



ARCH • PAC

A Q U A T I C S

Addendum #3

To:	All Bidders	From:	Ken Moeller
e-mail:		Date:	Tuesday, November 19, 2024
Phone:		Pages:	17- including this cover page
Re:	Tokay H. S. Swimming Pool Renovation	CC:	

• Items:

3.1 Remove the existing Paco 50 HP close-coupled pump and replace it with a new pump. If this scope does not become part of the work, please move the existing pump into the new pump pit and re-install it. Should the District proceed with the pump preplacement as an alternate, the attached specification and pump shall be utilized to replace the existing pump. See the attached catalog cut of the new pump.

3.2 **Reference plan sheet SP3-1. What is the extent of removing and replacing the existing Swimming Pool Underground Piping underlying the pool deck area? Please identify the plans for New (N) vs Existing (E) Piping to remain or to be removed and points of connection to existing piping. Is all pool perimeter gutter piping to be removed and replaced? Is the main drain piping to be removed and replaced? Is the return piping to be removed and replaced?**

The pipe below the decks should be pressure tested in place. It must be repaired or replaced if it is deficient (unable to hold pressure). If it is in good condition and holds pressure, it can remain. A new pipe must be added to the supplies and returns from the pool mechanical room. Because the scope of the piping around and under the pool is unknown until pressure tested, it will be approached as a change order if needed. Piping is shown on Sheet SP3-1, and the connection from the mechanical room to the pipe within approximately 5 feet of the pool is to be included.

3.3 **Please provide contact information (name, phone #, and email) for the company in Texas (mentioned by Ken Moeller at the job walk) that provides Stark Bulkhead refurbishment services.**

Remove the existing bulkhead, renovate it on-site, and replace it with its original position for reuse. A crane will be required for bulkhead removal and replacement.

Contact: Steve Hunt of Fibersurance.

740 808 1191 stevehunt@fibersurance.com

- 3.4 Please clarify Additional Alternate #7: *Remove the existing bulkhead, renovate it on-site, and replace it with its original position for reuse. A crane will be required for bulkhead removal and replacement.* Please define the "refurbishment" scope of work for the existing bulkhead. Is this a cosmetic refurbishment? Does the existing bulkhead have any structural integrity issues that must be addressed? To estimate the crane size needed for removal, please provide specifications of the existing bulkhead, including the weight of the bulkhead and pick point locations for rigging.
The District would like the bulkhead to be in new condition once again. There are no known structural problems or conditions with the existing bulkhead. You will need to call Stark Bulkheads to get the weight of their 75-foot bulkhead of pultruded fiberglass. It is not known if the bulkhead has ballast tanks. Means and methods are the contractors' responsibility. Safety is also the contractor's responsibility to match the weight of the bulkhead with the selected crane size.
- 3.5 *Are the existing pool underwater light niches compatible with the new replacement LED light fixtures specified?*
The bidding contractor is responsible for ensuring that the LED fixtures are compatible with the niche already installed in the original construction. Several manufacturers make LED fixtures to fit the niches in place, depending on the type of niche.
- 3.6 *At the job walk, we noticed that only (1) existing diving apparatus was installed on the deck. The plans show (2) existing diving apparatuses. Note #11 on SP1-1 states: "Remove the existing diving board, store, protect, and reinstall." Note #6 on plan sheet SP2-1 states: "One-meter diving board with deck stanchions. Stanchions only for future apparatus. Existing apparatus to be replaced with new stand & board." Specification section 13 11 00 states that the contractor is to furnish & install (1) a New Diving Apparatus, including a stand, board, and anchors. Specs also state that (1) an additional set of Diving anchors for "future" use should be provided. Please clarify the scope of work for the diving apparatus.*
After the deck replacement, there will be two one-meter diving boards with apparatus (see detail 3/SP9-7). One apparatus is the existing apparatus, and the second, per note 6 on SP2-1, is for the placement of deck stanchions only. Both will require the implementation of the footings and stanchions.
- 3.7 *Plans state to (reference detail #2 on SP9-4)*
According to detail 2/SP9-4, once the plaster is removed, the pool bottom structure will be removed, and rust spots, cracks, and the need to repair the bottom may exist. Please provide a cost per square foot based on the details referenced if such work is required.
- 3.8 *Has the existing pool length (in all lane directions) been certified by a licensed surveyor in the past? If so, does it meet current regulation guidelines?*
The existing pool is CIF certified at 75'-1" and 50m 1" (both directions). A civil engineer will require this certification, and the district will receive a letter referencing the certification.
- 3.9 *It is possible that all existing pool UWL underground electrical conduits have been encapsulated in the pool deck. Note #10 on plan sheet SP1-1 states, "Remove existing pool lights and replace damaged conduit, J-boxes, Niches, and wire." This scope of work is unquantifiable at this time. Should we assume all new pool UWL underground conduit are to be removed and replaced? If so, please provide UWL plan sheet showing scope of work. Regarding the UWL light niches, should we assume all new? Specs state new "UWL & Niches Complete" however do not provide*

