



**INCORPORATED VILLAGE OF GARDEN CITY
DEPARTMENT OF PUBLIC WORKS
351 STEWART AVENUE
GARDEN CITY, NEW YORK 11530-4528**

February 28, 2024

**Re: Request for Proposal
Community Park Pool Slide Replacement Design
Garden City, New York 11530**

Introduction

The Incorporated Village of Garden City, New York (the “Village”), is currently seeking proposals from qualified individuals and entities authorized to do business in the State of New York to provide professional engineering services to design the removal and replacement of the pool slide at Community Park in Garden City.

The Village seeks to receive a full set of drawings and technical specifications for bidding purposes for the replacement of the pool slide at Community Park. The new pool slide shall be based on the MaconMO-SLD5 Slide manufactured by Splashtacular. The Vendor shall provide project plans, specifications, elevations, cross sections, identifications of material choices, and any other details required to construct the new pool slide.

The Village is committed to a policy of equal opportunity and does not discriminate against Vendors on the basis of age, sex, sexual orientation, race, color, creed, religion, ethnicity, national origin, disability, marital status, familial status, veteran status or any other basis protected under federal, state and local laws, regulations and ordinances.

Anticipated Proposal Schedule

RFP Issue Date:	February 28, 2024
Proposal Due Date:	March 21, 2024
Oral Presentation (if necessary):	TBD
Award Date:	TBD

*Dates indicated above are subject to change at the sole discretion of the Village.

Scope of Services

The specific responsibilities and obligations of the Vendor are proposed to include, but not necessarily be limited to, those outlined below.

Each Vendor is expected to acquaint themselves to the project area at their own cost and expense prior to submitting their proposal.

- Work Schedule & Updates:

The Vendor shall:

1. Provide a project schedule with delivery milestone dates and monthly progress updates.
2. Communicate regularly with Village representatives for the project.
3. Attend meetings with Village representatives as required and provide all meeting materials, notices, attendance lists, minutes/summaries, etc.

- Design Development/Construction Documents:

1. Meet and consult with Village staff to develop full construction plans and specifications for the purpose of bidding the project.
2. Evaluate the existing conditions and the proposed alteration to the hydraulic system, pool deck, and/or pool shell to accommodate the new slide or any existing conformance. Findings shall be documented in a memo.
3. Coordinate and permit the slide and any alterations with the approving authority.
4. The Vendor shall attend and conduct all construction document development meetings.
5. The Vendor shall prepare an itemized construction cost estimate for budgeting as required for the proposed project.
6. The Vendor shall provide all necessary drawings and specifications needed to bid, construct, and execute the project.
7. Detailed construction drawings and technical specifications shall include all elements required to accurately depict the project and provide adequate information for actual construction including but not limited to, plan views, profiles, sections, elevations, details, schematics, schedules, typical sections/details, above ground and underground utility locations. Construction drawings shall also include all final restoration elements.
 - a. Hydraulic engineering for the water delivery system or confirm the current system is acceptable.
 - b. Deck alterations for the new slide.
 - c. Bonding and electrical plans if applicable.
 - d. Demolition plans and proposed plans, to be publicly bid.
8. The Vendor shall provide (2) site inspections during construction.
9. The Village will provide sample General Terms and Conditions, standard forms, and agreements to be used in the bidding documents.
10. The Vendor shall submit to the Village three (3) bound copies, one (1) electronic copy (email), and one (1) electronic copy (USB stick) of the final approved bid package including plan drawings and specifications. All electronic files used to create all documents shall also be delivered to the Village (PDF, Word, AutoCAD, etc.).
11. The Village will provide bidding services for this project including placement of legal notices, distribution of construction bid documents, and handling of the bidding process.
12. The Vendor will be responsible for answering any RFI's that the Village cannot responsibly respond to. Such responses shall be given to the Village within 48 hours during the solicitation.

Mandatory Proposal Requirements

All proposals must state the period for which the proposal shall remain in effect, i.e., how much time does the Village have to accept or reject the proposal under the terms proposed. Such period shall not be less than 180 (one hundred eighty) days from the proposal date.

The proposing Vendor, by submitting its proposal, acknowledges that it has reviewed the Request for Proposal (RFP) and has become familiar with the general content of the RFP including the general condition of the properties mentioned in the RFP; shall abide by the terms, as set forth in this RFP; understands the proposed detailed Scope of Services, as described in the RFP; understands all documents included in the RFP and attests to its ability to perform all the work required. The technical proposal, at a minimum, shall include: a description of the unique ability and/or experience of the proposing Vendor to provide the services outlined herein.

Substitutions shall be requested by the proposing Vendor in writing and shall be subject to approval by the Village. It shall be at the proposing Vendor's discretion whether to include within the proposal any additional information regarding the special experience or qualifications of the proposing Vendor or its key personnel that would further substantiate the capabilities of the proposing Vendor to fulfill the requirements of this RFP.

The Vendor shall provide all the necessary services, whether specifically mentioned herein or not, to complete this assignment. The Vendor assumes all risks regarding estimating the level of effort and labor hours and expenses required to complete all services to the satisfaction of the Village at the proposed cost.

The Vendor shall prepare and attach to this Agreement a Cost Proposal (**APPENDIX A**) for the proposed services as outlined in this Agreement.

The Vendor shall read and agree to Terms and Conditions (**APPENDIX B**) and submit a signed copy with proposal. Upon award, the Vendor MUST provide all referenced insurance documentation with required coverages/limits in place.

Proposal Submission Instructions

Each proposal shall be prepared simply and economically avoiding the use of elaborate promotional materials beyond those sufficient to provide a complete, accurate and reliable presentation.

All Proposals must contain the following:

1. Cost Proposal Form, attached as **APPENDIX A** (to be submitted in a separate, sealed envelope).
2. Signed Terms and Conditions, attached as **APPENDIX B**.
3. A brief paragraph describing the Vendor's understanding of the scope of work for this RFP.
4. A complete written description of Vendor's Proposal.
5. All submissions must be signed by an officer or authorized agent of the proposing Vendor.
6. Additional information that you believe pertinent to the Village's requirements.

All proposals must be submitted to the Village in a sealed opaque envelope no later than 4:00 p.m. EST on **Thursday, March 21, 2024**. Proposals shall be submitted electronically via email and hard copy. No telegraphic or facsimile proposals will be accepted. Any late proposals will be returned unopened.

Village of Garden City

Proposals received after the above date and time will not be considered. The Village is under no obligation to return proposals.

Proposals (technical and cost) shall be submitted to:

**Incorporated Village of Garden City
351 Stewart Avenue
Garden City, New York 11530
Attention: John V. Borroni, P.E., Superintendent of Public Works**

E-mail submissions shall be sent to:

**rsuozzi@gardencityny.net
ggiovanniello@gardencityny.net
jborroni@gardencityny.net
pblake@gardencityny.net
ahill@gardencityny.net
cbandini@gardencityny.net
atock@gardencityny.net**

It is each Vendor's responsibility to carefully review all the requirements of this RFP, including the scope of work, the specifications and terms and conditions. It is further the Vendor's responsibility to ask questions, request clarifications or otherwise advise the Village if any language, specifications or requirements of this RFP appear to be ambiguous, contradictory or inadvertently restrict or limit the Vendors that could meet the requirements of this RFP to a single source.

Parties are encouraged to provide as much additional material and detail as possible to completely describe and demonstrate the Proposal.

