A. GENERAL REQUIREMENTS:

- 1. The Plans, Specifications and other contract documents will govern the Work. The Plans and Specifications and other contract documents are intended to be complimentary, to describe and provide for a complete project.
- 2. All Work shall be performed in accordance with current Local Building Codes and Standards and adopted Building Codes and/or Health Codes.
- 3. "Contractor" refers to the Contractor or Sub-Contractor responsible for the installation and construction of the Work contained in the W and WE Series documents and is responsible for meeting all the requirements contained on the Drawings, Specifications, and Notes.
- 4. The Contractor is responsible for coordinating all phases of Work contained in these (W and WE Series) construction documents with other construction trades and
- construction documents including but not limited to Civil, Structural, Mechanical, Electrical, Landscape, and Architectural trade work. 5. The Contractor is responsible for providing a complete installation of the systems included in these (W and WE Series) construction documents including pool shells, piping,
- mechanical equipment, electrical equipment, electrical components and power. 6. The Contractor is responsible for coordinating the installation and purchase of all the electrical components, including electrical devices, power panels, control panels, etc. as
- indicated on the Electrical (WE Series) Drawings for the complete operation of the systems.
- 7. The Contractor shall notify the Engineer / Architect of any discrepancies, omissions, or conflicts between various elements of the contract documents prior to proceeding with

such components. In the event of a conflict or discrepancy, the Contractor shall notify the Owner and Engineer/Architect and request for necessary relocations. Failure to

- any work involved in the discrepancy, omission, or conflict. Generally, the most stringent requirements shall govern the Work, unless otherwise directed. 8. The Contractor shall verify the location of all existing utilities including cables, conduits, pipes, water lines, gas lines, etc. and shall take proper precautions to avoid damage to
- follow this procedure places upon the Contractor the responsibility for making repairs or replacement at his own expense. 9. The Contractor shall provide necessary safeguards and exercise caution against damage to existing and new structures, structural components, and finishes. The Contractor
- shall be responsible for any damage resulting from his operations and shall repair or replace such damage at his own expense. 10. The Contractor shall verify all existing conditions, dimensions, elevations, etc. on the site and shall coordinate the Work to be performed with all trades. Do not scale
- 11. Shop Drawings shall be submitted by the Contractor to be reviewed and approved by the Engineer/Architect prior to fabrication, erection, and/or manufacturing of
- 12. Sizes, locations, loads, and anchorage of equipments shall be verified in the field with equipment manufacturers or suppliers prior to fabrication or installation of supporting
- 13. Temporary bracing shall be provided wherever necessary to take care of all loads, including wind, to which the structure may be subjected. Such bracing shall be left in place as long as may be required for safety or until all the structural elements are completed. All bracing shall be the responsibility of the Contractor.
- 14. The Contractor is responsible for safety and protection within and adjacent to the job site during construction.
- 15. During construction and after the Contractor and/or Owner shall keep loads on the structure within the limits of the design load.
- 16. Any special inspections required by the Building Official or the Building Code shall be the responsibility of the Contractor or Owner.
- 17. Visits to the job site by Representatives of the Engineer do not constitute approval of the Work performed by the Contractor or his Sub-Contractors and are merely for the purpose of observing the Work performed.
- 18. Failure to follow the Plans and Specifications constitutes change in project scope. The Engineer reserves the right to request replacement of any portion of the Work deviating from the Plans and Specifications where written approval has not been obtained. Deviation from the construction documents without written approval relieves the Engineer of all liability and the Contractor assumes full liability.