specification for niche model # nor do plans provide a detail for light niche demo/installation. Are the existing conduits and wire for the UWL homeruns (JBs to mech. room) to be removed and replaced? If so, please confirm and provide specs/plans/details.

Care should be taken during demolition so as not to disturb the electrical work. The conduits must be demolished and replaced if they are encapsulated in the concrete deck matrix. If they are not in the deck, they must be retained. The lights should be removed as they are being replaced before deck demolition; the means and methods are the contractors.

- 3.10 Various Aquatic plan sheets (SP) note to repair rust spots and cracks in pool shell per detail #2 & #3 on SP9-4. However, the extent of the rust spots and cracks is unquantifiable, provided the existing plaster surface and tile may be covering rust and cracks below that have yet to migrate visibly to the surface. Please provide an allowance or estimated square footage for pool shell rust & crack repair for contractors to include in their base bid assumptions.

See 3.7 above.

- 3.11 On SP9-3 box 1 (Cantilever Isometric Tile Layout), it states, "Water Polo Tiles; For Locations See SP2-3". I can't find an SP2-3 page in the plans provided. Is that page available for us to receive a copy?

The correct reference is sheets SP2-1 & SP2-2, indicating the practice and CIF-certified 25m course.

- 3.12 On SP9-3, in box 1 for the 4 1/4 x 4 1/4 depth markers on the face of the cantilever, it shows a (2) tile depth marker (example [4][FT]). In SP9-3 box 4 (Depth and Safety Markers) it shows the deck depth markers to be a (1) tile depth marker (example [4FT]). Will we be doing (1) tile depth markers or (2) tile depth markers?

The detail 1/SP9-3 depicts an oblique view of the pool edge and shows the depth marker that is trimmed on the top and the bottom as the numbers must be 4" by Code. So the top and bottom will need to be trimmed when located in the face of the cantilever to 4 1/4" as noted on the detail. The horizontal depth and warning markers is on detail 4/SP9-3. Two tiles will be required for each depth marker location (vertically) and two horizontally above in the deck. They must be in both feet and inches (5FT 6IN) as detailed. Warning markers are in the deck horizontally. All deck tiles are to be slip-resistant, as noted.

- 3.13 Is there a detailed plan for the movable bulkhead? Will there be targets on both sides of the movable bulkhead? If so, will the targets be 1"x 1" D-311 Black tiles matching the other targets in the pool?

Targets will be made of the same material as the original construction on both sides of the bulkhead. Please call Stark Bulkheads regarding the bulkhead's pultruded fiberglass nature and how the targets are to be restored. (See attached photo of bulkhead)

- 3.14 Are the pool deck Tombstones being removed and replaced?

The Tombstones should remain as they contain the electrical lighting J-boxes that connect to the lights, the electrical distribution panels, and their circuits. Please reference note 3.2; if any tombstones need to be replaced or are new, please reference detail 1/SP9-5.

- 3.15 Spec section 13 11 10 states that the Pump Control/Variable Frequency Drive is to be NEMA 12. The current electrical code requires NEMA 4X in a pool equipment room with a caustic environment. Please advise if NEMA 4X is required.

Please modify the panel to a NEMA 4X panel

- 3.16 Please explain & clarify the scope of work for the existing on-deck Daktronics Timing System.

Any portions of the in-deck components of the Daktronics system will need to be replaced and made functional. The remainder of the timing system is to remain as placed. The contractor should assemble and test the existing system to ensure it is functioning properly before any demolition, as the contractor will be responsible if the system cannot be returned to full functionality. Please identify any non-functioning parts.

- 3.17 Reference Additional Alternates (page 22 of Bidder Information & Forms); there are multiple mentions of "see attached details" and "see catalog cut sheets;" however, no model numbers, details, or catalogs have been provided. Please provide the necessary information to price these alternates (model numbers and/or catalogs mentioned).

