

by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.

B. Any adjustment of the Contract Times covered by a Change Order or any Claim for an adjustment in the Contract Times will be determined in accordance with the provisions of this Article 12.

12.03 Delays

A. Where Contractor is prevented from completing any part of the Work within the Contract Times due to delay beyond the control of Contractor, the Contract Times will be extended in an amount equal to the time lost due to such delay if a Claim is made therefor as provided in Paragraph 12.02.A. Delays beyond the control of Contractor shall include, but not be limited to, acts or neglect by Owner, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal weather conditions, or acts of God.

B. If Owner, Engineer, or other contractors or utility owners performing other work for Owner as contemplated by Article 7, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.

C. If Contractor is delayed in the performance or progress of the Work by fire, flood, epidemic, abnormal weather conditions, acts of God, acts or failures to act of utility owners not under the control of Owner, or other causes not the fault of and beyond control of Owner and Contractor, then Contractor shall be entitled to an equitable adjustment in Contract Times, if such adjustment is essential to Contractor's ability to complete the Work within the Contract Times. Such an adjustment shall be Contractor's sole and exclusive remedy for the delays described in this Paragraph 12.03.C.

D. Owner, Engineer and the Related Entities of each of them shall not be liable to Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Contractor on or in connection with any other project or anticipated project.

E. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delays within the control of Contractor. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of Contractor.

ARTICLE 13 - TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

13.01 Notice of Defects

A. Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor. All defective Work may be rejected, corrected, or accepted as provided in this Article 13.

13.02 Access to Work

A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspecting, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's Site safety procedures and programs so that they may comply therewith as applicable.

13.03 Tests and Inspections

A. Contractor shall give Engineer timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

B. Owner shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:

1. for inspections, tests, or approvals covered by Paragraphs 13.03.C and 13.03.D below;

2. that costs incurred in connection with tests or inspections conducted pursuant to Paragraph 13.04.B shall be paid as provided in said Paragraph 13.04.C; and

3. as otherwise specifically provided in the Contract Documents.

C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.

D. Contractor shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for Owner's and Engineer's acceptance of materials or equipment to

be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to Owner and Engineer.

E. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, it must, if requested by Engineer, be uncovered for observation.

F. Uncovering Work as provided in Paragraph 13.03.E shall be at Contractor's expense unless Contractor has given Engineer timely notice of Contractor's intention to cover the same and Engineer has not acted with reasonable promptness in response to such notice.

13.04 *Uncovering Work*

A. If any Work is covered contrary to the written request of Engineer, it must, if requested by Engineer, be uncovered for Engineer's observation and replaced at Contractor's expense.

B. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, furnishing all necessary labor, material, and equipment.

C. If it is found that the uncovered Work is defective, Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05.

D. If, the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.

13.05 *Owner May Stop the Work*

A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

13.06 *Correction or Removal of Defective Work*

A. Promptly after receipt of notice, Contractor shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by Engineer, remove it from the Project and replace it with Work that is not defective. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).

B. When correcting defective Work under the terms of this Paragraph 13.06 or Paragraph 13.07, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.

13.07 *Correction Period*

A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents) or by any specific provision of the Contract Documents, any Work is found to be defective, or if the repair of any damages to the land or areas made available for Contractor's use by Owner or permitted by Laws and Regulations as contemplated in Paragraph 6.11.A is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:

1. repair such defective land or areas; or
2. correct such defective Work; or
3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others or other land or areas resulting therefrom.

B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by Contractor.

C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications .

D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this Paragraph 13.07, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

E. Contractor's obligations under this Paragraph 13.07 are in addition to any other obligation or warranty. The provisions of this Paragraph 13.07 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitation or repose.

13.08 *Acceptance of Defective Work*

A. If, instead of requiring correction or removal and replacement of defective Work, Owner (and, prior to Engineer's recommendation of final payment, Engineer) prefers to accept it, Owner may do so. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness) and the diminished value of the Work to the extent not otherwise paid by Contractor pursuant to this sentence. If any such acceptance occurs prior to Engineer's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and Owner shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to Owner.

13.09 *Owner May Correct Defective Work*

A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work or to remove and replace rejected Work as required by Engineer in accordance with Paragraph 13.06.A, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.

B. In exercising the rights and remedies under this Paragraph 13.09, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, take possession of Contractor's tools, appliances, construction equipment and machinery at the Site, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this Paragraph.

C. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 13.09 will be charged against Contractor, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, Owner may make a Claim therefor as provided in Paragraph 10.05. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.

D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 13.09.

ARTICLE 14 - PAYMENTS TO CONTRACTOR AND COMPLETION

14.01 *Schedule of Values*

A. The Schedule of Values established as provided in Paragraph 2.07.A will serve as the basis for progress

payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed.

14.02 *Progress Payments*

A. Applications for Payments

1. At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

2. Beginning with the second Application for Payment, each Application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment.

3. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

B. Review of Applications

1. Engineer will, within 10 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to Owner or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.

2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations on the Site of the executed Work as an experienced and qualified design professional and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:

a. the Work has progressed to the point indicated;

b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under Paragraph 9.07, and to any other qualifications stated in the recommendation); and

c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.

3. By recommending any such payment Engineer will not thereby be deemed to have represented that:

a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract Documents; or

b. that there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.

4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:

a. to supervise, direct, or control the Work, or

b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or

c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or

d. to make any examination to ascertain how or for what purposes Contractor has used the moneys paid on account of the Contract Price, or

e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.

5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 14.02.B.2. Engineer may also refuse to recommend any such payment or, because of subsequently discovered evidence or the results of subsequent

inspections or tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in Engineer's opinion to protect Owner from loss because:

- a. the Work is defective, or completed Work has been damaged, requiring correction or replacement;
- b. the Contract Price has been reduced by Change Orders;
- c. Owner has been required to correct defective Work or complete Work in accordance with Paragraph 13.09; or
- d. Engineer has actual knowledge of the occurrence of any of the events enumerated in Paragraph 15.02.A.

C. Payment Becomes Due

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.02.D) become due, and when due will be paid by Owner to Contractor.

D. Reduction in Payment

1. Owner may refuse to make payment of the full amount recommended by Engineer because:

- a. claims have been made against Owner on account of Contractor's performance or furnishing of the Work;
- b. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens;
- c. there are other items entitling Owner to a set-off against the amount recommended; or
- d. Owner has actual knowledge of the occurrence of any of the events enumerated in Paragraphs 14.02.B.5.a through 14.02.B.5.c or Paragraph 15.02.A.

2. If Owner refuses to make payment of the full amount recommended by Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, when Contractor corrects to Owner's satisfaction the reasons for such action.

3. If it is subsequently determined that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 14.02.C.1.

14.03 Contractor's Warranty of Title

A. Contractor warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner no later than the time of payment free and clear of all Liens.

14.04 Substantial Completion

A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete (except for items specifically listed by Contractor as incomplete) and request that Engineer issue a certificate of Substantial Completion.

B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.

C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the tentative certificate during which to make written objection to Engineer as to any provisions of the certificate or attached list. If, after considering such objections, Engineer concludes that the Work is not substantially complete, Engineer will within 14 days after submission of the tentative certificate to Owner notify Contractor in writing, stating the reasons therefor. If, after consideration of Owner's objections, Engineer considers the Work substantially complete, Engineer will within said 14 days execute and deliver to Owner and Contractor a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as Engineer believes justified after consideration of any objections from Owner.

D. At the time of delivery of the tentative certificate of Substantial Completion, Engineer will deliver to Owner and Contractor a written recommendation as to division of responsibilities pending final payment between Owner and Contractor with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and warranties and guarantees. Unless Owner and Contractor agree otherwise in writing and so inform Engineer in writing prior to Engineer's issuing the definitive certificate of Substantial

Completion, Engineer's aforesaid recommendation will be binding on Owner and Contractor until final payment.

E. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to complete or correct items on the tentative list.

14.05 *Partial Utilization*

A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions.

1. Owner at any time may request Contractor in writing to permit Owner to use or occupy any such part of the Work which Owner believes to be ready for its intended use and substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor will certify to Owner and Engineer that such part of the Work is substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

2. Contractor at any time may notify Owner and Engineer in writing that Contractor considers any such part of the Work ready for its intended use and substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 14.04 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 5.10 regarding property insurance.

14.06 *Final Inspection*

A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals

that the Work is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

14.07 *Final Payment*

A. *Application for Payment*

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance certificates of inspection, marked-up record documents (as provided in Paragraph 6.12), and other documents, Contractor may make application for final payment following the procedure for progress payments.

2. The final Application for Payment shall be accompanied (except as previously delivered) by:

a. all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by Paragraph 5.04.B.7;

b. consent of the surety, if any, to final payment;

c. a list of all Claims against Owner that Contractor believes are unsettled; and

d. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of or Liens filed in connection with the Work.

3. In lieu of the releases or waivers of Liens specified in Paragraph 14.07.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (i) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (ii) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner or Owner's property might in any way be responsible have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien.

B. *Engineer's Review of Application and Acceptance*

1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations

under the Contract Documents have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of payment and present the Application for Payment to Owner for payment. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable subject to the provisions of Paragraph 14.09. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

C. Payment Becomes Due

1. Thirty days after the presentation to Owner of the Application for Payment and accompanying documentation, the amount recommended by Engineer, less any sum Owner is entitled to set off against Engineer's recommendation, including but not limited to liquidated damages, will become due and, will be paid by Owner to Contractor.

14.08 Final Completion Delayed

A. If, through no fault of Contractor, final completion of the Work is significantly delayed, and if Engineer so confirms, Owner shall, upon receipt of Contractor's final Application for Payment (for Work fully completed and accepted) and recommendation of Engineer, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by Owner for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if bonds have been furnished as required in Paragraph 5.01, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by Contractor to Engineer with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

14.09 Waiver of Claims

A. The making and acceptance of final payment will constitute:

1. a waiver of all Claims by Owner against Contractor, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 14.06, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from Contractor's continuing obligations under the Contract Documents; and

2. a waiver of all Claims by Contractor against Owner other than those previously made in accordance

with the requirements herein and expressly acknowledged by Owner in writing as still unsettled.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION

15.01 Owner May Suspend Work

A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by notice in writing to Contractor and Engineer which will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be granted an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if Contractor makes a Claim therefor as provided in Paragraph 10.05.

15.02 Owner May Terminate for Cause

A. The occurrence of any one or more of the following events will justify termination for cause:

1. Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule established under Paragraph 2.07 as adjusted from time to time pursuant to Paragraph 6.04);

2. Contractor's disregard of Laws or Regulations of any public body having jurisdiction;

3. Contractor's disregard of the authority of Engineer; or

4. Contractor's violation in any substantial way of any provisions of the Contract Documents.

B. If one or more of the events identified in Paragraph 15.02.A occur, Owner may, after giving Contractor (and surety) seven days written notice of its intent to terminate the services of Contractor:

1. exclude Contractor from the Site, and take possession of the Work and of all Contractor's tools, appliances, construction equipment, and machinery at the Site, and use the same to the full extent they could be used by Contractor (without liability to Contractor for trespass or conversion),

2. incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and

3. complete the Work as Owner may deem expedient.

C. If Owner proceeds as provided in Paragraph 15.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Owner arising out of or relating to completing the Work, such excess will be paid to Contractor. If such claims, costs, losses, and damages exceed such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this Paragraph Owner shall not be required to obtain the lowest price for the Work performed.

D. Notwithstanding Paragraphs 15.02.B and 15.02.C, Contractor's services will not be terminated if Contractor begins within seven days of receipt of notice of intent to terminate to correct its failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of said notice.

E. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by Owner will not release Contractor from liability.

F. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 5.01.A, the termination procedures of that bond shall supersede the provisions of Paragraphs 15.02.B, and 15.02.C.

15.03 *Owner May Terminate For Convenience*

A. Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):

1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;

2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;

3. all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred in settlement of terminated contracts with Subcontractors, Suppliers, and others; and

4. reasonable expenses directly attributable to termination.

B. Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

15.04 *Contractor May Stop Work or Terminate*

A. If, through no act or fault of Contractor, (i) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (ii) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (iii) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the Contract and recover from Owner payment on the same terms as provided in Paragraph 15.03.

B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this Paragraph 15.04 are not intended to preclude Contractor from making a Claim under Paragraph 10.05 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this Paragraph.

ARTICLE 16 - DISPUTE RESOLUTION

16.01 *Methods and Procedures*

A. Either Owner or Contractor may request mediation of any Claim submitted to Engineer for a decision under Paragraph 10.05 before such decision becomes final and binding. The mediation will be

governed by the Construction Industry Mediation Rules of the American Arbitration Association in effect as of the Effective Date of the Agreement. The request for mediation shall be submitted in writing to the American Arbitration Association and the other party to the Contract. Timely submission of the request shall stay the effect of Paragraph 10.05.E.

B. Owner and Contractor shall participate in the mediation process in good faith. The process shall be concluded within 60 days of filing of the request. The date of termination of the mediation shall be determined by application of the mediation rules referenced above.

C. If the Claim is not resolved by mediation, Engineer's action under Paragraph 10.05.C or a denial pursuant to Paragraphs 10.05.C.3 or 10.05.D shall become final and binding 30 days after termination of the mediation unless, within that time period, Owner or Contractor:

1. elects in writing to invoke any dispute resolution process provided for in the Supplementary Conditions, or
2. agrees with the other party to submit the Claim to another dispute resolution process, or
3. gives written notice to the other party of their intent to submit the Claim to a court of competent jurisdiction.

ARTICLE 17 - MISCELLANEOUS

17.01 *Giving Notice*

A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:

1. delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or

2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

17.02 *Computation of Times*

A. When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

17.03 *Cumulative Remedies*

A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents. The provisions of this Paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

17.04 *Survival of Obligations*

A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

17.05 *Controlling Law*

A. This Contract is to be governed by the law of the state in which the Project is located.

17.06 *Headings*

A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

SECTION 00930
REQUEST FOR INFORMATION

RFI No.: _____ **Owner:** Key West Resort Utilities Corp.
Date: _____ **Contractor:** _____
Project: WWTP Upgrades **Engineer:** _____

REQUESTED BY: _____
Contractor's Representative

Phone No. Fax No. E-Mail Address

INFORMATION REQUESTED: _____

REPLY: _____

Reply Issued By: _____ **Date** _____
Engineer's Representative

NOTE: A reply to a Request For Information shall not be considered as a Change Order or Work Directive Change, nor does it authorize changes to the Contract Price or Contract Time.

SECTION 00940
PROJECT FIELD ORDER FORM

Field Order No.: _____

Name of Project: KWRU WWTP Upgrades

Effective Date: _____

Owner: _____

Contractor: _____

Description of Field Order: _____

Reason for Field Order: _____

This Field Order has been issued to clarify, interpret or to order minor changes to the Project which do not affect the Contract Price or Contract Time.

KWRU Engineer

Date

Owner's Authorized Representative

Date

Contractor's Authorized Representative

Date

END OF SECTION

SECTION 00945

WORK DIRECTIVE CHANGE FORM

Work Directive No.: _____

Name of Project: KW RESORT UTILITIES CORP. WWTP Upgrades

Effective Date: _____

Owner: _____

Contractor: _____

Description of Change: _____

Reason for Change: _____

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of Determining the Change in Contract Price

- _____ Time and Materials
- _____ Unit Prices
- _____ Cost Plus Fixed Fee
- _____ Other

Estimated increase (decrease) in Contract Price = \$ _____. If the change involves an additional increase, estimated amount is not to be exceeded without further authorization.

Method of Determining the Change in Contract Time

- _____ Contractor's Records
- _____ Engineer's Records
- _____ As Specified Below
- _____ Other

Estimated increase (decrease) in Contract Time = _____ days. If the change involves an additional increase, estimated time is not to be exceeded without further authorization.

[INTENTIONALLY LEFT BLANK]

SECTION 00950
CHANGE ORDER FORM

Change Order No. _____
Project Title KWRU WWTP Upgrades
Bid No. N/A
Owner: KW Resort Utilities Corp.
Contractor: Wharton Smith, Inc.
Agreement Date: _____

This Change Order is necessary to cover changes in the work to be performed under this Agreement. The GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, and STANDARD SPECIFICATIONS apply to and govern all work under this Change Order.

THE FOLLOWING CHANGES ARE MADE TO THE CONTRACT DOCUMENTS:

- | | | |
|------|---|------------|
| (1) | Original Contract Price | \$ _____ |
| (2) | Current Contract Price (Adjusted by Previous Change Orders) | \$ _____ |
| (3) | Total Proposed Change in Contract Price | \$ _____ |
| (4) | New Contract Price (Item 2 + Item 3) | \$ _____ |
| (5) | Original Contract Time | _____ Days |
| (6) | Current Contract Time (Adjusted by Previous Change Orders) | _____ Days |
| (7) | Total Proposed Change in Contract Time | _____ Days |
| (8) | New Contract Time (Item 6 + Item 7) | _____ Days |
| (9) | Original Contract Substantial Completion Date | _____ |
| (10) | New Contract Substantial Completion Date | _____ |

CHANGES ORDERED

ITEM 1

Description of Change:

Reason for Change:

Change in Contract Price:

Change in Contract Time:

ITEM 2

Description of Change:

Reason for Change:

Change in Contract Price:

Change in Contract Time:

ITEM 3

Description of Change:

Reason for Change:

Change in Contract Price:

Change in Contract Time:

ITEM 4

Description of Change:

Reason for Change:

Change in Contract Price:

Change in Contract Time:

ITEM 5

Description of Change:

Reason for Change:

Change in Contract Price:

Change in Contract Time:

CHANGE ORDER SUMMARY			
No.	Description	Change in Contract Price	Change in Contract Time
1			
2			
3			
4			
5			
TOTAL		\$	Days

WAIVER This Change Order constitutes full and mutual accord and satisfaction for the adjustment of the Contract Price and Contract Time as a result of increases or decreases in cost and time of performance caused directly and indirectly from the change. Acceptance of this Waiver constitutes an agreement between OWNER and CONTRACTOR that the Change Order represents an equitable adjustment to the Agreement and that CONTRACTOR shall waive all rights to file a Contract Claim or claim of any nature on this Change Order. Execution of this Change Order shall constitute CONTRACTOR's complete acceptance and satisfaction that it is entitled to no more costs or time (direct, indirect, impact, etc.) pursuant to this Change Order, either separately or cumulatively with all previous change orders.

APPROVAL AND CHANGE ORDER AUTHORIZATION

ACKNOWLEDGMENTS

The aforementioned change, and work affected thereby, is subject to all provisions of the original Agreement and specifically changed by this Change Order; and

It is expressly understood and agreed that the approval of the Change Order shall have no effect on the original Agreement other than matters expressly provided herein.

ATTEST:

(Secretary)

Date

(Corporate Seal)

ATTEST:

(Signature)

Date

(Seal)

Contractor

Printed Name and Title of Officer

By (Signature)

Date

Owner

Printed Name and Title

By (Signature)

Date

END OF SECTION

00950-4

CONSTRUCTION PLANS FOR KWRU WWTP EXPANSION KW RESORT UTILITIES

SECTION 35, TOWNSHIP 67 SOUTH, RANGE 25 EAST
STOCK ISLAND, FLORIDA



LOCATION MAP

OWNER

KW RESORT UTILITIES CORP
6630 FRONT ST.
STOCK ISLAND FL, 33040

PREPARED BY

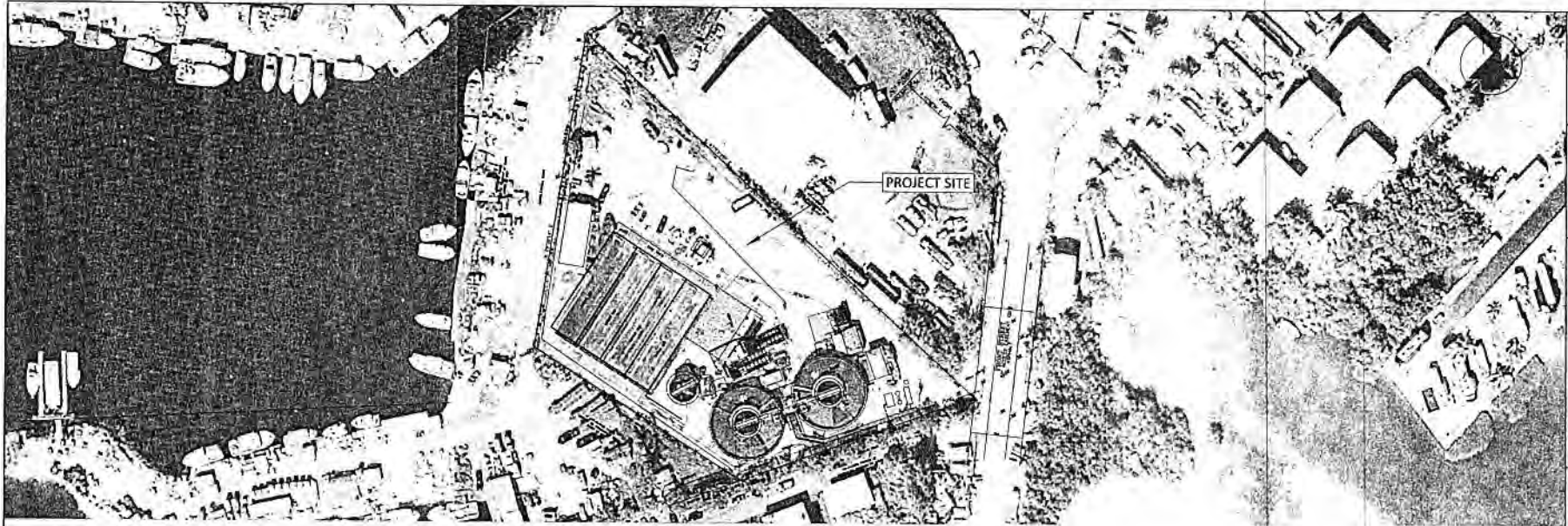
THE WEILER ENGINEERING CORPORATION
6805 OVERSEAS HIGHWAY
MARATHON FLORIDA, 33050
EB # 6656
(305) 289-4161

WEC THE WEILER ENGINEERING CORPORATION

WEC PROJECT NO.
1402.002



PROJECT NO. 10001010
DATE: 08/11/10
DRAWN: J. P. WILSON



SITE MAP

GENERAL SHEETS

- G-01 COVER
- G-02 SITE MAP, INDEX OF DRAWINGS
- G-03 GENERAL NOTES
- G-04 STRUCTURAL NOTES
- G-05 ABBREVIATIONS & SYMBOL LEGEND

CIVIL SHEETS

- C-01 EXISTING CONDITIONS
- C-02 EXISTING CONDITIONS
- C-03 PROPOSED FILTERS & STATIC SCREEN
- C-04 PROPOSED PLANT AND BLOWER PAD
- C-05 FILTERS & CHEMICAL LAYOUT
- C-06 FILTERS & CHEMICAL PIPING
- C-07 MUDWELL & EAST PLANT PIPING
- C-08 BACKWASH & EFFLUENT PIPING
- C-09 STATIC SCREEN LAYOUT
- C-10 STATIC SCREEN & SIDEWALK LAYOUT

DETAIL SHEETS

- D-01 FILTER DETAILS
- D-02 FILTER DETAILS
- D-03 WEIR BOX DETAILS
- D-04 STATIC SCREEN PLAN VIEW
- D-05 STATIC SCREEN PIPING
- D-06 STATIC SCREEN PLATFORM
- D-07 STATIC SCREEN PLATFORM
- D-08 STATIC SCREEN PLATFORM
- D-09 CHEMICAL TANK LAYOUT
- D-10 BLOWER PAD DETAILS
- D-11 SIEMENS DIGESTER PLAN
- D-12 SIEMENS DIGESTER PROFILE
- ~~D-13 DIGESTER SLAB~~ (SEE ACIP DESIGN PLANS)
- D-14 HAND RAIL DETAILS
- D-15 ALUMINUM GRATING DETAILS
- D-16 CAGED LADDER DETAILS
- D-17 GENERAL DETAILS
- D-18 INJECTION WELL DETAIL

P & IDs

- PID 1-1 TREATMENT TRAINS 1, 2, & 3
- PID 1-2 0.499 MGD TRAINS 1 & 2: AIR
- PID 1-3 0.350 MGD TRAIN 3: AIR
- PID 1-4 MUDWELL, FILTERS, & CCC
- PID 1-5 CHEMICAL FEED SYSTEMS

ELECTRICAL

- E-01 ELECTRICAL SITE PLAN
- E-02 PROPOSED TREATMENT TANK & BLOWER PAD
- E-03 PROPOSED FILTER & STATIC SCREEN
- E-04 RISER DIAGRAM & PANEL INFORMATION
- E-05 GENERAL NOTES & PANEL INFORMATION

	W.C. WILLIAMS ENGINEERING 8835 OVERSEAS HWY MARGATON, FLORIDA 33506 (800) 289-1181 PH. (251) 299-4164 FAX	Date: _____ Drawn: _____ Design: _____ Check: _____ Date Issue: _____ Status: _____
	WEC W.C. WILLIAMS ENGINEERING 8835 OVERSEAS HWY MARGATON, FLORIDA 33506 (800) 289-1181 PH. (251) 299-4164 FAX	Date: _____ Drawn: _____ Design: _____ Check: _____ Date Issue: _____ Status: _____
SITE MAP, INDEX OF DRAWINGS FOR KWRU WWTP EXPANSION		Revision: _____ Description: _____ Date: _____

SHOP DRAWINGS

1. PROVIDE FABRICATION SHOP DRAWINGS AND ERECTION SHOP DRAWINGS FOR REVIEW ON ITEMS INDICATED IN THESE NOTES. DESIGN ON STRUCTURAL ITEMS SHALL BE PERFORMED BY AN EXPERIENCED PROFESSIONAL ENGINEER REGISTERED IN FLORIDA. DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW UPON REQUEST.
2. DRAWINGS SHALL INCLUDE ALL DESIGN LOADS, CONNECTION DETAILS, HANDLING REQUIREMENTS, AND PLAN LOCATIONS. SHOP DRAWINGS MUST BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN.
3. ALL SHOP DRAWINGS TO HAVE CONTRACTORS REVIEW STAMP PRIOR TO SUBMISSION TO THE ENGINEER.

DESIGN DATA

1. THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH FLORIDA BUILDING CODE 2010.
2. SOILS PER GEOTECHNICAL REPORT "UNIVERSAL ENGINEERING SCIENCES No: 0530.1400016.000" FROM MARCH 27, 2014 AND OTHER SOIL CONSIDERATIONS.
3. BASIC WIND SPEED (V) = 200 MPH; STRUCTURAL CATEGORY: III
4. EXPOSURE "C"
5. FLOOD RESISTANT CONSTRUCTION IS IN COMPLIANCE WITH ASCE 24-05 AND ASCE 7-10 STANDARDS

FOUNDATION SOILS

1. SLABS AND FOOTINGS TO BE PLACED ON UNDISTURBED SOIL. IF FILL MATERIAL IS REQUIRED, PLACE IN 8"-12" LIFTS AND COMPACT TO 98% DENSITY AS MEASURED BY THE STANDARD PROCTOR DENSITY TEST.
2. FILL AND EXISTING SUB-GRADE MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGETABLE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT INTO A SUITABLE SUBGRADE.

PILES

1. ALL PILES SHALL BE 14" SQUARE PRESTRESSED CONCRETE PILES AS DESCRIBED IN INDEX NO. 20614 OF FOOT 2014 DESIGN STANDARDS AND SPECIFICATIONS.
2. PRESTRESSED CONCRETE PILE NOTES AND DETAILS SHALL BE AS DESCRIBED IN INDEX NO. 20600.

PILE LOAD TEST PROGRAM

1. PERFORM COMPRESSIVE LOAD TESTS ON (1) TEST PILES IN ACCORDANCE WITH ASTM D1143/D1143M (STANDARD LOADING PROCEDURE) AS MODIFIED HEREIN.
2. ALLOW A MINIMUM OF 72 HOURS FOLLOWING FINAL TEST PILE DRIVING FOR PILE SET-UP PRIOR TO LOAD TESTING.
3. PROVIDE APPARATUS FOR APPLYING VERTICAL LOADS AS REQUIRED BY METHOD, USING LOAD FROM WEIGHTED BOX OR PLATFORM OR REACTION FRAME ATTACHED TO SUFFICIENT UPLIFT PILES TO SAFELY TAKE REQUIRED LOAD APPLIED TO PILE BY HYDRAULIC JACK.
4. INCREASE LOAD IN INCREMENTS UNTIL RAPID PROGRESSIVE SETTLEMENT TAKES PLACE OR UNTIL APPLICATION OF TOTAL COMPRESSIVE LOAD OF [150.0] TONS FOR COMPRESSIVE LOAD TESTS.
5. CONSIDER LOAD TEST SATISFACTORY WHEN AFTER ONE HOUR AT FULL TEST LOAD GROSS SETTLEMENT OF PILE BUTT IS NOT GREATER THAN GROSS ELASTIC PILE COMPRESSION PLUS 0.15 INCH PLUS ONE PERCENT OF PILE TIP DIAMETER OR WIDTH IN INCHES.

