities to its residents for many years. Currently, the facility serves uses such as offices, community gathering within the vestibule, men’s and women’s dressing rooms with showers and toilets, storage space, first aid area, etc. As a result of natural wear and tear over the years, as well as, new building code regulations and ADA accessibility standards, the bathhouse facility is in need of repairs and renovations.

![Image 1: Exterior view of the existing bathhouse](image1.png)

![Image 2: Interior vestibule of the existing bathhouse](image2.png)

![Drawing FS-1: Existing bathhouse floor plan](drawing.png)
A. **Structural/Operational Review** – the following is a summary of the structural and operational assessment of the existing Bathhouse

![](Image 3: Minor cracking on sandstone of existing bathhouse)

![](Image 4: Minor cracking on windows of existing bathhouse)

Given the building’s age, it was found to be in good condition. Minor cracking was observed above some of the door and window lintels which is common for the age of the building. Minor cracks were also observed at the south corners of the building indicating minor building settlement. Both of these issues are minor and can be repaired. The building appears structurally sound and could be renovated to meet current code compliance and to improve current operations. The extent of the renovations would be dependent on the budget.

The operation of the building could be improved by moving all of the administrative areas to the center of the building and relocating the men’s and women’s change areas to the ends of the building. This would allow staff to enter from the center of the building. As the building now functions, staff must walk around the front or rear of the building if they wish to enter the change area of the opposite sex.

B. **ADA Compliance Review** – the following is a summary of ADA compliance deficiencies

Outlined below is a list of the ADA accessibility deficiencies that currently exist within the Beaver Borough Bathhouse facility. Following each accessibility deficiency are recommendations for conforming to ADA compliance as set by the Title III Regulations of the ADA standards for Accessible Design. These deficiencies/recommendations are listed accordingly their corresponding section in Title III Regulations for ADA standards.

As published in the Title III Regulations (28 CFR Part 36, revised July 1, 1994) issued by the Department of Justice, the ADA Standards for Accessible Design are in Appendix B of the Title III Regulations.
1.) Section 4.1   PARKING

   - Section 4.1.2:  One (1) ADA regulation size space required for every 25 parking spaces. One (1) parking space must be a Van Accessible space with an 8’ wide accessible aisle.

   Recommendation:  Provide required parking spaces in the location of the existing parking lot or provide a new ADA regulation parking lot area closer to the front entrance of the building. The sidewalk from the existing parking lot may not meet the current ADA grade requirement which would need verified via field surveys.

2.) Section 4.2   SPACE ALLOWANCES (Appendix B figures 1 thru 6)

   - Section 4.2.1  Minimum passage width is 32” min. clear and 36” min. continuous.
   - Section 4.2.2  Wheelchair passing width requirement is 60” minimum.
   - Section 4.2.3  Wheelchair turning area size is 60” x 60” minimum.
   - Section 4.2.5  Wheelchair forward reach is 48” high maximum and 15” low minimum.
   - Section 4.2.6  Wheelchair side reach is 54” high maximum and 9” low minimum.

Recommendation:  All doorway openings provided along the ADA accessible route and restrooms must have 32” clear space thru the doorway opening. This means the doors need to be changed to a 36” wide door to meet this requirement. This will also include the door replacement for access to the men’s and women’s
public restroom areas located on the exterior of the building. The existing 33” and 34” clearance around the showers in the men’s and women’s locker rooms does not provide the 36” clearance for the ADA accessible route; therefore, the showers will need to be redesigned. The location of all ADA accessible plumbing controls and lighting switches and/or outlet receptacles must be within these requirements. Not all controls, switches and outlets have to be changed, just the ones located along the ADA accessible route and any ADA areas.

3.) **Section 4.3  ACCESSIBLE ROUTE** *(Appendix B Figure 7)*

- Section 4.3.2  An accessible route needs to be provided from the designated parking area to the ADA accessible entrance.

  **Recommendation:** Access to the pool area should not involve having to go through the building and out the back exit which will be ADA compliant. An ADA compliant ramp should be provided at the pool entrance side of the building from the existing sidewalk to the level of the concrete apron surrounding the pool area. An ADA compliant ramp should also be provided for access to the children’s pool area.

4.) **Section 4.4  PROTRUDING OBJECTS** *(Appendix B Figure 8)*

- Section 4.4.2  Minimum headroom clearance is 80” minimum.

  **Recommendation:** Verify all existing doorway openings that will not be changed meet this requirement. All newly installed doors within the accessible route must meet this requirement.

5.) **Section 4.5  GROUND AND FLOOR SURFACES**

- Section 4.5.2  Changes in level -1/4” requires no treatment, ¼” to ½” requires a slope of no greater than 1:2, and anything over ½” requires an ADA compliant ramp.
Recommendation: There are two (2) areas of concern. The rear exits of the building from both changing rooms. ADA compliant ramps will be required here as a second exit. LSSE recommends trying to create a common hallway and provide only one (1) exit with the required ADA compliant ramp. The other area of concern is the step into the men’s and women’s public restrooms on the exterior of the building. An ADA compliant ramp will need to be provided for access to both these areas.

6.) Section 4.6  PARKING AND LOADING AREAS (Appendix B Figure 9)

- Section 4.6.3  Parking area provided for ADA access shall have a parking stall with a minimum size of 8’ x 20’ long with an 8’ x 20’ long access aisle for Van Accessible spaces. A minimum of one (1) Van Accessible space is required. Cross slope in all directions of the space and aisle may not exceed 2% and the required ADA signage is required. An approved hard surface must be provided along the entire accessible route.

  Recommendation: Where there will be ADA parking spaces provided, these requirements must be met.

7.) Section 4.7  CURB RAMPS (Appendix B Figures 11 thru 13)

- Section 4.7.2  Ramps shall have a slope no greater than 1:12 with side slopes no greater than 1:10 and a rise of no more than 30”.

  Recommendation: If access is permitted from the main road, an ADA compliant curb ramp will be required.
8.) Section 4.8 RAMPS (Appendix B Figures 16 and 17)

- Section 4.8.3 Minimum clear ramp width shall be 36”.
- Section 4.8.4 Minimum landing and turning areas shall be 60” x 60”.
- Section 4.8.5 Handrails are required if ramp rise is greater than 6” or run is more than 72”.

Recommendation: Any new ADA compliant ramps that will be provided will need to meet these requirements.

9.) Section 4.9 STAIRS (Appendix B Figures 18 and 19)

- Section 4.9.4 Handrails shall extend 12” beyond the top riser and at least 12” plus width of one (1) tread beyond the bottom riser.

Recommendation: Existing handrails located on the steps of the pool entrance side of the building will need replaced to meet the ADA requirements.

10.) Section 4.10 ELEVATORS N/A

11.) Section 4.11 PLATFORM LIFTS N/A

12.) Section 4.12 WINDOWS N/A

13.) Section 4.13 DOORS (Appendix B Figures 24 thru 26)

- Section 4.13.5 Clear width through doorway shall be 32”.
- Section 4.13.8 Height of thresholds shall be ¾” max.
- Section 4.13.9 Door hardware must be lever operated or one-hand operated with no twisting motion.
Recommendation: All doorway openings provided along the ADA accessible route and restrooms must have 32” clear space thru the doorway opening. This means the doors need to be changed to a 36” wide door to meet this requirement. This will also include the door replacement for access to the men’s and women’s public restroom areas. All door handles on doors along accessible routes or ADA compliant restrooms must meet this requirement.

14.) Section 4.14 ENTRANCES

- Section 4.14.1 One (1) accessible route must be provided from parking area to main entrance of building.

Recommendation: See recommendations of Section 4.6.

15.) Section 4.15 DRINKING FOUNTAINS (Appendix B Figure 27)

- Section 4.15.2 Spout height shall not exceed 36” from floor to outlet
- Section 4.15.3 Water flow to be a minimum of 4” high.
- Section 4.15.5 Clear floor space in front of fountain shall be a minimum size of 30” x 48”. Underclearance of fountain to be a minimum of 27” and the fountain shall protrude from the wall between 17” - 19”.

Recommendation: The location of the drinking fountain should be easily accessible and requires the least amount of plumbing.
16.) **Section 4.16 WATER CLOSETS** (*Appendix B Figures 28 and 29*)

- Section 4.16.2 Clear floor space for turning shall be 60” x 60”.
- Section 4.16.3 Height shall be between 17” – 19” from floor to top of seat.
- Section 4.16.4 Grab bar height shall be between 33” – 36” above finished floor.
- Section 4.16.5 Flush controls shall be a maximum of 44” above finished floor.
- Section 4.16.6 Dispensers shall be a minimum of 19” above finished floor to the center of the dispenser.

![Image 8: Water closets are not ADA compliant](image8.png)

**Recommendation:** There are showers in each of the men’s and women’s locker room area, although not ADA compliant. The existing rest room in the guard and field house area is too small to convert to an ADA restroom. The space should be used for storage and the existing shower in the area should remain. The interior restroom in each locker room should have an ADA compliant stall and meet the other requirements. The exterior men’s and women’s restroom areas will need to meet this requirement.