Alternates were a part of Addendum#1

- 3.18 No information is provided regarding the existing scoreboard system related to ADD ALT #10 - "New numeric scoreboard with structure." These additional alternate states the scoreboard needs to be compatible with Colorado Time System, however, the specs indicate that the existing on-deck system is Daktronics. Is the existing outdoor scoreboard display Daktronics? Please clarify.

The scoreboard is meant to duplicate the new scoreboard at Lodi H.S. It should be compatible with the timing system utilized at Tokay H.S. and fit on the structural support as existing at Tokay. (see attached photo).

- 3.19 Regarding Additional Alternate #6: "Provide two (2) new ADA lifts by Aqua Creek Products. See attached catalog cuts." Is this add alternate in lieu of the ADA lifts stated in specifications? Specification section 13 11 00 calls for (qty 2) "Splash Lift" (SR SMITH) as the make & model to be included in the base bid. However, this is a different manufacturer than AquaCreek. Are the AquaCreek lifts in addition to the Splash Lifts listed in specs? Please clarify.

The Aqua Creek lift specified is to replace those in the specifications. Two (2) are required.

- 3.20 Note #5 on plan sheet SP3-1 states, "Reconfigure gutter sumps, provide new gutter supply piping with grates." However, no specs have been provided for the new gutter grates. The gutter grates' specifications (13 11 00) have been crossed out in red. Please clarify the scope and provide a new grating make/model, if required.

Use Dal Dorado VGB-compliant grates of the same size as the existing ones in each location as replacements.

- 3.21 There are no specifications for the Swimming Pool Plaster. Please provide specifications for plaster material requirements.

Specification 09 22 10 is attached and herein incorporated into the construction documents.

- 3.22 Plan sheet SP3-1, note #3, states: "Repair rust spots, cracks in pool shell, **remove expansion Joint & main drains – saw cut those areas, see 2&3/SP9-4.**" What is the scope of the Pool Expansion Joint? Are we eliminating the expansion joint in its entirety? Meaning saw cutting on both sides of the existing expansion joint, removing pool floor/wall on either side of the joint, doweling into the floor, and pouring concrete & shooting shotcrete up the walls/gutter? If so, please provide details for this work and the specific location of expansion joint shown on plans. The details 2&3 on SP9-4 do not reflect the scope of work. The expansion joint runs across the floor and up the pool wall/gutter. There is no detail for doweling into pool walls, shotcrete fill, etc. If we are eliminating the existing expansion joint in its entirety, this may conflict with the existing underground plumbing (floor return piping). Furthermore, there is no saw cut line or section of pool floor shown on the demo sheets as it pertains to the removal of the existing expansion joint.

See attached detail # herein. To see demolition and reconstruction at each pool expansion joint.

- 3.23 13 11 10 / 2.03 Pool Filtration System - Will an Eko3 GEN2 permanent media filter system be considered as an equal to the specified Stark system?

Nope.

- 3.24 13 11 10 / 2.04 Pool Automated Control System - Will a BECSys7 mechanical room controller be considered an equal to the specified ChemTrol PC7000?

See Addendum#1

- 3.25 13 11 10 / 2.05 Swimming Pool Heater(s) - Will the Lochinvar AQUAS heating system be considered an equal to the specified Raypak XTherm heater?

Only the specified heater will be allowed. Lochinvar is not equal to Raypak XTherms with titanium external heat exchangers.

- 3.26 There is conflicting information regarding the starting platform anchors and Starting Platforms. See Division 13 11 00 Swimming Pool Deck Equipment Specifications and Plan sheets SP9-1 (details #5 & #8). Plans mention both "single post" starting platform anchors and dual post starting platforms. Sheet SP4-1 also mentions "single post starting platforms." Specifications state Dual-Wedge Starting Platform Anchors, however, specs also state to use single post starting platforms. Please clarify both starting platform anchors (single post or dual post) and starting platforms (single post or dual post). Furthermore, please provide specifications for the (16) starting platform anchors and starting platforms associated with the Additional Alternate #9. Are these (16) add alternate starting platforms and anchors in addition to what is shown on the plans or are these in lieu of what is shown on the plans and mentioned in the specs?

The starting blocks, if replaced, will be of the same type, Paragon Dual Post. (See attached photo)

- 3.27 Are there any removable ladders to be installed on the pool? Plans state "LAD" which is interpreted as "Ladders." However, specs mention only grabrails with recessed steps. The only place where a ladder is identified on the drawings is on SP4-1 section view B-B. Please clarify if ladders are required for this project, or if all LADs are to be grabrails with recessed steps.