PILE ACCEPTANCE CRITERIA

1. SAFE DESIGN CAPACITY FOR PILES IS [75.0] TONS. PILES SHALL BE DRIVEN TO A MINIMUM DEPTH OF [50.0] FEET BELOW CUT-OFF ELEVATION, AND TO SUCH ADDITIONAL DEPTH AS REQUIRED TO OBTAIN A BEARING CAPACITY OF NOT LESS THAN [75.0] TONS.
2. THE FOLLOWING FORMULAS ARE PRESENTED ONLY AS A GUIDE TO AID IN ESTABLISHING THE CONTROLLING PENETRATION PER BLOW, WHICH, TOGETHER WITH THE MINIMUM DEPTH OF PENETRATION WILL SERVE TO DETERMINE THE REQUIRED MINIMUM DEPTH OF PENETRATION OF EACH INDIVIDUAL PILE:

$$R = \frac{2E}{5 \text{ PLUS } 0.1} \text{ FOR DOUBLE ACTING HAMMERS}$$

$$R = \frac{2WH}{5 \text{ PLUS } 0.1} \text{ FOR SINGLE ACTING HAMMERS}$$

WHERE 'R' IS THE APPROXIMATE ALLOWABLE PILE LOAD IN KIPS;
 'E' EQUALS THE ENERGY IN FOOT-KIPS PER BLOW BASED ON AN ACCEPTABLE CERTIFIED STATEMENT FROM THE MANUFACTURER OF THE HAMMER;
 'W' EQUALS THE WEIGHT OF THE HAMMER OR RAM IN KIPS;
 'H' EQUALS THE HEIGHT OF FALL OF THE HAMMER OR RAM IN FEET;
 AND 'S' EQUALS THE AVERAGE INCHES OF PENETRATION PER BLOW FOR THE LAST THREE BLOWS. AN ALLOWANCE SHALL BE MADE FOR REDUCED PENETRATION CAUSED BY SHOCK ABSORPTION OF THE CUSHION OR CAP BLOCKS.

CONCRETE:

1. USE 4000 PSI CONCRETE MINIMUM, TARGETED SLUMP 4 INCHES, MAXIMUM W/C RATIO OF 0.44, AIR CONTENT 1-6%, UNLESS STATED OTHERWISE ON PLANS.
2. CURING: CONCRETE SHALL BE CURED BY PROTECTING IT AGAINST LOSS OF MOISTURE AND MECHANICAL INJURY FOR AT LEAST THREE DAYS AFTER PLACEMENT. A LIQUID CURING MEMBRANE SHALL BE APPLIED IMMEDIATELY AFTER FINISHING, APPLY AT THE RATE OF ONE GALLON TO NOT MORE THAN 200 SQUARE FEET. ALTERNATIVELY WET CURING CAN BE IMPLEMENTED. ALL EXPOSED SURFACES SHALL BE KEPT CONTINUOUSLY WET FOR AT LEAST THREE DAYS AFTER PLACEMENT.
3. TESTING: LABORATORY AND FIELD TESTING SHALL BE PERFORMED BY LICENSED TESTING LABORATORY. MINIMUM OF 3 SAMPLES SHALL BE TAKEN AND TESTED.
 - 3.1 THE MINIMUM SAMPLING FREQUENCY IS:
 - A) ONCE A DAY FOR A GIVEN CLASS.
 - B) ONCE EVERY 50 CUBIC YARDS
 - C) ONCE EACH 5000 FEET² OF SURFACE AREA FOR SLABS OR WALLS.
 - 3.2 SAMPLES ARE TAKEN ON A RANDOM BASIS - CONCRETE IS NOT TO BE SAMPLED DUE TO APPEARANCE, CONVENIENCE, OR OTHER BIASED CRITERIA.
 - 3.3 EACH SET OF CYLINDERS COME FROM A DIFFERENT BATCH OF CONCRETE.
 - 3.4 NO WATER WAS ADDED TO THE CONCRETE AFTER THE SAMPLES WERE TAKEN.
 - 3.5 QUALIFIED FIELD TESTING TECHNICIANS PERFORMED THE TEST ON THE FRESH CONCRETE
 - 3.6 QUALIFIED LABORATORY TECHNICIAN PERFORMED ALL REQUIRED LABORATORY TESTS.
 - 3.7 MINIMUM (3) ORIGINALS SIGNED LAB TESTING RESULTS SHALL BE SUBMITTED TO ENGINEER AND OWNER.
4. REINFORCEMENT SHALL BE GRADE 60 BILLET STEEL, DEFORMED, STRENGTH = 60,000 PSI. MATERIALS, BAR CLEARANCES, COVER, & OTHER DETAILING TO BE IN ACCORDANCE WITH ACI-318.
5. REINFORCEMENT SHALL BE CLEAN AND FREE OF RUST AND LUBRICANTS.
6. ALL EXPOSED EDGES OF CAST-IN-PLACE AND PRECAST MEMBERS SHALL HAVE 3/4" CHAMFERS, UNLESS SHOWN OTHERWISE ON THE PLANS.
7. USE ONLY PLASTIC OR STAINLESS CHAIRS FOR REBAR SUPPORT.
8. PRECAST PRESTRESSED CONCRETE PRODUCTS TOLERANCES SHALL BE AS DESCRIBED IN THE TABLE B.2.1 OF "PCI DESIGN HANDBOOK/SIXTH EDITION"
9. CAST-IN-PLACE AND PRECAST MEMBERS ERECTION TOLERANCES SHALL BE AS SPECIFIED IN THE TABLE B.2.2 OR IN SECTION 8.3 OF "PCI DESIGN HANDBOOK/SIXTH EDITION"

CONCRETE PAVEMENTS:

1. USE CLASS I (Pavement) 4000 PSI CONCRETE, TARGETED SLUMP 4 INCHES, MAXIMUM W/C RATIO OF 0.44, AIR CONTENT 1-6%.
2. ALL SURFACES SHALL HAVE LIGHT BROOM FINISH
3. AFTER COMPLETING THE FINISHING OPERATIONS AND AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO NOT MAR THE SURFACE, COVER AND CURE THE ENTIRE SURFACE. OR UNIFORMLY APPLY CURING COMPOUND TO THE SURFACES TO BE CURED, IN A SINGLE COAT, CONTINUOUS FILM, AT THE MINIMUM RATE OF 1 GALLON TO EVERY 200 FT², BY A MECHANICAL SPRAYER. AT THE TIME OF USE, THOROUGHLY MIX THE COMPOUND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
4. SAW CUT CONTROL JOINTS IN NEW PAVEMENT AT 10'-14' MAX. ALIGN JOINTS WITH COLUMNS AXIS. CONTROL JOINTS SHALL BE 1/8" Min. WIDE AND 1.5" DEEP. CONTROL JOINTS SHALL BE CUT AS SOON AS POSSIBLE BUT NOT LATER THAN 72 HOURS FROM CONCRETE PLACEMENT.
5. PROTECT FRESH CONCRETE FROM VEHICULAR TRAFFIC FOR 7 DAYS MINIMUM.

STRUCTURAL STEEL:

- 1) ALL STRUCTURAL STEEL COMPONENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AISC STEEL AND CONSTRUCTION MANUAL.
- 2) ALL W-SHAPES AND C-SHAPES SHALL BE ASTM A992 WITH Fy=50 ksi
- 3) ALL RECTANGULAR AND SQUARE HSS SHAPES SHALL BE ASTM A500 GRADE B WITH Fy= 46 ksi.
- 4) ALL STEEL PLATES AND OTHER MISC. ELEMENTS SHALL BE ASTM A992 WITH Fy=50 ksi.
- 5) ALL BOLTS NUTS AND WASHERS SHALL BE HDG

FRAME CONNECTION BOLTS: A325N; A563DH HEX NUTS; F436 WASHERS
 ANCHOR BOLTS: A307 GRADE A; A563DH HEX NUTS; F844 WASHERS

6) COATING SYSTEM:
 SURFACE PREPARATION: ABRASIVE BLAST CLEAN METAL TO AN SSPC-SP10 (NEAR-WHITE METAL BLAST).
 PRIME COAT: POLYAMIDE EPOXY (NON-POTABLE) 7.0 MILS DFT.
 SEALANT: APPLY SEALANT, AT LOCATION WHERE TWO PIECES OF STEEL OVERLAP, BETWEEN FLANGES, ETC.

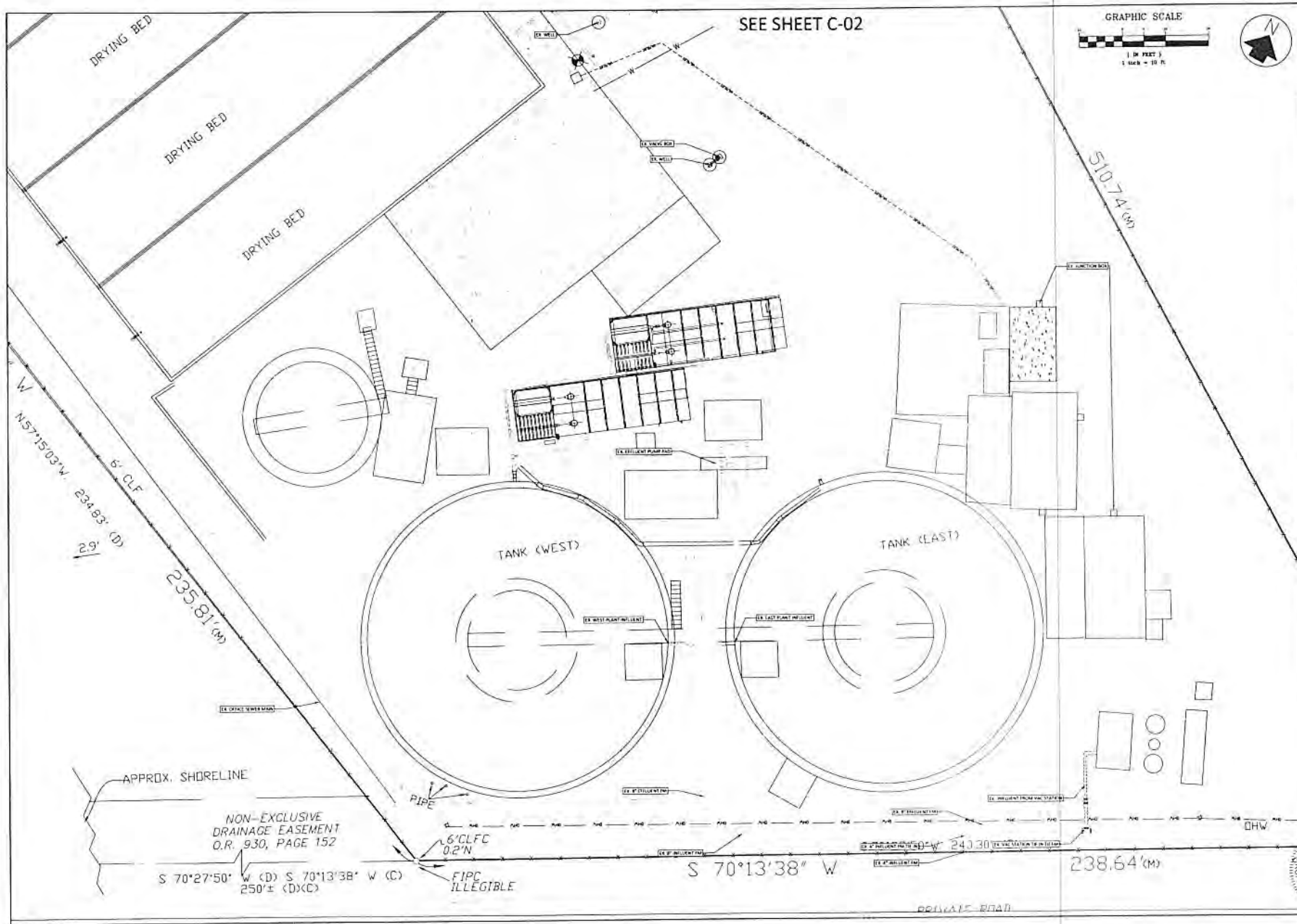
TOP COAT: (2) POLYURETHANE 3.0 MILS DFT
 MDFT: 13.0 MILS FOR THE THREE (3) COAT SYSTEM.
 COLOR: COLOR AS SELECTED BY OWNER.

DATE	REVISION

WEC THE WEAVER CONSULTING ENGINEERS
 1100 N. W. 13TH AVENUE
 SUITE 200
 MIAMI, FLORIDA 33136
 (305) 359-4141
 (305) 359-4142 FAX

STRUCTURAL NOTES FOR KWRU WWTP EXPANSION
 18-000018

Date: 04/15/2010
 Project: KWRU WWTP Expansion
 Sheet: C-01



SEE SHEET C-02



WEC THE WALTER ECKHART GROUP ENGINEERS, ARCHITECTS & PLANNERS 6800 CHEROKEE HWY MARATHON, FLORIDA 33450 (305) 289-4161 PH (305) 289-4162 FAX EB #2555	EXISTING CONDITIONS FOR KWRU WWTP EXPANSION
Project No.: Date: Scale: Drawing No.:	Revision:
Designer: Checker: Estimator: Approver:	Date:





SEE SHEET C-01



UN-PLATTED
 SECTION 35, TOWN
 RANGE 23



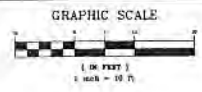
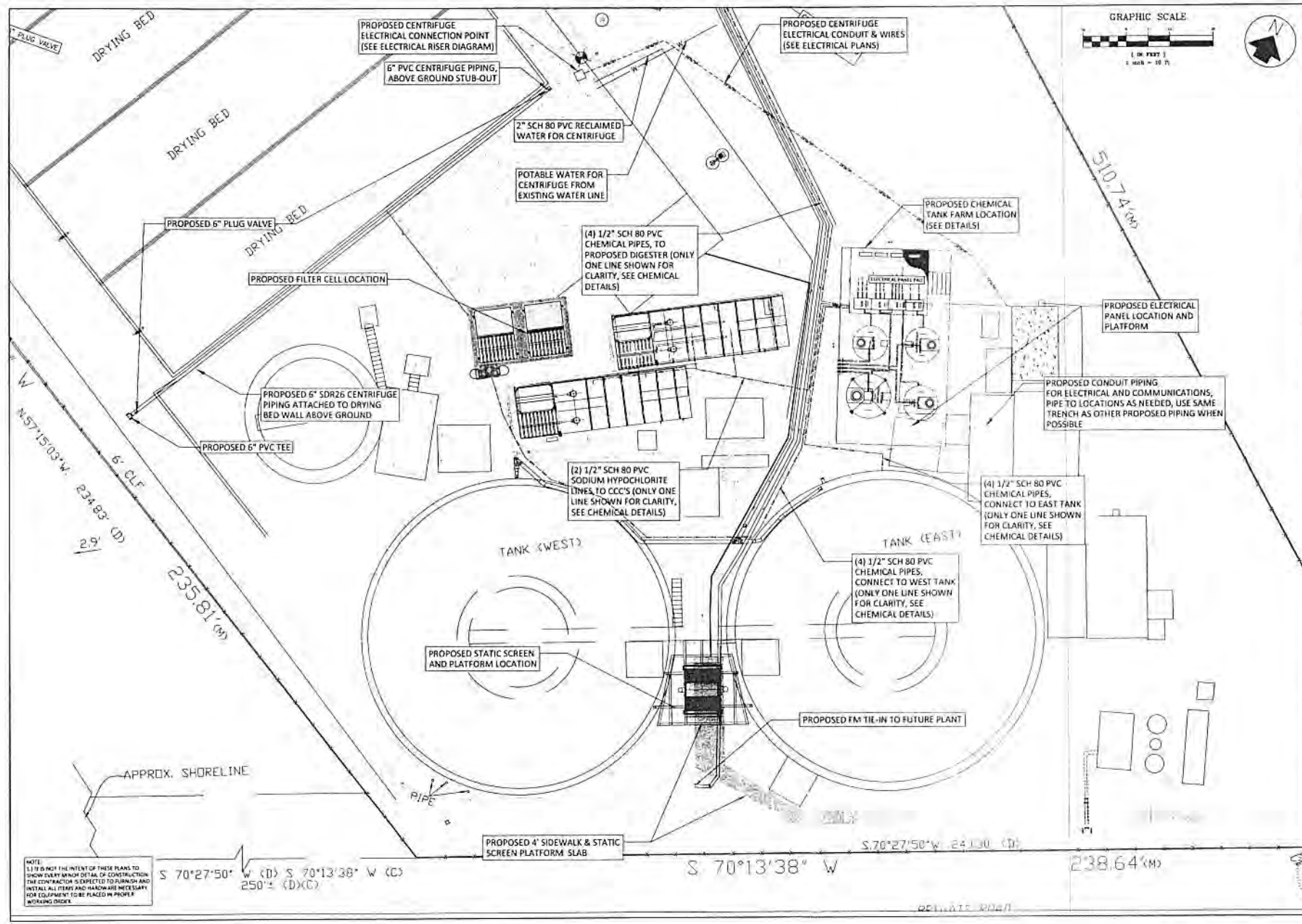
Description	Quantity

**EXISTING CONDITIONS
 FOR
 KWRU WWTP EXPANSION**

WEC THE WELLS ENGINEERING
 CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

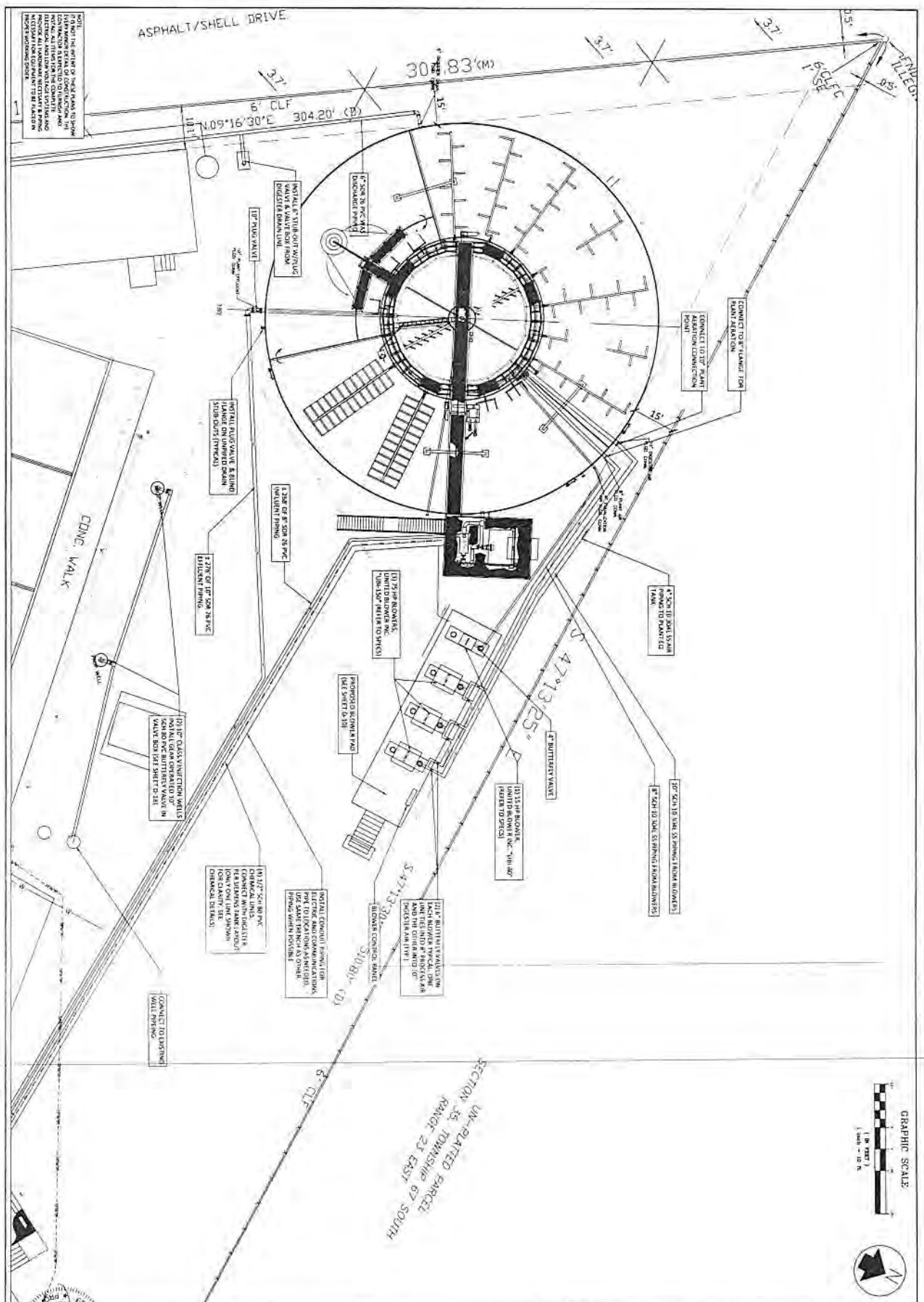
Approved By:	AKC	Design:	SAW
Scale:	AS SHOWN	Drawing:	SS
Job No.:	14CLL-002	Checked:	AKC
Date Issued:	AS SHOWN		

Date: 01/11/2017
 Project: KWRU WWTP Expansion
 Sheet: 02.13 Page 14 of 17



NOTE:
 1.) IT IS NOT THE INTENT OF THESE PLANS TO SHOW EXACT BENCH DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS AND HARDWARE NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

WEC <small>THE WALTER ENGINEERING CONSULTANTS, P.A.</small> <small>6605 DIVISION HWY</small> <small>MARATHON, FLORIDA 32690</small> <small>(352) 289-4262 PH. (352) 289-4162 FAX</small>	PROPOSED FILTERS AND STATIC SCREEN FOR KWRU WWTP EXPANSION	14	02.13	14	17
Approved By: _____ Date: _____ Drawn: _____ Check: _____ Distribution: _____	Project No.: _____ Revision: _____ Description: _____ Date: _____	Scale: _____ Date: _____	Author: _____ Date: _____	Designer: _____ Date: _____	Checker: _____ Date: _____



NOTE: THE OWNER IS RESPONSIBLE TO OBTAIN NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

UN-PLATTED PARCEL
 SECTION 35, TOWNSHIP 67 SOUTH
 RANGE 23 EAST



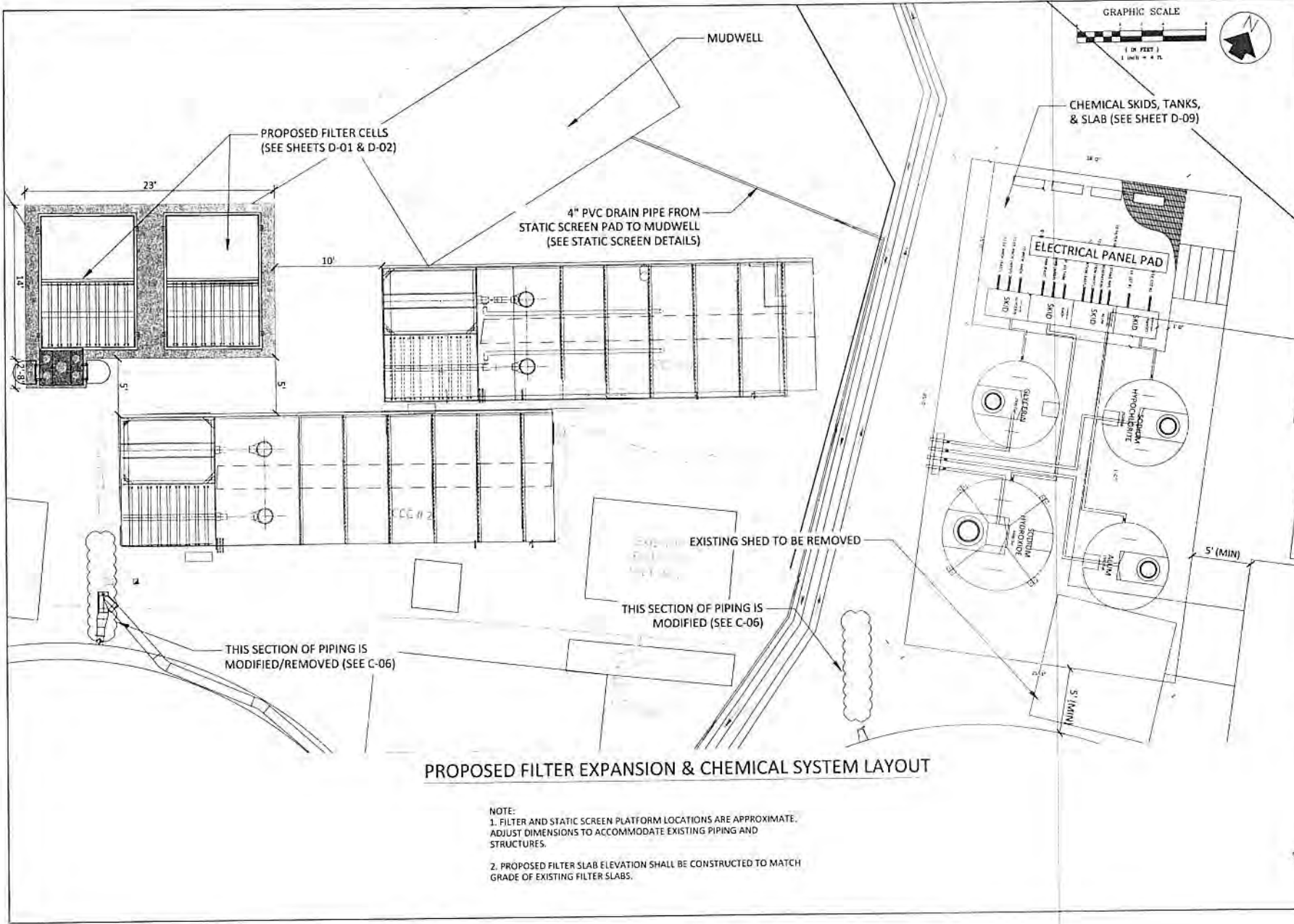
Description	Revisions

PROPOSED PLANT AND BLOWER PAD FOR KWRU WWTP EXPANSION

WEC THE WELER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

Approved by:	EMC	Design:	SMW
Scale:	AS SHOWN	Drawn:	MA US
Job No.:	14028-002	Checked:	EMC
Date Issued:	03/27/2012		

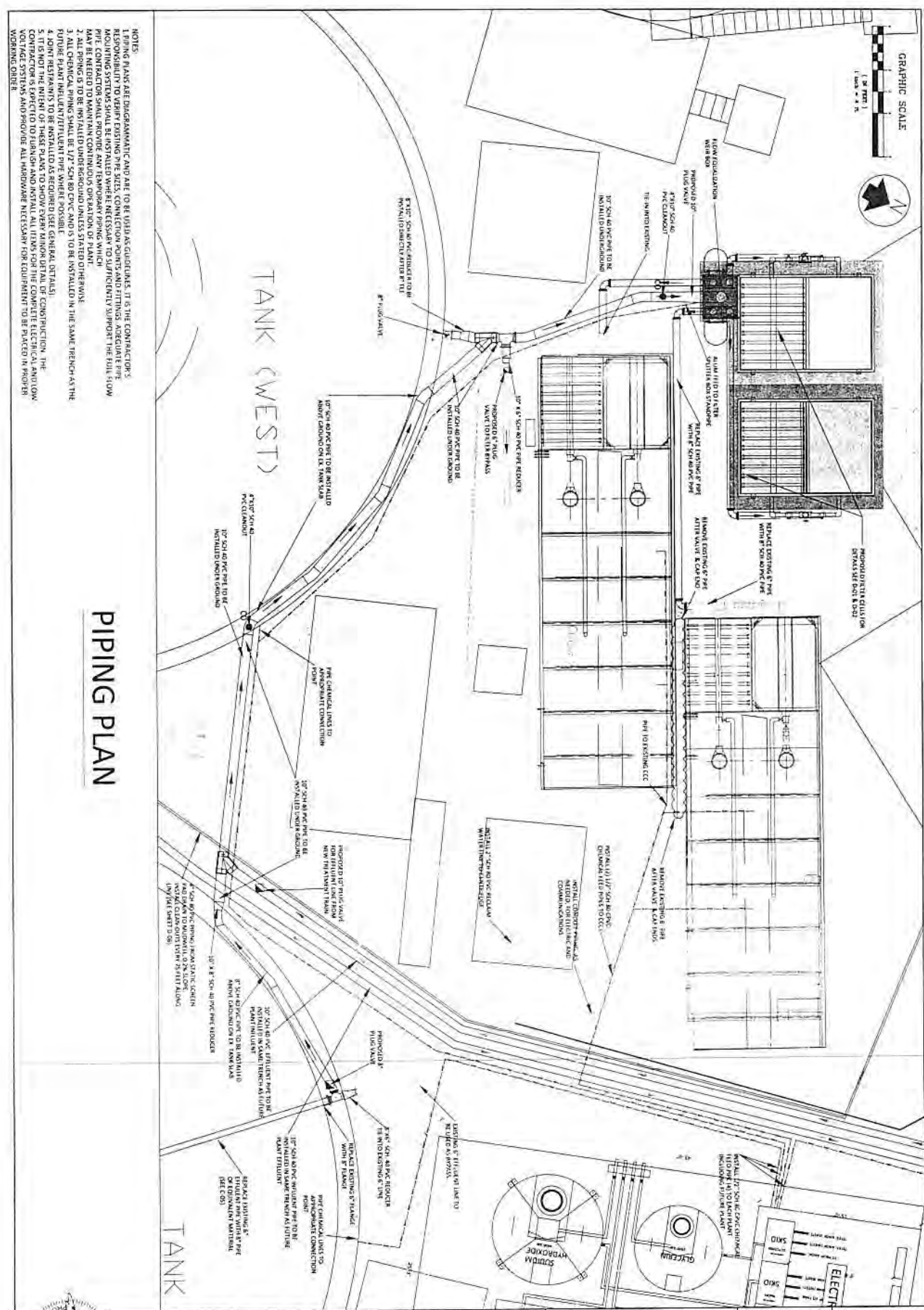
Drawn by: WFC/SL
 Checked by: WFC/SL
 Date: 08/14/12



PROPOSED FILTER EXPANSION & CHEMICAL SYSTEM LAYOUT

NOTE:
 1. FILTER AND STATIC SCREEN PLATFORM LOCATIONS ARE APPROXIMATE. ADJUST DIMENSIONS TO ACCOMMODATE EXISTING PIPING AND STRUCTURES.
 2. PROPOSED FILTER SLAB ELEVATION SHALL BE CONSTRUCTED TO MATCH GRADE OF EXISTING FILTER SLABS.