17.) **Section 4.17 TOILET STALLS** (*Appendix B Figure 30*)

**Recommendation:** The interior restroom in each locker room should have an ADA compliant stall and meet the other requirements. The exterior men’s and women’s restroom areas will need to meet this requirement.
18.) Section 4.18 URINALS

- Section 4.18.2 Rim height shall be a maximum height of 17” above finished floor.
- Section 4.18.3 Clear floor space for access to facilities shall be a minimum of 30” x 48” in size.
- Section 4.18.4 Flush controls shall be a maximum of 44” above finished floor.

![Image 9: Urinal is not ADA compliant](image)

**Recommendation:** The restroom in the men’s locker room will be required to meet this requirement. The exterior men’s restroom area will also need to meet this requirement since it will not be a unisex restroom.

19.) Section 4.19 LAVATORIES AND MIRRORS (Appendix B Figures 31 and 32)

- Section 4.19.2 Rim height shall be a maximum of 34” above finished floor.
- Section 4.19.3 Clear floor space for access to facilities shall be a minimum of 30” x 48” in size.
- Section 4.19.4 Exposed pipes shall be insulated.
- Section 4.19.5 Faucets shall be lever operated, push type or electronic.
- Section 4.19.6 Bottom edge of mirror shall be no more than 40” above finished floor.

**Recommendation:** The recommended ADA unisex restroom in the building will need to meet this requirement. Also, the exterior men’s and women’s restroom facilities will need to meet this requirement.

20.) Section 4.20 BATH TUBS N/A
21.) **Section 4.21 SHOWER STALLS (Appendix B Figures 35 thru 37)**

- Section 4.21.2 Stall size shall be a minimum of 36” x 36” with a seat or a minimum of 30” x 60” without a seat.
- Section 4.21.6 Must be equipped with a shower unit with a 60” hose minimum.
- Section 4.21.7 Curbing in 36” x 36” stall to be a maximum of ½” high. No curbing is allowed in the 30” x 60” stall.

**Recommendation:** Each men’s and women’s shower area will need to be redesigned to have an ADA compliant shower plus any additional showers.

22.) **Section 4.22 TOILET ROOMS**

- Section 4.22.1 Must provide at least one (1) ADA accessible facility.

**Recommendation:** See the recommendations of Sections 4.16 and 4.17.

23.) **Section 4.23 BATHROOMS, BATHING FACILITIES AND SHOWER ROOMS**

- Section 4.22.1 Must provide one (1) ADA accessible stall.

**Recommendation:** See the recommendations of Sections 4.16 and 4.17.

24.) **Section 4.24 SINKS**

**Recommendation:** See the recommendations of Sections 4.19.

25.) **Section 4.25 STORAGE (Appendix B Figure 38)**

- Section 4.25.3 Shelving shall have a minimum height of 9” and a maximum height of 48”. Closet rods shall have a maximum height of 48” above finished floor.

**Recommendation:** See recommendation in Section 4.16.

26.) **Section 4.26 HANDRAILS, GRAB BARS, TUB AND SHOWER SEATS (Appendix B Figure 39)**

- Section 4.26.2 Hand rail size shall be between 1 ¼” – 1 ½”.
Recommendation: This size is required for the grab bars in the ADA compliant restrooms and also the handrails along all stairway and ADA compliant ramps. Also, the existing railing (blue) in the admission area will need to meet this height requirement.

27.) Section 4.27 CONTROLS AND OPERATING MECHANISMS

- Section 4.27.3 See reach requirements in Sections 4.2.5 and 4.2.6.

28.) Section 4.28 ALARMS

- Section 4.28.1 Smoke detectors, carbon monoxide detectors and audible alarms are required.

Recommendation: A further review of this requirement will need to be completed with the local governing agency to also determine any of their requirements.

29.) Section 4.29 DETECTABLE WARNING

- Section 4.29.2 Detectable warning surface consisting of a 2’ x 4’ truncated dome surface is required at the approach of the ADA ramps.

Recommendation: At the locations of the proposed ADA ramp, a detectable warning surface will need to be provided.
30.) Section 4.30 SIGNAGE

- Section 4.30.6 Signage required at the ADA entrance and restroom locations. Signage height shall not exceed 60” to the center of the sign.

Recommendation: Signage will be required at the location of the ADA entrance and the ADA restroom facilities.

31.) Section 4.31 TELEPHONES  N/A

32.) Section 4.32 FIXED OR BUILT IN SEATING OR TABLES (Appendix B Figures 45 and 46)

- Section 4.32.4 Height of ADA accessible tables and counters shall be between 28” – 34” above finished floor.

Recommendation: The existing counter at the admission area needs to be altered. The suggestion would be to keep half the counter at its current height and lower the remaining portion of the counter to the required ADA accessible height.

33.) Section 4.33 ASSEMBLY AREAS

- Section 4.33.2 Size of wheelchair clear space area shall be 33” x 60” minimum if forward access cannot be provided.

Recommendation: Provide an area of the required size at the outdoor bleacher locations for both the men’s and women’s area.

34.) Section 4.34 AUTOMATED TELLER MACHINES  N/A

35.) Section 4.35 DRESSING, FITTING AND LOCKER ROOMS

- Section 4.35.2 Clear floor space area required is 60” x 60”.
- Section 4.35.4 Benches to comply with Section 4.37.
- Section 4.35.5 The area requires a full length mirror with a size of 18” x 54” high.
Recommendation: Within both the men’s and women’s locker room area, a mirror of the required size will need to be provided and the clear floor space area will need to be provided at the area of the ADA regulation seating area.

36.) Section 4.36 SAUNAS AND STEAM ROOMS N/A

37.) Section 4.37 BENCHES

- Section 4.37.3 Size of bench seating area shall be 42” long and 24” deep minimum.
- Section 4.37.4 Back support size shall be 42” long and between 2” – 18” above the seat.
- Section 4.37.5 Height of bench shall be between 17” – 19” above finished floor.

Recommendation: Install one (1) ADA bench seating area in both the men’s and women’s locker room area.
VI. Bathhouse Design, Costs and Recommendations: - (See Drawings FS-2 & FS-3)

Drawing FS-2: Potential Bathhouse Floor Plan

Drawing FS-3: Potential Bathhouse Accessible Parking Area and Route

The potential Bathhouse floor plan and accessible parking area with accessible route have been developed based upon community needs and building code / ADA accessibility compliance standards. Costs have been computed based upon upgrades to the existing building, as well as providing accessible circulation routes in building and to accessible parking area. Detailed costs of these renovations have been provided below:
# A. Estimated Long Term Solution to Meet ADA Compliance

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>ESTIMATED PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Exterior (Miscellaneous)</strong></td>
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<tr>
<td>1</td>
<td>Outside Unisex Restroom (Complete - including all plumbing, fixtures, new 36&quot; door and ADA ramp)</td>
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<td>Rear Steps and New ADA Ramp (Includes removal of existing steps, concrete landing between steps, removal of existing double doors and fill in openings with matching stone)</td>
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<td>4</td>
<td>Accessible Parking Area and Curb Cut (Concrete Pavement)</td>
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<tr>
<td>5</td>
<td>Repair cracks in mortar joints - various widths</td>
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<tr>
<td>6</td>
<td>Install new exterior windows (Complete) (20 windows @ $1,500 ea.)</td>
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<td></td>
<td><strong>SubTotal</strong></td>
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<td><strong>Interior (Miscellaneous)</strong></td>
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<td>Storage Area (Includes general cleaning, painting, removal of showers and install new 36&quot; wide exterior door)</td>
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<tr>
<td>2</td>
<td>Replace all existing interior doors with 36&quot; wide doors (5 doors @)</td>
<td>$9,000.00</td>
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<tr>
<td>3</td>
<td>Install new drop ceiling within building (excluding filter room). Reframe and install moisture resistant drywall, prime and paint.</td>
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<td>Update lighting where required</td>
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<td>5</td>
<td>Electrical (Update building to meet current code requiren)</td>
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<tr>
<td>6</td>
<td>Plumbing (Update building to meet current code requirei)</td>
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<td>3</td>
<td>Ticket Office (Complete)</td>
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<tr>
<td>4</td>
<td>Fountain iin Hallway (Includes plumbing)</td>
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<tr>
<td>Men's Locker Room</td>
<td></td>
<td></td>
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<tr>
<td>1</td>
<td>Install Glass Block Windows in Shower Area (Includes fill in of existing window openings with matching stone) (6 windows @ $1,500.00 ea.)</td>
<td>$9,000.00</td>
</tr>
<tr>
<td>2</td>
<td>Relocate Showers (Complete)</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>3</td>
<td>Install New Sinks (Complete)</td>
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<td>4</td>
<td>Emergency Exit Doors (2)</td>
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<td>5</td>
<td>New ADA Restroom (Complete)</td>
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<tr>
<td>6</td>
<td>Changing Area Partitions (Complete)</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>7</td>
<td>Life Guard Room (Complete)</td>
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<td></td>
<td>SubTotal</td>
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<td>Women's Locker Room</td>
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<td>$9,000.00</td>
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<tr>
<td>2</td>
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</tr>
<tr>
<td>3</td>
<td>Install New Sinks (Complete)</td>
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<tr>
<td>4</td>
<td>New ADA Restroom (Complete)</td>
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<td>5</td>
<td>Changing Area Partitions (Complete)</td>
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<tr>
<td>6</td>
<td>Life Guard Room (Complete)</td>
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<tr>
<td>7</td>
<td>ADA Changing Room (Complete)</td>
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<td>Move existing Restroom Facilities to opposite side of room</td>
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<td>10% Design, architectural and engineering fees</td>
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<td>TOTAL</td>
<td>$581,175.00</td>
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</table>
B. Estimated Minimum Short Term Solution to Meet ADA Compliance

*Includes improvements for ADA accessible parking, an access route to bathhouse, circulation throughout the bathhouse and restroom/changing facilities.