The Village is under no obligation to respond to any question, inquiry or assertion that is not received in writing. All questions regarding this RFP shall be submitted by e-mail and, if deemed necessary, will be clarified with answers posted on the NYS Contract Reporter Website or by addendum issued to all Vendors. No questions will be answered verbally. E-mails shall be sent to the attention of Andrew Tock, EIT, Civil Engineer, at atock@gardencityny.net. Vendors should submit all question(s) prior to close of business no later than two (2) working days (excluding weekends and holidays) before the submission deadline. Violation of these provisions may result in immediate disqualification. The Village may share any questions and responses with all parties known to be in receipt of this RFP.

No contact with any other Village personnel, other than the authorized contact person, is allowed until such time(s) as an award (or awards) has (have) been made.

Proposal Evaluation Criteria

Proposal elements, as described above, will be reviewed and evaluated for completeness and responsiveness according to pre-determined standards and selection criteria. Proposals will be deemed responsive only if the Vendor responds to and meets all requirements of this RFP. The Vendors may be invited for interviews to discuss project requirements and proposal elements in more detail.

Village of Garden City

The Village reserves the right to award all or any part of this project, waive any technical irregularities or omissions, or cancel this RFP and solicit new proposals if, in the Village's sole judgment, the best interests of the Village will be served.

The RFP will be evaluated using the following criteria for scoring each submission:

1. Experience of the Vendor in assignments of similar size, scope and complexity (20% of the technical rating).
2. Experience of key personnel and specialists in assignments of similar size, scope and complexity (20% of the technical rating).
3. Experience of the Vendor in design of Pool Slides (20% of the technical rating).
4. The Vendor's proposed understanding and approach of the scope of services. (15% of the technical rating).
5. Vendor's previous experience with the Village and other municipal clients (5% of the technical rating).
6. Availability of Vendor and specialists to undertake project in a timely manner and meet deadlines (10% of the technical rating).
7. Cost of services (10% of the technical rating).

The Village will consider any other relevant factors. The Village reserves the right to award an agreement to a Vendor or Vendors other than the Vendor offering the lowest overall cost. Nothing contained herein shall obligate the Village to make an award on the basis of this solicitation.

John V. Borroni, P.E.
Superintendent of Public Works

JVB:ca
cc: Messrs. Ralph V. Suozzi
 Giuseppe Giovaniello
 Paul Blake
 Andrew Hill
 Craig T. Bandini, P.E.
 Andrew Tock, EIT

APPENDIX A

COST PROPOSAL

(To be submitted in a separately sealed envelope)

The fee proposal shall include all the services required in the Request for Proposal for the services outlined herein. Estimated completion time must be included with cost proposal.

The Village will evaluate the fee proposal of the Vendor who is technically rated first, with a goal to negotiate an Agreement that represents the best value to the Village for these defined services.

Vendor: _____
Title: _____

Proposed Services

Total

Community Park Pool Slide Replacement: Provide analysis and deliverables required for Community Park Pool Slide Replacement including all services as outlined in the RFP.	\$ _____
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Total: _____

Estimated Completion Time

Number of Days : _____

The undersigned hereby certifies his or her compliance with the following:

“NON-COLLUSIVE PROPOSAL CERTIFICATION”

By submission of this Proposal, each Vendor and each person signing on behalf of any other Vendor certifies, under penalty of perjury, that to the best of his or her knowledge and belief:

- A. The prices of this Proposal have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other Vendor or with any competitor; and
- B. Unless otherwise required by law, the prices which have been quoted in this Proposal have not been knowingly disclosed by the Vendor and will not knowingly be disclosed by the Vendor prior to opening, directly or indirectly, to any other Vendor or to any competitor; and
- C. No attempt has been made or will be made by the Vendor to induce any other person, partnership or corporation to submit or not to submit a Proposal for the purpose of restricting competition.
- D. The undersigned has carefully examined the Proposal and Contract Documents and agrees to perform this contract and to provide all services, labor, material and equipment necessary for this contract.

APPENDIX A (“COST PROPOSAL”) should be filled out and submitted in a separate sealed envelope, apart from the Vendor’s technical response. Both the technical response and cost proposal should be returned as described in the RFP.

NAME OF VENDOR:

SUBMITTED BY:

SIGNATURE:

DATE:

APPENDIX B

**TERMS AND CONDITIONS
BETWEEN OWNER AND VENDOR
FOR PROFESSIONAL SERVICES
RELATED TO THE**

COMMUNITY PARK POOL SLIDE REPLACEMENT DESIGN

These are the terms and conditions between The Village of Garden City (“Owner”) and _____ (“Vendor”). Owner's Project, of which the Vendor's services under this Agreement are a part, is generally identified as Community Park Pool Slide Replacement Design. The Vendor's services under this Agreement (Services) are generally identified as to provide professional engineering services related to Community Park Pool Slide Replacement Design.

Owner and the Vendor further agree as follows:

1.01 Services of the Vendor

A. The Vendor shall provide or furnish the Services set forth in this Agreement, and any Additional Services authorized by Owner and consented to by the Vendor. The scope of work is for the Vendor to provide analysis and deliverables, outlined in the RFP, required for the Community Park Pool Slide Replacement Design.

2.01 Owner's Responsibilities

A. Owner shall provide the Vendor with existing Project-related information and data in Owner's possession and needed by the Vendor for performance of the Vendor's Services. Owner will advise the Vendor of Project-related information and data known to Owner in the Owner's possession.

3.01 Schedule for Rendering Services

A. The Vendor shall complete its Services within a reasonable period of time.

B. Project Delays: The Vendor expressly acknowledges that delays in completion of the Project may result in damages to the Village. In the event the Project is delayed because of a design or engineering error caused by the Vendor, or any officer, agent or employee thereof, the Owner may charge the Vendor the actual cost of the delay damages until (1) the Project is back on schedule; or (2) a revised schedule is set for completion of the Project. The Vendor shall pay the Owner for such charges.

C. If Owner authorizes changes in scope, extent, or character of the Project or the Vendor's services, then the time for completion of the Vendor's services, will be adjusted equitably.

D. If the Vendor fails, for reasons within control of the Vendor, to complete the performance required in this Agreement within the time set forth, as duly adjusted, then Owner shall be entitled, to the recovery of damages to the extent, if any, resulting from such failure by the Vendor.

4.01 Invoices and Payments

A. Invoices: The Vendor shall prepare invoices in accordance with its standard invoicing practices and submit the invoices to Owner. Invoices will be due and payable within 30 days of receipt. The Vendor shall be compensated on a monthly basis, by no later than the 20th of each month, for all services performed or completed during the preceding month. At the end of each month, the Vendor shall submit a written invoice to the Village detailing all services performed or completed during the preceding month, providing a breakdown of the specific tasks performed, the time allocated to each task and the charges and/or fees associated therewith.

B. Payment: As compensation for the Vendor providing or furnishing Services, Owner shall pay the Vendor as set forth in this Paragraph 4.01, Invoices and Payments. If Owner disputes an invoice, either as to amount or entitlement, then Owner shall promptly advise the Vendor in writing of the specific basis for doing so.

C. Basis of Payment

1. Lump Sum. Owner shall pay the Vendor for Services as follows:

- a. Lump Sum: In exchange for acceptable performance of the Services, the Village shall pay the Vendor up to the total compensation stated in the Proposal, or in the authorized portion(s) thereof.
- b. In addition to the Lump Sum amount, reimbursement of the following expenses: None.