	WFC THE WFC ENGINEERING CONSULTANTS & ARCHITECTS MARATHON, FLORIDA 33050 (305) 289-4161 PH. (305) 289-4162 FAX
Project No. _____ Revision _____ Date _____	FILTERS & CHEMICAL LAYOUT FOR KWRU WWTP EXPANSION
Sheet No. C-06	Scale: AS SHOWN Date: 08/14/12 Drawn by: WFC/SL Checked by: WFC/SL



GRAPHIC SCALE
 1" = 8' FEET
 1" = 8' FEET



- NOTES:
1. WORK SHALL BE DISCONTINUED IMMEDIATELY TO BE REINSTALLED OR REWORKED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING PIPE SIZES, CONNECTION POINTS AND FITTINGS. ADEQUATE PIPE SUPPORTING SYSTEMS SHALL BE INSTALLED WHERE NECESSARY TO SUPPORT THE FULL FLOW CAPACITY OF THE EXISTING PIPE. CONTRACTOR SHALL PROVIDE ANY TEMPORARY PIPING WHICH MAY BE NEEDED TO MAINTAIN COMPARABLE FLOW CAPACITY OF EXISTING PIPING.
 2. ALL CHEMICAL PIPING SHALL BE 1/2" SCH 80 CWC AND IS TO BE INSTALLED IN THE SAME TRENCH AS THE EXISTING PIPING.
 3. ALL CHEMICAL PIPING SHALL BE 1/2" SCH 80 CWC AND IS TO BE INSTALLED IN THE SAME TRENCH AS THE EXISTING PIPING.
 4. JOINT RESTRAINTS TO BE INSTALLED AS REQUIRED (SEE GENERAL DETAILS).
 5. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO PROVIDE THE NECESSARY DETAILS AND MATERIALS FOR THE FOLLOWING WORK. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION NECESSARY FOR EQUIPMENT TO BE TRACKED IN PROPER WORKING ORDER.

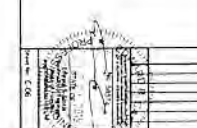
PIPING PLAN

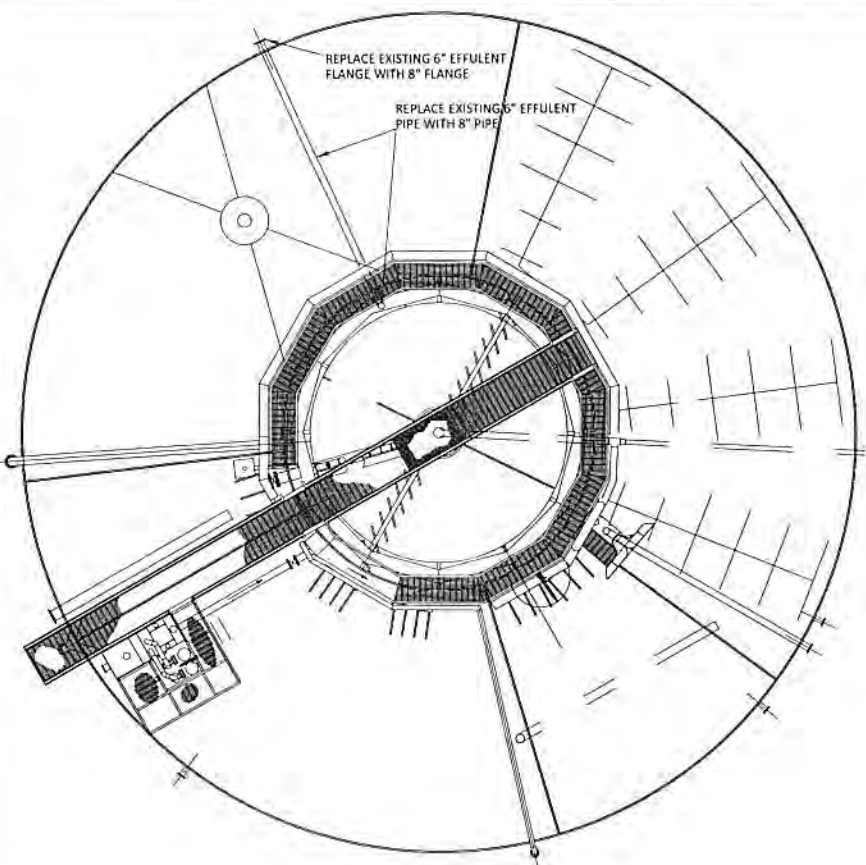
Description	Quantity

FILTERS & CHEMICAL PIPING FOR KWRU WWTP EXPANSION

WEC THE WEAVER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

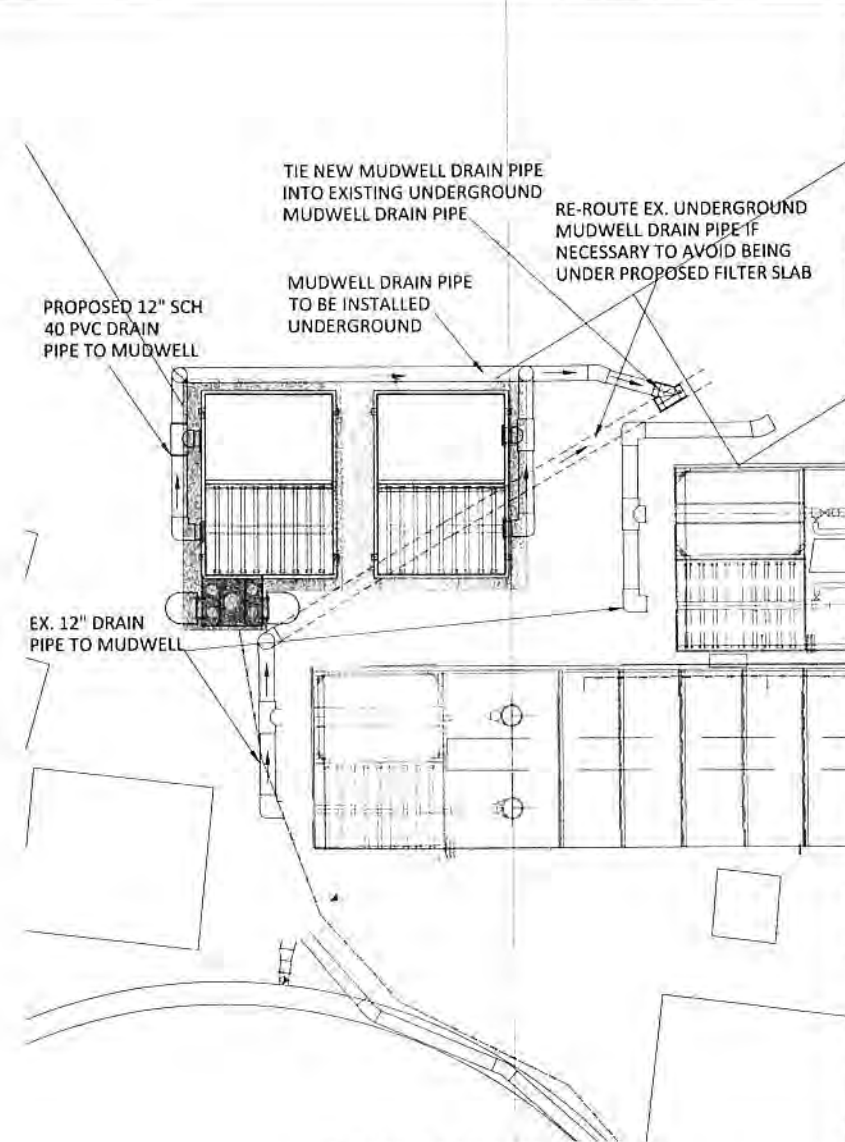
Appointed By	ESC	Design	SAW





PIPE MODIFICATIONS TO EX. EAST TREATMENT TANK

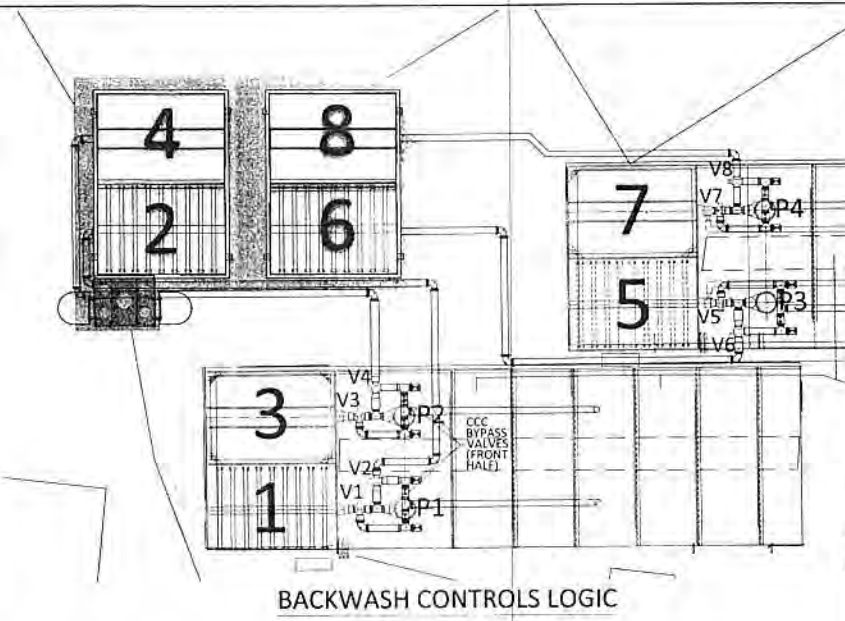
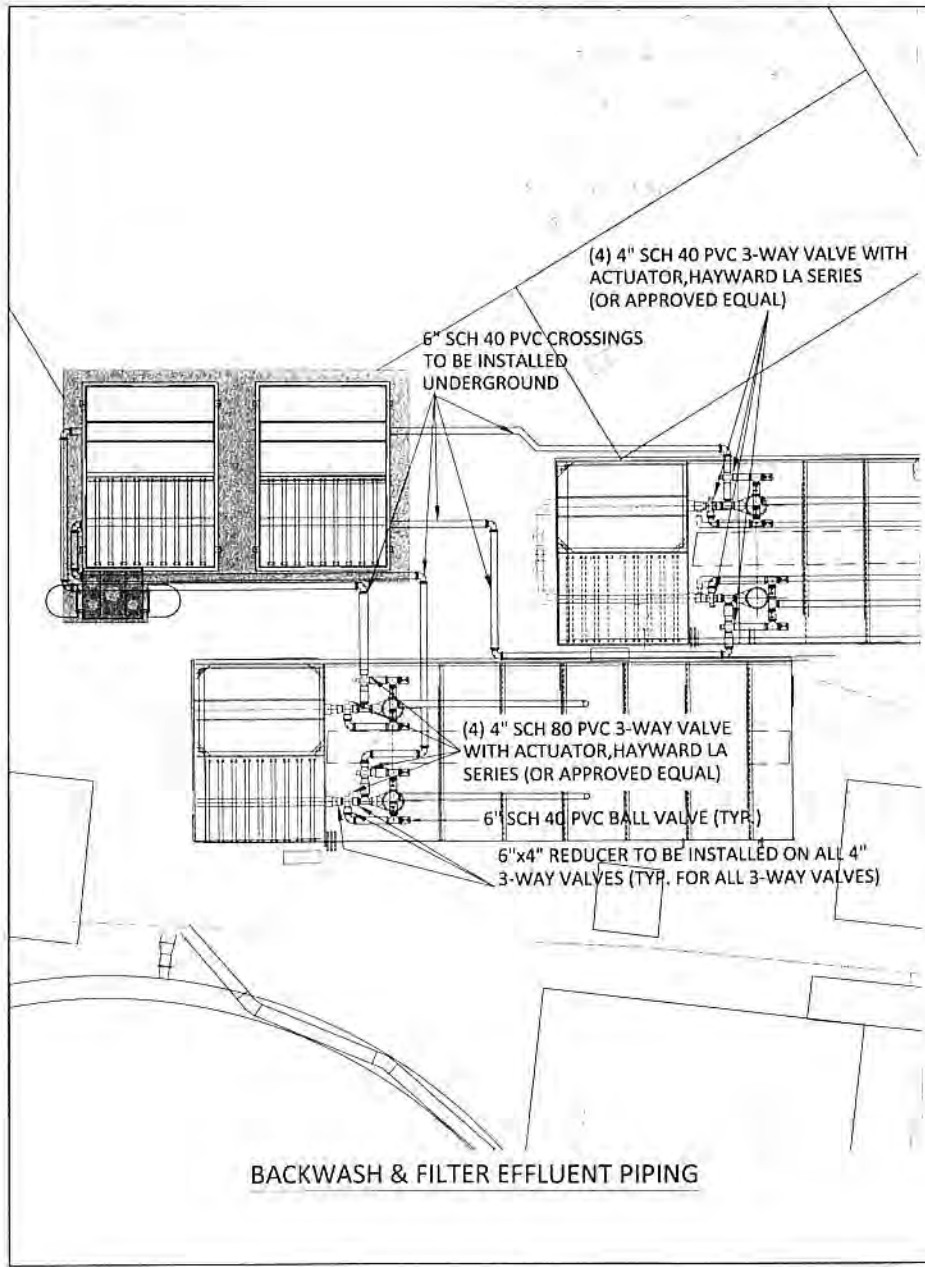
NOTES:
 1. ALL REPLACEMENT PIPE SHALL BE MADE OF MATERIAL EQUIVALENT TO EXISTING PIPING (DUCTILE IRON).
 2. NEW PIPING SHALL BE COATED WITH WITH COATING SYSTEM # "EXTERIOR METAL - HIGHLY CORROSIVE".
 SURFACE PREPARATION: ABRASIVE BLAST CLEAN METAL TO AN SSPC-SP10 (NEAR-WHITE METAL BLAST).
 PRIME COAT: POLYAMIDE EPOXY (NON-POTABLE) 7.0 MILS DFT.
 TOP COAT: POLYAMIDE EPOXY (NON-POTABLE) 3.0 MILS DFT UV RESISTANT.
 MOFT: 10.0 MILS FOR THE TWO (2) COAT SYSTEM.
 COLOR: TO BE SPECIFIED BY OWNER.



MUDWELL DRAINAGE PIPING

WFC THE WELLS ENGINEERING GROUP, INC. 6808 OVERSEAS HWY MARATHON, FLORIDA 33009 (305) 284-1615 PH (305) 284-1601 FAX		Agreement No. _____ Scale AS SHOWN Date Issued _____
Project No. _____ Date _____	Drawn By _____ Checked By _____ Date _____	Title _____ Status _____
MUDWELL & EAST PLANT PIPING FOR KWRU WWTP EXPANSION		
REVISIONS NO. DESCRIPTION _____ _____ _____		DATE _____ _____ _____
DRAWN BY: _____ CHECKED BY: _____ DATE: _____		

Drawing No. 170291-001
 Project No. 170291-001
 Project Name: KWRU WWTP Expansion



- NOTE:**
1. PIPING PLANS ARE TO BE USED AS GUIDELINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING PIPE SIZES, CONNECTION POINTS AND FITTINGS. ADEQUATE PIPE MOUNTING SYSTEMS SHALL BE INSTALLED WHERE NECESSARY TO SUFFICIENTLY SUPPORT THE FULL FLOW PIPE. CONTRACTOR SHALL PROVIDE ANY TEMPORARY PIPING WHICH MAY BE NEEDED TO MAINTAIN CONTINUOUS OPERATION OF PLANT.
 2. ALL BACKWASH PIPING SHALL BE 6" SDR 26 PVC EXCEPT WHERE NOTED.
 3. 3-WAY PVC ACTUATED VALVES SHALL BE 4" HAYWARD LA SERIES (OR ENGINEER APPROVED EQUAL). ALL 3-WAY VALVES ARE TO BE INSTALLED WITH 316 STAINLESS STEEL MOUNTING AND SUPPORT HARDWARE.
 4. VALVE SET ACTUATORS (I.E. V1 & V2, V3 & V4...) SHALL BE CONNECTED TO A POWER ALTERNATOR IN ORDER TO DIFFERENTIATE BETWEEN FILTER BACKWASH CYCLES WHILE MAINTAINING EXISTING CONTROLS.
 5. CONTRACTOR IS RESPONSIBLE FOR MODIFYING EXISTING CONTROLS AND SUPPLYING POWER TO ACTUATED VALVES AS DESCRIBED IN BACKWASH CONTROLS LOGIC DIAGRAM.

Backwash Controls

Valve	Flow Direction	Backwash 1	Backwash 2	Filtering
V1	To CCC	Closed	Open	Open
	To P1	Open	Closed	Open
V2	To CCC	Open	Closed	Open
	To P1	Closed	Open	Closed
P1		On	On	OFF

Valve	Flow Direction	Backwash 3	Backwash 4	Filtering
V3	To CCC	Closed	Open	Open
	To P2	Open	Closed	Closed
V4	To CCC	Open	Closed	Open
	To P2	Closed	Open	Closed
P2		On	On	OFF

Valve	Flow Direction	Backwash 5	Backwash 6	Filtering
V5	To CCC	Closed	Open	Open
	To P3	Open	Closed	Open
V6	To CCC	Open	Closed	Open
	To P3	Closed	Open	Closed
P3		On	On	OFF

Valve	Flow Direction	Backwash 7	Backwash 8	Filtering
V7	To CCC	Closed	Open	Open
	To P4	Open	Closed	Closed
V8	To CCC	Open	Closed	Open
	To P4	Closed	Open	Closed
P4		On	On	OFF

Valves to filter effluent are ALWAYS open.

WEC THE WATER ENGINEERING CONSULTANTS
 11000 W. BUCKLEBOURNE BLVD.
 SUITE 1100
 MARATHON, FLORIDA 32050
 (305) 289-4161 PH. (305) 289-4162 FAX

18 #200

Scale: AS SHOWN

Author: [Blank]

Check: [Blank]

Date: [Blank]

Project No. 170291-001

Project Name: KWRU WWTP Expansion

Sheet No. [Blank]

Total Sheets: [Blank]

Scale: AS SHOWN

Author: [Blank]

Check: [Blank]

Date: [Blank]

Project No. 170291-001

Project Name: KWRU WWTP Expansion

Sheet No. [Blank]

Total Sheets: [Blank]

Scale: AS SHOWN

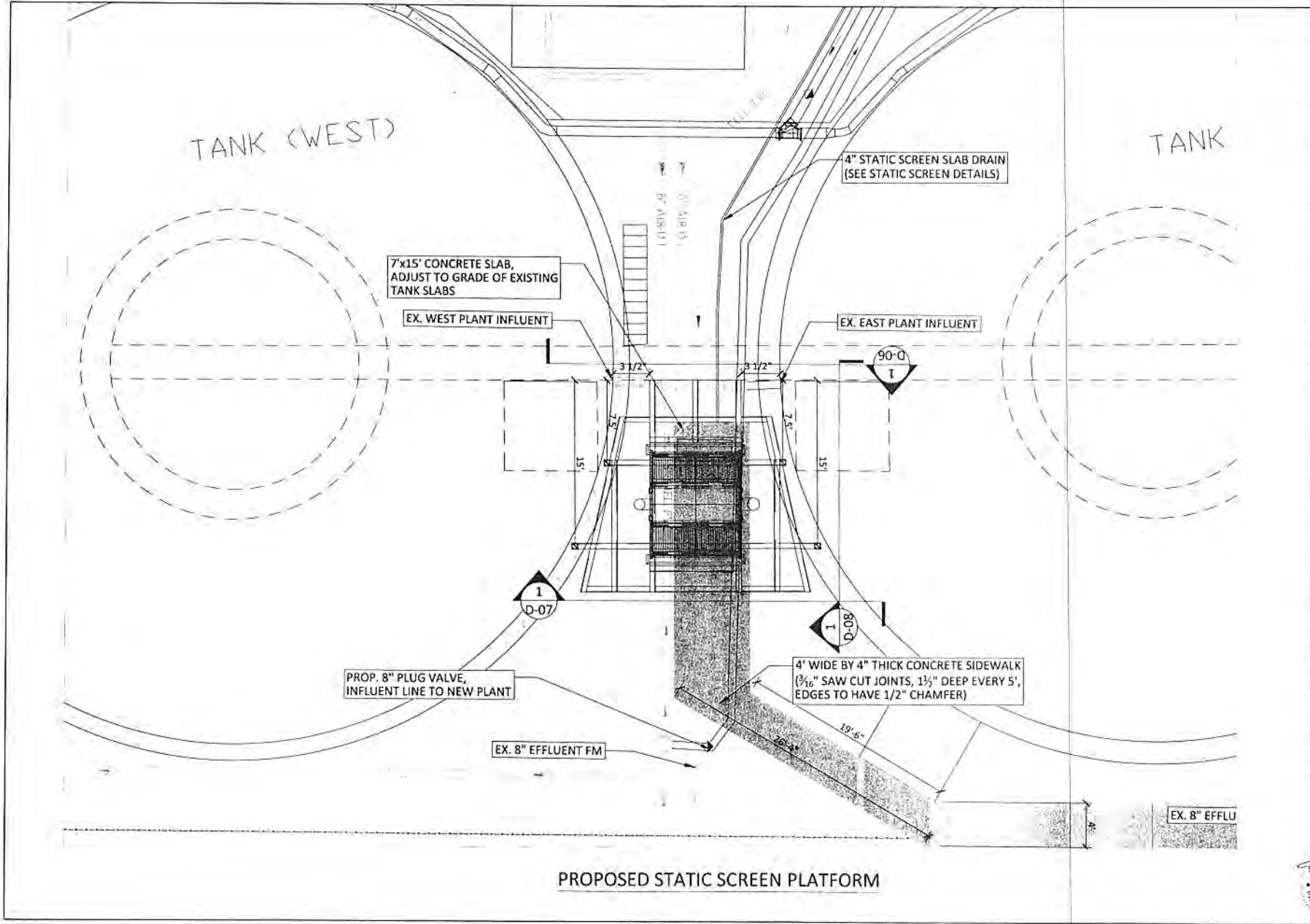
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Date: [Blank]

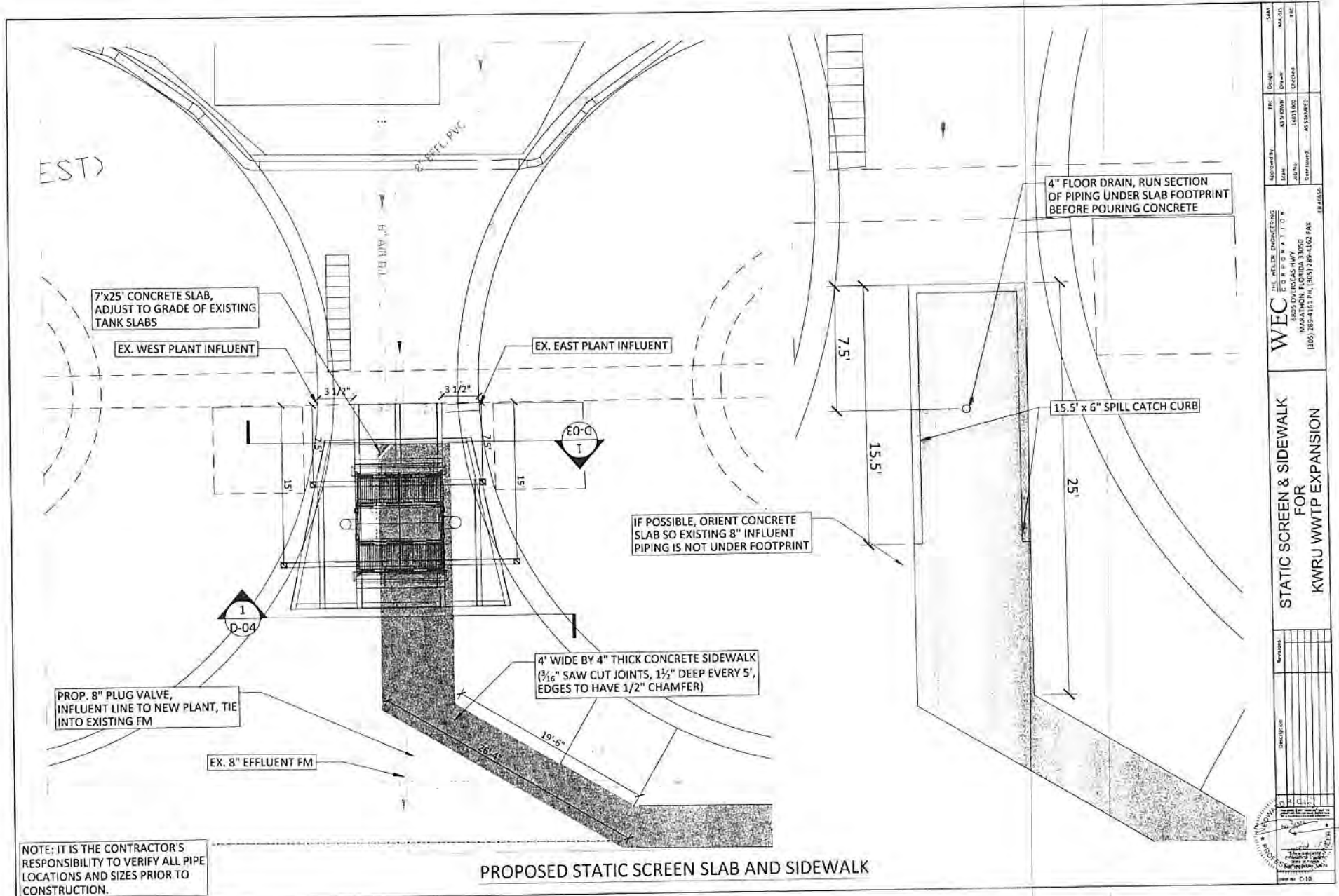
Project No. 170291-001

Project Name: KWRU WWTP Expansion



PROPOSED STATIC SCREEN PLATFORM

DATE	04/15/2014	DESIGNER	J. L. ...	CHECKED	...								
PROJECT	WWTTP EXPANSION	CLIENT	KWRU WWTP	SCALE	AS SHOWN								
DESCRIPTION	STATIC SCREEN PLATFORM FOR KWRU WWTP EXPANSION												
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NO.	DESCRIPTION												
WEC THE WATER ENGINEERING CONSULTANTS 6805 OVERSEAS HWY MARATHON, FLORIDA 33020 (305) 289-4101 PH / (305) 289-4282 FAX													

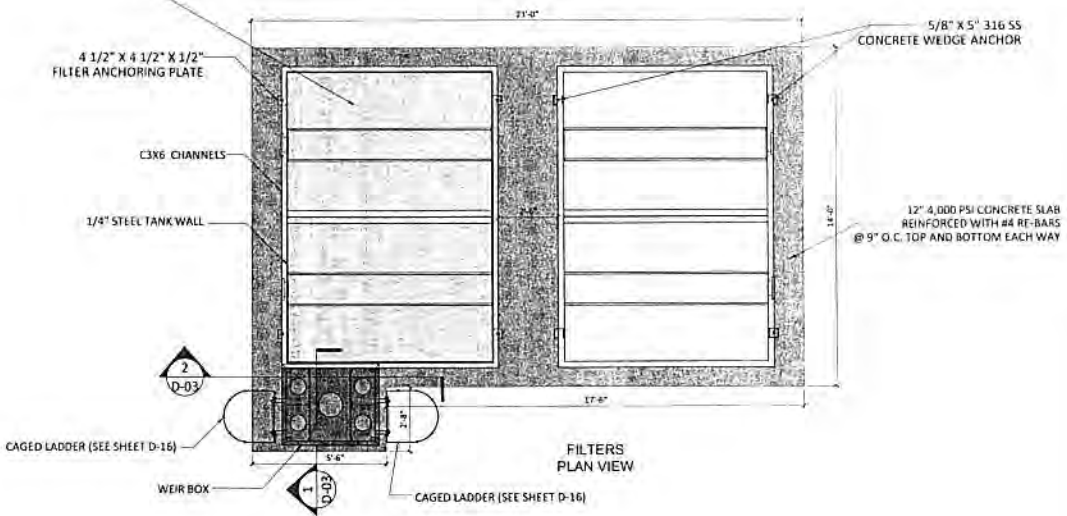
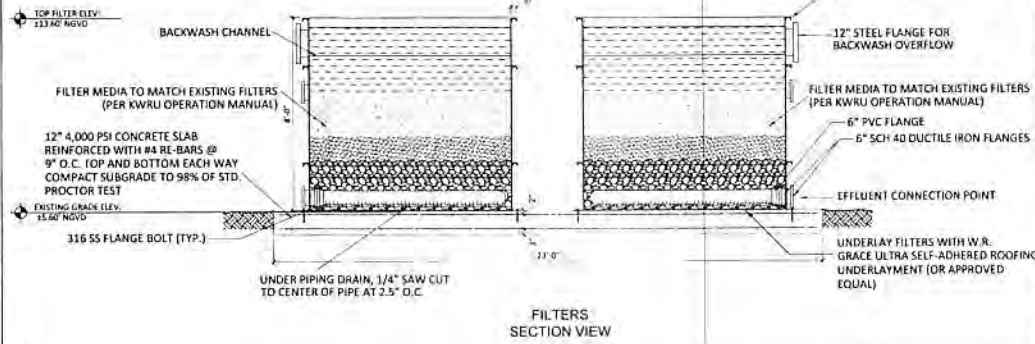
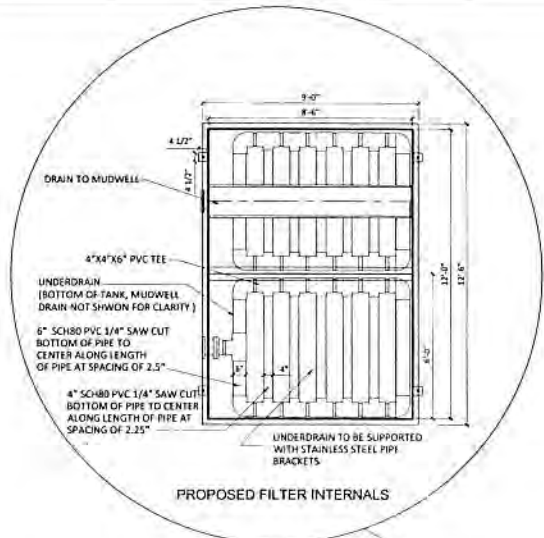


NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL PIPE LOCATIONS AND SIZES PRIOR TO CONSTRUCTION.