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>ESTIMATED PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ADA accessible parking, one (1) access to bathhouse, circulation throughout</td>
<td>$300,000.00</td>
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<tr>
<td></td>
<td>the bathhouse, and restroom/changing facilities.</td>
<td></td>
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VII. Pool Systems/Supporting Infrastructure Assessment: (See Drawings FS-3)

A. The Main Pool

The Main Pool, believed constructed in the early 1930’s, is of steel reinforced concrete with a painted finish. It is a rectangular configuration beginning at a depth of approximately 3 feet in the shallow end and terminating at a depth of approximately 9 feet in the deep well. The pool consists of approximately 11,265 sq. ft. of surface area. The pool has an underground recirculation piping system consisting of an overflow gutter system, a sidewall filtered water return system, and a single deep well drain intake box. The underground piping system appears to be a combination of PVC and steel piping. The Pool Structure is non-ADA Compliant as a stand-alone structure. No ADA device, such as a handicapped chair lift, is present on site for patron use.

There are no competition style race lanes. A single rope line divides the shallow and deep areas of the pool (see image 11). There is a series of stainless steel ladders for access and 5 fixed in place lifeguard platforms. A poured concrete deck surrounds the pool. A single dive platform is present at the end wall of the deep well (see image 12). No additional play type or other general recreational amenities exist. The patron usage load for the Main Pool is currently 552.

Filtration/Chemical Equipment and Systems - Main Pool

The Main Pool filtration system consists of a gravity fed recirculation pump and motor linked to an on grade vacuum sand filtration system (see image 13). The filter tank is concrete with manual setting controls. This system also serves the Wading Pool, which has no filtration of its own. The chemical system consists of a Gas Chlorine system for sanitation (see image 14). The Filtration and Chemical Systems are located within the Bathhouse.
B. Wading Pool

The Wading Pool is believed to have also been constructed in the early 1930’s. It is constructed of steel reinforced concrete. It is of a square configuration and has a poured concrete deck surrounding. The pool consists of approximately 601 sq. ft. of surface area. The pool has an underground recirculation piping system. The underground piping appears to be a combination of PVC and steel composition. The pool structure is ADA COMPLIANT as a stand-alone structure. No amenities exist (see image 15). The patron user load for the Wading Pool is currently 40.
Filtration/Chemical Equipment and Systems – Wading Pool

The Wading Pool is not served by the Main Pool Filtration and Chemical Systems. However, the EPD Planning Team was informed that the pool is drained and refilled daily instead.

C. Complex Code Deficiencies – the following is a summary of complex code deficiencies:

1.) Main Pool
   ▪ Americans with Disabilities Act requires two means of access to the Main Pool. No ADA access currently exists.
   ▪ Depth markers are not properly displayed.
   ▪ Although not a code violation itself, the chlorine gas sanitation system is considered to be extremely dangerous and a public health and safety risk. It is recommended to be discontinued immediately.

2.) Wading Pool
   ▪ Due to the absence of its own filtration system, a 2 hour turnover filtration rate as required by the PA Department of Health is not met.
   ▪ Depth markers are not properly displayed.
VIII. Recommendations

The existing Main Pool walls and floor, as mentioned previously, are of steel reinforced concrete construction. The deck is a cantilever design resting on the wall, allowing an access space around the pool for viewing and maintenance of the perimeter piping, the piping supports, and deck supports. The entire concrete structure of the pool is in a state of advanced structural decay. A rehabilitation of the pool, as well as, the decking and recirculation systems is not feasible. Replacement of the Main Pool is recommended.

A reconfigured design for the Main Pool is required to overcome the “usability” issues currently plaguing the complex. The existing Main Pool, as constructed, is not only ADA inaccessible, but is also incompatible with the current usage needs and programming requirements of the general public. The current configuration permits only general swimming and does not meet the public’s expectations of a “modern” complex. Furthermore, the current configuration will not allow the management of the facility to implement such programs as the Public may demand.

A contemporary style aquatics complex will provide access and activities for all age groups and activity levels. The goal of this complex is to provide equal opportunities for educational, social, and recreational types of programs. This would include, but is not limited to, activities such as youth swimming lessons, teen water sports, competitive swimming, senior fitness classes, lap swimming, splash hops, private parties etc., as well as a variety of “recreational play type” activities. The new Main Pool has been designated to accommodate 551 patrons.

The existing Wading Pool will be reused. A separate filtration/chemical system will be added as well as play features.

A splash pad for patron’s ages 0-12 is proposed as an option adjacent the Wading Pool.

A description of the proposed areas are as follows:
A. Main Pool

Creation of a Multi-use Pool – See Drawing FS-4

![Drawing FS-4: Potential Reconfigured Pool](image)

The Reconfigured Pool would consist of:

1.) Zero-Entry to the Main Pool, underwater bench, peninsula, 25 meter lap swimming area, dive well and designated slide area.

A zero-entry, with ground spray water features & a pedestal style above grade water spray feature located on the level section of the Zero-Entry floor. This Zero-Entry addition to the Main pool will not only bring the pool into ADA compliance, but will also allow ease of access to the pool by all patrons especially those with mobility issues. This “ramp” area will provide a recreation area for any person or activity requiring a shallow depth of water as they progress from 0” to 3’-0” of water depth at the joining intermediate section of the new main pool. The zero-entry configuration will aid in opening the facility to an increase in programming opportunities. A second means of entry is required by code and will be a portable ADA Swimming Pool lift.
2.) Peninsula Section

A section joining the two pool areas should be constructed. This will serve as a general, as well as, an ADA corridor to the Main Pool. The design of the joining section is such that a peninsula is formed between the pools creating a separation in the water body which will allow more effective programming.

3.) Main Pool Body (inclusive of deep well area)

The main body of water is designed to a length of 25 meters. The water depth in this area is 4’-0” to 11’-6” deep. Within this area there are 6 lap lanes. The Borough can choose to leave up any number of the removable wave runners to accommodate a variety of activates. This area can be used for adult and lap swimming (any number of lanes) and can additionally be utilized for aquatic exercise, therapy, swimming lessons, competition swimming and so forth. There is an open swim area, a sectioned off area for patrons exiting the double flume slide, and a dive board area that is located in one corner of the deep well.

4.) Play Features/Amenities

Play/Water Features are an important element for a contemporary-style aquatics facility appropriate for community pools. These amenities are the “attraction” the public is unable to experience or duplicate in a backyard pool. It is these features, which help draw the public, therefore aiding in revenue generation and contributing to the sustainability of the facility. Interactive style play features are also educational for the children.

**A Schedule of Proposed Features for the New Main Pool is as Follows:** (See Appendix C)

**Zero-Entry Area**

1.) Pop Jets are located in the center of the zero-entry. Pop Jets are fountain like ground spray features that the children can interact with. Step on one and it causes the others to shoot higher into the air, step on two & the spray will go even higher. This is something that one child or several can play in at a time. This interactive water feature works on the simple principle of cause & effect. Pop Jets will be enjoyed by all age groups.

2.) There are four tulip style ground sprays located on each side of the pop-jets water feature. These tulip ground spray water features will not only serve as something to entertain the children but will also help to keep this area clean.
3.) There are three wall sprays in the Zero-Entry of the main pool. These wall sprays are part of the wall system and provided a showering effect into the pool. Great fun for kids of all ages.

4.) A large cylinder pedestal fountain is located in the center of the Zero-Entry of the pool. This pedestal fountain is constructed on site and will be designed to be reminiscent of the original pool. This spray fountain will have a continuous ring of water spray around its perimeter and an architectural water feature sphere located on top of the fountain. The continuous ring will provide a showering tunnel of water around the pedestal.

**Main Pool Body and Deep Well Area**

1.) Lane Lines & Designated Swim Areas are provided to encourage, adult & lap swimming.