5.01 Termination

A. Termination for Cause

1. The Owner may terminate the Agreement without cause at any time and for any reason upon written notice to the Vendor.

6.01 General Considerations

A. Technical Accuracy: Owner shall not be responsible for discovering deficiencies in the technical accuracy of the Vendor's services. The Vendor shall correct deficiencies in technical accuracy without additional compensation, unless such corrective action is directly attributable to deficiencies in Owner-furnished information.

B. The Vendor's opinions of probable construction cost (if any) are to be made on the basis of the Vendor's experience, qualifications, and general familiarity with the construction industry.

C. The Vendor shall be responsible for any decision made regarding the construction contract requirements, or any application, interpretation, clarification, or modification of the construction contract documents, other than those made by the Vendor.

D. Ownership of Deliverables, Intellectual Property. Any and all plans, maps, surveys, specifications, work product or other deliverables prepared for the Owner by the Vendor shall be the property of the Owner upon payment in full for all services rendered by the Vendor as of the date of delivery. Any modifications to such items, or use of such items for a purpose other than that for which they were specifically created, by anyone other than the Vendor are performed at the Owner's risk. To

the extent the Vendor may claim intellectual property rights with respect to all or any portion of the work products or deliverables prepared for the Owner, the Vendor hereby grants the Owner a non-revocable license to possess and use such property for the Owner's purposes. All documents prepared or furnished by the Vendor are instruments of service, and the Vendor retains an ownership and property interest (including the copyright and the right of reuse) in such documents, whether or not the Project is completed. The Vendor grants to Owner a limited license to use the deliverable documents on the Project, extensions of the Project, and for related uses of the Owner, subject to receipt by the Vendor of full payment due and owing for all Services relating to preparation of the deliverable documents, and subject to the following limitations:

E. Owner and the Vendor agree to transmit, and accept, Project-related correspondence, documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website, in accordance with a mutually agreeable protocol.

F. This Agreement is to be governed by the laws of New York State.

7.01 Definitions

A. Constructor—Any person or entity (not including the Vendor, its employees, agents, representatives, subcontractors, and subconsultants), performing or supporting construction activities relating to the Project, including but not limited to contractors, subcontractors, suppliers, Owner's work forces, utility companies, construction managers, testing firms, shippers, and truckers, and the employees, agents, and representatives of any or all of them.

B. Constituent of Concern—Asbestos, petroleum, radioactive material, polychlorinated biphenyls (PCBs), lead based paint (as defined by the HUD/EPA standard), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to laws and regulations regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

8.01 Successors, Assigns, and Beneficiaries

A. Successors and Assigns

1. Owner and the Vendor are hereby bound and the successors, executors, administrators, and legal representatives of Owner and the Vendor (and to the extent permitted by Paragraph 8.01.A.2 the assigns of Owner and the Vendor) are hereby bound to the other party to this Agreement and to the successors, executors, administrators, and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.

2. The Agreement is binding upon any permitted successors, assigns and heirs; provided, however, that neither party shall directly or indirectly transfer or assign any of its rights and/or responsibilities hereunder in whole or in part without the written consent of the other party hereto, which may be withheld in its sole discretion, and any such transfer or assignment without said consent shall be void and unenforceable.

9.01 Dispute Resolution

A. Owner and the Vendor shall resolve all disputes in the following manner:

1. Owner and the Vendor agree to negotiate all disputes between them in good faith for a period of 30 days from the date of notice.

2. If the parties fail to resolve a Dispute through negotiations under Paragraph 9.01.A.1, then the parties may exercise their rights at law. Any legal action may only be brought in a court of competent jurisdiction in Nassau County, New York.

10.01 Indemnification

A. Indemnification by the Vendor: To the fullest extent permitted by Laws and Regulations, the Vendor shall indemnify and hold harmless Owner, and Owner's officers, directors, members, partners, agents, and employees, from losses, damages, and judgments (including reasonable consultants' and attorneys' fees and expenses) arising from third-party claims or actions relating to the Project.

11.01 Insurance

A. The Vendor shall purchase and maintain the following insurance policies, with at least the following policy limits, which policies shall be maintained in full force and effect for the duration of the Contract:

1.	Commercial General Liability Coverage:	
a.	Per Occurrence:	\$1,000,000
b.	Aggregate:	\$2,000,000
2.	Workers Compensation Coverage:	Statutory
a.	Employer's Liability	\$1,000,000
3.	NYS Disability Coverage:	Statutory
4.	Professional Liability Insurance:	\$5,000,000/wrongful act \$5,000,000/aggregate
5.	Umbrella/Excess Liability:	\$5,000,000occurrence \$5,000,000/aggregate

B. All policies above shall be written by a carrier admitted to do business in the State of New York and with an AM Best Rating of A-VII or better. "The Incorporated Village of Garden City" shall be named as an Additional Insured on all policies except the Vendor's Professional Liability Insurance. Additionally, all policies, except the Vendor's Professional Liability Coverage, shall be written on an Occurrence-based form. The Village, as Additional Insured, shall be entitled to 30 days written notice of cancellation or renewal of any policy. All policies shall be written on a primary, non-contributory basis and include waiver of subrogation coverage in favor of The Village. The Vendor shall provide the Village with certificates of insurance and copies of all policies upon demand. If the Vendor retains or hires any subcontractors in the course of its performance under the Contract, the requirements of this paragraph shall be binding and transferrable to each subcontractor so retained or hired, unless the Village authorizes an exception prior to said subcontractor performing work for the Village.

12.01 Confidentiality

A. The Vendor acknowledges that, in the course of performing services under this Contract, it (or its officers or employees) may come into possession of "confidential information" (i.e. information in whatever form that is not obliged by applicable law and/or regulation to be made available to the public by the Village; or if obliged to be made available to the public by the Village, available through specific

processes of law and/or regulation). The Vendor agrees not to disclose any such confidential information to any person at any time following the expiration or termination of this Contract until/unless such information ceases to be confidential, and is available to the public under applicable process of law. The Vendor acknowledges that the foregoing obligations are in addition to (and not in limitation of) any obligations under law to maintain the confidentiality of governmental information, the Vendor further acknowledges that it may be liable for actual, direct damages suffered by the Village as a result of any unauthorized disclosure by it or any officer or employee thereof.

13.01 Independent Contractor

A. The Vendor hereby acknowledges and agrees that its performance pursuant to the Contract shall be that of an independent contractor. The Vendor shall not represent itself as a Village employee to any third party, nor shall the Vendor make any claim of any sort to the Village, or to any other person or entity, for benefits or privileges granted to the Village's employees, including but not limited to Unemployment and Workers Compensation benefits. The Vendor further acknowledges and agrees that the Village shall not take and deduct or withhold from the Vendor's compensation for the purpose of paying any federal or state taxes or other assessments, costs, expenses or obligations which the Vendor, or its officers, agents or employees, may incur as a result of receiving compensation pursuant to this agreement.

14.01 Miscellaneous

A. Notices: Any notice, request or other communication hereunder shall be given in writing and shall be served either (i) personally, (ii) by reputable overnight delivery service or (iii) delivered by certified mail, postage prepaid, certified return receipt and addressed to the following addresses:

- a. If to the Village of Garden City:
351 Stewart Avenue
Garden City, NY 11530
Attn.: Superintendent of Public Works

With a copy to:
GERARD FISHBERG
Cullen & Dykman, LLP
333 Earle Ovington Boulevard, 2nd Floor
Uniondale, New York 11553

B. Survival: Subject to applicable Laws and Regulations, all express representations, waivers, indemnifications, and limitations of liability included in this Agreement will survive its completion or termination for any reason.