PROPOSED STATIC SCREEN SLAB AND SIDEWALK

SWAY	REV.	DATE	
	01	04/11/2011	01
PROJECT	NO.	DATE	BY
STATIC SCREEN & SIDEWALK FOR KWRU WWTP EXPANSION	10000111	04/11/2011	01
WFC			
THE WESTERN ENGINEERING CONSULTANTS 1500 S. W. 17TH ST. MIAMI, FLORIDA 33135 (305) 289-4161 FAX (305) 289-4162 FAX			

10/26/2017 10:00 AM
 WWT EXPANSION
 10/26/2017 10:00 AM



1
 D-01

FILTER DETAILS

SCALE: NTS

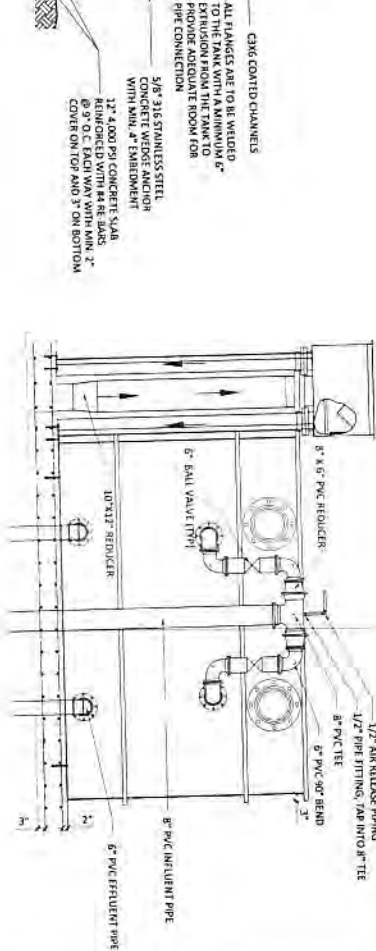
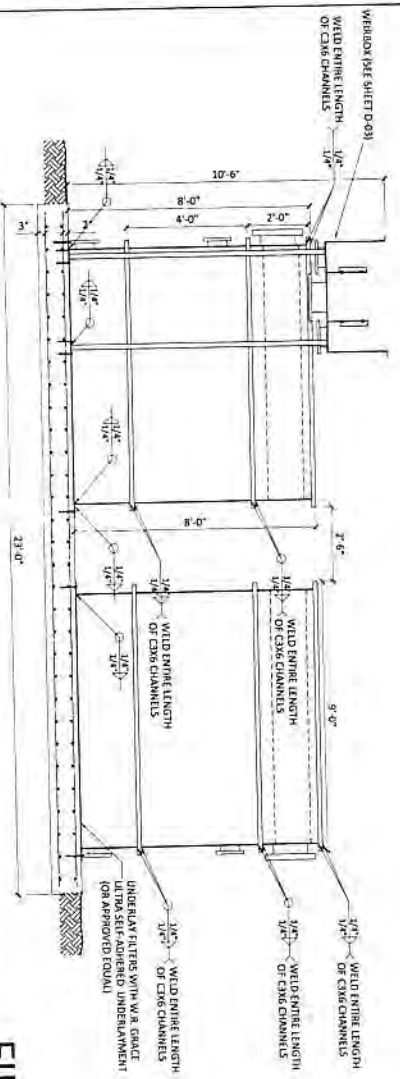
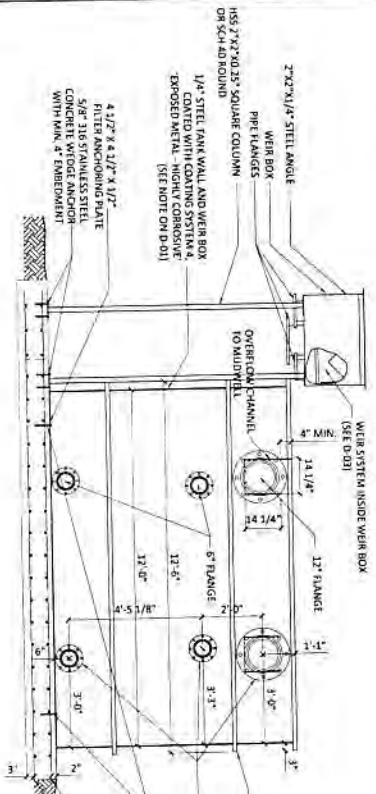
APPROVED BY	DATE	DESIGN	SAN
SCALE	REVISIONS	DATE	BY
PROJECT	CLIENT	LOCATION	DATE
DESCRIPTION	PROJECT NO.	DATE	BY
DATE	PROJECT NO.	DATE	BY

WEC THE WELLS FUGRO GROUP
 2700 N. W. 11th Ave.
 MARATHON, FLORIDA 33009
 (305) 286-1161 PH. (305) 284-4121 FAX
 18 00/00

**FILTER DETAILS
 FOR
 KWRU WWTP EXPANSION**



1
D-02



FILTER DETAILS

SCALE: NTS

NOTES

- 1. ALL STEEL INCLUDING BUT NOT LIMITED TO TANKS, WEIR BOX, COLUMNS, SANG CHANNELS, ARE TO BE OF HIGH STRENGTH CORROSION CONTROL SYSTEM-TYPICAL METAL-HIGHLY CORROSION RESISTANT SURFACE PREPARATION, ABRASIVE BLAST CLEAN METAL TO SA 2.5, 30 MIN. WHITE METAL BLAST.
- 2. PRIME COAT-100% ZINC RICH (NON-CHROMATE) 7.0 MILS DFT.
- 3. SEALANT-APPLY SEALANT AT LOCATION WHERE JUNGLE PIECES OF STEEL OVERLAP, BENT, ETC. SEALANT TO BE COMPATIBLE WITH POLYURETHANE COATING SYSTEM.
- 4. TOP COAT-TWO COATS OF POLYURETHANE 3.0 MILS DFT. TOP COAT SHALL BE UV RESISTANT.
- 5. MORT 1:3:6 MIX FOR THE THREE (3) COM SYSTEM.
- 6. COLOR TO BE SPECIFIED BY OWNER.

FILTER DETAILS FOR KWRU WWTP EXPANSION

WEC THE WHEELER ENGINEERING GROUP
 6025 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

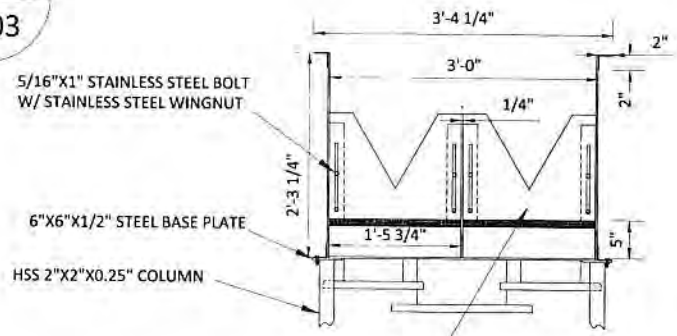
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Scale: AS SHOWN		Drawn: _____	SD
Job No: 14011002		Checked: _____	TRC
Date Issued: 05/15/00			



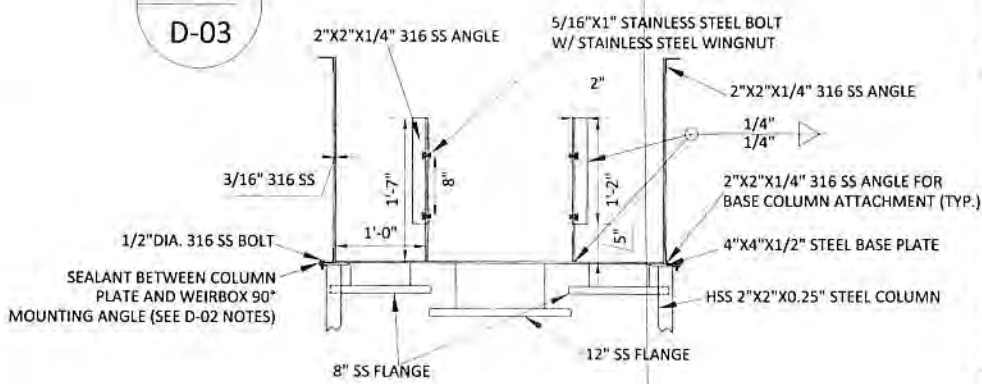
Rev: 0-02

11/20/10 10:07 AM
 11/20/10 10:07 AM
 11/20/10 10:07 AM

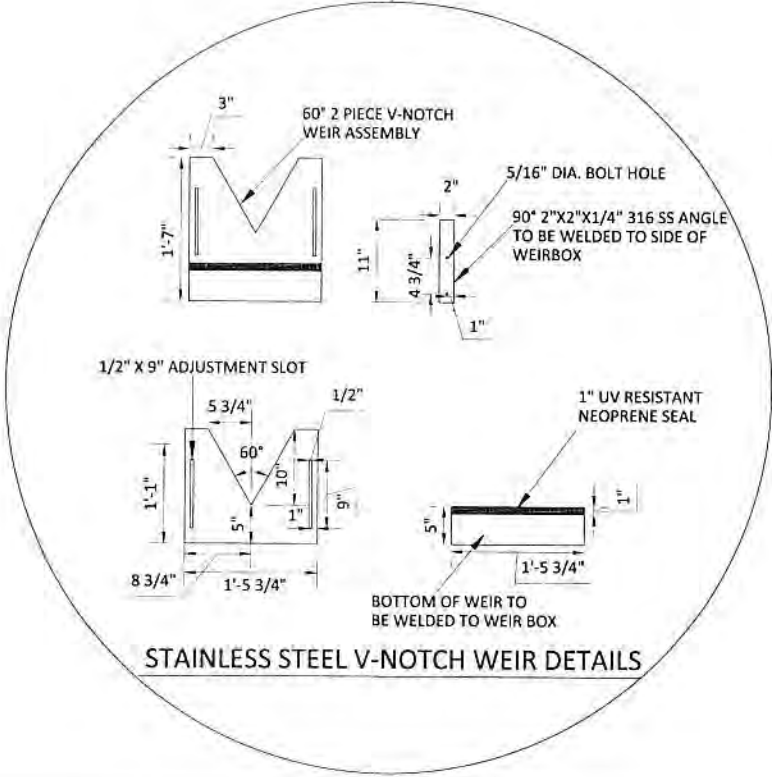
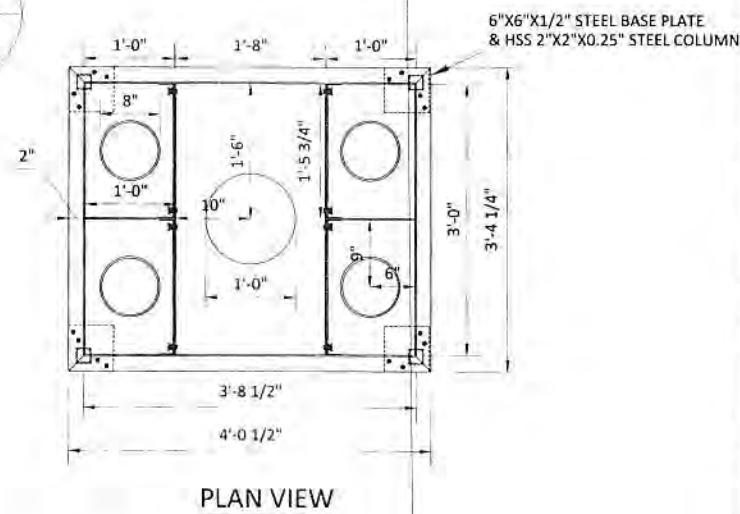
1
D-03



2
D-03



3
D-03



NOTE:
ENTIRE WEIR BOX SHALL BE MADE OF 316 STAINLESS STEEL. ALL HARDWARE USED SHALL BE 316 STAINLESS STEEL.

DATE	11/20/10	BY	AS/STW
CHK	AS/STW	DATE	11/20/10
APPROVED	AS/STW	DATE	11/20/10

WEC THE WEIR ENGINEERING CORPORATION
 6800 OVERSEA HWY
 MARATHON, FLORIDA 33050
 (305) 894-4141 FAX (305) 289-4164 FAX

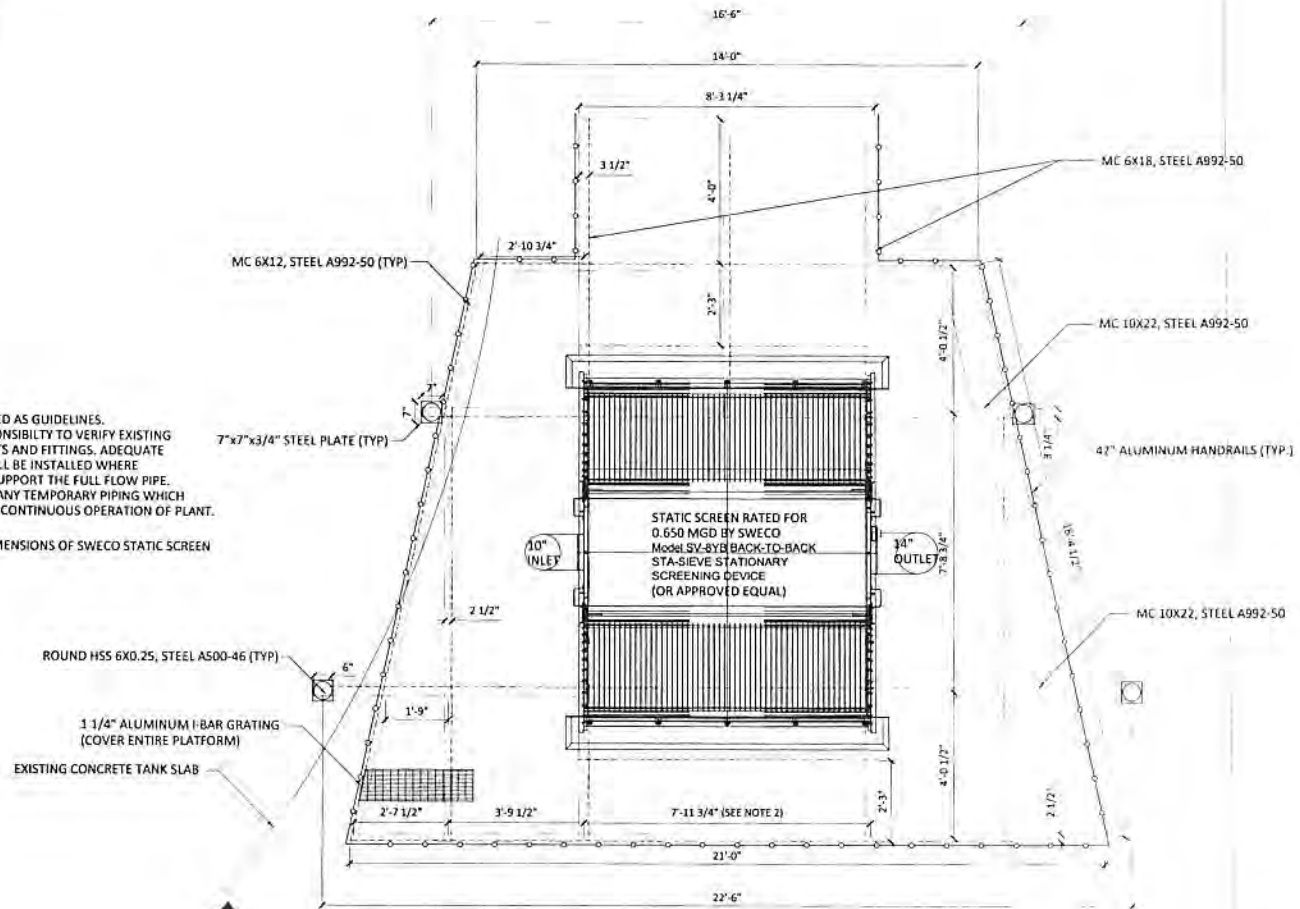
WEIRBOX DETAILS FOR KWRU WWTP EXPANSION

NO.	1	DATE	11/20/10
NO.	2	DATE	11/20/10
NO.	3	DATE	11/20/10

1
D-04

NOTE:

1. PIPING PLANS ARE TO BE USED AS GUIDELINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING PIPE SIZES, CONNECTION POINTS AND FITTINGS. ADEQUATE PIPE MOUNTING SYSTEMS SHALL BE INSTALLED WHERE NECESSARY TO SUFFICIENTLY SUPPORT THE FULL FLOW PIPE. CONTRACTOR SHALL PROVIDE ANY TEMPORARY PIPING WHICH MAY BE NEEDED TO MAINTAIN CONTINUOUS OPERATION OF PLANT.
2. CONTRACTOR TO VERIFY DIMENSIONS OF SWECO STATIC SCREEN IN FINAL SHOP DRAWINGS.



1
D-07

STATIC SCREEN PLATFORM PLAN VIEW

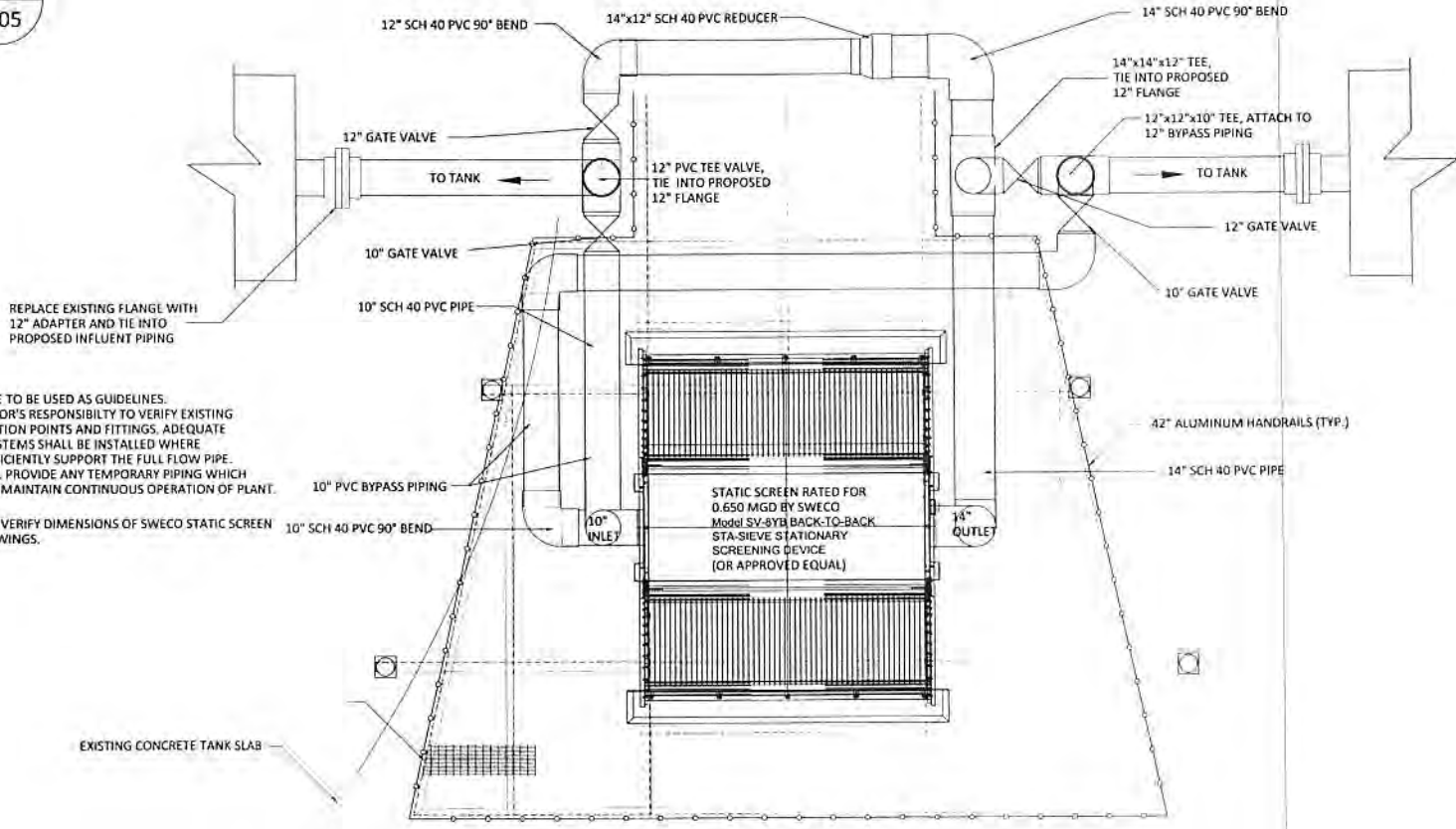
SCALE: NTS

Approved by	DRC	Design	SMM
Scale	AS SHOWN	Drawn	BA, ST
Job No.	14011002	Checked	EC
Job Name	KRWU WWTP		

WEC THE WELER ENGINEERING
 CONSULTANTS, P.C.
 6800 OVERSEAS HWY.
 MARATHON, FLORIDA 33059
 (305) 892-4181 FAX (305) 892-4492 FAX

STATIC SCREEN PLAN VIEW FOR KRWU WWTP EXPANSION	REVISIONS
REVISIONS	DESCRIPTION
NO. DATE BY	NO. DATE BY
1 02/14/13 W001310	1 02/14/13 W001310

1
D-05



REPLACE EXISTING FLANGE WITH 12" ADAPTER AND TIE INTO PROPOSED INFLUENT PIPING

NOTE:
 1. PIPING PLANS ARE TO BE USED AS GUIDELINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING PIPE SIZES, CONNECTION POINTS AND FITTINGS. ADEQUATE PIPE MOUNTING SYSTEMS SHALL BE INSTALLED WHERE NECESSARY TO SUFFICIENTLY SUPPORT THE FULL FLOW PIPE. CONTRACTOR SHALL PROVIDE ANY TEMPORARY PIPING WHICH MAY BE NEEDED TO MAINTAIN CONTINUOUS OPERATION OF PLANT.
 2. CONTRACTOR TO VERIFY DIMENSIONS OF SWECO STATIC SCREEN IN FINAL SHOP DRAWINGS.