2.) A Double Flume Slide is located on the school side of the deep well. The deck is expanded to accommodate the slide base and stairs. This slide requires water to be supplied to the flumes. This can be done in an over the deck pump package or by adding additional drains to the pool floor and plumbing to the filter room. The slide structure should be designed to complement the existing Bathhouse structure.

3.) A New 1 Meter Dive Board is available for use in the deep well area.

4.) Open Swimming is available in the remainder of the main pool body.

5.) Decking

Construction requirements for the reconfiguration of the pool, along with the installation parameters of the decorative coping and skimmers, will require replacement of the concrete decking and the concrete decking will be increased.

New decking complete with trench drain system and deck safety signage would be installed. A new system of Lifeguard Stands and Ladders would be installed and bonded.
Renovated Main Pool Data:

The Reconfigured New Main Pool will accommodate 551 patrons. The pools total surface area will be increased to 10,447 sq. ft. and the deck size has been increased by approximately 1,200 sq. ft. The new main pool will hold approximately 418,860 gallons of water. It is intended for all users ages zero and up.

B. Wading Pool

The existing Wading Pool is believed to be structurally sound and is scheduled for an efficient inclusion into a Complex Reconfiguration Plan. It is currently filled and drained daily and does not meet recirculation and sanitation systems codes as required by the PA Dept. of Health. It will require its own filtration system in place as part of the renovation process.

The existing zero-entry access meets current ADA requirements. Additionally, features will be added as a method of returning filtered water back to the body of water and providing an interactive play experience for children.

Renovated Wading Pool Data:

The renovated Wading Pool will accommodate the same number of children as prior to the renovation, 40 children. 1 lifeguard, with a minimum of 1 in reserve, is recommended during recreational use. It will contain approximately 4,655 gallons of water and be approximately 638 sq. ft. It is intended for Users age 0-5.

A Schedule of Proposed Features for the Renovated Wading Pool is as Follows: (See Appendix C)

1.) Deck Sprays are located at the top of the zero-entry of the renovated wading pool above the water line. This is a ground spray water feature that is an easy way to add value to your pool because the tunnel effect will draw children in to play. Children can walk through it, climb under it or interrupt the tunnels water flow with hands, feet, arms & legs. The possibilities for imagination & play are endless.

2.) Misting Umbrellas Sun Shades have been added as an option for the renovated wading pool. These sun shades will create areas of shade & block UV up to 99% depending on what manufacturer & color is chosen. These shades also provide a fine mist for cooling children, caregivers and lifeguards. Shade would be
provided in the pool & around the pool on the deck. The umbrellas come in various colors & sizes. We are recommending white, beige or light yellow.

C. **Optional Splash Pad**

The construction of a Children’s Splash Pad Area is recommended as an option. *See Drawings FS-2 & FS-3 hereafter.* A Splash Pad is a spray park type water spray play feature area with no standing water. The Children’s Splash Pad should be constructed adjacent the existing Wading Pool. This location will provide caregivers, as well as pool staff, with excellent supervision capabilities. An additional advantage of a Splash Pad is that unlike a Wading Pool, it requires no staffing, therefore lowering facility management costs.

**Splash Pad Data:**

The Splash Pad accommodates 40 patrons and requires zero (0) lifeguards. It will be approximately 782 sq. ft. For ages 0-12 with supervision required under age 6.

**A Schedule of Proposed Features for the New Splash Pad for the Renovated Complex is as Follows:** (See Appendix C)

1.) The Splash Pad has four Misting Umbrellas, one on each corner to provided shade & cooling mist to the patrons. These are optional.

2.) The Splash Pad contains the Maestro; this is the activator and speaker system for the Splash Pad.

3.) Two of the four corners have Pop-its, which are interactive ground sprays that are controlled by a computer the water pops out randomly, keeping younger children amused for hours. There are an additional two Pop-its in the body of the pad.

4.) In the other two corners opposite of the Pop-its, are Tidal Wave Ground Spray features that spray an elongated spray of water into the center of the pad.

5.) The Mop-Top ground sprays shoot approximately 12-18” in the air and creates a spider like visual effect.

6.) The Tulip ground sprays have approximately a 10” spray zone and spray no higher than 12” into the air creating a flower effect.
7.) There are Geyser ground sprays that spay approximately 2’-6” into the air creating a Geyser effect.

8.) There are Sound Sprays located in the Splash Pad. These sounds sprays have a 6” disk that surrounds them and can be painted to match any theme. These Sound Sprays are activated by children playing in the water they spray.
IX. Swimming Pool Design, Costs/Phasing Strategy, & Recommendations

The following budgetary projections are itemized to allow them to be utilized in part or as a whole, depending upon prevailing fiscal conditions.

RECONFIGURED COMPLEX – MULTI-USE
(See Drawing FS-4)

- Life Expectancy of Improvements is Approximately 40-50 Years (Major Pool Systems)

Main Pool – Phase I

- Demo of Existing Pool $65,000.00
- Construct a new concrete pool shell with the addition of Zero-Entry and Connection to Main Pool Body $760,000.00
- Installation of New Decorative Coping and Skimmer Recirculation System, New Bottom Drain System, Complete Filtration System, and Associated Completed Plumbing Systems $240,000.00
- Provide and Place New Decking with Drain System and Deck Features (Ladders, Lifeguard Stands, etc.) $65,000.00
- Provide and Place Play Features/Amenities to the New Pool $55,000.00
- Provide and Place Complete Chemical Systems and Computer Control System $15,000.00

Main Pool Total $1,200,000.00
(Includes overhead & profit)

Main Pool Options – Phase I or II

- Dual Flume Slide Add $155,000.00
- Heater Add $19,000.00

General Options – Phase I or II

- Improved Area Lighting (for night time activities) Add $19,696.00

Refurbished Wading Pool – Phase I
(See Drawing FS-4)

- Addition of Play Features $25,000.00
- Provide new Filtration and Chemical Systems separate From Main Pool $22,000.00
• Placement of New Decking  $11,000.00

**Wading Pool Total**  $58,000.00

*(Includes overhead & profit)*

### Wading Pool Options

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### Splash Pad- Optional – Phase I or II

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**Please note:**

A minimum 10% contingency should be added onto every project anticipated for incidentals and unforeseen circumstances. It should also be noted that the trends in construction and material pricing has been an increase of 5%-10% per year. If a project is not anticipated for several years, it is recommended that 5%-10% be added per year until the project is started to avoid budget issues. Future design fees are not included.

A. Community Swimming Pool Renovations with New Splash Pad
   *Includes all Phase I and Phase II costs associated with; main pool renovations, main pool options, general options, refurbished wading pool, wading pool options and splash pad as listed in the above costs.

B. Estimated Minimum Short Term Solution to Meet ADA Compliance
   *Includes the installation of an ADA lift for access into the existing swimming pool.

<table>
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<th>DESCRIPTION</th>
<th>ESTIMATED PRICE</th>
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<tbody>
<tr>
<td>1</td>
<td>ADA lift for access into the existing swimming pool.</td>
<td>$12,000.00</td>
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X. Financing

The following financing proforma was developed to analyze the potential annual household costs for implementing the renovations for the bathhouse and pool facilities. A series of development scenarios was subsequently defined and assessed using the financing proforma. Each scenario ranges in size and potential annual household costs.

FINANCING PROFORMA

A. Scenario 1: The total annual household costs include the renovation and construction fees associated with the development of the Bathhouse and Main Pool. This option does not include a Splash Pad feature, but satisfies all other construction related activity related to community needs and code compliance.

Scenario 1 – Bathhouse & Main Pool Development

$513,675  Bathhouse
$67,500  Site
$1,383,800  Community Swimming Pool (does not include Splash Pad)

$1,964,975  Principal
15  Year bond
3%  Bond rate

($164,599)

$2,468,989  Total debt service
2,100  Total households

($78)  Total annual household cost

B. Scenario 2: The total annual household costs include the renovation and construction fees associated with the development of the Bathhouse, Main Pool and Splash Pad. This option satisfies all construction and renovations for meeting community needs and code compliance.

Scenario 2 – Bathhouse, Main Pool & Splash Pad Development

$513,675  Bathhouse
$67,500  Site
$1,959,316  Community Swimming Pool (includes Splash Pad)
$2,540,491 Principal  
15 Year bond  
3% Bond rate  

($212,808) Annual debt service  

$2,753,299 Total debt service  
2,100 Total households  

($101) Total annual household cost  

C. Scenario 3: The total annual household costs include the renovation and construction fees will provide a short term solution to meeting ADA Compliance for the development of the Bathhouse and Main Pool. Additional improvements will need to be made based upon municipality need and budgetary allowance.

**Scenario 3 – Estimated Minimum Short Term Solution to meet ADA Compliance**

$232,500 Bathhouse  
$67,500 Site  
$12,000 Community Swimming Pool ADA Lift  

$312,000 Principal  
15 Year bond  
3% Bond rate  

($26,135) Annual debt service  

$338,135 Total debt service  
2,100 Total households  

($12) Total annual household cost
XII. FINAL RECOMMENDED ACTIONS

A final recommendations list shown below outlines all necessary components/renovations associated with the bathhouse and community swimming pool. These recommendations provide the foundation for meeting building code compliance, ADA accessibility standards, satisfying community needs and providing swimming and recreation opportunities for persons of all ages.