No – all grabrails with cycloc steps in pool wall.

END OF ADDENDUM #3

3.13





DIVISION 9: FINISHES

SECTION 09 22 10 - SWIMMING POOL PLASTER

PART 1- GENERAL

1.01 Division 1 and the General Conditions apply to all Work of this Section.

1.02 Description:

- A. Work Included: All preparation of swimming pool or spa structures and labor and materials required to provide plaster as indicated on the Drawings and herein specified. Phases of the Work include the surface preparation of the concrete vessel to receive plaster. The process includes applying an initial plaster bond coat and a plaster finish coat. Proper substrate surface preparation is essential to the Work; no plaster shall be applied until all surfaces have been reviewed and are ready to proceed.
- B. Prepare the pool and/or spa concrete surface to receive plaster by ensuring the concrete's texture is a minimum of a heavy broom finish to provide positive bonding between the concrete pool vessel and the plaster application. The creation of a bondable surface or "tooth" is essential to success and must be provided. If the finish of the concrete substrate is not as rough as required, then distressing the concrete surfaces to receive plaster and / or applying a bond coat will be necessary and added to the scope of Work at no additional cost.
- C. Thoroughly clean the concrete surface of any deleterious substances and dispose of same, cleaning to be done with a high-pressure washer. Wetting of the surface to be plastered just before placement of plaster is also required.

1.03 Quality Assurance:

- A. All Work of this Section shall be performed and supervised by the swimming pool contractor/subcontractor. (C-53)
- B. Qualifications of Workers:
 - 1. The installer for this portion of the Work shall have been successfully engaged in the business of swimming pool plastering for at least five (5) years immediately before the commencement of this Work. It shall demonstrate to the Owner's Representative a record of satisfactory workmanship.
 - 2. For actual plastering and finishing operations, use only thoroughly trained and experienced plasterers who are completely familiar with the specified materials and methods.
 - 3. Provide at least one person who shall be present during the execution of this portion of the Work, thoroughly familiar with the materials and methods specified, and who shall direct all Work performed under this Section.
- B. Standards: Swimming pool plaster shall comply with the State and Local Health Department's published standards as they apply to the material and services furnished herein. Also, meet requirements of applicable portions of most current editions of the following:
 - 1. ASTM: American Society for Testing Materials.
 - 2. CCR-T19: California Code of Regulations- Title 19, Public Safety.
 - 3. CCR-T21: California Code of Regulations- Title 21, Public Works.
 - 4. CCR-T22: California Code of Regulations- Title 22, Health and Safety.

1.04 Submittals:

- A. Provide submittals in accordance with Section 01 30 00.
 - 1. A list of materials to be incorporated into the Work by brand name, descriptive data, catalog number, brochures, or descriptive literature to identify the specified material and its proportion positively.

1.05 Product Handling:

- A. Deliver materials to the Site in the manufacturer's original unopened containers with all labels intact and legible.
- B. Storage: Store materials as unopened containers undercover to prevent damage and contamination, and store only the specified materials on Site.
- C. Protection: Use all means necessary to protect the swimming pool plaster before, during, and after installation and protect all other trades installed Work and materials.
- D. In the event of any damage to the finished product, immediately make all necessary repairs and

replacements upon review by the Owner's Representative.

1.06 Environmental Conditions:

- A. Plaster shall only be applied when unsuitable weather or temperature conditions exist. It shall not be placed if the prevailing temperature is 40 degrees Fahrenheit or less.
- B. Do not install plaster during rain or inclement weather. If precipitation commences after plastering has begun, immediately protect the plaster, if necessary, until the plaster is set.
- C. Do not install plaster during wind greater than ten (10) mph. If wind commences after plastering begins, immediately protect the plaster, as required, until the plaster has been set.

PART 2 - PRODUCTS

2.01 Plaster Thickness: Plaster shall be placed and finished to a true and even surface within established trade practice limits. On the floor and walls, the thickness from the face of the reinforced, cast-in-place concrete structure (substrate) to the finished plaster surface shall be at least 3/8 inches on the wall and 1/2" on the floor.