1
D-07

STATIC SCREEN PIPING

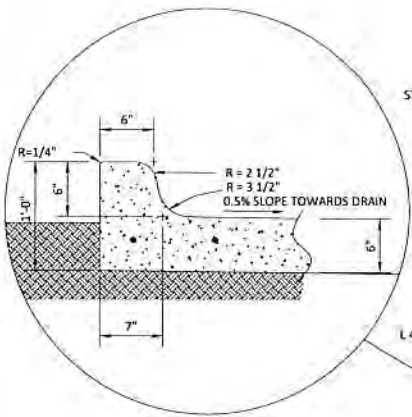
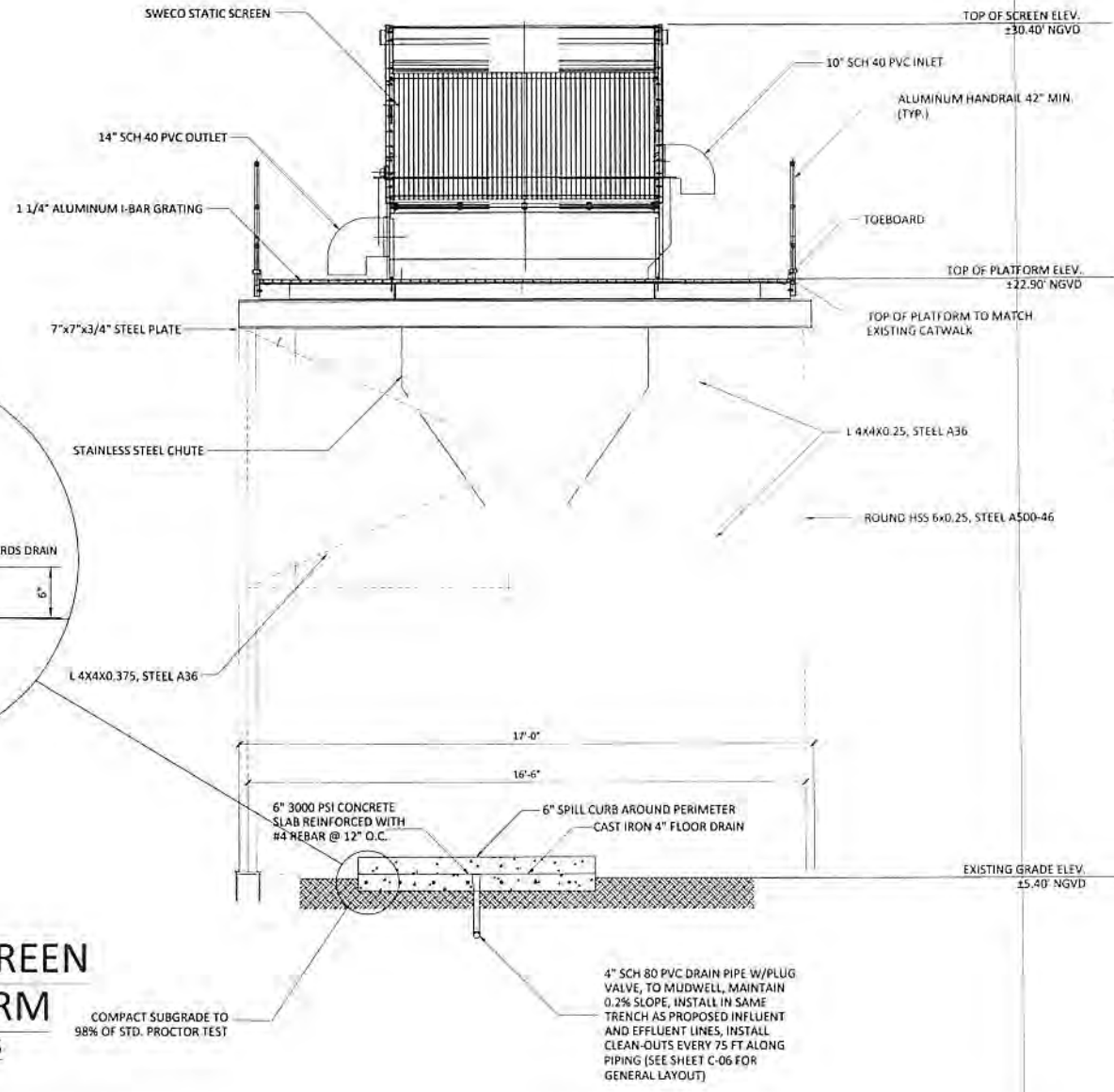
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DESIGNER:		CHECKED:		APPROVED:	
DRAWN BY:		DATE:		PROJECT:	
SCALE:		PROJECT:		DATE:	
PROJECT:		DATE:		PROJECT:	
DATE:		PROJECT:		DATE:	

WEC THE WASTE ENGINEERING CONSULTANTS
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH. (305) 289-4162 FAX

STATIC SCREEN PIPING FOR KWRU WWTP EXPANSION

1
D-06

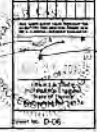


STATIC SCREEN PLATFORM

SCALE: NTS

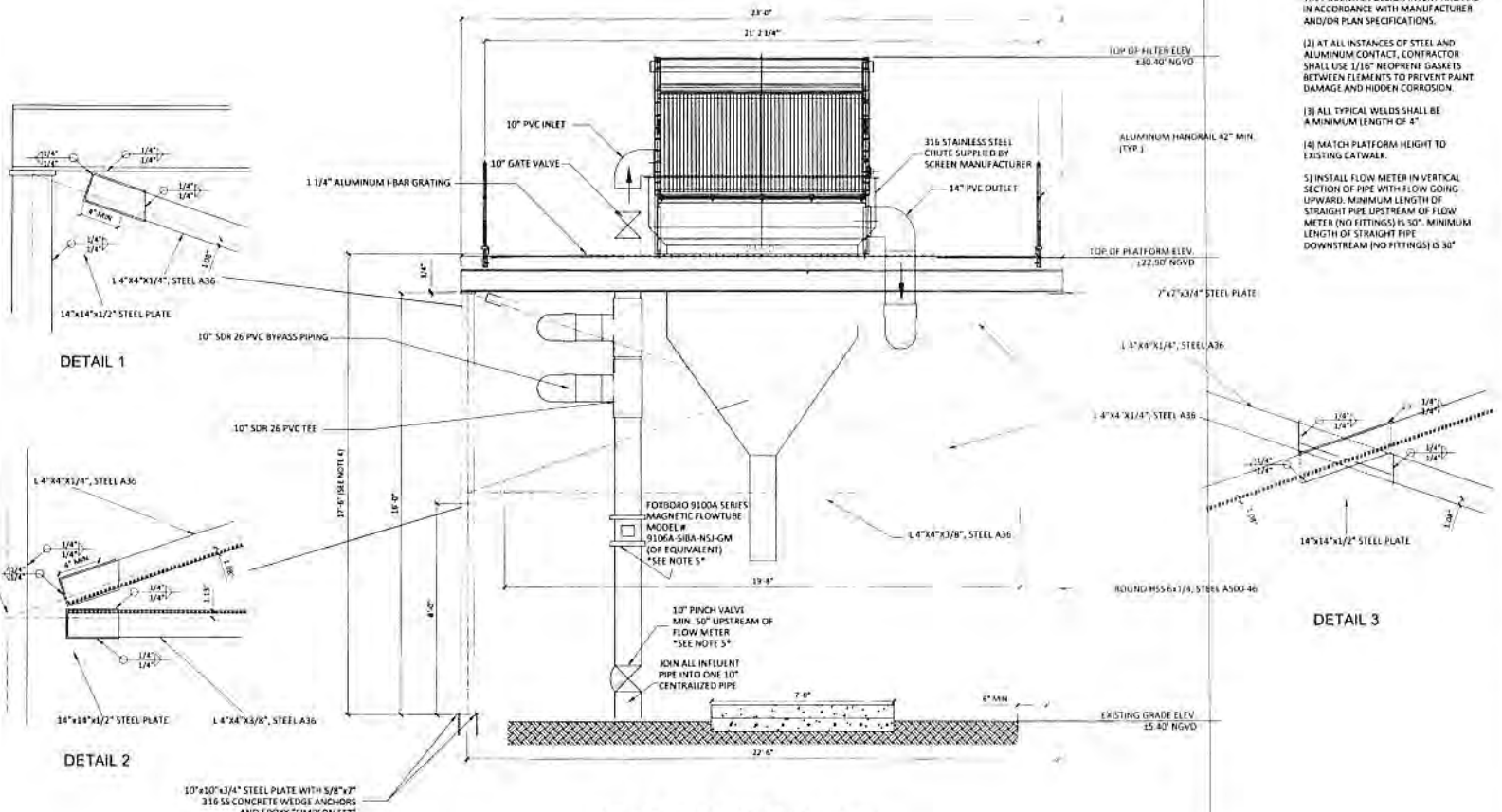
NOTE:
 ALL WALKABLE CONCRETE
 SURFACES SHALL HAVE LIGHT
 BROOM, NON-SKID FINISH.

DATE	10/21/14	DRAWN BY	10/21/14	CHECKED BY	10/21/14
APPROVED BY		DATE		DATE	
DESIGNER	AS/AC/CK	DATE	10/21/14	DATE	10/21/14
DRAWN	AS/AC/CK	DATE	10/21/14	DATE	10/21/14
CHECKED		DATE		DATE	
APPROVED		DATE		DATE	
PROJECT	KWRU WWTP EXPANSION				
SHEET NO.	D-06				
SHEET TOTAL	1				



Drawn By: 1/2/17/BA
 Project: 1514
 Project Name: KRWV WWTP

1
 D-07



- NOTES:
- (1) PIPING PLANS ARE TO BE USED AS GUIDELINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PIPE SIZES, CONNECTION POINTS AND FITTINGS, ETC. INSTALLATION METHODS ARE AT THE CONTRACTOR'S DISCRETION SO LONG AS THEY MAINTAIN DESIGN INTENT AND ARE IN ACCORDANCE WITH MANUFACTURER AND/OR PLAN SPECIFICATIONS.
 - (2) AT ALL INSTANCES OF STEEL AND ALUMINUM CONTACT, CONTRACTOR SHALL USE 1/16\"/>

STATIC SCREEN PLATFORM
 SCALE: NTS

DATE	BY
CHKD	BY
APP'D	BY
DWG NO	1514-D-07
DATE	1/2/17
PROJECT	KRWV WWTP
SCALE	AS SHOWN

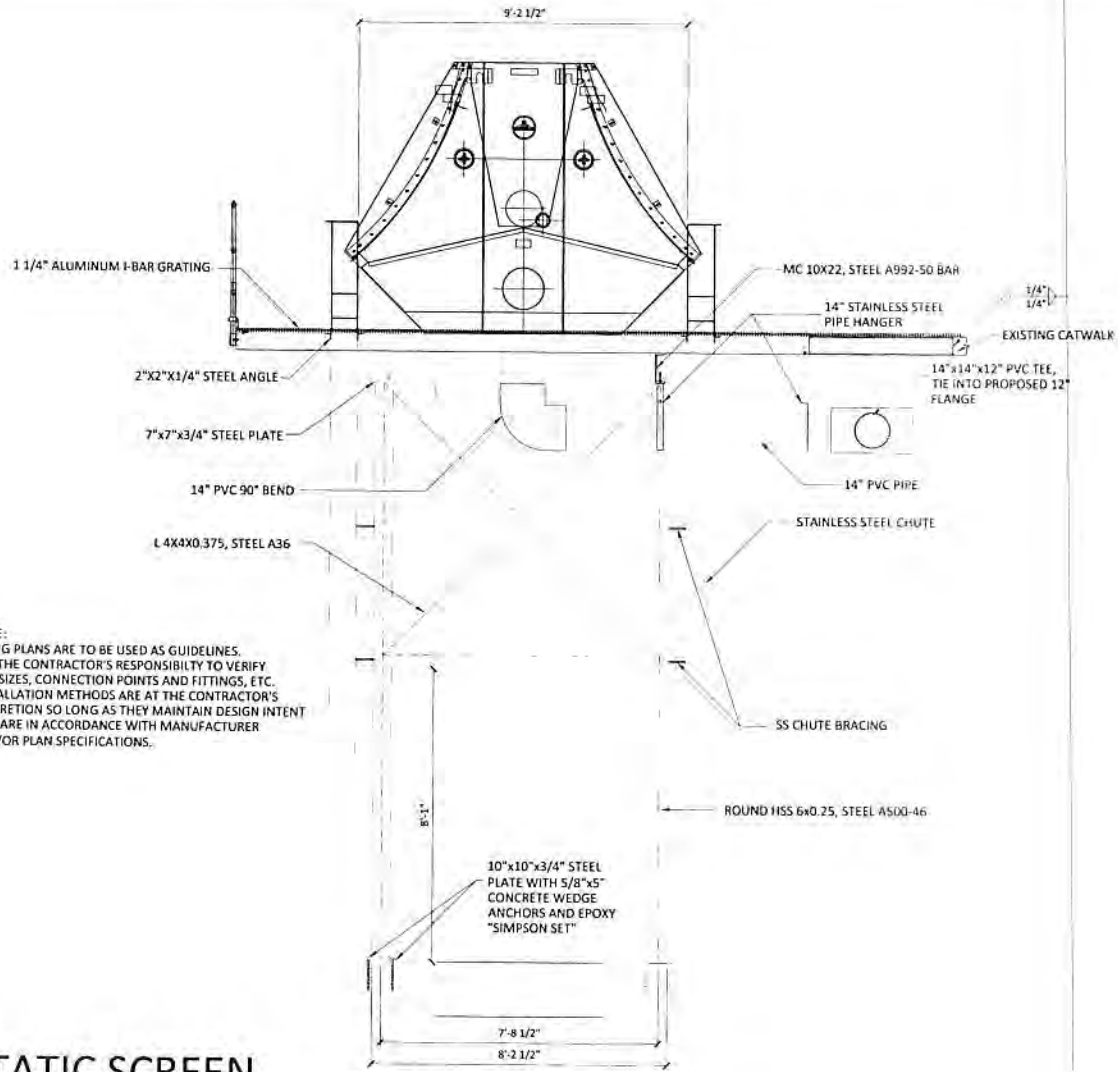
WFC THE WALTER ENGINEERING COMPANY
 1000 S. FLORISSA AVENUE
 SUITE 100
 TAMPA, FLORIDA 33604
 (813) 289-4161 PH, (813) 289-4162 FAX
 03-21558

STATIC SCREEN PLATFORM FOR KRWV WWTP EXPANSION

REVISION	DATE	BY	CHKD	APP'D



1
D-08



**STATIC SCREEN
PLATFORM**

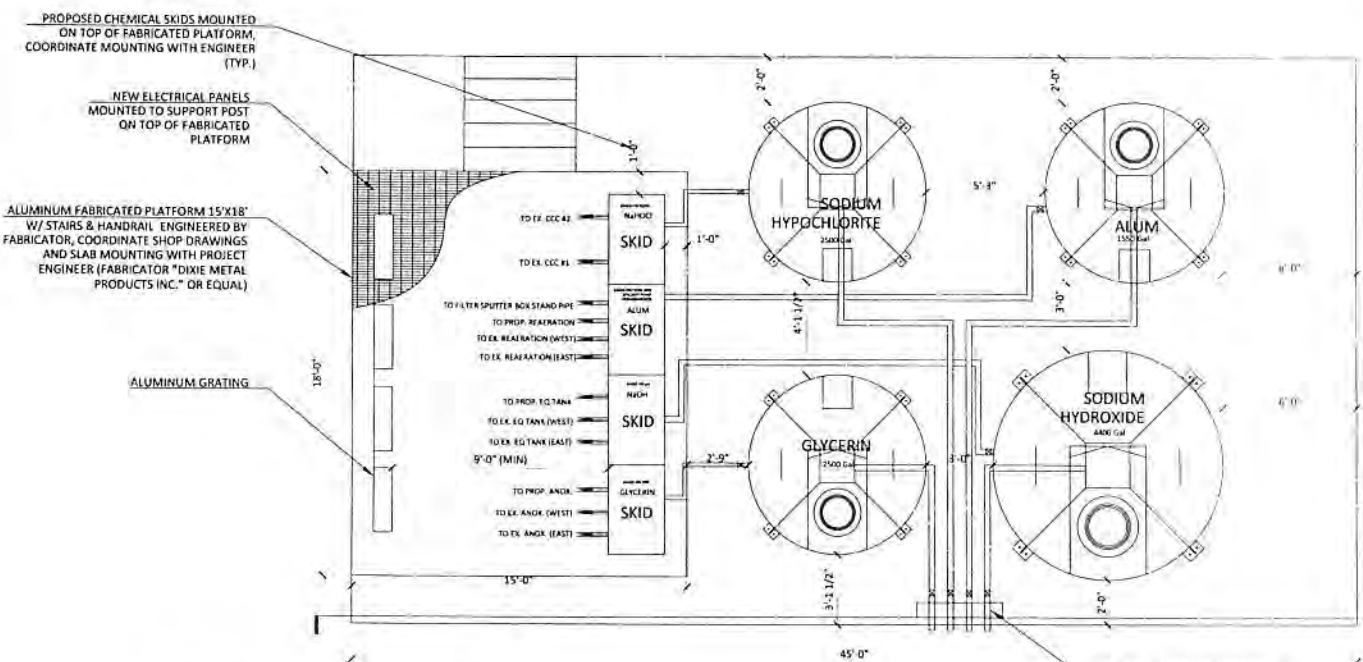
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NOTE:
PIPING PLANS ARE TO BE USED AS GUIDELINES.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY
PIPE SIZES, CONNECTION POINTS AND FITTINGS, ETC.
INSTALLATION METHODS ARE AT THE CONTRACTOR'S
DISCRETION SO LONG AS THEY MAINTAIN DESIGN INTENT
AND ARE IN ACCORDANCE WITH MANUFACTURER
AND/OR PLAN SPECIFICATIONS.

<p>Approved By: [Signature]</p> <p>Scale: AS SHOWN</p> <p>Job No: 14011002</p> <p>Date Issued: 05/13/2010</p>	<p>Design: [Signature]</p> <p>Drawn: [Signature]</p> <p>Checked: [Signature]</p> <p>AS SHOWN</p>	<p>Sheet No: 1</p> <p>Total Sheets: 1</p>								
<p>WEC THE WETZEL ENGINEERING GROUP 1820 DIVERGAS HWY MIDLAND, TX 79701 (937) 839-4111 PH, (937) 839-0021 FAX</p>										
<p>STATIC SCREEN PLATFORM FOR KWRU WWTP EXPANSION</p>										
<p>Revisions:</p> <table border="1"> <tr><th>No.</th><th>Description</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	No.	Description							<p>Drawn: [Signature]</p> <p>Checked: [Signature]</p> <p>Date: [Date]</p>	<p>Project No: D-08</p>
No.	Description									

Drawn: [Signature]
 Checked: [Signature]
 Date: [Date]

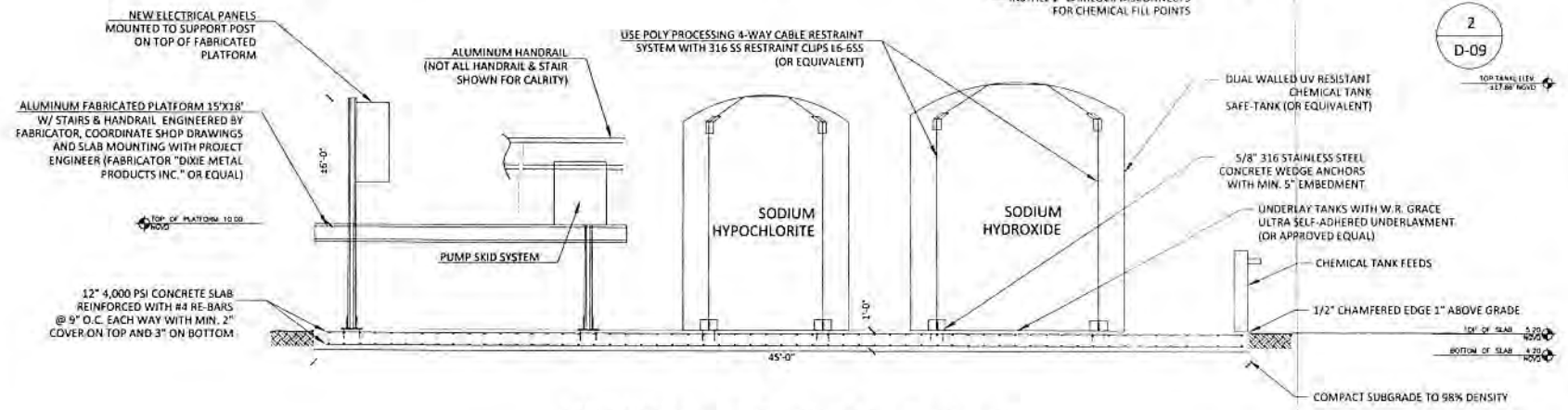
Proposed Slab Layout for
 Chemical Tank Expansion



1
D-05

NOTES:
 1.) PIPING PLANS ARE TO BE USED AS GUIDELINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PIPE SIZES, CONNECTION POINTS AND FITTINGS, ETC. INSTALLATION METHODS ARE AT THE CONTRACTOR'S DISCRETION SO LONG AS THEY MAINTAIN DESIGN INTENT AND ARE IN ACCORDANCE WITH MANUFACTURER AND/OR PLAN SPECIFICATIONS.
 2.) ALL CHEMICAL PIPING SHALL BE SCH. 80 CPVC AND RATED FOR CHEMICAL USE.

2
D-05



2
D-09

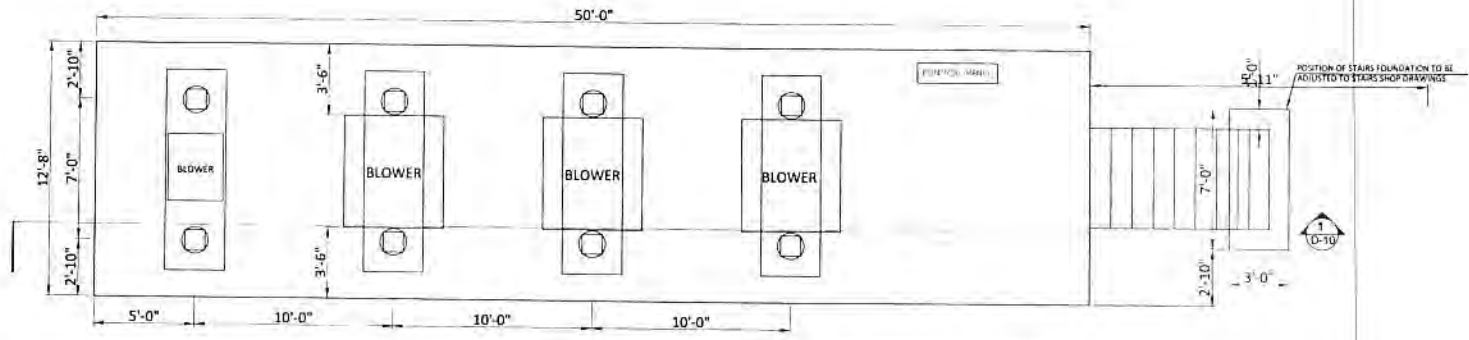
PROPOSED CHEMICAL TANK SLAB LAYOUT
 SCALE: NTS

DATE	11/15/2011	BY	WEC
SCALE	AS SHOWN	CHECKED	WEC
APPROVED BY	NAME	DATE	
PROJECT	180131802	DATE	03/11/2010
CLIENT	180131802	DATE	03/11/2010

WEC THE WALTER ENGINEERS
 5802 DIVERGAS HWY
 ANNATONAH, FLORIDA 33495
 (850) 289-4105 PH, (850) 289-4102 FAX

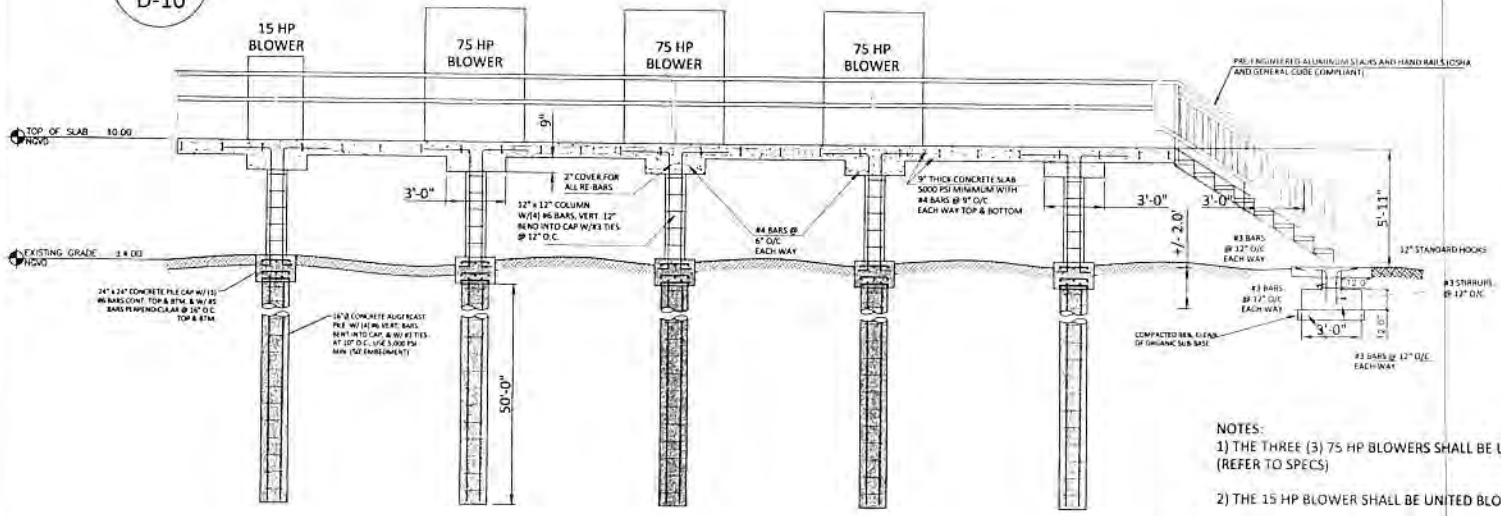
CHEMICAL TANK LAYOUT FOR KWRU WWTP EXPANSION

DRAWING NO. 100710-04
 PROJECT NO. 100710-01
 SHEET NO. 100710-04



NOTE: METHOD OF ANCHORING BLOWER TO THE PAD SHALL BE APPROVED BY ENGINEER.

1
D-10



- NOTES:
- 1) THE THREE (3) 75 HP BLOWERS SHALL BE UNITED BLOWER INC. "UBI-150" (REFER TO SPECS)
 - 2) THE 15 HP BLOWER SHALL BE UNITED BLOWER INC. "UBI-80" (REFER TO SPECS)
 - 3) BLOWER MOUNTING WILL BE IN ACCORDANCE WITH MANUFACTURER STANDARDS, 316 SS HARDWARE SHALL BE USED
 - 4) METHOD OF ANCHORING BLOWER TO THE PAD SHALL BE APPROVED BY ENGINEER.

PROPOSED BLOWER PAD LAYOUT

SCALE: NTS

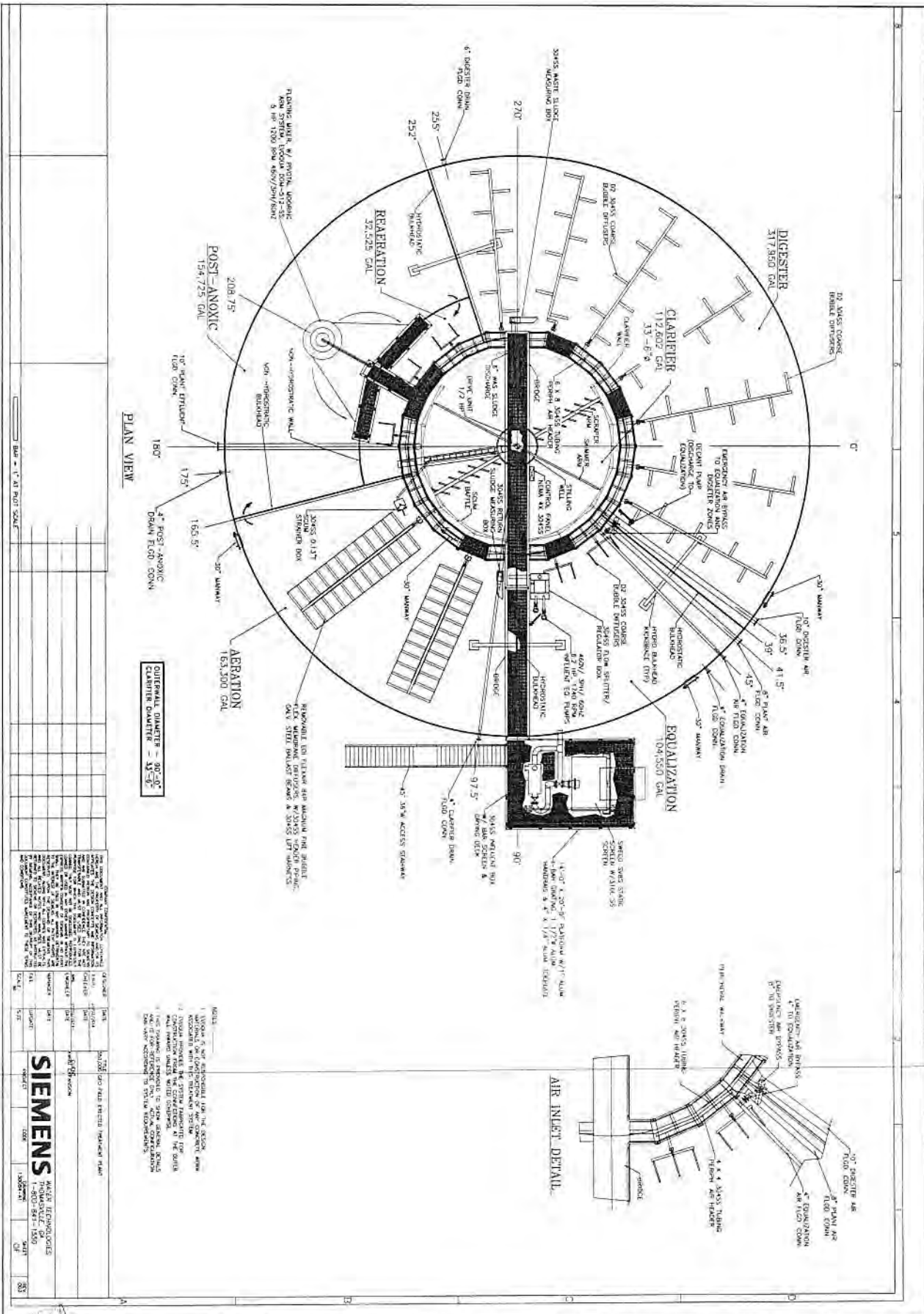
AW	DR	DATE	BY
MM/SS	MM/SS	MM/SS	MM/SS
INC.	INC.	INC.	INC.

WEC THE SMALLER ENGINEERING
 CONSULTANTS
 8805 OVERSEAS HWY
 WASHINGTON, TORONTO, MISSISSAUGA, ONTARIO, CANADA
 (416) 299-4101 FAX: (416) 299-4102

NO.	DESCRIPTION	DATE



Sheet No. D-10



PLAN VIEW

INTERNAL DIAMETER = 90'-0"
 CLARIFIER DIAMETER = 31'-0"

NOTES:
 1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN FEET AND INCHES.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 6. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 7. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 8. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 9. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 10. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.