A. Bathhouse

- Provide required ADA parking spaces in the location of the existing parking.

- All doorway openings provided along the ADA accessible route and restrooms must have 32” clear space thru the doorway opening.

- An ADA compliant ramp should be provided at the main and children’s pool entrances, men’s and women’s restrooms/locker rooms, and from the parking lot to the main entrance to the building.

- Existing handrails located on the steps of the pool entrance side of the building will need replaced to meet the ADA requirements.

- The location of the drinking fountain should be easily accessible and requires the least amount of plumbing and meet ADA compliance.

- The interior/exterior restrooms / locker rooms should meet all ADA compliant requirements. This includes upgrades to water closets, toilet stalls, urinals, lavatories and mirrors, shower stalls, handrails, grab bars, tub and shower seats, bench seating area, etc.

- At the locations of the proposed ADA ramp, a detectable warning surface will need to be provided.

- Signage will be required at the location of the ADA entrance and the ADA restroom facilities.

- Provide an area of the required size at the outdoor bleacher locations for both the men’s and women’s area.
B. Community Swimming Pool

- An additional core boring analysis of the pool basin is recommended to better assess the integrity of the concrete structure and to better identify the actual extent of necessary repairs/replacement.

- Based upon initial observations, the concrete structure of the pool is in a state of advanced structural decay. A rehabilitation of the pool, as well as, the decking and recirculation systems does not appear to be feasible. As per these observations, replacement of the Main Pool is recommended.

- Provide equal opportunities for educational, social, and recreational types of programs for all age groups and activity levels.
APPENDIX A
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<td>Bridgewater</td>
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</tr>
<tr>
<td>Brighton</td>
<td>0</td>
</tr>
<tr>
<td>Vanport</td>
<td>0</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Respondent Household Makeup</th>
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<tbody>
<tr>
<td><strong>Male Children</strong></td>
<td>32</td>
</tr>
<tr>
<td>Under 5 yrs</td>
<td>4</td>
</tr>
<tr>
<td>5-14 yrs</td>
<td>15</td>
</tr>
<tr>
<td>15-19 yrs</td>
<td>13</td>
</tr>
<tr>
<td><strong>Female Children</strong></td>
<td>25</td>
</tr>
<tr>
<td>Under 5 yrs</td>
<td>4</td>
</tr>
<tr>
<td>5-14 yrs</td>
<td>15</td>
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<tr>
<td>15-19 yrs</td>
<td>6</td>
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<tr>
<td><strong>Adult Male</strong></td>
<td>108</td>
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<tr>
<td>20-39 yrs</td>
<td>20</td>
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<tr>
<td>40-64 yrs</td>
<td>55</td>
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<tr>
<td>65 &amp; older</td>
<td>33</td>
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<tr>
<td><strong>Adult Female</strong></td>
<td>129</td>
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<tr>
<td>20-39 yrs</td>
<td>27</td>
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<tr>
<td>40-64 yrs</td>
<td>66</td>
</tr>
<tr>
<td>65 &amp; older</td>
<td>36</td>
</tr>
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</table>
# Community Swimming Pool Resident Survey Tabulation

## What facilities/activities do you feel should be incorporated into the Community Swimming Pool? 1=Very Important; 2=Important; 3=Somewhat Important; 4=No Opinion; 5=Not Important.

<table>
<thead>
<tr>
<th>Only enter 1, 2, 3, 4 and 5</th>
<th>Aggregate Score</th>
<th>Weighted Score (1-5)</th>
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</thead>
<tbody>
<tr>
<td>Leisure Pool for Family Swimming</td>
<td>157</td>
<td>1.5</td>
</tr>
<tr>
<td>Lap Lanes for Fitness Swimming</td>
<td>278</td>
<td>2.7</td>
</tr>
<tr>
<td>Lap Lanes for Competitive Swimming</td>
<td>375</td>
<td>3.8</td>
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<tr>
<td>Electronic Start &amp; Touch System for Competitive Swimming</td>
<td>428</td>
<td>4.3</td>
</tr>
<tr>
<td>Zero Depth Pool Entry (at shallow end)</td>
<td>249</td>
<td>2.5</td>
</tr>
<tr>
<td>Spectator Seating</td>
<td>344</td>
<td>3.5</td>
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<tr>
<td>Locker Rooms</td>
<td>207</td>
<td>2.1</td>
</tr>
<tr>
<td>Waterslides</td>
<td>332</td>
<td>3.3</td>
</tr>
<tr>
<td>Interactive Squirt, Spray Fountains, Splash Pools, etc.</td>
<td>310</td>
<td>3.1</td>
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<tr>
<td>Concessions Area</td>
<td>216</td>
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</tr>
<tr>
<td>Extra Wide Sunbathing Decks/Lawn</td>
<td>244</td>
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<tr>
<td>Picnic Area</td>
<td>262</td>
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<td>Sand Volleyball Courts</td>
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</tr>
<tr>
<td>Aqua-Aerobic Area</td>
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<td>3.4</td>
</tr>
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</table>

## Should the Community Swimming Pool be promoted/marketed to non-school district users?

<table>
<thead>
<tr>
<th>Only enter 1 for one answer</th>
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<td>Yes</td>
<td>46</td>
<td>NA</td>
</tr>
<tr>
<td>No</td>
<td>67</td>
<td>NA</td>
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</tbody>
</table>

## Improvements to the Community Swimming Pool could be financed through a variety of means. Please indicate your preferred method for the Borough to pursue in financing the renovation of the Community Swimming Pool by ranking the following methods with #1 being the most desired method and #6 being the least desired method.

<table>
<thead>
<tr>
<th>Only enter 1, 2, 3, 4, 5 and 6</th>
<th>Aggregate Score</th>
<th>Weighted Score (1-6)</th>
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<td>User Fees</td>
<td>312</td>
<td>3.0</td>
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<tr>
<td>Foundation Grants</td>
<td>235</td>
<td>2.3</td>
</tr>
<tr>
<td>Private Donations</td>
<td>255</td>
<td>2.5</td>
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<tr>
<td>local Taxes</td>
<td>594</td>
<td>5.7</td>
</tr>
<tr>
<td>State/Federal Grants</td>
<td>239</td>
<td>2.3</td>
</tr>
<tr>
<td>Local Bonds</td>
<td>454</td>
<td>4.4</td>
</tr>
</tbody>
</table>

## How much would you be willing to pay for an annual membership to the Community Swimming Pool? (These fees would help finance the construction/renovation and operation of the Community Swimming Pool.

<table>
<thead>
<tr>
<th>Only enter a 1</th>
<th>Aggregate Score</th>
<th>Weighted Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>I would be willing to pay up to $60 for an individual and $210 for a family of (4) annually.</td>
<td>62</td>
<td>NA</td>
</tr>
<tr>
<td>I would be willing to pay up to $70 for an individual and $250 for a family of (4) annually.</td>
<td>16</td>
<td>NA</td>
</tr>
<tr>
<td>I would be willing to pay up to $85 for an individual and $320 for a family of (4) annually.</td>
<td>8</td>
<td>NA</td>
</tr>
</tbody>
</table>
4.3 Accessible Route.

wheelchair shall adjoin or overlap an accessible route or adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances shall be provided as shown in Fig. 4(d) and (e).

4.2.4.3 Surfaces for Wheelchair Spaces. Clear floor or ground spaces for wheelchairs shall comply with 4.5.

4.2.5* Forward Reach. If the clear floor space only allows forward approach to an object, the maximum high forward reach allowed shall be 48 in (1220 mm) (see Fig. 5(a)). The minimum low forward reach is 15 in (380 mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in Fig. 5(b).

4.2.6* Side Reach. If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 in (1370 mm) and the low side reach shall be no less than 9 in (230 mm) above the floor (Fig. 6(a) and (b)). If the side reach is over an obstruction, the reach and clearances shall be as shown in Fig 6(c).

4.3 Accessible Route.

4.3.1* General. All walks, halls, corridors, aisles, skywalks, tunnels, and other spaces that are part of an accessible route shall comply with 4.3.

4.3.2 Location.

(1) At least one accessible route within the boundary of the site shall be provided from public transportation stops, accessible parking, and accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance they serve. The accessible route shall, to the maximum extent feasible, coincide with the route for the general public.

(2) At least one accessible route shall connect accessible buildings, facilities, elements, and spaces that are on the same site.
(3) At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elements and with all accessible dwelling units within the building or facility.

(4) An accessible route shall connect at least one accessible entrance of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the accessible dwelling unit.

4.3.3 Width. The minimum clear width of an accessible route shall be 36 in (915 mm) except at doors (see 4.13.5 and 4.13.6). If a person in a wheelchair must make a turn around an obstruction, the minimum clear width of the accessible route shall be as shown in Fig. 7(a) and (b).