- A. Cement: Swimming pool plaster cement shall be white Portland cement conforming to ASTM C-150, Type I, Waterproofed White, as manufactured by Atlas Cement Corporation (Lehigh White) or by Gifford Hill Corporation (Riverside White) or approved equal.
- B. Aggregate: Swimming pool aggregate shall be clean, pure (washed) white, and free of all organic and inorganic matter injurious to the plaster finish. Approved products are Georgia Marble or Wyoming Marble, Riverside Premium Pool Aggregate, Pfizer Pool Aggregate, or approved equal.
- C. Water: Water for swimming pool plaster shall be clean and free of oil, acid (between pH of 7 & 8), and organic matter injurious to plaster.

2.02 Mixing of Plaster: Shall be mixed in mechanical mixers. Frozen cakes or lumped material shall not be utilized. Each batch shall be accurately proportioned by volume measured by manual or mechanical devices and mixed with the minimum amount of water until uniform color and consistency. Re-tempering will not be permitted: plaster that has begun to set must be discarded. Proportioning and mixing for machine application shall be:

One part of Portland white cement

Two parts of marble sand

One gallon of "Acryl 60" concentrate or four gallons of regular strength solution. Potable water is required to achieve a slump of (5") five inches, using a concrete slump cone to measure. If a standard plaster slump cone is utilized for measurement, the slump is two and one-half inches (2 1/2") maximum.

2.03 Preparation: Prepare the substrate (concrete or shotcrete) surface until it is suitable for plaster application by the Owner's Representative before plasterwork is applied.

- A. The six-inch band of plaster and concrete immediately beneath the waterline tile shall be chipped out around the entire perimeter of the pool, ensuring a plaster thickness of three-quarters of an inch. No old plaster (if any) will be allowed to remain on the concrete substrate in the area described.
- B. A six-inch area of concrete immediately around all pool light fixtures, inlets, skimmers, main drains, etc., shall be removed to ensure a plaster thickness of three-quarters of an inch around such items. No old plaster (if any) will be allowed to remain on the concrete substrate in the area described.
- C. High-pressure wash the concrete surface, which receives the plaster finish to remove sand, debris, dust, and laitance.

2.04 Application Sequence: A two-coat process shall be applied to all concrete or gunite surfaces in the pool interior.

- A. Temperature: The ambient temperature shall be above 40 degrees and below 100 degrees Fahrenheit a week before and during the proposed application. When necessary, fans and baffles shall be provided for adequate ventilation and circulation to avoid overheating.
- B. Bond Coat: Pneumatically apply an initial bond coat of plaster, filling all corners, leveling all depressions, and bullnose all reentrant corners. The surfaces thus applied shall be broom-finished or roughened so that the finish coat to follow will adhere to them properly. The bond coat shall partially dry before the finish coat is applied.
- D. Finish Coat: Following the specific mix proportions above, the finish coat shall be pneumatically applied over the partially dry bond coat. The finish coat shall be floated to a true and even surface, then

troweled to force the sand particles into the plaster. A second troweling is required to smooth the plaster surface to a non-rough surface, excluding trowel marks, checks, cracks, or blemishes. A dry sponge is then utilized to remove all plaster dust or other laitance from the smooth plaster surface and tile finishes.

- E. Pool filling with potable water must begin immediately after the plaster finish coat is completed. If the pool is large or on a hot day, special precautions shall be taken to keep the plaster moist or curing or drying too quickly. Special precautions may also need to be implemented if the pool fills slowly. The Contractor's sole responsibility is to keep the new plaster moist until the pool has filled with water. The new material will not be cured unless this process is properly implemented. The pool must be filled at a rate that ensures proper curing without over-drying plaster. The Contractor must make arrangements and be responsible for pool filling and curing.
 - F. Patching: Plaster blemishes such as over-sanding, cracking, blistering, pitting, checking, discoloration, or crazing are not acceptable. Any plaster having the above characteristics shall be removed and replaced immediately upon discovery at the Contractor's expense. Any patching is to be done upon prior approval of the Owner's Representative, and patchwork must match existing Work in color and texture and not be discernable. Plaster for patches should comply with the above specifications and have the same quality and consistency.
- 2.05 Delivery and Storage of Materials: Materials must be in original containers with labels bearing the manufacturer's name. Materials stored on site shall be on pallets above the ground and under a weather-tight cover. Any damaged material shall be disposed of properly and may not be utilized in the Work.
 - 2.06 The equipment and materials used by the Contractor to accomplish the Work in this Section shall be of heavy-duty type and grade, fully adequate to perform the Work required herein.
 - 2.07 Patching Compounds: Where cementitious patching compounds are required to fill minor cracks or hollows in the substrate or smooth the prepared surface, the Contractor shall use Master Builders or Laticrete Grout and Patching Compound, or a pre-surfacing mixture specifically approved by the manufacturer of the plastering materials herein specified.
 - 2.08 Upon inspection of pool vessel after existing plaster removal, if rusting or staining of concrete pool vessel is evident – chip out concrete before re-plastering and replace rebar and fully encase with new concrete to ensure rusting does not continue nor have the opportunity to stain the new plaster.