NO.	DATE	BY	CHKD.	DESCRIPTION
1	08/11/03	WEC	WEC	ISSUED FOR PERMIT
2	08/11/03	WEC	WEC	ISSUED FOR PERMIT
3	08/11/03	WEC	WEC	ISSUED FOR PERMIT
4	08/11/03	WEC	WEC	ISSUED FOR PERMIT
5	08/11/03	WEC	WEC	ISSUED FOR PERMIT

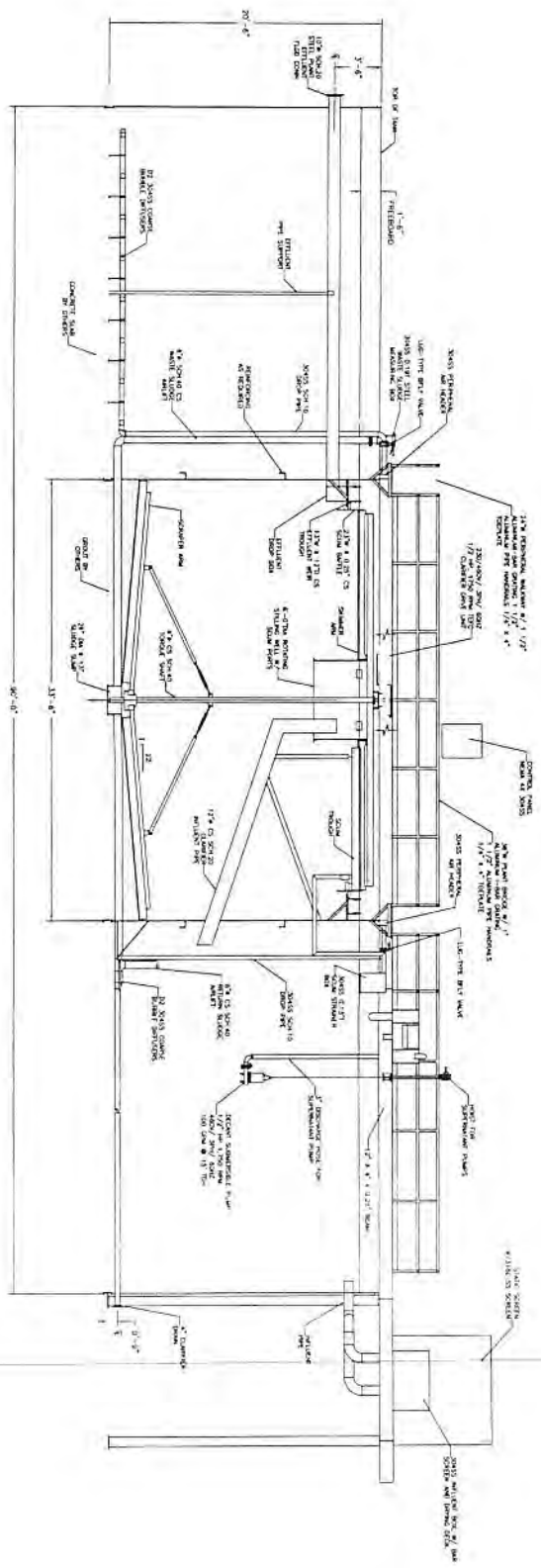
SIEMENS WATER TECHNOLOGIES
 1-800-841-1500
 33

SIEMENS DIGESTER DETAILS FOR KWRU WWTP EXPANSION

WEC THE WEAVER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 269-4161 PH, (305) 269-4162 FAX

Approved By:	JHC	Design:	SAM
Scale:	AS SHOWN	Drawn:	KAR, LSL
Job No.:	14011100	Checked:	JAC
Date Issued:	AS STAMPED		





SECTIONAL ELEVATION
 (SOME ITEMS OMITTED OR NOT SHOWN FOR CLARITY)

DWG. NO. 10071-BJ SECTIONAL ELEVATION	
PROJECT NO. 10071-BJ PROJECT NAME MARATHON WWTP EXPANSION	SHEET NO. 38 TOTAL SHEETS 38
DATE 10/1/01 DRAWN BY J. H. [unreadable] CHECKED BY [unreadable]	SCALE 1/8" = 1'-0" PROJECT LOCATION MARATHON, FLORIDA
CLIENT SIEMENS PROJECT MANAGER [unreadable]	DESIGNER [unreadable]

NOTES:
 1. SEE GENERAL NOTES TO THIS PROJECT.
 2. ALL DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED.
 3. ALL MATERIALS ARE UNLESS OTHERWISE SPECIFIED.
 4. ALL CONNECTIONS ARE UNLESS OTHERWISE SPECIFIED.
 5. ALL SURFACES ARE UNLESS OTHERWISE SPECIFIED.
 6. ALL FINISHES ARE UNLESS OTHERWISE SPECIFIED.
 7. ALL PAINTS ARE UNLESS OTHERWISE SPECIFIED.
 8. ALL ELECTRICAL WORK IS TO BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL CODES.
 9. ALL MECHANICAL WORK IS TO BE IN ACCORDANCE WITH THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) AND ALL LOCAL CODES.
 10. ALL PLUMBING WORK IS TO BE IN ACCORDANCE WITH THE PLUMBING CODE AND ALL LOCAL CODES.
 11. ALL STRUCTURAL WORK IS TO BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AND ALL LOCAL CODES.
 12. ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH THE ACI 308 AND ALL LOCAL CODES.
 13. ALL SOILS ARE TO BE TESTED AND FOUND TO BE SUITABLE FOR THE PROPOSED FOUNDATIONS.
 14. ALL FOUNDATIONS ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE AISC AND ALL LOCAL CODES.
 15. ALL FOUNDATIONS ARE TO BE PROTECTED AGAINST CORROSION BY AN APPROPRIATE SYSTEM.
 16. ALL FOUNDATIONS ARE TO BE PROTECTED AGAINST FLOODING BY AN APPROPRIATE SYSTEM.
 17. ALL FOUNDATIONS ARE TO BE PROTECTED AGAINST COLLAPSE BY AN APPROPRIATE SYSTEM.
 18. ALL FOUNDATIONS ARE TO BE PROTECTED AGAINST SLIDING BY AN APPROPRIATE SYSTEM.
 19. ALL FOUNDATIONS ARE TO BE PROTECTED AGAINST UPLIFT BY AN APPROPRIATE SYSTEM.
 20. ALL FOUNDATIONS ARE TO BE PROTECTED AGAINST TORSION BY AN APPROPRIATE SYSTEM.

Division	Remarks

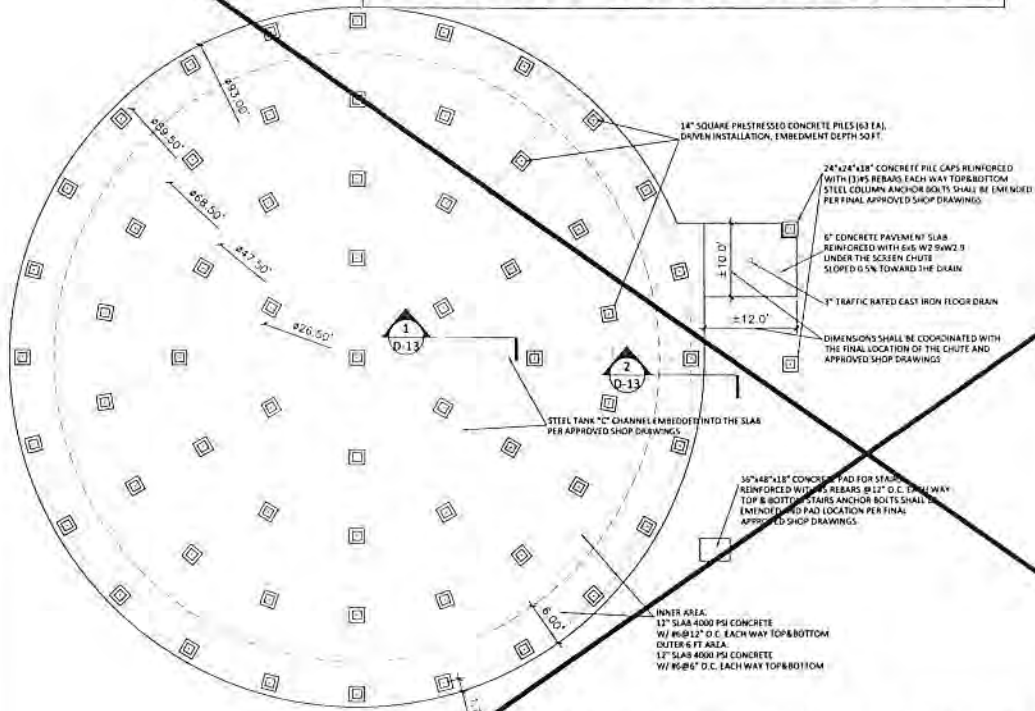
SIEMENS DIGESTER DETAILS
 FOR
 KWRU WWTP EXPANSION

WEC THE WELLS ENGINEERING
 CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
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Approved By:	ERC	Drawn:	SAM
Date:	AS SHOWN	Checked:	MA, SA
Job No:	14011.002		
Date Issued:	AS STAMPED		

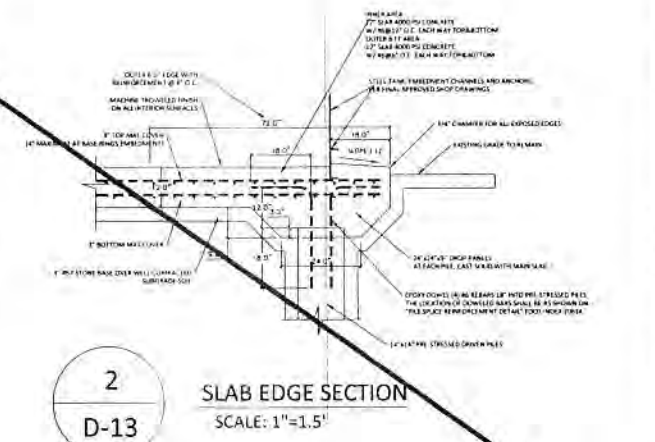
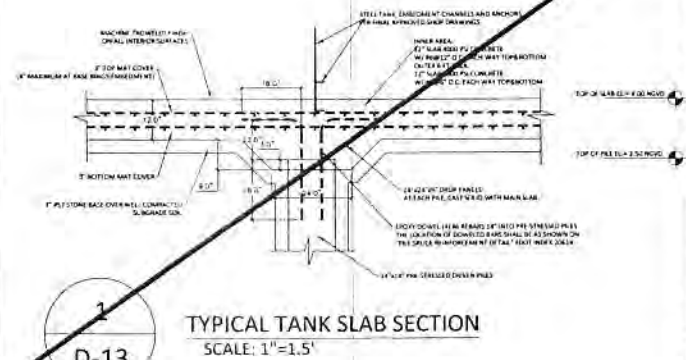


SEE ACIP DESIGN FOR FOUNDATION DETAILS



PROPOSED TREATMENT TANK FOUNDATIONS PLAN
SCALE: 1"=8'

- NOTES:**
1. THE LOCATION OF THE EMBEDMENT "C" CHANNEL RINGS AND BUFFLES, THE HEADWORKS PILES AND STAIRS PAD SHALL BE COORDINATED WITH THE FINAL APPROVED TANK MANUFACTURER SHOP DRAWINGS.
 2. COORDINATE WITH PIPING PLANS FOR ANY FLOOR DRAINS OR OTHER PIPING EMBEDDED OR INSTALLED UNDER THE SLAB.
 3. OPTIONAL TO INSTALL 2" PVC DRAIN PIPING INTO THE SLAB SEGMENTS FOR DRAINING RAIN WATER DURING THE TANK ERECTION PERIOD. PRIOR TO THE FINAL TANK HYDROSTATIC TESTING ALL TEMPORARY FLOOR DRAINS SHALL BE FILLED SOLID WITH APPROVED "NON-SHRINK GROUT".
 4. FOR CURING OF SLAB CONCRETE SECTIONS INSIDE THE "C" CHANNEL SHALL BE FLOODED WITH POTABLE WATER IMMEDIATELY AFTER CONCRETE FINISH AND REMAIN FLOODED FOR 7 DAYS. OUTER TANK EDGE SHALL BE CURED BY APPLICATION OF CURING COMPOUND.

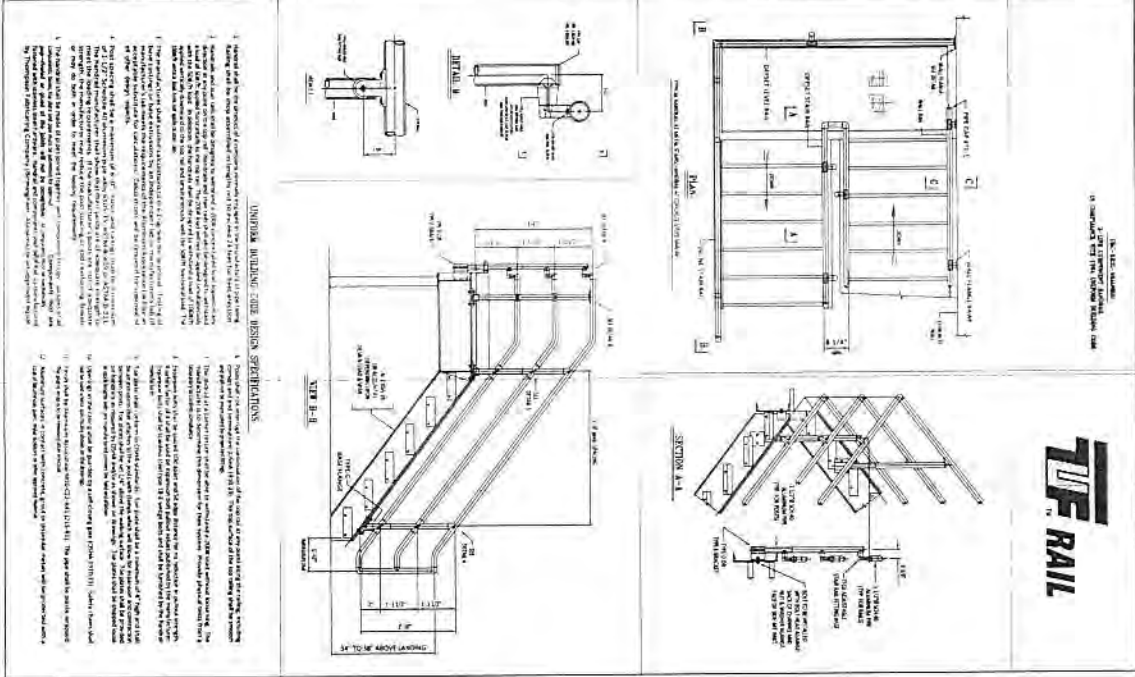
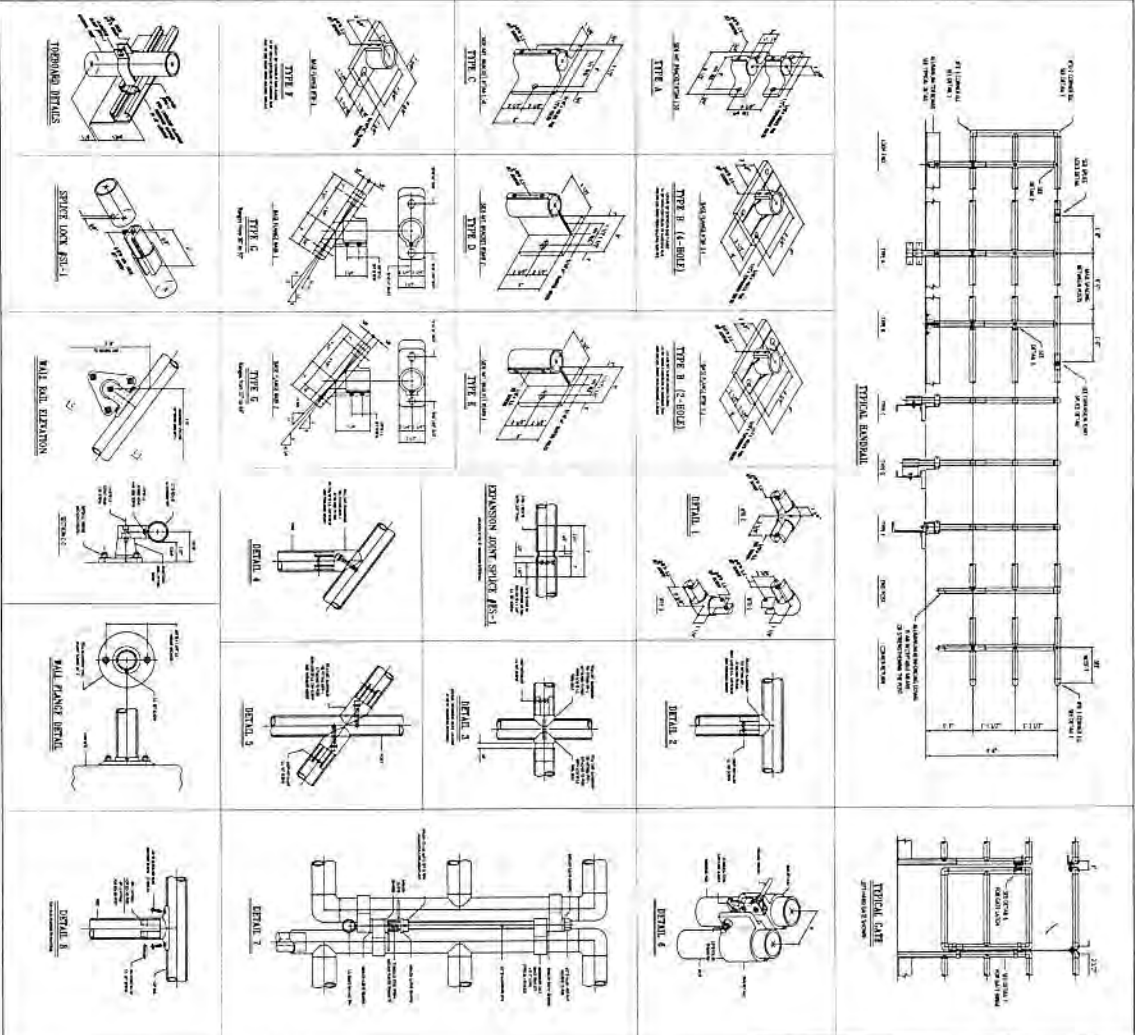


DATE	DESCRIPTION	BY	CHECKED
01/27/23	ISSUED FOR PERMIT	JAC	JAC

WEC THE WALTER CHRISTENSEN GROUP
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33950
 (352) 269-4461 FAX (352) 269-4362 FAX

NO.	DATE	DESCRIPTION

TANK SLAB DETAILS FOR KWRU WWTP EXPANSION
 DATE: 01/27/23



Designator	Revisions

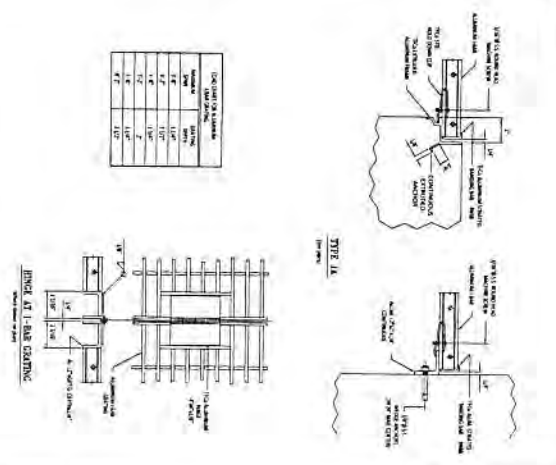
**HAND RAIL DETAILS
 FOR
 KWRU WWTP EXPANSION**

WEC THE WELER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 287-4161 PH, (305) 289-4162 FAX

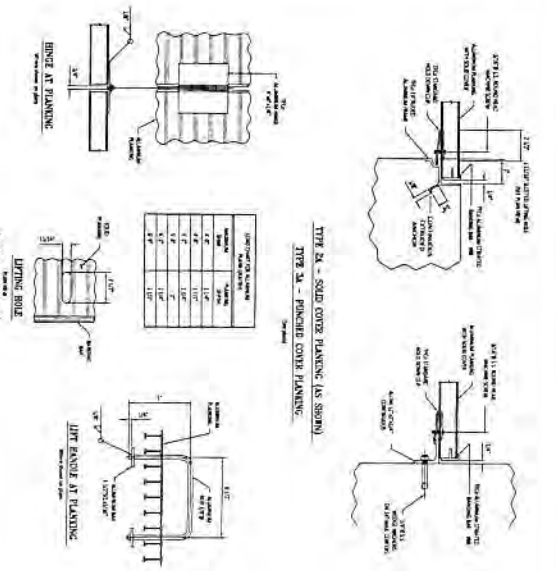
Approved By	ERC	Design	SAM
Scale	AS SHOWN	Drawn	MAK/SLS
Job No.	14013.002	Checked	ERC
Date Issued	AS SHOWN		



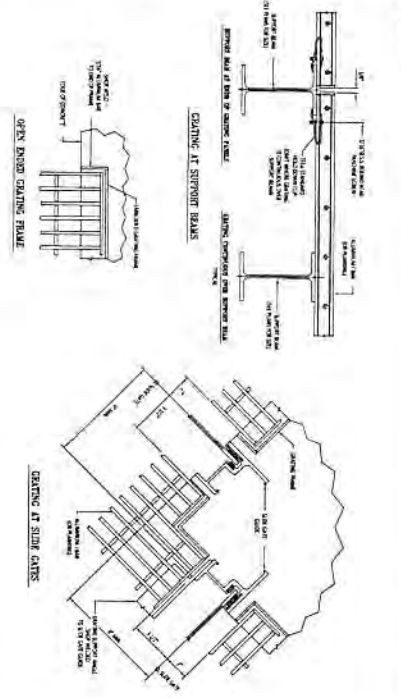
1-BAY GRATING



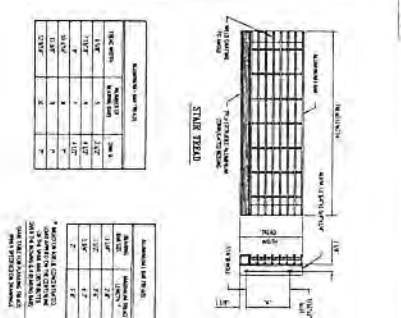
PLANING



GRATING DETAILS



STEEL TREAD



LET'S GRATING



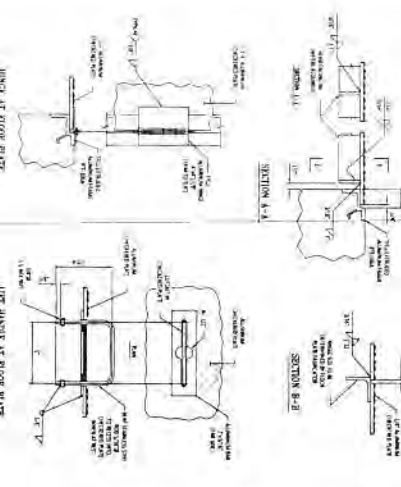
RECOMMENDATIONS FOR GRATING, PLANING, TREADS & FLOOR PLATES

1. Grating shall be fabricated to meet or exceed the following minimum requirements:
 - a. Grating shall be fabricated from a minimum of 1/2" thick material.
 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
 - d. Grating shall be fabricated from a minimum of 1/2" thick material.
2. Grating shall be fabricated to meet or exceed the following minimum requirements:
 - a. Grating shall be fabricated from a minimum of 1/2" thick material.
 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
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3. Grating shall be fabricated to meet or exceed the following minimum requirements:
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 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
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4. Grating shall be fabricated to meet or exceed the following minimum requirements:
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 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
 - d. Grating shall be fabricated from a minimum of 1/2" thick material.
5. Grating shall be fabricated to meet or exceed the following minimum requirements:
 - a. Grating shall be fabricated from a minimum of 1/2" thick material.
 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
 - d. Grating shall be fabricated from a minimum of 1/2" thick material.
6. Grating shall be fabricated to meet or exceed the following minimum requirements:
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 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
 - d. Grating shall be fabricated from a minimum of 1/2" thick material.
7. Grating shall be fabricated to meet or exceed the following minimum requirements:
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 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
 - d. Grating shall be fabricated from a minimum of 1/2" thick material.
8. Grating shall be fabricated to meet or exceed the following minimum requirements:
 - a. Grating shall be fabricated from a minimum of 1/2" thick material.
 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
 - d. Grating shall be fabricated from a minimum of 1/2" thick material.
9. Grating shall be fabricated to meet or exceed the following minimum requirements:
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 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
 - d. Grating shall be fabricated from a minimum of 1/2" thick material.
10. Grating shall be fabricated to meet or exceed the following minimum requirements:
 - a. Grating shall be fabricated from a minimum of 1/2" thick material.
 - b. Grating shall be fabricated from a minimum of 1/2" thick material.
 - c. Grating shall be fabricated from a minimum of 1/2" thick material.
 - d. Grating shall be fabricated from a minimum of 1/2" thick material.

FLOOR PLATE



GRATING DETAILS



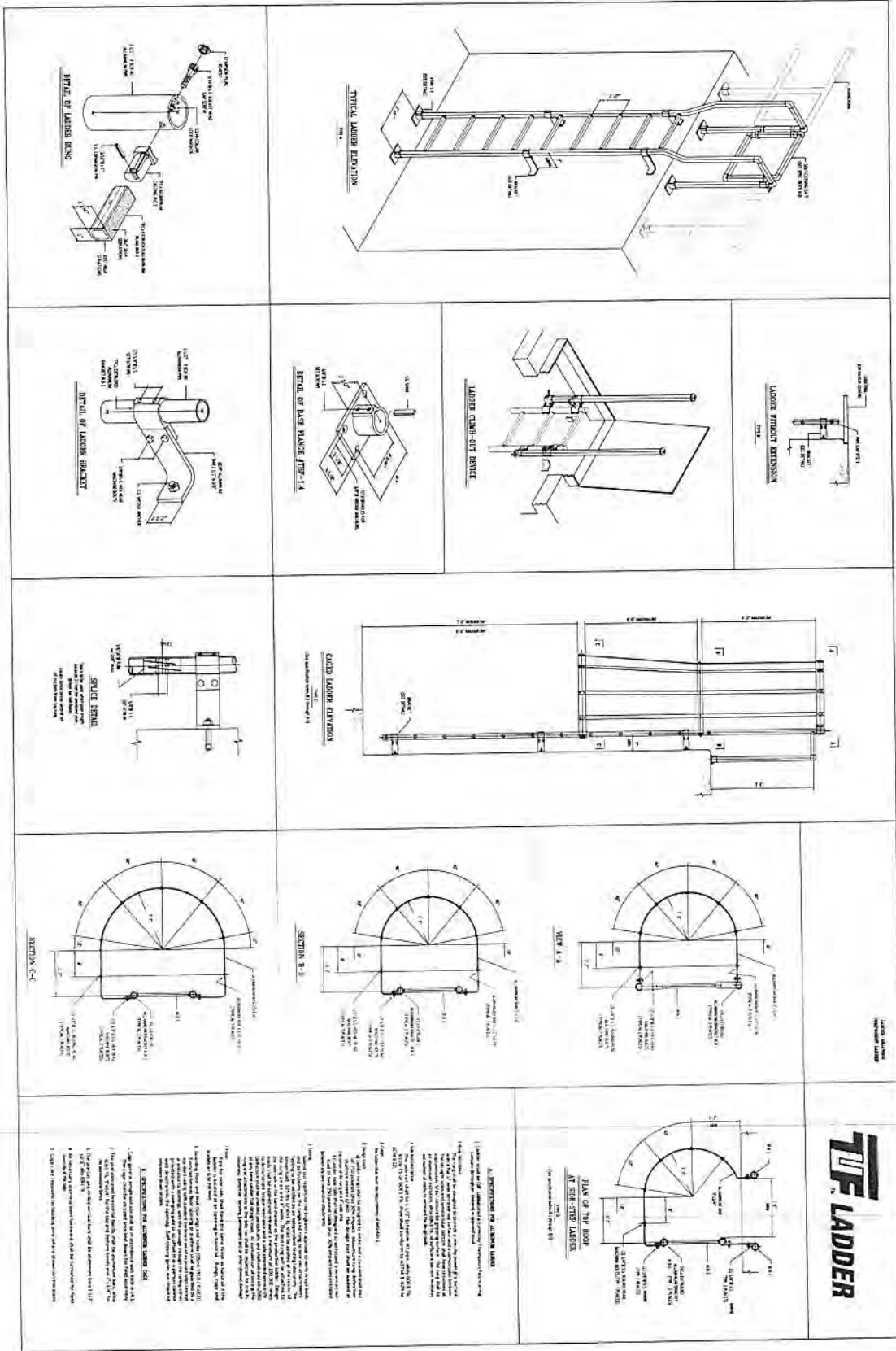
Description	Revision

GRATE DETAILS FOR KWRU WWTP EXPANSION

WEC THE WELER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
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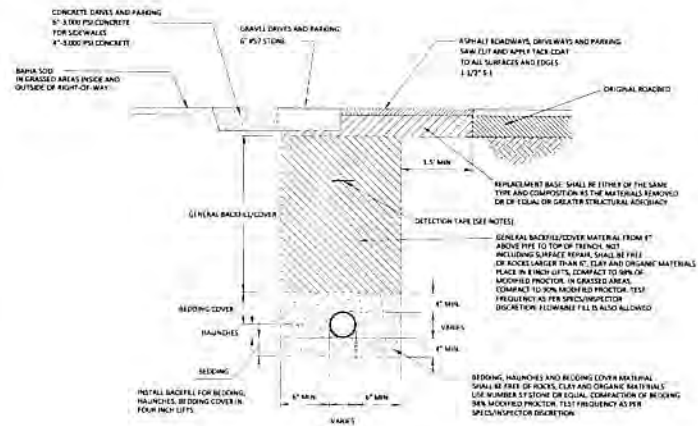
Approved by:	ENC	Design:	SMM
Scale:	AS SHOWN	Drawn:	MA, SJS
Job No:	14011007	Checked:	ENC
Date Issued:	AS SHOWN		

CAGED LADDER DETAILS



	<p>WEC THE WELLS ENGINEERING, Inc. 6805 OVERSEAS HWY MARATHON, FLORIDA 33050 (305) 289-4161 PH, (305) 289-4162 FAX</p>	<p>Approved By: <i>[Signature]</i> EJC Scale: AS SHOWN Job No: 14033.002 Date Issued: AS STAMPED</p>	<p>Design: SAH Drawn: LIS Check: EJC</p>
<p>CAGED LADDER DETAILS FOR KWRU WWTP EXPANSION</p>	<p>EB 46536</p>		

CONCRETE DRIVE AND PARKING
 8" 3,000 PSI CONCRETE
 FOR DRIVEWAYS
 4" 3,000 PSI CONCRETE



TYPICAL TRENCH SECTION

- NOTE 1: LIMIT OF TRENCH WIDTH FOR RESTORATION, OUTSIDE THESE LIMITS SHALL BE RESTORED AT CONTRACTOR'S EXPENSE
2. 6" WIDE DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED DIRECTLY ON THE CENTERLINE OF MAIN 1" BELOW THE SURFACE. TAPE TO BE MARKED ACCORDINGLY.