4.3.4 Passing Space. If an accessible route has less than 60 in (1525 mm) clear width, then passing spaces at least 60 in by 60 in (1525 mm by 1525 mm) shall be located at reasonable intervals not to exceed 200 ft (61 m). A T-intersection of two corridors or walks is an acceptable passing place.

4.3.5 Head Room. Accessible routes shall comply with 4.4.2.

4.3.6 Surface Textures. The surface of an accessible route shall comply with 4.5.
4.3 Accessible Route.

(a) Clear Floor Space

(b) Forward Approach

(c) Parallel Approach

(d) Clear Floor Space in Alcoves

NOTE: \( x \leq 24 \text{ in (610 mm)} \).

(e) Additional Maneuvering Clearances for Alcoves

Fig. 4

Minimum Clear Floor Space for Wheelchairs

NOTE: If \( x > 24 \text{ in (610 mm)} \), then an additional maneuvering clearance of 6 in (150 mm) shall be provided as shown.

NOTE: If \( x > 15 \text{ in (380 mm)} \), then an additional maneuvering clearance of 12 in (305 mm) shall be provided as shown.
4.3 Accessible Route.

(a) High Forward Reach Limit

NOTE: \( x \) shall be \( \leq 25 \) in (635 mm); \( z \) shall be \( \geq x \). When \( x < 20 \) in (510 mm), then \( y \) shall be 48 in (1220 mm) maximum. When \( x \) is 20 to 25 in (510 to 635 mm), then \( y \) shall be 44 in (1120 mm) maximum.

(b) Maximum Forward Reach over an Obstruction

Fig. 5

Forward Reach
4.3 Accessible Route.

4.3.7 Slope. An accessible route with a running slope greater than 1:20 is a ramp and shall comply with 4.8. Nowhere shall the cross slope of an accessible route exceed 1:50.

4.3.8 Changes in Levels. Changes in levels along an accessible route shall comply with 4.5.2. If an accessible route has changes in level greater than 1/2 in (13 mm), then a curb ramp, ramp, elevator, or platform lift (as permitted in 4.1.3 and 4.1.6) shall be provided that complies with 4.7, 4.8, 4.10, or 4.11, respectively. An accessible route does not include stairs, steps, or escalators. See definition of "egress, means of" in 3.5.

4.3.9 Doors. Doors along an accessible route shall comply with 4.13.

4.3.10* Egress. Accessible routes serving any accessible space or element shall also serve as a means of egress for emergencies or connect to an accessible area of rescue assistance.
4.3.11 Areas of Rescue Assistance.

4.3.11.1 Location and Construction. An area of rescue assistance shall be one of the following:

(1) A portion of a stairway landing within a smokeproof enclosure (complying with local requirements).

(2) A portion of an exterior exit balcony located immediately adjacent to an exit stairway when the balcony complies with local requirements for exterior exit balconies. Openings to the interior of the building located within 20 feet (6 m) of the area of rescue assistance shall be protected with fire assemblies having a three-fourths hour fire protection rating.

(3) A portion of a one-hour fire-resistive corridor (complying with local requirements for fire-resistive construction and for openings) located immediately adjacent to an exit enclosure.
80 in (685 mm to 2030 mm) above the ground or finished floor (see Fig. 8(c) and (d)). Protruding objects shall not reduce the clear width of an accessible route or maneuvering space (see Fig. 8(e)).

4.4.2 Head Room. Walks, halls, corridors, passageways, aisles, or other circulation spaces shall have 80 in (2030 mm) minimum clear head room (see Fig. 8(a)). If vertical clearance of an area adjoining an accessible route is reduced to less than 80 in (nominal dimension), a barrier to warn blind or visually-impaired persons shall be provided (see Fig. 8(c-1)).

4.5 Ground and Floor Surfaces.

4.5.1* General. Ground and floor surfaces along accessible routes and in accessible rooms and spaces including floors, walks, ramps, stairs, and
4.5 Ground and Floor Surfaces.

**Fig. 8 (c) Free-Standing Overhanging Objects**

**Fig. 8 (c-1) Overhead Hazards**

**Fig. 8 (d)**

*Objects Mounted on Posts or Pylons*

**Fig. 8**

*Protruding Objects (Continued)*
curb ramps, shall be stable, firm, slip-resistant, and shall comply with 4.5.

4.5.2 Changes in Level. Changes in level up to 1/4 in (6 mm) may be vertical and without edge treatment (see Fig. 7(c)). Changes in level between 1/4 in and 1/2 in (6 mm and 13 mm) shall be beveled with a slope no greater than 1:2 (see Fig. 7(d)). Changes in level greater than 1/2 in (13 mm) shall be accomplished by means of a ramp that complies with 4.7 or 4.8.

4.5.3* Carpet. If carpet or carpet tile is used on a ground or floor surface, then it shall be securely attached; have a firm cushion, pad, or backing, or no cushion or pad; and have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The maximum pile thickness shall be 1/2 in (13 mm) (see Fig. 8(f)). Exposed edges of carpet shall be fastened to floor surfaces and have trim along the entire length of the exposed edge. Carpet edge trim shall comply with 4.5.2.

4.5.4 Gratings. If gratings are located in walking surfaces, then they shall have spaces no greater than 1/2 in (13 mm) wide in one direction (see Fig. 8(g)). If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel (see Fig. 8(h)).

4.6 Parking and Passenger Loading Zones.

4.6.1 Minimum Number. Parking spaces required to be accessible by 4.1 shall comply with 4.6.2 through 4.6.5. Passenger loading zones required to be accessible by 4.1 shall comply with 4.6.5 and 4.6.6.

4.6.2 Location. Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance. In parking facilities that do not serve a particular building, accessible parking shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility. In buildings with multiple accessible entrances with adjacent parking, accessible parking spaces shall be dispersed and located closest to the accessible entrances.
4.6.3* Parking Spaces. Accessible parking spaces shall be at least 96 in (2440 mm) wide. Parking access aisles shall be part of an accessible route to the building or facility entrance and shall comply with 4.3. Two accessible parking spaces may share a common access aisle (see Fig. 9). Parked vehicle overhangs shall not reduce the clear width of an accessible route. Parking spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

4.6.4* Signage. Accessible parking spaces shall be designated as reserved by a sign showing the symbol of accessibility (see 4.30.7). Spaces complying with 4.1.2(5)(b) shall have an additional sign "Van-Accessible" mounted below the symbol of accessibility. Such signs shall be located so they cannot be obscured by a vehicle parked in the space.

4.6.5* Vertical Clearance. Provide minimum vertical clearance of 114 in (2895 mm) at accessible passenger loading zones and along at least one vehicle access route to such areas from site entrance(s) and exit(s). At parking spaces complying with 4.1.2(5)(b), provide minimum vertical clearance of 98 in (2490 mm) at the parking space and along at least one vehicle access route to such spaces from site entrance(s) and exit(s).

4.6.6 Passenger Loading Zones. Passenger loading zones shall provide an access aisle at least 60 in (1525 mm) wide and 20 ft (240 in)(6100 mm) long adjacent and parallel to the vehicle pull-up space (see Fig. 10). If there are curbs between the access aisle and the vehicle pull-up space, then a curb ramp complying with 4.7 shall be provided. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

4.7 Curb Ramps.

4.7.1 Location. Curb ramps complying with 4.7 shall be provided wherever an accessible route crosses a curb.
4.7 Curb Ramps.

4.7.5 Sides of Curb Ramps. If a curb ramp is located where pedestrians must walk across the ramp, or where it is not protected by handrails or guardrails, it shall have flared sides; the maximum slope of the flare shall be 1:10 (see Fig. 12(a)). Curb ramps with returned curbs may be used where pedestrians would not normally walk across the ramp (see Fig. 12(b)).

4.7.6 Built-up Curb Ramps. Built-up curb ramps shall be located so that they do not project into vehicular traffic lanes (see Fig. 13).

4.7.7 Detectable Warnings. A curb ramp shall have a detectable warning complying with 4.29.2. The detectable warning shall extend the full width and depth of the curb ramp.

4.7.8 Obstructions. Curb ramps shall be located or protected to prevent their obstruction by parked vehicles.

4.7.9 Location at Marked Crossings. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides (see Fig. 15).

4.7.10 Diagonal Curb Ramps. If diagonal (or corner type) curb ramps have returned curbs or other well-defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48 in (1220 mm) minimum clear space as shown in Fig. 15(c) and (d). If diagonal curb ramps are provided at marked crossings, the 48 in (1220 mm) clear space shall be within the markings (see Fig. 15(c) and (d)). If diagonal curb ramps have flared sides, they shall also have at least a 24 in (610 mm) long segment of straight curb located on each side of the curb ramp and within the marked crossing (see Fig. 15(c)).

4.7.11 Islands. Any raised islands in crossings shall be cut through level with the street or have curb ramps at both sides and a level area at least 48 in (1220 mm) long between the curb ramps in the part of the island intersected by the crossings (see Fig. 15(a) and (b)).