C. Severability: Any provision or part of the Agreement held to be void or unenforceable under any Laws or Regulations will be deemed stricken, and all remaining provisions will continue to be valid and binding upon Owner and the Vendor.

D. No Waiver: Modification and Waiver: The Agreement may be modified only by written agreement signed by both parties. The failure by one party to insist upon strict compliance with the terms and conditions of the Agreement in one instance shall not be deemed a waiver of that party's right to insist upon performance at any point in the future.

15.01 Total Agreement

A. This Agreement (including any expressly incorporated attachments), constitutes the entire agreement between Owner and the Vendor and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

WHEREFORE, the parties have signed this Agreement as of the _____ day of _____, 2024.

**INCORPORATED VILLAGE OF
GARDEN CITY**

By: _____

Name:

Title:

Date:

VENDOR

By: _____

Name:

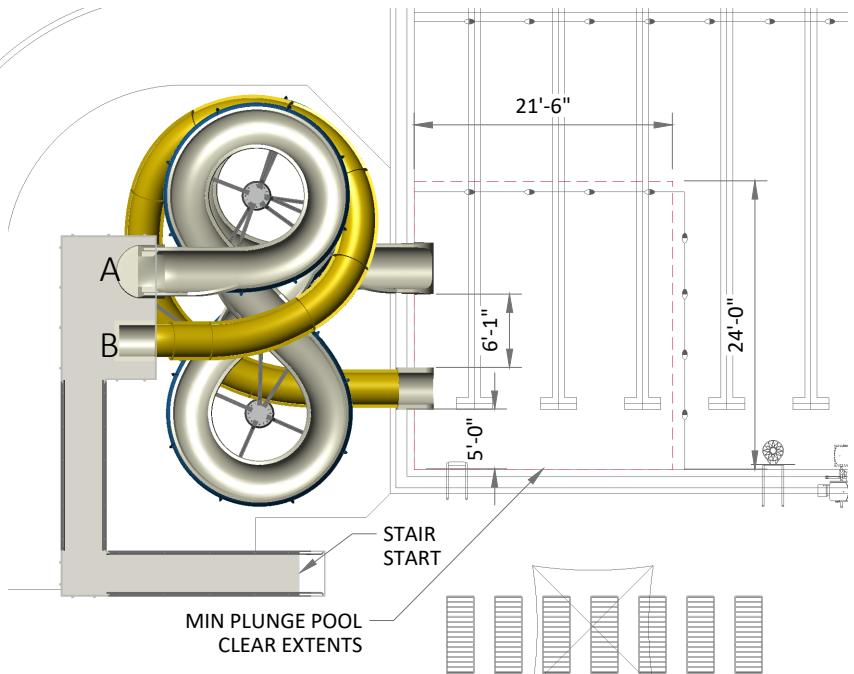
Title:

Date:

APPENDIX C: BASIS OF DESIGN

MARK	SLIDE TYPE	GPM	HEIGHT (ft)	LENGTH (ft)
A	42" OPEN FLUME BODY SLIDE	800-1000	19.83'	147.65'
B	32" ENCLOSED BODY SLIDE	300-500	19.83'	88.87'
C	FAMILY SLIDE - 8' WIDE	300-500	5.25'	19.69'
	TOTAL LENGTH:			256.21'

Slide height is from finished pool deck to finished start deck.
Water level assumed level with pool deck.

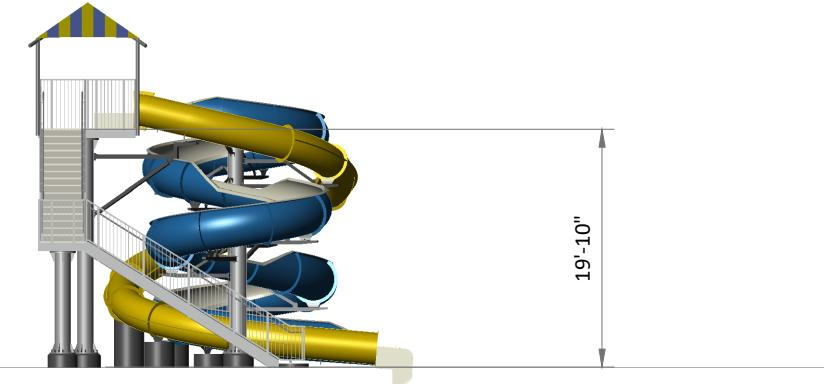


START DECK
EL. 119.83'

POOL DECK
EL. 100.00'

WATER LEVEL
EL. 100.00'

WATER DEPTH
= 3'-6"



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Colors shown here will differ from actual colors due to variations in the calibration of computer monitors and printers. Translucent fiberglass depicted on this color rendering and the amount of transparency shown is only for facilitating the location of translucent fiberglass sections. Refer to actual fiberglass samples for an accurate representation of the color and translucency.

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SPLASHTACULAR
Waterslides and Waterpark Attractions

401 N. East Street
Paola, KS 66071

v. 800.844.5334
f. 913.294.2496

TITLE: PROPOSED OUTDOOR SLIDE LAYOUT

PROJECT:

CLIENT:

DATE: 5/26/2023

DESIGNER: BCM/SCM

COUNTRY: USA

SCALE: NTS

15

CITY: MACON

STATE: MISSOURI

PRELIMINARY
NOT FOR CONSTRUCTION

SLD 5

1 OF 2

Waterslide Specification
SECTION 13150-1 FIBERGLASS WATERSLIDES
Project Name Here

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Waterslides:

1. 42" Open Body Slide
2. 32" Diameter Enclosed Body Slide
3. 32" Diameter Enclosed Body Drop Slide
4. 32" Wide Open Flume Drop Slide
5. 32" Combination Enclosed/Open Speed Body Slide
6. 54" Diameter Enclosed Raft Ride
7. 54" Wide Open Flume Raft Slide
8. 84" Open Flume Family Slide
9. 21" Open Flume Single or Multi-Lane Kiddie Slide
10. 8', 9', 10', 11' or 12' Wide Family Slide
11. Splashbowl

1.02 RELATED SECTIONS

A. Section 03300: Concrete

1.03 DESCRIPTION

A. Work Included:

1. Furnish and install fiberglass waterslides and special effects as indicated on the drawings, specified herein, and as necessary for proper completion including, but not necessarily limited to:
 - a. Minimum qualification requirements.
 - b. Design and engineering requirements.
 - c. Insurance requirements.
 - d. All fiberglass flume components.
 - e. All flume structural support systems.
 - f. Tower, platforms, stairs, railings and related supports.
 - g. Installation supervision, ride testing and certification.
 - h. Labor to complete the installation of the waterslides, supports and tower(s).
 - i. Operations and maintenance manuals.
 - j. On-site training of swimming pool staff.
 - k. Proper safety signage.