TYPE	PIPE SIZE									
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	14	19	25	30	34	44	52	60	70	80
45° BEND	6	8	10	12	14	18	21	25	30	34
22-1/2° BEND	3	4	5	6	7	9	10	12	14	16
11-1/4° BEND	1	2	3	4	5	6	7	8	9	10
PLUG OR BRANCH OF TEE	30	40	52	63	72	93	111	130	155	178
VALVE	15	20	25	32	36	47	56	65	78	89

PIPE RESTRAINT TABLE

- NOTES:
- FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 - INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
 - WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
 - ALL LINE VALVES AND THROUGH RUN OF TEES SHALL BE RESTRAINED.
 - FOR PIPE ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUE BY A FACTOR OF 1.25.

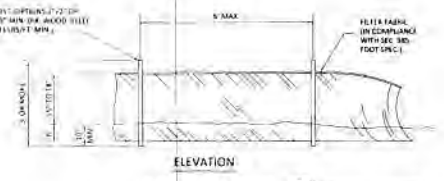
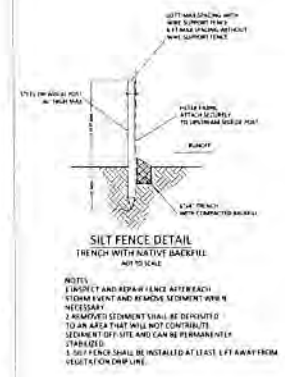
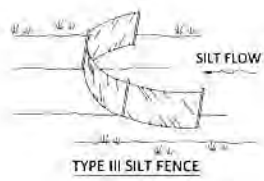
EROSION CONTROL MAINTENANCE SCHEDULE

THE CONTRACTOR SHALL INSTALL SILT FENCE, STAKED HAY BALES, AND OTHER EROSION CONTROL DEVICES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. THESE INSTALLATIONS AS SHOWN ON THE DRAWINGS SHALL BE CONSIDERED THE MINIMUM EROSION/SILTATION PROTECTION REQUIRED FOR THE SITE. IN ADDITION THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE MAY DEEM IT NECESSARY TO INSTALL PROTECTIVE FACILITIES ELSEWHERE ON THE SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION PROTECTION FACILITIES THROUGH COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM DAILY INSPECTIONS OF THE FACILITIES TO ENSURE THAT THE EROSION PROTECTION FACILITIES ARE MAINTAINING THEIR PROTECTION FUNCTIONS AND INTEGRITY.

IN ADDITION TO THE INSTALLATION OF EROSION PROTECTION FACILITIES, THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE MAY DEEM IT NECESSARY, UPON INSPECTION OF THE SITE, THAT TURBIDITY MONITORING BE PERFORMED BY THE CONTRACTOR IF GREATER THAN 10 NTU'S ABOVE BACKGROUND LEVELS ARE DETECTED. THE MONITORING SHALL BE PERFORMED DAILY IF BACKGROUND TURBIDITY LEVELS REACH 25-29 NTU'S. FOR BACKGROUND TURBIDITY LEVELS LESS THAN 29 NTU'S, TURBIDITY MONITORING SHALL BE PERFORMED WEEKLY. IF BACKGROUND TURBIDITY LEVELS ARE GREATER THAN 29 NTU'S, ALL CONSTRUCTION ACTIVITIES SHALL STOP AND THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION PROTECTION NECESSARY TO RETURN LEVELS TO 29 NTU'S OR LESS. CONSTRUCTION ACTIVITIES SHALL BEGIN AGAIN ONLY UPON APPROVAL BY THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE.

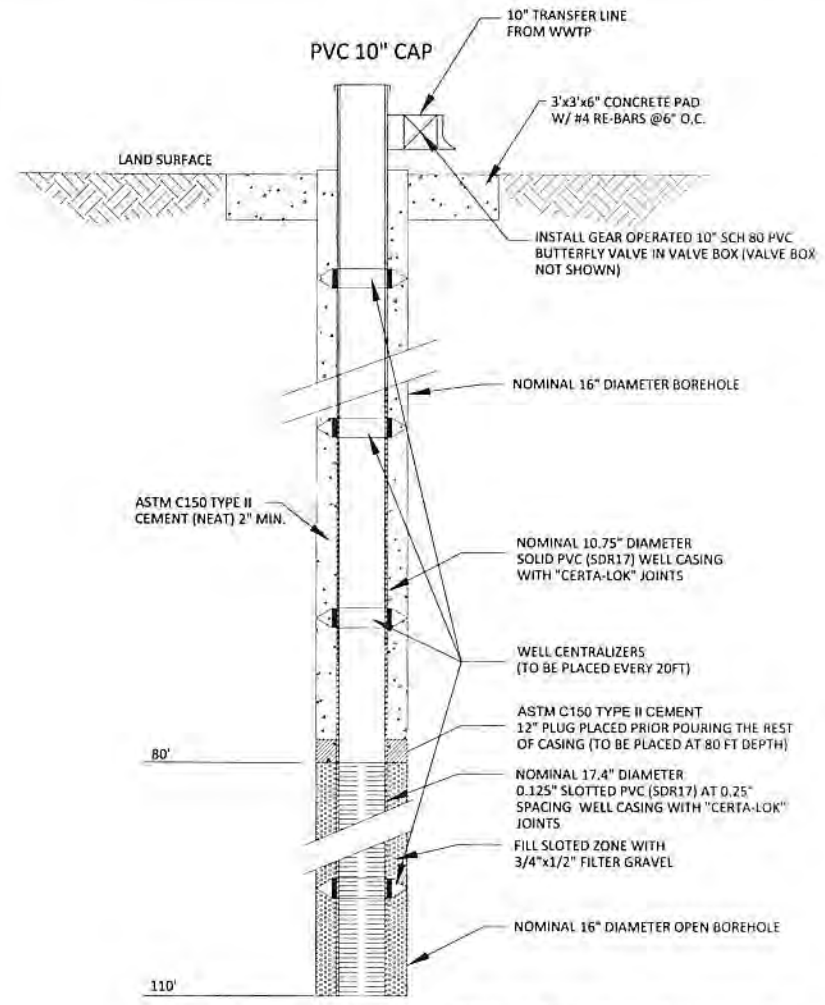
ALL EROSION PROTECTION FACILITIES SHALL BE REMOVED AFTER CONSTRUCTION COMPLETION, AND WHEN A VEGETATIVE COVER HAS BEEN WELL ESTABLISHED OVER THE CONSTRUCTED AREAS. PER THE PLANS, THE CONTRACTOR SHALL REMOVE PROTECTION FACILITIES ONLY UPON APPROVAL BY THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE.



WEC THE WATER ENGINEERS
 C/O B. P. O. # 1111
 8825 WINTERGARDEN HWY
 MANASSAS, FLORIDA 32000
 (800) 289-4461 PH. (352) 269-4102 FAX

GENERAL DETAILS FOR KWRW WWTP EXPANSION

SHEET NO. 0-37



NOTES: 1. COORDINATE PIPE JOINTS COMPATIBILITY WITH WELL CASING MANUFACTURER. USE "CertainTeed" WELL CASING OR ENGINEER APPROVED EQUAL.

10" CLASS V INJECTION WELL

SCALE: NTS

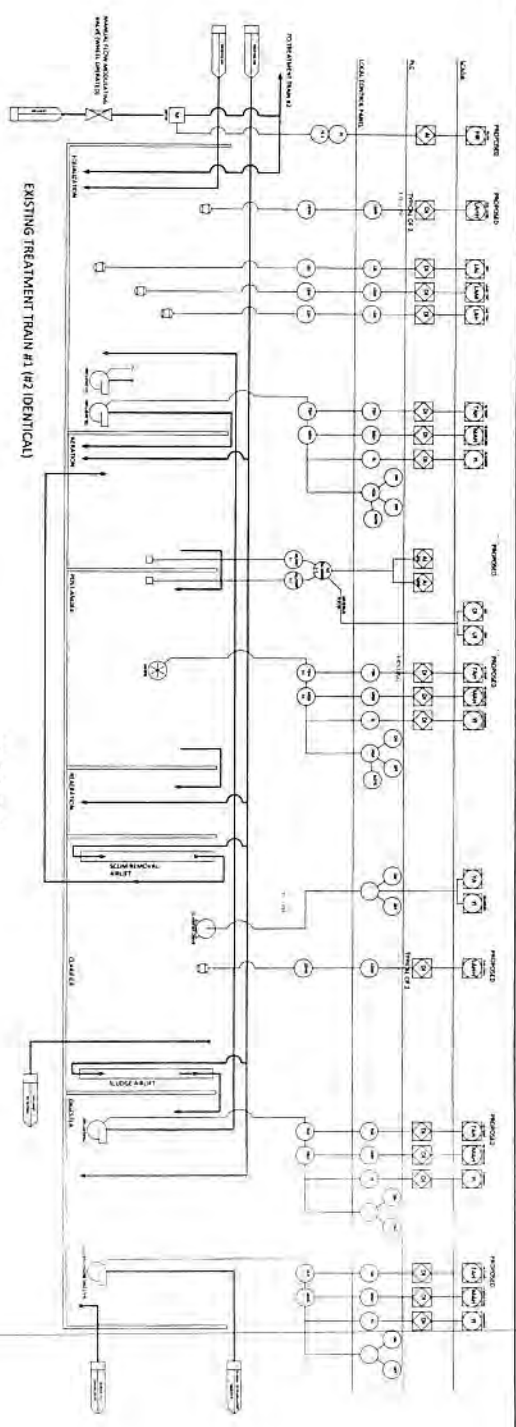
Approved By:	INC	Design:	DAM
Drawn:	AS/SH/WH	Drawn:	MA, US
Proj No:	34113.001	Checked:	INC
Date Issued:	AS/10/06		

WEC THE WELLS ENGINEERING
 CONSULTANTS
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 MAINE, USA
 (850) 768-4365 FAX (850) 288-4369 FAX

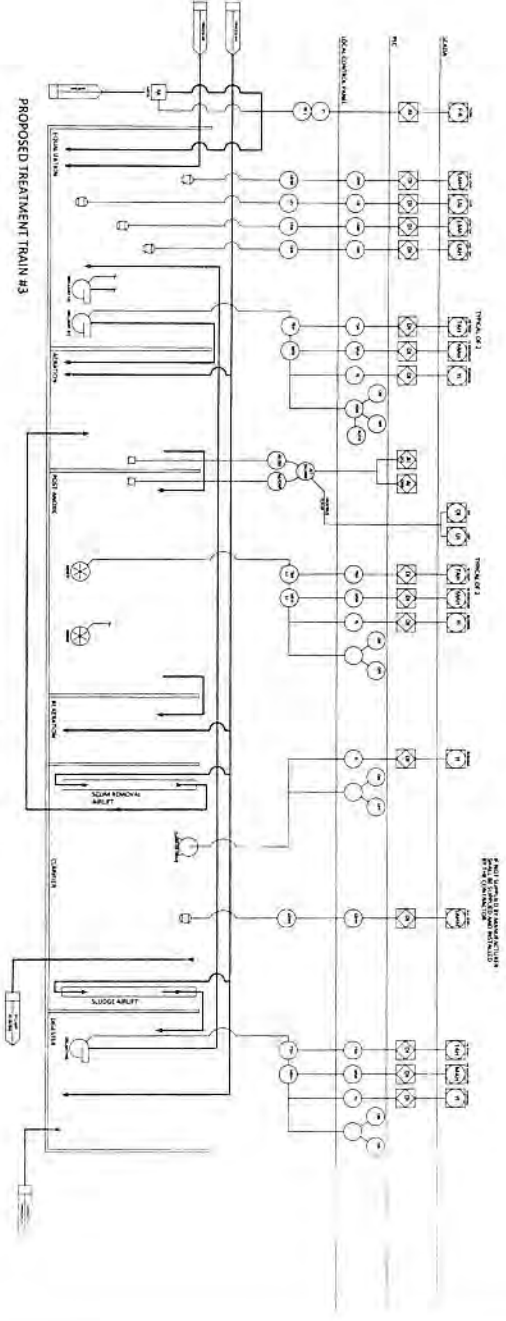
INJECTION WELL DETAIL
 FOR
 KWRU WWTP EXPANSION

Revisions	Description

[Professional Engineer Seal]
 [Signature]
 [Date]



P&ID 1-1



P&ID 1-1-2



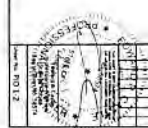
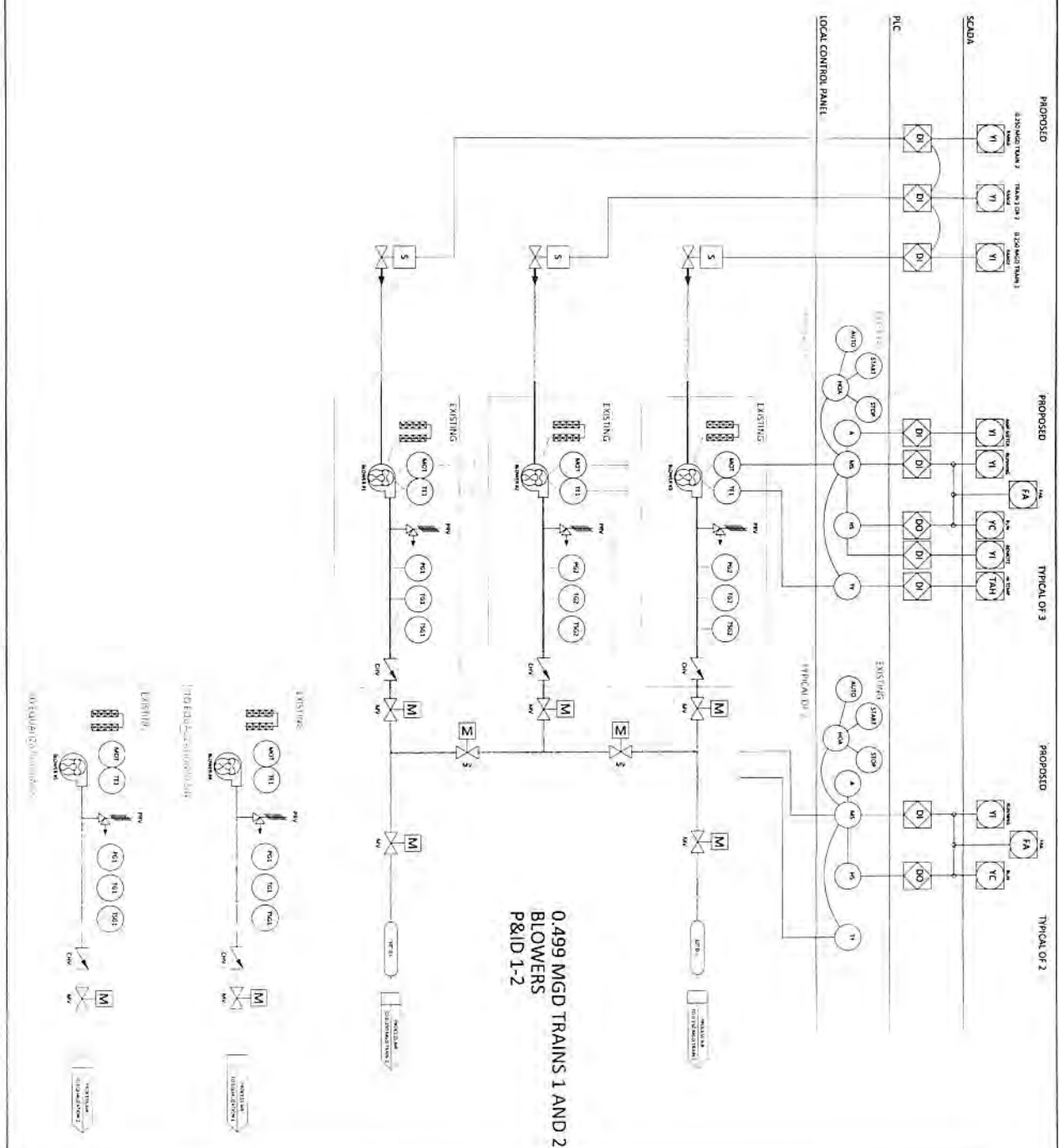
Description	Revisions

**TREATMENT TRAINS 1, 2 AND 3
 FOR
 KWRU WWTP EXPANSION**

WEC THE WELER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

Approved By	ERIC	Design	SAM
Scale	AS SHOWN	Drawn	SAM
Job No.	14031.002	Checked	ERIC
Date Issued	AS SHOWN		

18 05/14



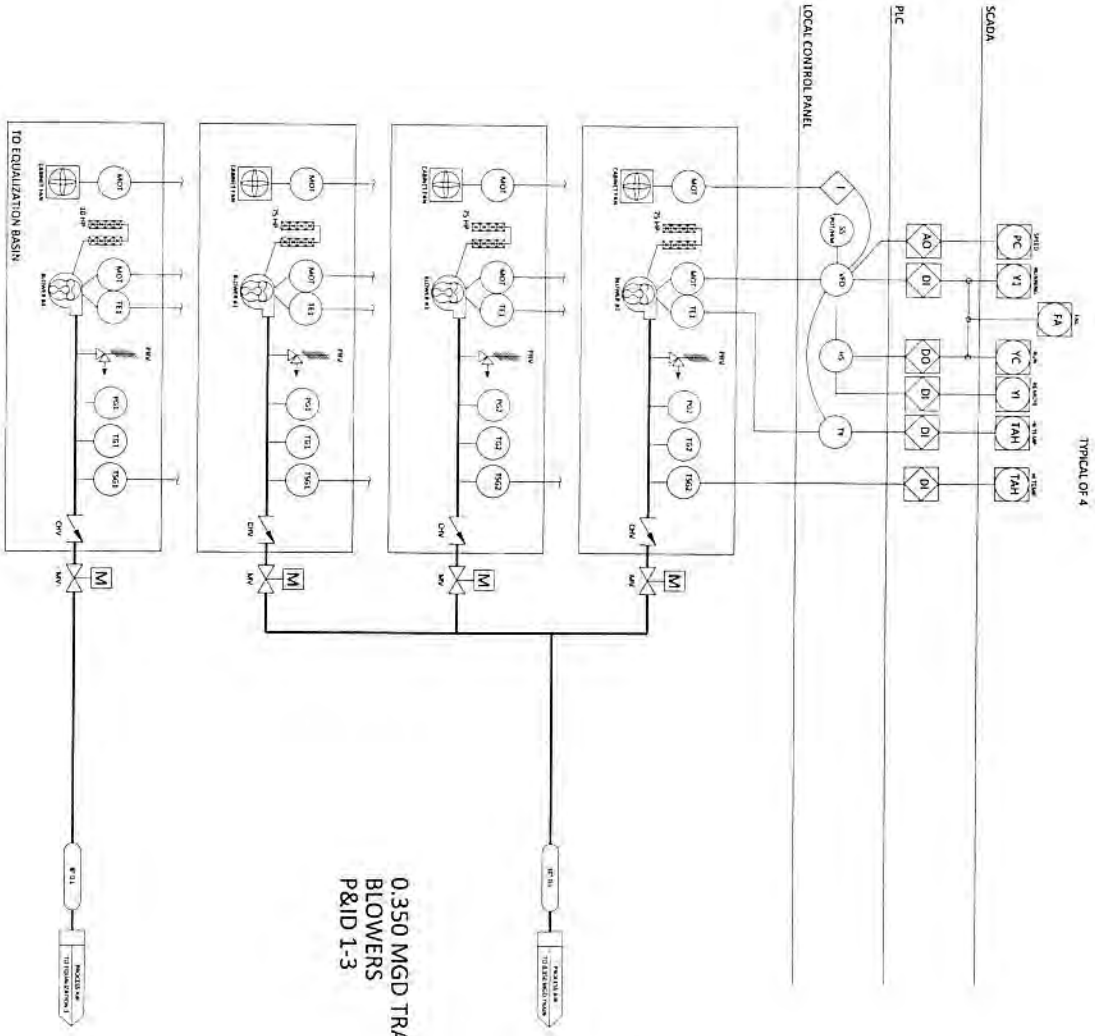
Description	Revisions

**0.499 MGD TRAINS 1 AND 2. AIR
 FOR
 KWRU WWTP EXPANSION**

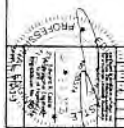
WEC THE WELLER ENGINEERING CORPORATION
 6825 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

Approved by:	EAC	Design:	SAM
Scale:	AS SHOWN	Drawn:	SAM
Job No.:	14011502	Checked:	TRC
Date Issued:	AS STAMPED		

TR05656



0.350 MGD TRAIN 3
 BLOWERS
 P&ID 1-3



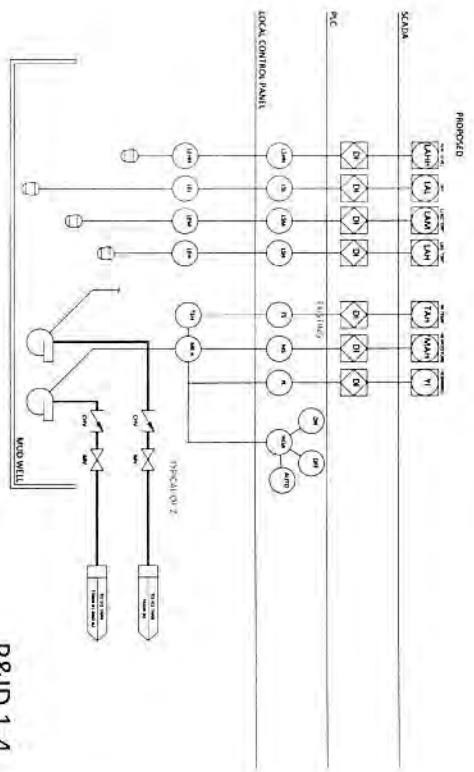
Description	Revisions

0.350 MGD TRAIN 3, AIR
 FOR
 KWRU WWTP EXPANSION

WEC THE WELER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

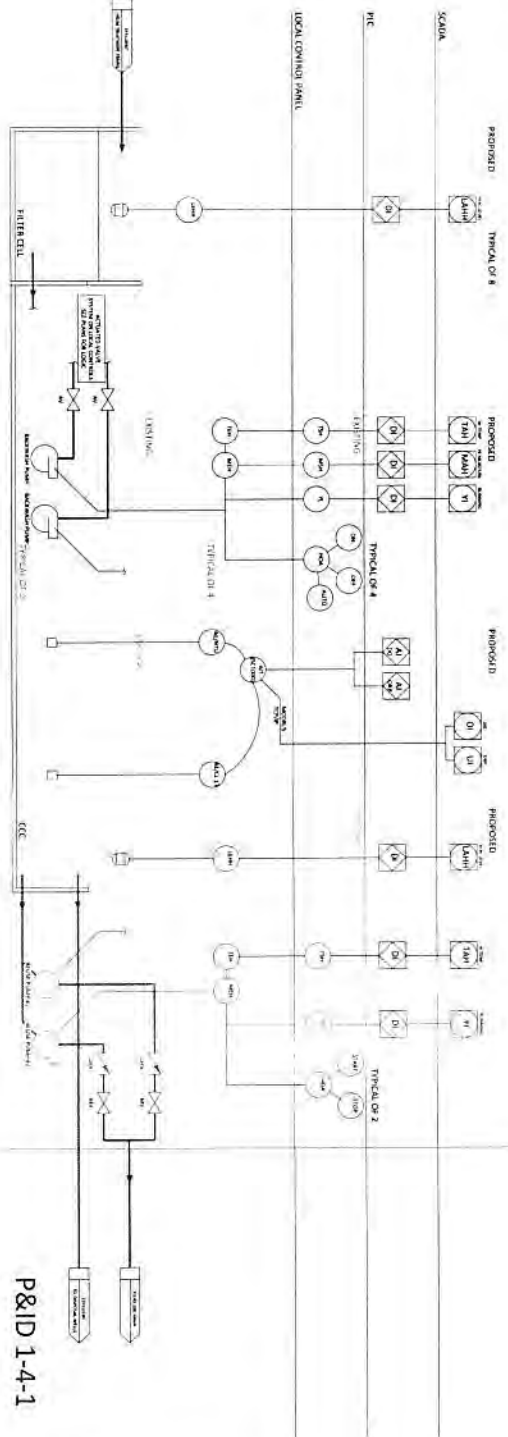
Approved By	ERIC	Design	SAM
Scale	AS SHOWN	Drawn	SAM
Job No	14019-002	Checked	ERIC
Date Issued	AS STAMPED		

MUD WELL



P&ID 1-4

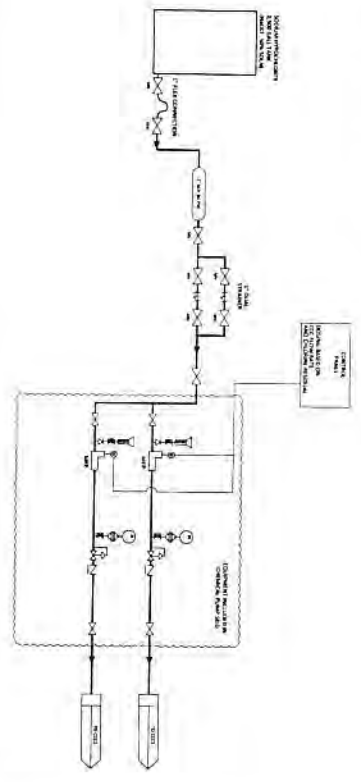
FILTER CELLS AND CCC



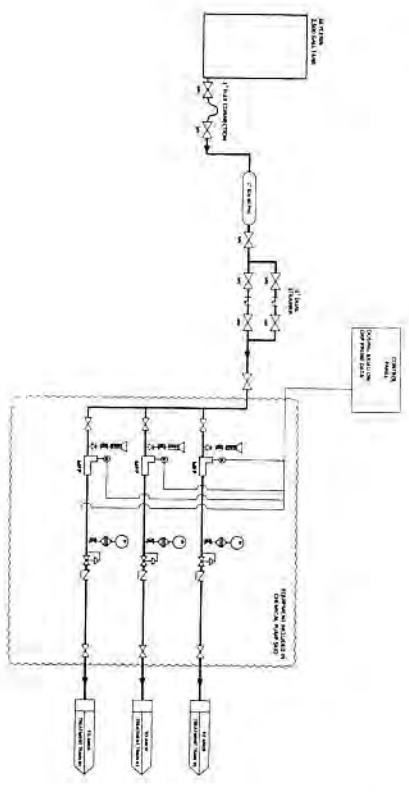
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	Description	Revisions																												
Approved By:	ERC	Design:	SAM																											
Scale:	AS SHOWN	Drawn:	SAM																											
Job No:	14071 OCT	Checked:	ERC																											
Date Issued:	AS STAMPED																													
			EB #6056																											