B. SITE WORK:

- 1. Prior to construction the Contractor shall verify all site conditions, dimensions, and elevations and shall coordinate the Work performed by all trades.
- 2. Refer to Soils Report and Geotechnical Engineer for additional requirements for excavation, backfill materials, ground water elevations, dewatering requirements, etc. The Soils Report will govern the Work related to excavation and backfill.
- 3. The Contractor shall excavate to required sub-grade elevations for all piping, footings, foundations, slabs, vaults, and structures necessary to complete the Work described in the construction documents.
- 4. All footings, slabs, and concrete shells shall bear on undisturbed natural material or properly placed engineered backfill. If a portion of the structure is on engineered fill then the entire structure shall be excavated and backfilled, so the entire structure is on engineered fill to minimize differential settlement.
- 5. Pipe trenches shall be excavated to full width and depth required for proper installation and in accordance with the pipe manufacturer's recommendations and applicable
- 6. Pipe Layouts shown in the construction documents represent the desired pipe routing, allowing for minor realignment required by field conditions. The Engineer of Record's approval is required for all major rerouting of piping.
- 7. All Pipe runs shall be installed with the least number of fittings and without air entrapping high points or reverse slopes.
- 8. Piping shall be fully supported along its entire length to prevent pipe deflections and in accordance with contract specifications. All fittings shall be adequately supported to resist thrust, vibration, and movement. Provide thrust blocks and bracing where needed.
- 9. All materials and installations of site piping, fittings, valves, concrete, shotcrete, etc. shall meet the requirements indicated in the written specifications. 10. Provide vapor barrier and provide 6 inches minimum of free draining granular material under all slabs-on-grade and pool and spa structures, U.N.O.
- 11. The slab should be supported on compacted sand fill and/or densified native sandsover engineered fill. Materials and installation must meet approval of geotechnical
- 12. Place engineered fill as required for an allowable soil bearing pressure of 3,000 PSF uniform (and 4,000 PSF point/edge load) bearing pressure. 13. The soil should be prepared for construction by compacting to a density of at lest 95% of the materials modified proctor maximum dry density (ASTM D-1557). The required
- compaction should be achieved for a depth of at least 2 feet below the bottom of the footing base. 14. All fill must be removed and replaced as required.

C. CONCRETE WORK:

- 1. All concrete placement work shall be in accordance with ACI-301 and ACI-302. When concrete is placed during hot weather conform to ACI-305R. When concrete is placed
- during cold weather conform to ACI-306R. 2. The Contractor shall provide the Owner with the Concrete Supplier's statement of mix proportions, anticipated 28 day compressive strength, and test reports.
- 3. Concrete test cylinders shall be made and stored in accordance with ASTM C-31. Records of test cylinders and test shall be sent to the Owner and the Engineer of Record for
- approval. If test cylinders are not prepared at time of concrete installation the Contractor shall be fully responsible for obtaining cored test samples and repairing concrete surface to the satisfaction of the Engineer of Record. All tests and samples shall be performed in accordance with ASTM standards and per the written specification.
- 4. The Contractor shall coordinate the location of penetrations with all other trades prior to placing concrete and install sleeves, block outs, etc. as required.
- 5. All penetrations through walls or slabs subjected to water shall be installed with a mechanical water stop or link seal. 6. All concrete structures holding or retaining water shall have water stops or water bars placed at all construction joints to protect reinforcement.
- 7. The Contractor shall be responsible for proper placement of all anchor bolts, imbeds, plates, etc. as required.
- 8. The Contractor shall be responsible for the design, detailing, care, placement, and removal of all form work and shoring. Do not remove forms and shoring until structural
- members acquire sufficient strength to support their own weight plus construction loads
- 9. All expansion joints shown on the plans shall be installed without change to the number or location except with the written approval of the Engineer of Record.
- 10. Joint sealant shall be either fiber expansion joint type conforming to ASTM D1751 or closed cell neoprene sponge rubber conforming to ASTM D1752.
- 11. Concrete mixture shall have a 28 day compressive strength of 5,000 psi (34.5 MPa) minimum.
- 12. Portland cement shall conform to ASTM C150, Type V or Type II with C3A<=5% with a water-cement ratio of 0.40. Air entrainment as recommended by ACI 318 and ASTM
- 13. Aggregates shall be clean, washed, non-friable, and uniformly graded to conform to ASTM C33.
- 14. See Project Specification for additional concrete requirements and admixtures.
- 15. Reinforcing Steel shall be deformed, now billet steel bars conforming to ASTM A615. Provide grades as noted in the contract documents, where the grade is not specified
- 16. Tie wires shall be soft annealed steel, 18 gauge minimum conforming to ASTM A82.

- 17. All concrete shall be water (damp) cured as described in the Project Specifications, unless the Engineer of Record has provided written approval for an alternative method.
- 18. The Contractor shall be responsible for the cleanup and removal from the site of all concrete debris and associated materials upon completion of the Work.

D. SHOTCRETE:

1. All Shotcrete materials, proportioning, and application shall conform to ACI 506.2.

- 2. The Contractor must have at least three (3) years experience in shotcrete application and shall provide the Engineer of Record with at least five (5) projects of this type and size which he has completed in a satisfactory manner.
- 3. Make three (3) test cylinders for each day of shotcrete application. Test cylinders in accordance with ACI 506.2.
- 4. Install adequate ground wires prior to shotcrete application to be used as screens to establish thickness and surface planes of shotcrete work. Place ground wires so they are
- tight and true to line and in a manner that they may be easily tightened.
- 5. Shotcrete shall be kept damp for at least ten (10) day after being placed as described in the Project Specifications.
- 6. The Contractor shall be responsible for the removal from the site all shotcrete debris, debris rebound, and construction waste materials upon completion of the Work. 7. Finished surfaces shall be cleaned to the approval of the Engineer of Record.
- 8. Mix design, compressive strength, cement type, and water ratio to match concrete see C. 11, 12, 13, etc on this sheet.