PART 3 - EXECUTION

3.01 Surface Conditions:

A. Preparation:

1. Ensure the concrete vessel receives plaster with a heavy broom finish or equivalent throughout and is free of all harmful material or substances. Concrete hollows and patches of significant thickness in the substrate should positively bond to the substrate with unquestionable physical integrity. The remaining plaster adhering to the pool shell should be tested for internal integrity and bonding to the pool vessel surface with a sounding hammer.
2. Any tile to be protected will be masked with appropriate and substantial material to afford its protection and must be free of plaster laitance. Vegetable oil is not this protection.

A. Inspection:

1. Before the Work of this Section, carefully inspect the Work of other trades and verify that all such Work is complete to the point where this installation can properly commence.
2. Verify that the pool and / or spa plaster is installable following the original design and all referenced standards.
3. The Contractor shall ensure that the original concrete or gunite substrate is virtually exposed, thoroughly cleaned, verified in sound condition, and rough enough to ensure permanent, mechanical bonding of the future plaster coating.
4. All depressions, cracks, openings, and non-level areas in the pool substrate shall be cleaned and filled with appropriate patching materials. Grinding may be required in high spots.
5. Concrete surfaces contaminated with oil, grease, or other chemicals that might impair plaster adhesion. Harmful substances or laitance shall be scrubbed with hot (160 degrees

Fahrenheit) tri-sodium phosphate solution and water, mixed at a ratio of two pounds per gallon of water until such areas are thoroughly cleaned. Treated areas shall be water blasted, rinsed twice, and dried.

6. Upon completion of the preparatory Work above, the entire surface shall be thoroughly cleaned and vacuumed, followed by compressed air dusting to leave it dust-free. Remove all contaminated water.

7. Acid washing is not a method of surface preparation.

B. Discrepancies:

1. In case of a discrepancy, immediately notify the Owner's Representative.

2. Do not install in areas of the discrepancy until all such discrepancies have been fully resolved.

3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive the Work.

4. If cracks, voids, or heavily eroded areas are discovered during the Work – the correct method to remedy each will be addressed and implemented.

3.02 Installation of Gutter & Surge Chamber Waterproofing:

A. Provide two (2) coats of the specified gutter and surge chamber waterproofing before installing pool plaster. Prepare surfaces to receive waterproofing and cure conforming with the manufacturer's recommendations. Provide a steel trowel application method to ensure a uniformly smooth, dense surface finish.

B. Gutter and surge pit waterproofing will require two (2) coats of Mater Builders, MasterSeal 581, the first coat grey and the second coat white. This is the same product as Thoroseal.

3.03 Installation of Pool or Spa Plaster:

A. Completion of Other Work: Do not commence plastering the swimming pool until all concrete deck areas, landscaping, and other constructions adjacent to the pool is complete. All construction equipment used for those portions of the Work has been moved from the immediate area.

B. Preparation:

1. Do not apply plaster over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to forming a durable plaster finish.

2. Consult with the manufacturer on application to specific surfaces being treated. Follow the manufacturer's recommendation for curing concrete and shotcrete surfaces before applying plaster. See Section 03 30 10 concrete.

3. Provide suitable covering or masking, ceramic tile, decking, deck equipment, gratings, fittings, and other items.

C. Application:

1. Into the parging coat of the concrete surfaces, trowel a finish coat of the specified marble plaster to a thickness between 3/8" and 1/2" maximum. If a leveling coat is required, use a brown coat application of one part cement to three parts clean, washed sand.

2. Float the plaster to a uniform plane and trowel to a smooth, dense, impervious surface using extreme care to avoid stains.

3. Take special care to finish around pool fittings. Make sure to mask off or plug openings so as not to fill such openings with excess plaster. Completely enclose the pool fittings with plaster to ensure a leak-proof seal around pipes, lights, anchors, etc. If fittings are damaged, replace them as part of the Work.