B. Related work specified elsewhere: (to be completed by others)

1. All demolition and repairs to decks, fences and landscaping.
2. All electrical works, buildings, permits, and modifications if any to the pool walls and waterslide areas. All necessary utilities required for installation and operation of the waterslide and special effects areas (if applicable) as specified by manufacturer.
3. Building wall and pool wall penetrations, weather proofing and/or sealing of building penetrations once waterslide is installed.
4. Installation and supply of mechanical and electrical equipment, including but not limited to waterslide pumps, controls and switches, electrical connections and wiring, and related piping clear to starter tubs.
 - a. Drainage, ballast tanks, filtration, pumps, etc., for runout and splashdown pools if applicable.

- b. Plumbing connections per manufacturer's schematic, including balanced T-connections for multi-feed waterslides.
 - c. Plumbing supports, including clamps applied to waterslide support tower.
 - d. Electrical bonding/grounding
 - e. Grouting under base plates and installation of weep holes.
 - f. Grating if applicable.
- 5. The waterslide manufacturer will need adequate access at all times to and around the area of the waterslide. At a minimum, the manufacturer will need unobstructed access for an all-terrain manlift and a 10,000 lb. Lull. Depending on the complexity of the waterslide and at the waterslide manufacturer's sole discretion, a 25-ton crane may also be utilized.
- 6. Inner tubes, rafts and/or mats for applicable waterslides.

C. Concrete foundations:

- 1. Concrete foundation design shall be completed by the slide manufacturer and constructed by the general contractor or pool builder.
- 2. Anchor bolts for the slide foundations shall be hot-dip galvanized and supplied by the waterslide manufacturer along with full size paper templates for anchor bolt spacing.

D. Materials:

- 1. The waterslide(s), tower and stairways, structural steel supports and fiberglass shall be installed by the slide manufacturer or by a manufacturer-certified installation company.

E. Color:

- 1. Color shall be integral to the fiberglass. Fiberglass color shall be selected from a minimum of 180 RAL standard colors supplied by the waterslide manufacturer. Colors may be different inside and outside or staggered per piece if desired. A minimum of 10 translucent colors shall be made available if desired for an additional charge.

1.04 QUALITY ASSURANCE

A. Qualifications of Suppliers and Personnel:

- 1. The waterslide flume manufacturer shall have not less than 20 years of experience in the design and fabrication of similar fiberglass waterslides. The manufacturer shall provide appropriate Performance and Labor/Material Payment bonds, if required.
- 2. The waterslide erection supervisor shall not have less than 5 years of experience in the erection of fiberglass waterslides.
- 3. All waterslide fiberglass, decking and steel components must be made in the United States of America.
- 4. Product quality is of utmost importance. The waterslide manufacturer shall submit evidence of a written Quality Assurance Program and ability to provide finite analysis of the ride path(s) a minimum of 60 days prior to bid date in order to be considered as qualified at the sole discretion of the Aquatics Designer.
- 5. Manufacturer shall provide proof of insurance 30 days prior to bid date illustrating a minimum of \$1,000,000 general and product liability as well as an additional \$5,000,000 excess umbrella liability per occurrence. Manufacturer shall also provide proof of worker's compensation and employer's liability coverage with policy limits of \$1,000,000 per line item of coverage and proof of errors and omissions liability claims made coverage in the amount of \$1,000,000 each claim.

6. Dimensions and footing layout and design will vary between manufacturers. Those items shown on plans and specified are intended to establish minimum standards.
 - a. For bidding purposes, contractors should anticipate deviations from items shown on the plans and specified herein and submit their bid accordingly.
- B. Codes and Standards:
 1. In addition to complying with the waterslide manufacturer's specified requirements, the layout and design must comply with pertinent recommendations contained in:
 - a. Waterslide flumes shall comply with "WWA Considerations for Operation Safety", 1989 and updates, as published by the World Waterpark Association.
 - b. American Institute of Steel Construction. AISC Steel Construction Manual. 14th edition, 2011
 - c. American Concrete Institute. ACI 318-14 Building Code Requirements for Structural Concrete. 2014
 - d. American Society of Civil Engineers. ASCE 7-10 Minimum Design Loads for Buildings and Other Structures. 2010
 - e. International Code Council. 2015 International Building Code
 - f. American Institute of Steel Construction. Steel Design Guide 1: Base Plate and Anchor Rod Design. 2nd Edition. 2006
 - g. American Concrete Institute. ACI 301-10 Structural Concrete for Buildings. 2010
 - h. American Concrete Institute. ACI SP-066(04) Detailing Manual. 2004
 - i. ASTM F2376 Standard Practice for Classification, Design, Manufacture, Construction and Operation of Water Slide Systems.
 - j. Governing Building Code IBC 2009.
 2. Where provisions of pertinent codes and standards conflict with this specification, the more stringent shall govern.
- C. Manufacturer Qualifications:
 1. The company specializing in manufacturing products specified in this section with not less than 20 years of documented experience.
- D. Installer Qualifications:
 1. The company specializing in performing the work of this section with minimum 5 years of experience and must meet all Workers Compensation Insurance requirements.
- E. Engineering Qualifications:
 1. Design of waterslides shall be under the direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the state of _____ where the slide is being installed.

1.05 SUBMITTALS

- A. Those who wish to be considered for the mandatory pre-approval process must submit and receive approval no later than 30 days prior to bid opening of a complete AutoCAD plan view and elevations of all waterslide designs as well as specifications and finite analysis of the ride path(s). Drawings, data, test results, and other pertinent information listed above must be sent to _____. Approval is at the sole discretion of the Aquatics Designer. See PART 1, Section 1.07 PRE-APPROVAL.

B. Engineered drawings:

1. No later than 45 days after award of contract, and before any materials are delivered to the job site, the slide manufacturer shall submit the following drawings to the Aquatics Designer for approval:
 - a. Slide path design with X, Y, Z (elevation) coordinates.
 - b. Flume component details, including interface at slide entry and exit.
 - c. Flume structural support system details.
 - d. Foundation plans and details as required for flume structural support. Foundations shall be designed as required by the geotechnical report. Top of pedestal shall be above finish grade.
 - e. Mechanical schematic.
 - f. Schematic for slide and pool wall interface.
2. All welds shall be shown as currently recommended symbols of the American Welding Society.
3. All shop drawings shall be certified and sealed by a Professional Engineer registered in the State of _____ where the slide is being installed.
4. The slide manufacturer shall certify to the Owner that the depth, width, and length of the receiving pool(s) are acceptable and compatible with safety standards for the manufacturer's designed product.
5. The slide manufacturer shall certify to the Owner that the specified minimum width and length of the fiberglass flumes as described in PART 2, Section 2.01 WATERSLIDE RIDES, Paragraph D., Item 1. has been satisfied.

1.06 GUARANTEE/WARRANTY

- A. All work of this section shall be warranted against all defects of material and/or application for a period of one (1) year from date of acceptance. Any failures that may occur within this warranty period, due to defective installation and/or materials, shall upon written notification of such failure be repaired or replaced in a timely manner. The exterior of the fiberglass parts that are exposed to view shall have a three (3) year color retention limited warranty such that the parts will not exhibit more than 15% color degradation during the warranty period.