- 1. Buried site piping shall be PVC pipe and fittings having the NSF-PW seal of approval and shall be Schedule 40, Type I, Normal Impact, conforming to ASTM D1785-73, ASTM D2241-73, ASTM D2466-69, and ASTM D3036-72.
- 2. Schedule 80 PVC shall be used within the mechanical room and vaults, having the NSF-PW seal of approval, conforming to ASTM D1785-73, ASTM D2267, and ASTM D2464. 3. PVC solvent cement shall conform to ASTM D2564-73 and rubber gasket bell and spigot joints shall conform to ASTM D2855.
- 4. Copper pipe shall be hard drawn, Type K conforming to ASTM B88 and WWT-799.
- 5. PVC pipe installation shall conform to the requirement of Technical Report PPI-TTR 13 (8/73), Plastic Pipe Institute.
- 6. All valves shall have a minimum pressure rating of 125 psi (862 kPa).
- 7. All pipe installations shall be tested for water tightness. Piping installation shall meet the requirements of a Field Hydrostatic Pressure Test in accordance with the Project Specifications and in the presence of the Engineer's Representative.
- 8. All piping in contact with on-site soils shall be PVC, else provide corrosion protection system; protective coating or wrapping, etc.
- 9. All above grade PVC piping located inside structures, but exterior to the mechanical room shall be wrapped with two (2) layers of Firemaster to obtain a minimum two (2)
- 10. All above grade exposed PVC shall be painted with a UV resistant coating. 11. Install all piping without forcing or springing.
- 12. All bottom drains and suction fittings shall be constructed and installed in compliance with the Virginia Graeme Baker Act and ASME A112.19.8.2007/2008A or most current

F. POOL SHELL NOTES:

- 1. All skimmer and gutter lips shall be level within 3/16 inches (5 millimeters).
- 2. All corners protruding into the pool shall have a two (2) inched (5 centimeter) radius or larger.
- 3. The upper part of pool walls are to be within five (5) degrees of vertical for a minimum depth equal to the pool depth minus 30 inches (76 centimeters) and the radius joining
- the upper wall section to the floor shall be a minimum of six (6) inches (15 centimeters).
- 4. The Owner shall inspect concrete pool shell for water tightness and verify the pool is free from structural cracks prior to application of pool finish.
- 5. Do not install construction or expansion joints in pool floors or walls, unless indicated on the construction documents. Pour Strips shall be placed only where indicated in the
- 6. Water stops, inserts, pre-manufactured joints, bottom drains, skimmers, inlets, niches, anchors, etc. shall be properly placed and installed prior to placing concrete/shotcrete in accordance with the manufacturer's recommendations. 7. All reinforcing shall be two (2) inches (5 centimeters) minimum clear from face of concrete unless otherwise noted. Concrete placed against soil shall have three (3) inches (8
- centimeters) minimum clear. Typical reinforcement steel is centered in the slab and wall, unless otherwise noted. 8. Pool walls are designed for a maximum surcharge of 100 pounds per square feet (47 kPa). The Contractor shall avoid subjecting walls to additional surcharges during
- 9. All pool linings must be smooth, non-toxic, and not impart any taste or odor to pool water. 10. Provide hydrostatic pressure release plugs in pools (or equal) as required to prevent pools from lifting when empty, and subjected to ground water and or hydrostatic pressure.

Structures and Pools subjected to ground water shall have an under drain system connection by Civil Engineer.