4. Accurately interface with the finish planes of items installed by other trades.

3.04 Curing:

A. Preparation: Anticipate the need for any required equipment and have it immediately available for use upon completion of pool plastering, especially concerning the pool and/or spa recirculation system. Ensure that pumps, filters, strainers, piping, etc., are clean and ready to begin the pool water circulation at the turnover rate of once every six hours for a pool and 30 minutes for a spa.

B. Pool Filling:

1. After the plaster has sufficiently dried and before drying has proceeded to a damaging point, cure the plaster by gradually filling the pool with water, preventing all damage to finished plaster surfaces.
2. Flow the water continuously until the pool is filled without pause.
3. When the weather is hot, and the water pressure is low, ensure the pool is filled rapidly enough to prevent the plaster from overdrying. Provide and arrange for additional water sources if required.
4. Coordinate with the General Contractor to ensure that the pool is continuously monitored while filling to prevent overfill, keep walls damp, and prohibit excessive drying before beneath the water level.
5. After completing plasterwork, The contractor must pay for water to fill the pool and/or spa. Should the pool be emptied and refilled based on contractor error or maintenance or plaster curing failure. The cost shall again be borne by the Contractor. The original pool water filling is also the Contractor's responsibility.

3.05 Clean-Up:

- A. Upon completion of pool plaster, remove all materials, equipment, and debris occasioned by this work and leave the job site clean and presentable. Perform all such clean-up to meet the review of the Owner's Representative.
- B. It is especially important that construction dirt and debris be removed and cleaned from the pool circulation piping and surge pit so that the pool can be filled by placing a fill line in the surge tank and filling the pool. The circulation system should be left clean enough not to allow dirt and debris to be washed back into the pool and onto the plaster.

3.06 Maintenance:

- A. For the first fourteen (14) days after completing the pool plaster, brush all plastered surfaces at least twice a day to ensure that the plaster is carefully maintained after the initial fourteen-day period. Also, ensure that pool filtration equipment is continuously running during this period. Coordinate with other trades and the General Contractor as required.
- B. The Contractor shall perform and confirm the fill water's chemical balance, instruct the Owner regarding proper plaster care, and confirm the Owner's assumption of such duties before leaving the job. The Contractor shall be responsible for the cost of start-up chemicals for pH and Chlorine management. At the end of the minimum of fourteen days, chemical containers must be full and ready for the Owner to assume pool maintenance duties. Calcium chloride and bicarbonate of soda quantities will also be required.

3.07 Warranty:

- A. Warranty work is undesirable and costly. The preparation and plaster product's initial quality and application are paramount.
- B. The successful Contractor shall warrant the Work in writing against all defects in materials and workmanship for three (3) years following completion of the project. This warranty includes but is not limited to delamination, separation of patches or portions of the plaster from the pool surface or substrate (spalling) due to inadequate bond, degrading of the remaining substrate, etc., or other reasons directly related to poor or incomplete preparation and application, such as discoloration, staining, or other minor variations that do not occur from inadequate maintenance (such as rust from metal items left on the surface long enough to stain). The contractor warrants that such defects will be repaired to a "like-new" condition. Warranty liability does not include degradation or failure from normal wear and tear, mistreatment or neglect, staining due to improper use of chemicals, long-term water imbalance, vandalism, extended periods with the pool drained, or accidental or natural causes beyond the Contractor's control. However, the burden of proof rests with the plaster contractor.
- C. The Owner is expected to notify the Contractor immediately upon discovery of defects. In case of a dispute, a third-party pool consultant shall determine the warranty's applicability. The Contractor will bear any fee only if the defect is deemed a warranty item; otherwise, the Owner will bear the expense.
- D. The Contractor is liable for all incidental or consequential damages related to the defects or repair, including the cost of pool draining and refill and associated labor and chemicals required to re-establish