1.07 PRE-APPROVAL – Mandatory

- A. Slide manufacturer may be considered as a pre-approved equal if their design layout is approved a minimum of 30 days prior to bidding and all minimum bid requirements in this section and PART 1, Section 1.05 SUBMITTALS are met.
- B. The following manufacturers will be approved for this project. Manufacturers will automatically be disqualified if minimum requirements in the Project Manual are not satisfied and products are not manufactured in the United States of America. The following company(s) have been pre-approved for this project:
 1. Splashtacular, LLC, 401 N. East Street, Paola, Kansas 66071
(800-844-5334 ext. 200)

PART 2 - PRODUCTS

2.01 WATERSLIDE RIDES

- A. Fiberglass Laminate Materials:
 1. Gel Coat: Interior gel coat shall be high quality isophthalic polyester with U.V. inhibitors. Gel coat thickness shall be 18 to 20 mils on ride surface and 20 mils on exterior coating. Translucent and opaque fiberglass shall also have an exterior UV protection clear coat. Follow instructions in Gel Coat Application Procedure ISO PP025.0 and Control Spray Procedure ISO PP020.0

2. Resins: Thixotropic promoted low-profile polyester resin with alternate layers of continuous roving chop and 18 oz. woven roving. No fillers shall be allowed in the fiberglass laminate materials.
3. Structure: Fiberglass lamination with sandwich panel centerline reinforcement. Standard flume section shall be 3/16" thick, minimum weight 20 oz. per square foot. Flanges shall be a minimum 1/4" thick and extend at least 3-3/4" from the slide surface, "L" type. Verify gel coat thickness using a mil gauge as described in Mil Gauge Procedure ISO PP 095.0.
4. Confirm proper cure level on the gel coat following the guidelines in Barcol Impressor Procedure ISO PP090.0.
5. Apply chopped glass reinforcement according to specified thickness using Spray Up Procedure ISO PP030.0 and Control Spray Procedure ISO PP020.0.
6. Verify laminate thickness using a mil gauge as described in Mil Gauge Procedure ISO PP095.0.
7. Verify proper cure on the part per guidelines in Barcol Impressor Procedure ISO PP 090.0.
8. Using guidelines in De-Molding Procedure ISO PP075.0, remove the completed part from the mold.
9. Trim edges and perform required cut outs per customer specifications.
10. Inspect part to verify compliance to specifications and apply required quality sticker per Quality Inspection Procedure ISO PP145
11. The exterior of all fiberglass parts that are exposed to view shall be coated with an exterior UV protection clear coat.

B. Joints, Connections and Seams:

1. Flume to flume fiberglass joints shall be fastened with 3/8" diameter 304L stainless steel bolts, washers (2 per bolt), and lock washers. Indoor installations shall utilize 316 stainless steel flange hardware.
2. Flume to support system connections shall be made with galvanized steel hardware and shall be connected separately from waterslide section connections to the exterior flange of the flume. Hardware will not be painted.
3. All connections shall be external to flume interior. No connection, hardware or penetration shall be made to flume interior.
4. Fiberglass joint connections shall be made using waterproof non-shrink marine-grade caulking with suitable adhesion to fiberglass. Silicone sealants will not be permitted. Caulking shall be supplied by the slide manufacturer.
5. All joints shall have a minimum of 3 layers of custom rubber gasketing to prevent leaks.
6. Laminating fiberglass or gel coat over seams within the riding surface is not permitted. Sanding within the slide surface should be minimized to maintain adequate gel coat thickness and gloss. Any sanded areas shall be polished to a high gloss until undetectable.

C. Color:

1. Color shall be integral to the fiberglass. The color shall be selected by the engineer and owner from a minimum of 180 standard RAL colors supplied by the waterslide manufacturer. Color may be different inside and outside or staggered per piece at no additional charge on open flumes as well as enclosed slides. Starter tubs will have same interior and exterior color. Non-visible portions of runout sections will not be required to have a gel-coat application.

D. Waterslide Configurations:

1. All waterslide layout(s) have been developed utilizing slide path designs provided by Splashtacular, LLC. Ride configurations include:
 - a. Slide A: Open body slide with a minimum inside riding surface width of 42" as well as a minimum centerline length of _____ as shown on the

drawings, complete with fiberglass starter section and including a skirted end cap with return flange back to pool wall.

- b. Slide B: Enclosed body slide shall be designed to have a minimum inside diameter of 32" as well as a minimum center line length of _____ as shown on the drawings, complete with fiberglass starter section and including a skirted end cap with return flange back to pool wall.
- c. Slide C: The closed flume raft slide shall have a minimum inside diameter of 54" with a minimum centerline length of _____ as shown on the drawings, complete with fiberglass starter section and including a skirted end cap with return flange back to pool wall.
- d. Slide D: The enclosed/open flume speed slide shall be designed to have a minimum inside riding surface of 32" along with a minimum centerline length of _____ as shown on the drawings, complete with fiberglass starter section and including a skirted end cap with return flange back to pool wall.
- e. Slide E: Open Family slide with a minimum inside riding surface width of 84" as well as a minimum centerline length of _____ as shown on the drawings, complete with fiberglass starter section and end cap.

2. Length shall include the starter tub and end cap (return flange)
3. Alternate size products will not be considered if any of the specifications are not exact. All rides must commence and terminate at the same location and elevation, meet minimum centerline lengths and configuration, utilize the specified radius, meet the minimum inside width and all other features of the specifications.

E. Required Components:

1. Starter tub shall be pre-plumbed for water injection downstream of the rider entry point. Starter tub entry area shall be a non-skid surface, no steps are permitted.
2. Riser sections are required on all curved open flume sections for rider safety and to control water loss. Risers shall be integral to the flume; bolt-on sections will not be acceptable except for risers on open flume raft slides that have an inside width of 84" and greater.
3. Riser ends will provide a smooth transition at the beginning and ending of each riser and shall be integral to the flume section.
4. The flume shall be perpendicular to the pool wall for at least 10' from its end and shall not slope greater than one 1' vertically in the last 10' and meet State code requirements.
5. End cap section shall provide a smooth finished end piece which provides safe pool entry and masks connection to the pool. End cap section shall terminate between 6" below and 2" above the water level and meet State code requirements. End cap section shall have a skirt returning to pool wall.
6. Fiberglass sections will be factory pre-drilled.
7. Joint sealant will be waterproof non-shrink marine-grade caulking with suitable adhesion to fiberglass.
8. Custom triple rubber gasketing system is required between all fiberglass joints.
9. Fiberglass to fiberglass assembly hardware shall be 304L stainless steel for outdoor installations and 316 stainless steel for indoor installation.

F. Flume Structural Support System:

1. Structural steel support columns, arms and cross bracing as required by the design to support the waterslides. All steel components shall be hot-dip galvanized for maximum corrosion protection.
2. Connecting hardware and yokes as required by the design. Connecting hardware to attach the slide to structural components shall be hot-dip galvanized. Yokes for connecting flumes to structural elements shall be hot-

dip galvanized steel fabricated to match the exterior flume flange as a minimum standard.

3. Slide manufacturer shall design all concrete footings, foundations and columns as required for the waterslide design. Slide manufacturer shall submit preliminary foundation layout plan showing quantities, typical dimensions, and typical details with their bid.

G. Column Support System:

1. A single or multiple column system shall be used.

H. Waterslide Tower and Stairway System:

1. Tower columns, cross bracing, tension rods, stairway supports, stairway sections and handrailing shall be hot-dip galvanized, designed and prefabricated for bolt-up installation. No field welding will be allowed. Guard railing balustrades shall be hot-dip galvanized square and rectangular steel tubing with $\frac{1}{2}$ " diameter solid steel round balusters.
2. Manufacturer shall provide a hinged, lockable gate at the base of the waterslide tower.
3. Prefabricated stairway sections shall include stringers constructed of hot-dip galvanized steel.