4.7.2 Slope. Slopes of curb ramps shall comply with 4.8.2. The slope shall be measured as shown in Fig. 11. Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20.

4.7.3 Width. The minimum width of a curb ramp shall be 36 in (915 mm), exclusive of flared sides.

4.7.4 Surface. Surfaces of curb ramps shall comply with 4.5.
4.8 Ramps.

Fig. 11
Measurement of Curb Ramp Slopes

Adjoining slope shall not exceed 1:20

slope = Y : X where X is a level plane

Fig. 12
Sides of Curb Ramps

If X is less than 48 in. then the slope of the flared side shall not exceed 1:12.

(a) Flared Sides

(b) Returned Curb

Fig. 13
Built-Up Curb Ramp

4.8 Ramps.

4.8.1* General. Any part of an accessible route with a slope greater than 1:20 shall be considered a ramp and shall comply with 4.8.

4.8.2* Slope and Rise. The least possible slope shall be used for any ramp. The maximum slope of a ramp in new construction shall be 1:12. The maximum rise for any run shall be 30 in (760 mm) (see Fig. 16). Curb ramps and ramps to be constructed on existing sites or in existing buildings or facilities may have slopes and rises as allowed in 4.1.6(3)(a) if space limitations prohibit the use of a 1:12 slope or less.
4.8.3 Clear Width. The minimum clear width of a ramp shall be 36 in (915 mm).

4.8.4* Landings. Ramps shall have level landings at bottom and top of each ramp and each ramp run. Landings shall have the following features:

(1) The landing shall be at least as wide as the ramp run leading to it.

(2) The landing length shall be a minimum of 60 in (1525 mm) clear.

(3) If ramps change direction at landings, the minimum landing size shall be 60 in by 60 in (1525 mm by 1525 mm).

(4) If a doorway is located at a landing, then the area in front of the doorway shall comply with 4.13.6.

4.8.5* Handrails. If a ramp run has a rise greater than 6 in (150 mm) or a horizontal projection greater than 72 in (1830 mm), then it shall have handrails on both sides. Handrails are not required on curb ramps or adjacent to seating in assembly areas. Handrails shall comply with 4.26 and shall have the following features:

(1) Handrails shall be provided along both sides of ramp segments. The inside handrail on switchback or dogleg ramps shall always be continuous.

(2) If handrails are not continuous, they shall extend at least 12 in (305 mm) beyond the top and bottom of the ramp segment and shall be parallel with the floor or ground surface (see Fig. 17).

(3) The clear space between the handrail and the wall shall be 1 - 1/2 in (38 mm).

(4) Gripping surfaces shall be continuous.

(5) Top of handrail gripping surfaces shall be mounted between 34 in and 38 in (865 mm and 965 mm) above ramp surfaces.

(6) Ends of handrails shall be either rounded or returned smoothly to floor, wall, or post.

(7) Handrails shall not rotate within their fittings.
Fig. 17
Examples of Edge Protection and Handrail Extensions

Fig. 18
Usable Tread Width and Examples of Acceptable Nosings
NOTE:
X is the 12 in minimum handrail extension required at each top riser.
Y is the minimum handrail extension of 12 in plus the width of one tread that is required at each bottom riser.

Fig. 19
Stair Handrails
4.13 Doors.

**Fig. 24**
Clear Doorway Width and Depth

### 4.13.7 Two Doors in Series.
The minimum space between two hinged or pivoted doors in series shall be 48 in (1220 mm) plus the width of any door swinging into the space. Doors in series shall swing either in the same direction or away from the space between the doors (see Fig. 26).

### 4.13.8* Thresholds at Doorways.
Thresholds at doorways shall not exceed 3/4 in (19 mm) in height for exterior sliding doors or 1/2 in (13 mm) for other types of doors. Raised thresholds and floor level changes at accessible doorways shall be beveled with a slope no greater than 1:2 (see 4.5.2).

### 4.13.9* Door Hardware.
Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides. Hardware required for accessible door passage shall be mounted no higher than 48 in (1220 mm) above finished floor.

### 4.13.10* Door Closers.
If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 in (75 mm) from the latch, measured to the leading edge of the door.
4.13 Doors.

(a) Front Approaches — Swinging Doors

NOTE: \( x = 36 \text{ in (915 mm)} \) minimum if \( y = 60 \text{ in (1525 mm)} \); \( x = 42 \text{ in (1065 mm)} \) minimum if \( y = 54 \text{ in (1370 mm)} \).

(b) Hinge Side Approaches — Swinging Doors

NOTE: \( y = 54 \text{ in (1370 mm)} \) minimum if door has closer.

(c) Latch Side Approaches — Swinging Doors

NOTE: All doors in alcoves shall comply with the clearances for front approaches.

Fig. 25
Maneuvering Clearances at Doors
4.13 Doors.

(d) Front Approach — Sliding Doors and Folding Doors

(e) Slide Side Approach — Sliding Doors and Folding Doors

(f) Latch Side Approach — Sliding Doors and Folding Doors

NOTE: All doors in alcoves shall comply with the clearances for front approaches.

Fig. 25
Maneuvering Clearances at Doors (Continued)

Fig. 26
Two Hinged Doors in Series
4.16 Water Closets.

mm) that allows a person in a wheelchair to make a parallel approach to the unit (see Fig. 27(c) and (d)). This clear floor space shall comply with 4.2.4.

4.16.1 General. Accessible water closets shall comply with 4.16.2 through 4.16.6.

EXCEPTION: Water closets used primarily by children ages 12 and younger shall be permitted to comply with 4.16.7.

Fig. 27
Drinking Fountains and Water Coolers
4.17 Toilet Stalls.

**Fig. 28**
Clear Floor Space at Water Closets

**Fig. 29**
Grab Bars at Water Closets

**EXCEPTION:** In instances of alteration work where provision of a standard stall (Fig. 30(a)) is technically infeasible or where plumbing code requirements prevent combining existing stalls to provide space, either alternate stall (Fig. 30(b)) may be provided in lieu of the standard stall.

4.17.4 Toe Clearances. In standard stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9 in (230 mm) above the floor. If the depth of the stall is greater than 60 in (1525 mm), then the toe clearance is not required.

**4.17.5* Doors.** Toilet stall doors, including door hardware, shall comply with 4.13. If toilet stall approach is from the latch side of the stall door, clearance between the door side of the stall and any obstruction may be reduced to a minimum of 42 in (1065 mm) (Fig. 30).

**4.17.6 Grab Bars.** Grab bars complying with the length and positioning shown in Fig. 30(a), (b), (c), and (d) shall be provided. Grab bars may be mounted with any desired method as long as they have a gripping surface at the locations shown and do not obstruct the required clear floor area. Grab bars shall comply with 4.26.
4.17 Toilet Stalls.

Fig. 30
Toilet Stalls

(a) Standard Stall

(a-l) Standard Stall (end of row)

(c) Rear Wall of Standard Stall

(b) Alternate Stalls

(d) Side Walls
shall extend a maximum of 19 in (485 mm) underneath the lavatory (see Fig. 32).

4.19.4 Exposed Pipes and Surfaces. Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

4.19.5 Faucets. Faucets shall comply with 4.27.4. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

4.19.6* Mirrors. Mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40 in (1015 mm) above the finish floor (see Fig. 31).

4.20 Bathtubs.

4.20.1 General. Accessible bathtubs shall comply with 4.20.

4.20.2 Floor Space. Clear floor space in front of bathtubs shall be as shown in Fig. 33.

4.20.3 Seat. An in-tub seat or a seat at the head end of the tub shall be provided as shown in Fig. 33 and 34. The structural strength of seats and their attachments shall comply with 4.26.3. Seats shall be mounted securely and shall not slip during use.

4.20.4 Grab Bars. Grab bars complying with 4.26 shall be provided as shown in Fig. 33 and 34.

4.20.5 Controls. Faucets and other controls complying with 4.27.4 shall be located as shown in Fig. 34.

4.20.6 Shower Unit. A shower spray unit with a hose at least 60 in (1525 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided.

4.20.7 Bathtub Enclosures. If provided, enclosures for bathtubs shall not obstruct controls or transfer from wheelchairs onto bathtub seats or into tubs. Enclosures on bathtubs shall not have tracks mounted on their rims.

4.21 Shower Stalls.

4.23 Bathrooms, Bathing Facilities, and Shower Rooms.

4.23.1 Minimum Number. Bathrooms, bathing facilities, or shower rooms required to be accessible by 4.1 shall comply with 4.23 and shall be on an accessible route.

4.23.2 Doors. Doors to accessible bathrooms shall comply with 4.13. Doors shall not swing into the floor space required for any fixture.

4.23.3* Clear Floor Space. The accessible fixtures and controls required in 4.23.4, 4.23.5, 4.23.6, 4.23.7, 4.23.8, and 4.23.9 shall be on an accessible route. An unobstructed turning space complying with 4.2.3 shall be provided within an accessible bathroom. The clear floor spaces at fixtures and controls, the accessible route, and the turning space may overlap.