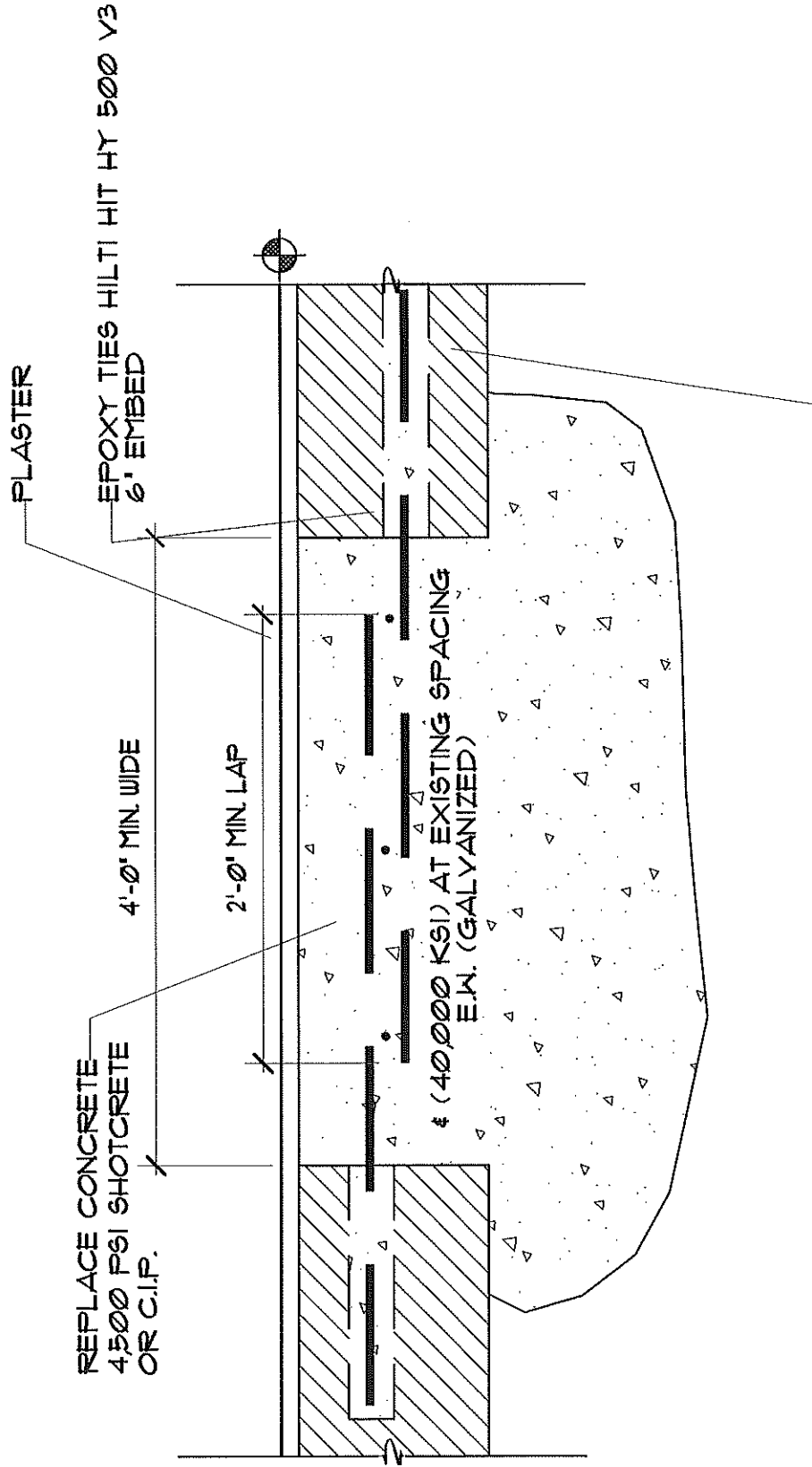
TOKAY HIGH SCHOOL POOL RENOVATION

Swimming Pool Plaster 09 22 10

and cure warranty work. A one-hundred-dollar penalty per day will be assessed during the warranty work event to allow the Owner to find a new venue for any program. It may be agreed between the Owner and Contractor to perform the Work in an off-season time when any aquatic programs would not be precluded – thereby avoiding liquidated damage type penalties described above.

- E. Warranty work does not extend the original guarantee period.

END OF SECTION



NOTE:
 DOWEL INTO OLD POOL WALL
 FLOOR, PLACE NEW BARS INTO HOLES
 1/8" LARGER IN DIA THAN BARS
 X 6" DEEP EPOXY W/SIMPSON ET22C
 DEWATERING MAY BE REQUIRED
 PLACE PATCH ONLY ON DRY ENGINEERED & COMPACTED BASE
 LAP BAR 48" MIN (24")
 SPECIAL INSPECTION REQUIRED
 PATCH TO PROCEED VERTICALLY TO CANTILEVER UNDERSIDE.

SAW CUT DEMO & PATCH OF POOL FLOOR/WALL TO EXCLUDE OLD E.J.

SCALE: 3/4" = 1' Ø"

#

22.22

3.26



10/18/1

3.27



05/22/



05/22/