Switch-back and wrap-around towers:

Stair treads will be pultruded fiberglass treads with an integral riser and bottom plate. Stair tread width will be
 40" wide (36" between grabrails, with grabrails on both sides of the stairs).
 52" wide (48" between grabrails, with grabrails on both sides of the stairs).
 60" wide (57" between grabrails, with grabrails on both sides of the stairs).

Decks and landings will be pultruded fiberglass treads with an integral bottom plate.

Stair treads, stair risers and nosing shall all comply with IBC 1009.3.3. Risers shall be solid and slope from the underside of the leading edge of the tread above at an angle not more than 30 degrees from the vertical. Treads with horizontal cantilevered overhangs are not permitted and in no case can the tread project more than 1.25" beyond the tread below. Galvanized or stainless-steel pans are not allowed.

Spiral towers:

Stair treads will be pultruded fiberglass treads with an integral bottom plate and stainless-steel riser. Stair tread width will be
 44" wide (36" between grabrails, with grabrails on both sides of the stairs).
 55" wide (48" between grabrails, with grabrails on both sides of the stairs). Galvanized or stainless-steel pans are not allowed.

Decks and landings will be pultruded fiberglass treads with an integral bottom plate.

4. Guard railing system shall be a minimum of 42" high when measured from the stair nosing with the exception of the top landing which shall be a minimum of 50" high. Guard railing, balustrades and handrails shall be hot-dip galvanized steel.

I. Structural Systems:

1. Structural supports, tower and walkway systems shall be designed to safely support these facilities given the following design criteria:
2. Seismic zone as required for _____.
3. Wind speed of _____ mph.
4. Snow load of (as required where slide is being installed) _____ psf.

5. Live load of 100 psf.
6. Other criteria as may be required by local regulatory authorities.
7. All concrete/footings shall have a minimum 28-day compressive strength of 4,000 psi.
8. W-shape steel shall meet the requirements of ASTM A992, Grade 50.
9. Channels, angles, plates and miscellaneous steel shapes shall meet the requirements of ASTM A36.
10. Structural tubing rectangular sections shall meet the requirements of ASTM A500, Grade B, (Fy = 46 ksi)
11. Structural tubing HSS 16.00 x 0.250 shall meet the requirements of ASTM A500, Grade B, (Fy = 42 ksi)
12. Steel pipe and 24"Φ x ¼" columns shall meet the requirements of ASTM A53, Grade B, (Fy = 35 ksi)
13. Bolts and nuts:
 - a. High Strength Bolts:
 - (1) All high strength bolts shall meet the requirements of ASTM 325N (snug tight) and/or A325SC (fully pre-tensioned) where noted.
 - (2) Use high strength friction bolts for all steel to steel bolted connections unless otherwise indicated.
 - (3) Bolt holes shall be 1/16" greater than bolt size (standard holes), unless noted otherwise. All bolt holes larger than the standard hole shall be considered oversized or slotted and require the installation of a washer.
 - (4) All bolts, nuts, and washers for steel to steel connections shall be hot-dip galvanized.
 - b. Anchor Bolts:
 - (1) All anchor bolts shall hot-dip galvanized and meet the requirements of ASTM F1554 (Fy = 36 ksi).
14. Hybrid FRP & Hot-Dip Galvanized Steel Towers. Hybrid FRP (fiber reinforced plastic) towers shall utilize a combination of FRP and hot-dip galvanized structural steel shapes. In general, all platform/landing framing, stair stringers, guard railing, decking and treads will be FRP. Support columns and cross bracing (if required) will be hot-dip galvanized steel. All FRP shapes shall be manufactured in the United States in an ISO 9001 certified manufacturing plant.

J. Steel Protection:

1. After galvanizing, all steel components shall be brush-abrasive blasted in accordance with SSPC-SPS-7. All steel shall then be cleaned, rinsed and oven-dried at 400 degrees Fahrenheit. All steel shall then be coated with one coat of Powdura RAL Series Super Durable TGIC-Free Polyester powder coating. Powder coating must use the Powder Galv® process and applied by a trained licensed applicator. Coating mils will be determined by the color chosen by the client but at a minimum 2.5 to 3.5 mils will be applied. The steel shall then be oven cured at 380 to 390 degrees Fahrenheit. All galvanizing and powder coating shall be factory applied.

K. Safety Signage:

1. Waterslide manufacturer shall provide a minimum of 2 signs for each waterslide tower listing safety rules and riding instructions. Sign shall be a rigid plastic or aluminum material and suitable for exterior installation.

L. Platform Covers:

1. The upper platforms and slide entry sections shall be protected from sun by a hot-dip galvanized steel frame topped with an acrylic fabric or woven vinyl impregnated polyester yarn shade. Fabric shall be attached to pipe frame using

straps, spring clips and ratchet straps. Bottom of fabric shall be 7' 6" above the finished floor of the waterslide tower.

M. Training and Certification:

1. Waterslide manufacturer shall provide on-site training by a management representative from the company as well as a certification letter. Waterslide manufacturer shall be given a two-week advance notice for scheduling training and certification.

PART 3 EXECUTION

3.01 SURFACE CONDITIONS

A. Inspection:

1. Prior to installation of the work of this section, the slide manufacturer or manufacturer-certified installation company will carefully inspect the installed work of other trades and verify that all such work is complete to the point where this installation may properly commence.
2. They will also verify that fiberglass slides and structural support systems are fabricated and erected in strict accordance with original design.

B. Discrepancies:

1. In the event of discrepancy, will immediately notify the Engineer.
2. They will not proceed with fabrication or installation in areas of discrepancy until all such discrepancies are fully resolved.

3.02 FABRICATION

A. Fabrication of all waterslides and structural support systems will be in strict accordance with shop drawings and referenced standards.

B. Use of dissimilar metals in contact shall not be permitted.

3.03 INSTALLATION OF FOOTINGS AND FOUNDATIONS – by Others.

A. Foundations shall be installed in strict accordance with the shop drawings. All supplies, labor, and installation will be the sole responsibility of others and not the responsibility of the slide manufacturer. The waterslide manufacturer will supply hot-dip galvanized anchor bolts and associated hardware. Install shall be in accordance with manufacturer's structural drawings and instructions.

3.04 INSTALLATION & SUPPLY OF HYDRAULIC PACKAGE – by Others.

A. Minimum Required Water Supply:

1. Slide A: XXX GPM
2. Slide B: XXX GPM
3. Slide C: XXX GPM
4. Slide D: XXX GPM

3.05 WELDING

A. General

1. For details of joints, the waterslide manufacturer will comply with requirements for AWS joints accepted without qualification tests.
2. Field welds will not be permitted.
3. Use E-70XX series electrodes.

4. Follow applicable sections of AWS specifications.

3.06 ERECTION

- A. General:
 1. The slide manufacturer or manufacturer-certified installation company will erect all fiberglass waterslides and structural support systems in strict accordance with the shop drawings and all pertinent regulations and standards.
- B. Tolerance:
 1. Align all structural steel to be straight, plumb and level.
- C. Fiberglass Joints:
 1. All flange-to-flange connections shall be made utilizing the waterproof caulking and custom triple layer gasketing system supplied by the waterslide manufacturer and shall be joined in such a way as to provide for a safe and matless ride. All joints shall be aligned for a completely smooth riding surface, that is, alignment must be within 1/16" and in no case shall the downstream side of the joint be higher the upstream side of the joint.
- D. Steel Finishes:
 1. All steel components to be hot-dip galvanized for maximum corrosion protection. Any scarred surfaces shall be cleaned and cold galvanized with zinc rich paint. Surfaces which had a powder coated finish shall be cleaned and painted with color-matched Sherwin Williams' 2-part Acrolon 218.