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Fig. 35
Shower Size and Clearances

(a) 36-in by 36-in (915-mm by 915-mm) Stall

(b) 30-in by 60-in (760-mm by 1525-mm) Stall

Fig. 36
Shower Seat Design
4.23.4 Water Closets. If toilet stalls are provided, then at least one shall be a standard toilet stall complying with 4.17; where 6 or more stalls are provided, in addition to the stall complying with 4.17.3, at least one stall 36 in (915 mm) wide with an outward swinging, self-closing door and parallel grab bars complying with Fig. 30(d) and 4.26 shall be provided. Water closets in such stalls shall comply with 4.16. If water closets are not in stalls, then at least one shall comply with 4.16.

4.23.5 Urinals. If urinals are provided, then at least one shall comply with 4.18.

4.23.6 Lavatories and Mirrors. If lavatories and mirrors are provided, then at least one of each shall comply with 4.19.

4.23.7 Controls and Dispensers. If controls, dispensers, receptacles, or other equipment are provided, then at least one of each shall be on an accessible route and shall comply with 4.27.

4.23.8 Bathing and Shower Facilities. If tubs or showers are provided, then at least one accessible tub that complies with 4.20 or at least one accessible shower that complies with 4.21 shall be provided.

4.23.9* Medicine Cabinets. If medicine cabinets are provided, at least one shall be located with a
4.24 Sinks.

4.24.1 General. Sinks required to be accessible by 4.1 shall comply with 4.24.

4.24.2 Height. Sinks shall be mounted with the counter or rim no higher than 34 in (865 mm) above the finish floor.

4.24.3 Knee Clearance. Knee clearance that is at least 27 in (685 mm) high, 30 in (760 mm) wide, and 19 in (485 mm) deep shall be provided underneath sinks.

EXCEPTION 1: Sinks used primarily by children ages 6 through 12 shall be permitted to have a knee clearance 24 in (610 mm) high minimum provided that the rim or counter surface is no higher than 31 in (760 mm).

EXCEPTION 2: Sinks used primarily by children ages 5 and younger shall not be required to provide knee clearance if clear floor space for a parallel approach complying with 4.2.4 is provided.

4.24.4 Depth. Each sink shall be a maximum of 6-1/2 in (165 mm) deep.

4.24.5 Clear Floor Space. A clear floor space at least 30 in by 48 in (760 mm by 1220 mm) complying with 4.2.4 shall be provided in front of a sink to allow forward approach. The clear floor space shall be on an accessible route and shall extend a maximum of 19 in (485 mm) underneath the sink (see Fig. 32).

4.24.6 Exposed Pipes and Surfaces. Hot water and drain pipes exposed under sinks shall be insulated or otherwise configured so as to protect against contact. There shall be no sharp or abrasive surfaces under sinks.

4.24.7 Faucets. Faucets shall comply with 4.27.4. Lever-operated, push-type, touch-type, or electronically controlled mechanisms are acceptable designs.

4.25 Storage.

4.25.1 General. Fixed storage facilities such as cabinets, shelves, closets, and drawers required to be accessible by 4.1 shall comply with 4.25.
4.27.3* Height. The highest operable part of controls, dispensers, receptacles, and other operable equipment shall be placed within at least one of the reach ranges specified in 4.2.5 and 4.2.6. Electrical and communications systems receptacles on walls shall be mounted no less than 15 in (380 mm) above the floor.

EXCEPTION: These requirements do not apply where the use of special equipment dictates otherwise or where electrical and communications systems receptacles are not normally intended for use by building occupants.
4.32 Fixed or Built-in Seating and Tables.

4.31.9* Text Telephones (TTYs) Required by 4.1.

(1) Text telephones (TTYs) used with a pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. If an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the text telephone (TTY) and the telephone receiver.

(2) Pay telephones designed to accommodate a portable text telephone (TTY) shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a text telephone (TTY) and shall have 6 in (152 mm) minimum vertical clearance in the area where the text telephone (TTY) is to be placed.

(3) Equivalent facilitation may be provided. For example, a portable text telephone (TTY) may be made available in a hotel at the registration desk if it is available on a 24-hour basis for use with nearby public pay telephones. In this instance, at least one pay telephone shall comply with paragraph 2 of this section. In addition, if an acoustic coupler is used, the telephone handset cord shall be sufficiently long so as to allow connection of the text telephone (TTY) and the telephone receiver. Directional signage shall be provided and shall comply with 4.30.7.

4.32 Fixed or Built-in Seating and Tables.

4.32.1 Minimum Number. Fixed or built-in seating or tables required to be accessible by 4.1 shall comply with 4.32.2 through 4.32.4.

EXCEPTION: Fixed or built-in seating or tables used primarily by children ages 12 and younger shall be permitted to comply with 4.32.5.
4.32 Fixed or Built-in Seating and Tables.

4.32.2 Seating. If seating spaces for people in wheelchairs are provided at fixed tables or counters, clear floor space complying with 4.2.4 shall be provided. Such clear floor space shall not overlap knee space by more than 19 in (485 mm) (see Fig. 45).

4.32.3 Knee Clearances. If seating for people in wheelchairs is provided at tables or counters, knee spaces at least 27 in (685 mm) high, 30 in (760 mm) wide, and 19 in (485 mm) deep shall be provided (see Fig. 45).

4.32.4* Height of Tables or Counters. The tops of accessible tables and counters shall be from 28 in to 34 in (710 mm to 865 mm) above the finish floor or ground.

4.32.5 Children’s Fixed or Built-in Seating and Tables. Fixed or built-in seating or tables used primarily by children ages 12 and younger shall comply with 4.32.5 as permitted by 4.32.1.

EXCEPTION: Fixed or built-in seating or tables used primarily by children ages 5 and younger shall not be required to comply with 4.32.5 if clear floor space complying with 4.2.4 parallel to fixed tables or counters is provided.

1) Seating. If seating spaces for people in wheelchairs are provided at fixed tables or counters, clear floor space complying with 4.2.4 shall be provided. Such clear floor space shall not overlap knee space by more than 19 in (485 mm) (see Fig. 45).

2) Knee Clearances. If seating for people in wheelchairs is provided at tables or counters, knee spaces at least 24 in (610 mm) high, 30 in (760 mm) wide, and 19 in (485 mm) deep shall be provided (see Fig. 45).

3) Height of Tables or Counters. The tops of accessible tables and counters shall be from 26 in to 30 in (660 mm to 760 mm) above the finish floor or ground.

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**Fig. 46**

Space Requirements for Wheelchair Seating Spaces in Series
APPENDIX C
NOTE:
THIS BUILDING LAYOUT SUITABLE FOR 792 PATRONS.
PROPOSED ADA PARKING LOT

PROPOSED ACCESSIBLE ROUTE

EXISTING COMMUNITY SWIMMING POOL

EXISTING BATHHOUSE

Buffalo St.

7th St.
RENOVATED POOL COMPLEX

NEW MAIN POOL
ZERO-ENTRY AREA PLAY FEATURES
And
MAIN POOL BODY & DEEP WELL AREA
Renovated Pool Complex
New Main Pool

Zero-Entry Features
(page 1)

POP-JETS GROUND SPRAYS

TULIP GROUND SPRAYS
(4 PLACES)

WALL SPRAY
(3 PLACES)
Renovated Pool Complex
New Main Pool
Zero-Entry Features
(page 2)

NEW PEDESTAL FOUNTAIN
LOCATED IN ZERO-ENTRY

PEDESTAL FOUNTAIN
Renovated Pool Complex

New Main Pool

Main Pool Body & Deep Well Area

Lap Lanes, Designated Swim Areas & Competition Swimming

Double Flume Slide designed to complement existing structures
Renovated Pool Complex

New Main Pool

(Main Pool Body & Deep Well Area)

1-METER DIVE STAND
RENOVATED POOL COMPLEX

RENOVATED WADING POOL FEATURES & AMENITIES
Renovated Pool Complex

Renovated Wading Pool Features

MISTING UMBRELLA, WHITE
(2 PLACES)

DECK SPRAY
(2 PLACES)
RENOVATED POOL COMPLEX

OPTIONAL CHILDREN’S SPLASH PAD
And
WATER PLAY FEATURES
Optional Splash Pad
Splash Pad Spray Features

(page 1)

MISTING UMBRELLA, WHITE
(4 PLACES)

MAESTRO
COLOR CHOICE BY OWNER
Splash Pad Spray Features
(page 2)

POP-IT INTERACTIVE WATER SPRAY
(4 PLACES)

TIDAL WAVE SPRAY FEATURE
(TWO PLACES)
Splash Pad Spray Features
(page 3)

MOP TOP GROUND SPRAY
(2 PLACES)

TULIP GROUND SPRAY
(2 PLACES)
Splash Pad Spray Features
(page 4)

GEYSER
(2 PLACES)

SOUND SPRAY
(4 PLACES)