- G. POOL STANDARDS: 1. The Work shall be in strict accordance with the local Department of Health Swimming Pool Requirements.
- 2. Install a testable backflow prevention device at all pool water source connections to main potable water supply line.
- 3. All hose bibs around the pool area, equipment rooms, and sanitary facilities shall be equipped with atmospheric vacuum breakers.
- 4. Pool waste water shall be discharged through a minimum six (6) inch (15 centimeter) air gap.
- 5. Provide a potable fill / makeup supply for each pool system with a six (6) inch (15 centimeter) air gap above the high water level. 6. All depth markings shall be placed at a maximum of 25 feet (7.6 meters) intervals and indicate the depth within three (3) inches (7.5 centimeters).
- 7. All tiles used to mark edges of steps, benches, and swim out areas shall be contrasting in color to the pool finish. Tiles on stair tread and benches shall be slip resistant. 8. All "Depth" and "No Diving" markings on horizontal surfaces shall be of slip resistant materials.
- 9. All pool stairs & treads shall have a slip resistant finish.
- 10. All pool equipment that comes in contact with pool/spa water shall be NSF approved.
- 11. All circulation and treatment pumps shall be NSF approved.
- 12. All flow meters shall be capable of reading 1.5 times the designed flow rate.
- 13. All pool chemicals shall be stored in accordance to manufacturer's recommendations under roofed structures and inaccessible to unauthorized persons. 14. All chemical dosing equipment for pool treatments systems shall be electrically interlocked to the pool's recirculation pump(s) such that dosing cannot continue when the
- 15. The pool heaters shall also be electrically interlocked with the pool treatment pumps to prevent heater operation when the treatment pumps are not in operation. 16. All electrical outlets within the pool area shall be GFCI rated.
- 17. Each pool/spa shall be provided with a standard rule sign in locations that are visible from all areas of the pool. Lettering for pool rules sign shall be at least 1" high.
- a. No Food or Beverages in the pool or on the pool wet deck. b. No glass or animals in the fenced pool area or within 50 feet (15.2 meters) from an unfenced pool.
- c. Bathing Load: ____ Persons

18. Swimming Pool Rules:

- d. Pool Hours: _____a.m. to _____p.m. e. Shower before entering pool.
- f. "No Diving [4" Letters] g. Do not swallow pool water.
- h. Do Not place furniture in pool.

- 18. Surface treatment of wet deck areas shall be impervious and slip resistant as specified by the Landscape Architect. Wet deck treatment shall also include the first 15 feet (4.5 meters) of walkways to the sanitary facilities.
- 19. One set of pool safety equipment per pool, as per code, shall be provided and shall consist of the following:
- a. One (1) life hook or shepherd hook with a 16 foot (4.9 meter) single piece pole.
- b. One (1) 18 inch (45 centimeter) diameter life saving ring with rope. 20. The Contractor shall provide a minimum of one (1) portable vacuum systems with extra cartridge filter media. The number of systems shall be confirmed with the
- Owner/Operator. 21. The contractor shall provide one (1) pool test kit.
- 22. All valve box lids, manhole lids, and other access covers located within the pool areas, shall be slip resistant, non-protruding type.
- 23. Food and drink service facilities shall not be within 12 feet (3.6 meters) of the water's edge.
- 24. A vertical clearance of seven (7) feet shall be maintained about all pool decks.
- 25. Sanitary facility floors shall be constructed of concrete or other nonabsorbent materials and shall have a smooth slip resistant finish and shall slope to floor drains.
- 26. The insulation between the floor and walls must be covered where either floor or wall is not made of waterproof materials such as vinyl or tile.
- 28. Sanitary facilities shall be directly accessible from the pool deck.

27. Carpets, duckboards, and footbaths are prohibited

- 1. The Contractor shall provide all equipment necessary to provide accessible means of entry for each pool/spa in accordance with the 2010 Americans with Disability Act Standards for Accessible Designs (ADASAD), sections 242 and 1009. This includes all in-deck anchor sleeves.
- 2. Swimming Pools shall provide at least two accessible means of entry. At least one means shall be a compliant pool lift, or compliant sloped entry.
- 3. Provide two different means of access at different locations of the pool to provide increased options for entry and exit where multiple means of access are required.
- 4. Pools less than 300 linear feet (91 meters) shall provide only one accessible means of entry, which shall be a compliant pool lift, sloped entry, or transfer system.
- 6. Pool stairs shall comply with 1009.6 of the 2010 ADASAD.

- I. Electrical Requirements: 1. All electrical work shall be in strict compliance with the latest edition of the National Electrical Code (NEC) and local ordinances. The most stringent requirements shall take

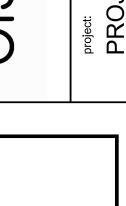
requirements as indicated in the control specifications and in the construction documents.

- 2. Pools shall be adequately grounded as required by the NEC including reinforcing, underwater lights, handrails, anchors, etc. 3. Control panels, power panels, etc. shall be installed in locations where the panels are easily accessible and meet NEC code clearance requirements.
- 4. The Contractor shall verify all electrical loads (voltage, phase, connection requirements, etc.) of equipment furnished before beginning rough in work. Notify the Engineer if there are any discrepancies between equipment furnished and construction documents.

5. The Contractor shall insure that all components of the control system are fully operational and function as originally intended. Operation of the system shall meet the



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DRAWING STATUS

IFC SET 2 OF 3 05/17/2024

NOTES

GENERAL