3.07 CLEAN-UP

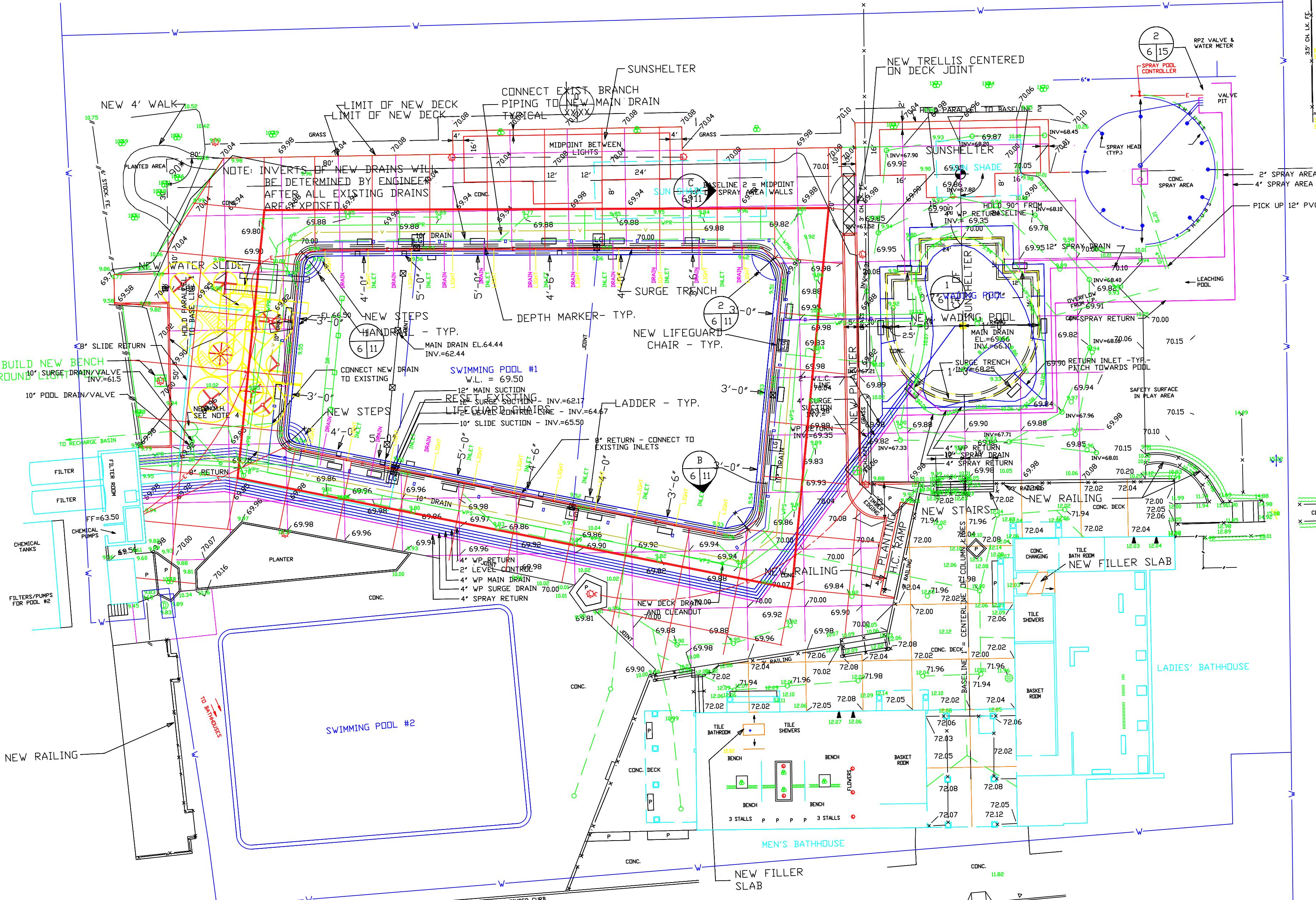
- A. Upon completion of the work of this section, the slide manufacturer or manufacturer-certified installation company will immediately remove all fiberglass, debris and rubbish occasioned by this work to the approval of the owner and at no additional cost to the owner.

3.08 OWNER INSTRUCTION

- A. Manufacturer shall train Owner's personnel in the operation and maintenance of the waterslide at the job site during pool start-up.

End of Section

APPENDIX D: POOL RECORD PLAN



NOTE: CONTRACTOR TO POUR NEW 5" THK SLABS TO REPLACE REMOVED CONCRETE. USE SAME WWF AS USED IN TYPICAL LOWER DECK SLABS. ENTIRE UPPER AND LOWER SNACK AREA TERRACE CONCRETE, INCLUDING RAMP TO BE COATED WITH INCRETE SPRAY DECK MATERIAL

E: UTILITIES ARE SHOWN SCHEMATICALLY FROM OLD CONSTRUCTION PLANS AND INFORMATION PROVIDED BY PARK PERSONNEL. NO GUARANTEE IS MADE OF THEIR ACCURACY OR COMPLETENESS. CONTRACTOR IS ADVISED TO EXCAVATE WITH CARE.

NOT

1. SEE SHEET 12 FOR TYPICAL EXPANSION JOINT DETAILS FOR WADING POOL AND MAIN POOL SURGE TRENCH.
2. SEE SHEET 13 FOR MAIN POOL LIFEGUARD CHAIR FOUNDATION.
3. SEE SHEET 13 FOR TYPICAL DEPTH MARKER DETAIL.
4. SEE SHEET 8 FOR PROPOSED FILTER ROOM SCHEMATIC.

NOTE

1. SUCTION PIPE FOR DOUBLE SLIDE
IS 12" DIAMETER. DISCHARGE PIPE
IS 10" DIAMETER.
2. FOR DOUBLE SLIDE SUBSTITUTE PACO
MODEL 8012-3 PUMP FOR PUMP SPECIFIED
FOR SINGLE SLIDE. PUMP TO SUPPLY 2,200
GPM @ 21' TDH

1. ALL NEW POOL PIPING TO BE PITCHED TOWARD FILTER BUILDINGS, UNLESS OTHERWISE NOTED.

2. CONTRACTOR TO EXCAVATE ENTIRE LENGTH OF PIPE TRENCH FOR POOL BEFORE LAYING ANY NEW PIPE. IF INTERFERENCE WITH OTHER PIPE IS ENCOUNTERED, INVERTS OF NEW PIPE WILL BE ADJUSTED OR EXISTING PIPE WILL BE OFFSET, AT THE DIRECTION OF THE ENGINEER.
3. NO PIPE TRENCH EXCAVATIONS WILL BE BACKFILLED UNTIL ALL PIPE HAS BEEN PRESSURE TESTED.
4. CONTRACTOR TO INSTALL NEW 5' DIA. STANDARD N.C. MANHOLE STRUCTURE AND COVER. INVERT ELEVATION OF MH =60.0' +/- (SUBJECT TO CHANGE AFTER LOCATION OF EXIST. DRAIN LINE HAS BEEN ESTABLISHED.)