SODIUM HYPOCHLORITE

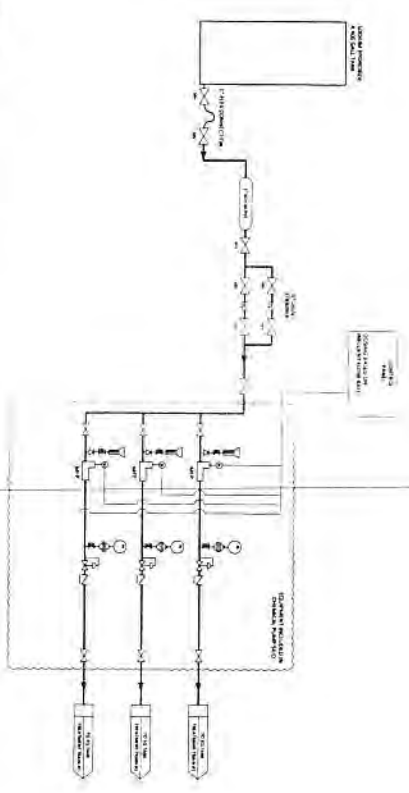


GLYCERIN

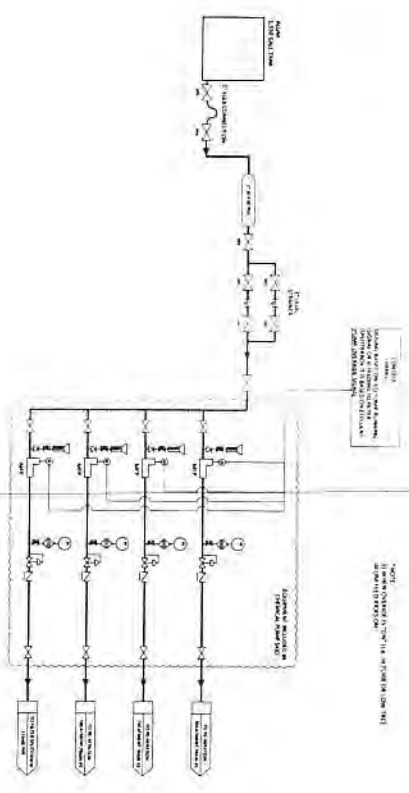


NOTE: PLANS ARE SCHEMATIC IN NATURE.
 FINAL SKID DESIGN SHALL BE BY KWRU.
 KWRU TO PROVIDE CONTRACTOR SKIDS
 FOR INSTALLATION

ALKALINITY



ALUM

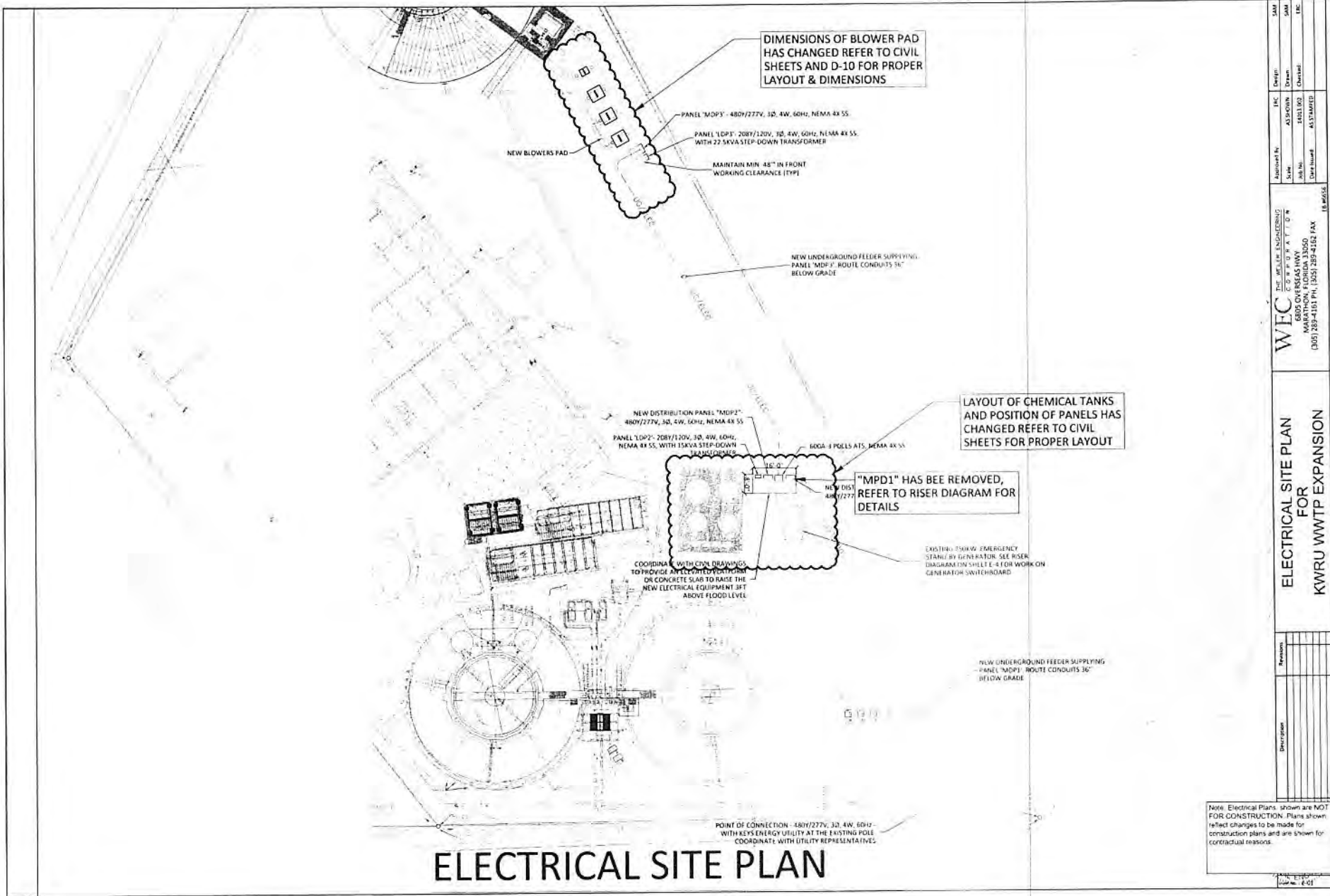


Description	Revisions

CHEMICAL FEED SYSTEMS
 FOR
 KWRU WWTP EXPANSION

WEC THE W.E.L.P. ENGINEERING
 CORPORATION
 8805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

Approved By	FAC	Drawn	SAM
Scale	AS SHOWN	Checked	JAM
Job No.	14012-012	Checked	ENC
Date issued	AS STAMPED		



ELECTRICAL SITE PLAN

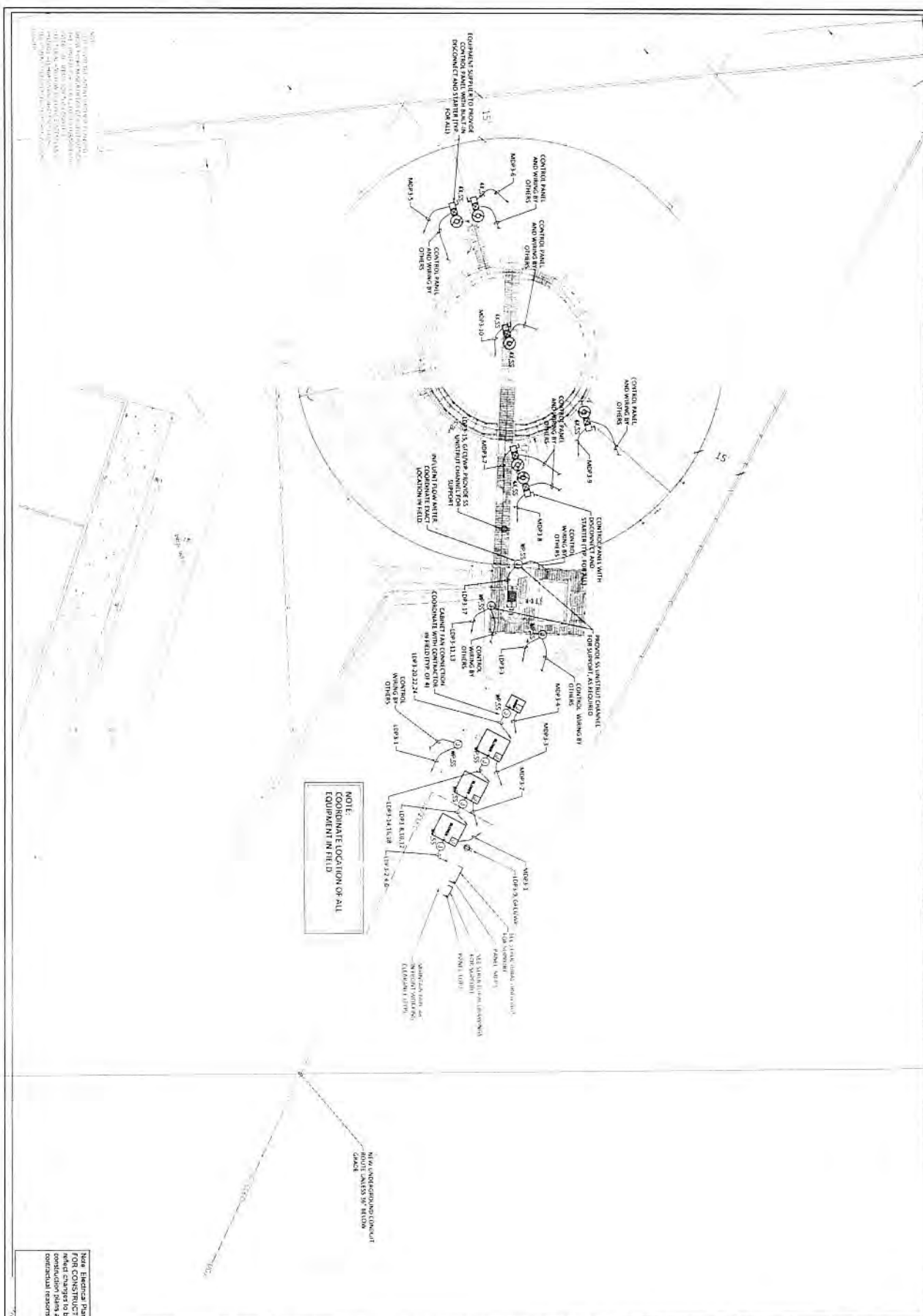
SAW	DATE
SAW	DATE
DATE	DATE
DATE	DATE

WEC
 THE WFLA GROUP
 6000 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (309) 289-4181 PH, (309) 289-4182 FAX

ELECTRICAL SITE PLAN FOR KWRU WWTP EXPANSION

Revision	Description

Note: Electrical Plans shown are NOT FOR CONSTRUCTION. Plans shown reflect changes to be made for construction plans and are shown for contractual reasons.



NOTE:
 1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B RECOMMENDATIONS FOR SAFE OPERATION AND MAINTENANCE OF ELECTRICAL EQUIPMENT.
 2. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 3. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE STATE AND LOCAL ELECTRICAL CODES.

NOTE:
 COORDINATE LOCATION OF ALL EQUIPMENT IN FIELD.

NOTE:
 1. ALL UNDERGROUND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

NOTE:
 1. ALL ELECTRICAL PANELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 2. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE STATE AND LOCAL ELECTRICAL CODES.

Description	Revisions

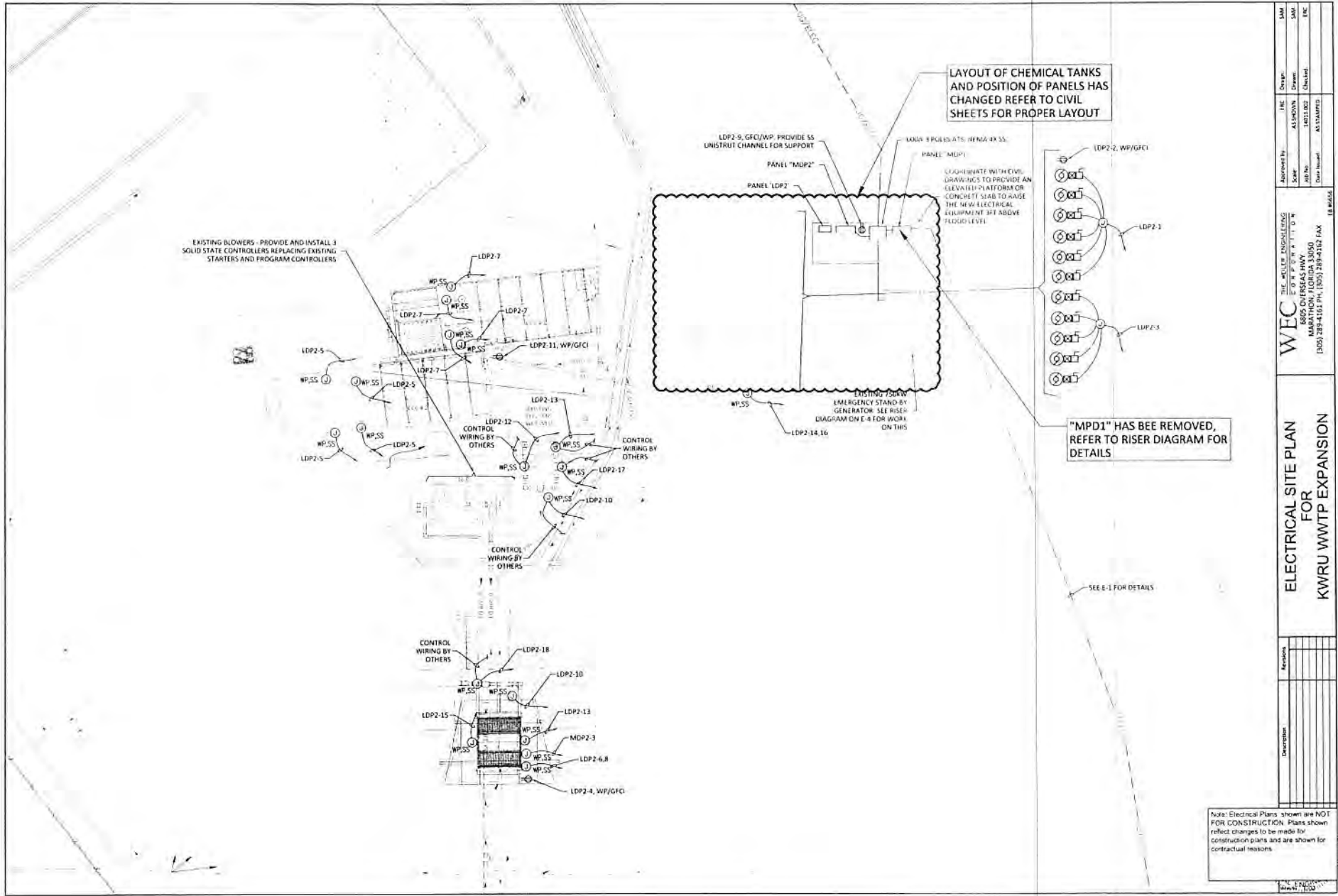
ELECTRICAL PROPOSED PLANT FOR KWRU WWTP EXPANSION

WEC THE WELER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4151 PH, (305) 289-4162 FAX

Approved By:	ERC	Drawn:	SAM
Scale:	AS SHOWN	Drawn:	SAM
Job No:	14611002	Checked:	ERC
Date Issued:	AS STAMPED		

E:\B\6556

11/15/2017 10:00 AM
 11/15/2017 10:00 AM
 11/15/2017 10:00 AM



DATE	BY	CHKD
11/15/2017	11/15/2017	11/15/2017
11/15/2017	11/15/2017	11/15/2017

APPROVED BY: [Signature]
 DATE: 11/15/2017
 PROJECT: KWRU WWTP EXPANSION
 SHEET NO: E-1
 DRAWING NO: 18-000000-001

WEC THE WALTER ENGINEERING
 8805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (352) 289-4161 FAX (352) 289-4162 FAX

REVISIONS	DATE	BY	CHKD

Note: Electrical Plans shown are NOT FOR CONSTRUCTION. Plans shown reflect changes to be made for construction plans and are shown for contractual reasons.

DISTRIBUTION PANEL
 PANEL 304
 TYPE: LINE SCHEDULE ELECTRIC
 VOLTAGE: 480V AC

LOADING DATA

NO.	DESCRIPTION	TYPE	FEEDER	TERMINAL	WIRE SIZE	TERMINAL
1	LOADING	20	100	00	60	100
2	LOADING	15	100	00	60	100
3	LOADING	10	100	00	60	100
4	LOADING	5	100	00	60	100
5	LOADING	3	100	00	60	100
6	LOADING	2	100	00	60	100
7	LOADING	1	100	00	60	100

1. COMPASS TO CORRELATE WITH ALL OTHER DRAWINGS
 2. LOADS TO BE SUPPLIED BY THIS PANEL
 3. SERVICE RATED PER SPS

DISTRIBUTION PANEL
 PANEL 305
 TYPE: LINE SCHEDULE ELECTRIC
 VOLTAGE: 480V AC

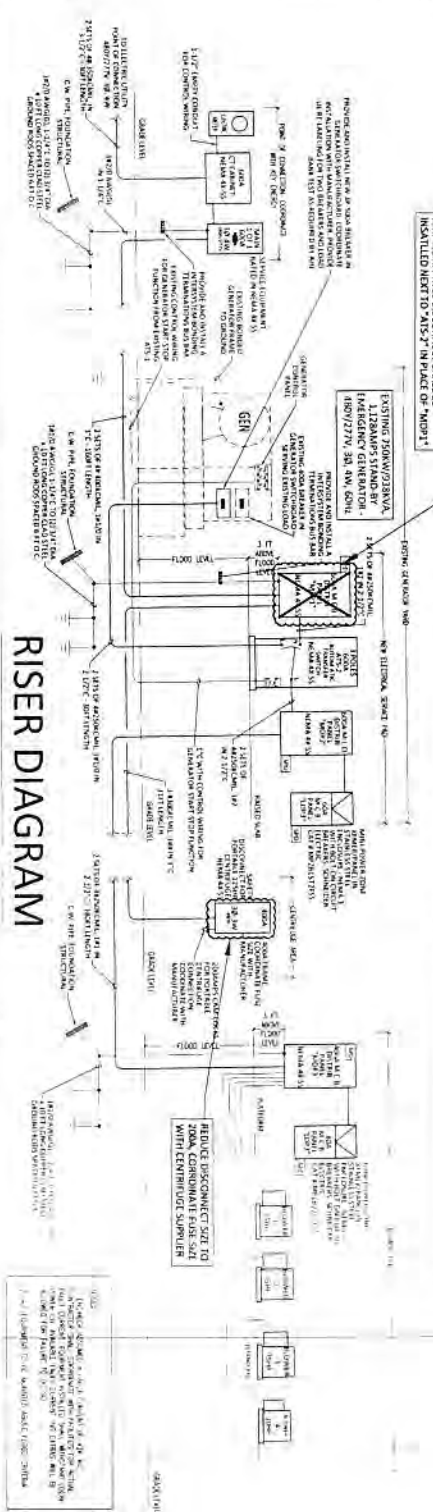
LOADING DATA

NO.	DESCRIPTION	TYPE	FEEDER	TERMINAL	WIRE SIZE	TERMINAL
1	LOADING	20	100	00	60	100
2	LOADING	15	100	00	60	100
3	LOADING	10	100	00	60	100
4	LOADING	5	100	00	60	100
5	LOADING	3	100	00	60	100
6	LOADING	2	100	00	60	100
7	LOADING	1	100	00	60	100

1. COMPASS TO CORRELATE WITH ALL OTHER DRAWINGS
 2. LOADS TO BE SUPPLIED BY THIS PANEL
 3. SERVICE RATED PER SPS

LOADING DATA

NO.	DESCRIPTION	TYPE	FEEDER	TERMINAL	WIRE SIZE	TERMINAL
1	LOADING	20	100	00	60	100
2	LOADING	15	100	00	60	100
3	LOADING	10	100	00	60	100
4	LOADING	5	100	00	60	100
5	LOADING	3	100	00	60	100
6	LOADING	2	100	00	60	100
7	LOADING	1	100	00	60	100



REVISIONS

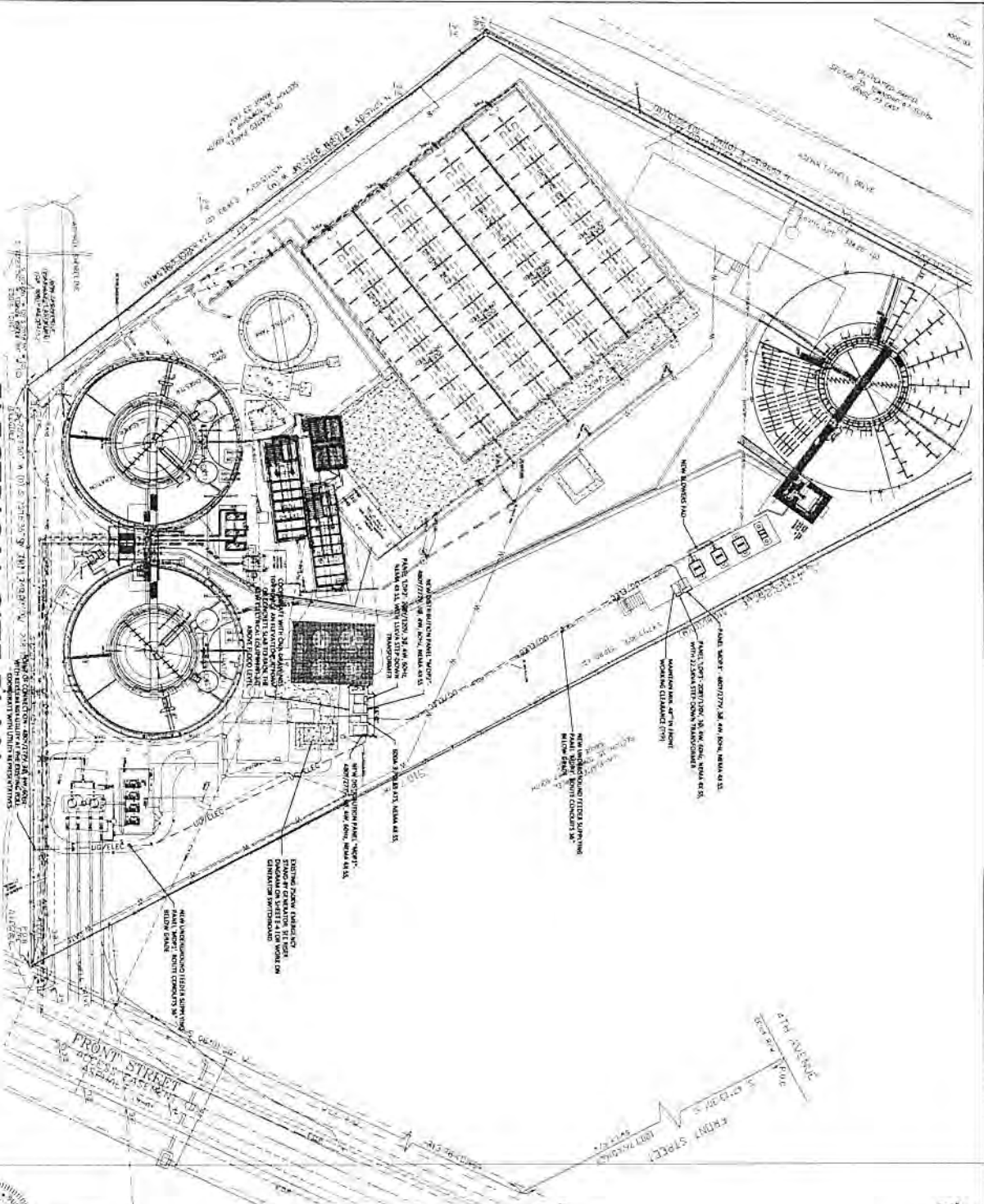
NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	10/15/14
2	ISSUED FOR CONSTRUCTION	10/15/14

RISER DIAGRAM FOR KWRU WWT EXPANSION

WEC THE WELLS ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

APPROVED BY: J. M. ...
SCALE: AS SHOWN
DATE: 10/15/14
STATUS: AS SHOWN

ELECTRICAL SITE PLAN



NOT FOR CONSTRUCTION FOR REVIEW ONLY

THIS DRAWING IS THE PROPERTY OF WEC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WEC.

DATE: 10/27/04
DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
SCALE: AS SHOWN

Notes: Electrical Plans shown herein are from the original set of documents signed and sealed by the electrical engineer. Changes to the original set of documents shall be indicated by a revision number and date. All changes shall be provided prior to construction.

TIGHT CONDUITS HAVE BEEN SIZED FOR A BRANCH CIRCUIT CONDUITS HAVE BEEN SIZED FOR A MINIMUM VOLTAGE DROP OF 3%.

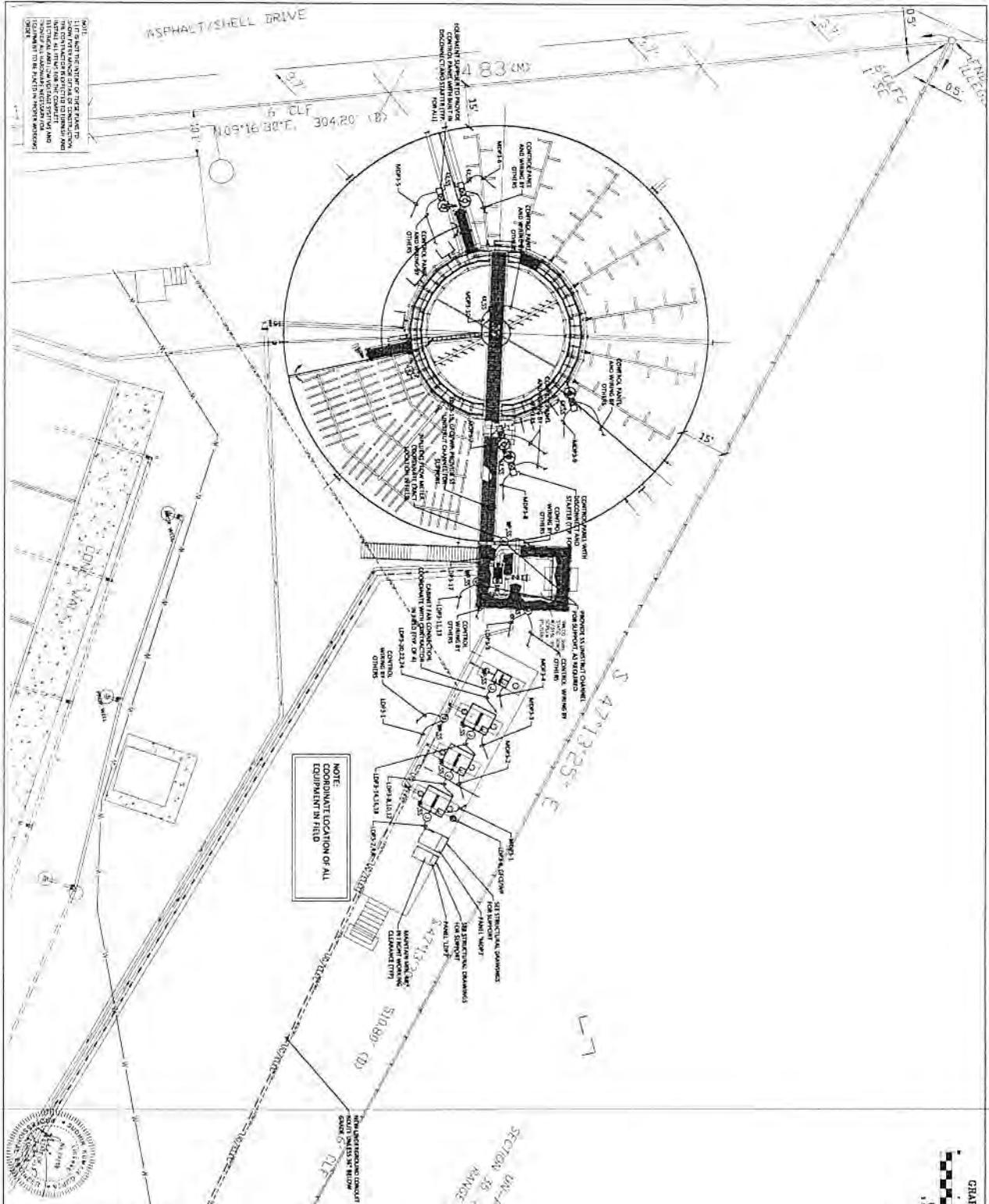
GRAPHIC SCALE

1" = 100'

ELECTRICAL SITE PLAN FOR KWRU WWTP EXPANSION

WEC THE WELLS ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

Approved By:	SS	Design:	DL
Scale:	AS SHOWN	Drawn:	DL
Job No.:	14013.001	Checked:	SS
Date Issued:	AS STAMPED		



NOTE: Electrical Plans shown here are from the original bid documents signed and sealed by the electrical contractor. Confirmed site showing layout is provided here for construction.

Signature Required
 Gary Lee, Director
 Date: 08/11/10
 Title: Director
 Firm: WEC of Construction Corp.

NOT FOR CONSTRUCTION FOR REVIEW ONLY

Description	Revision

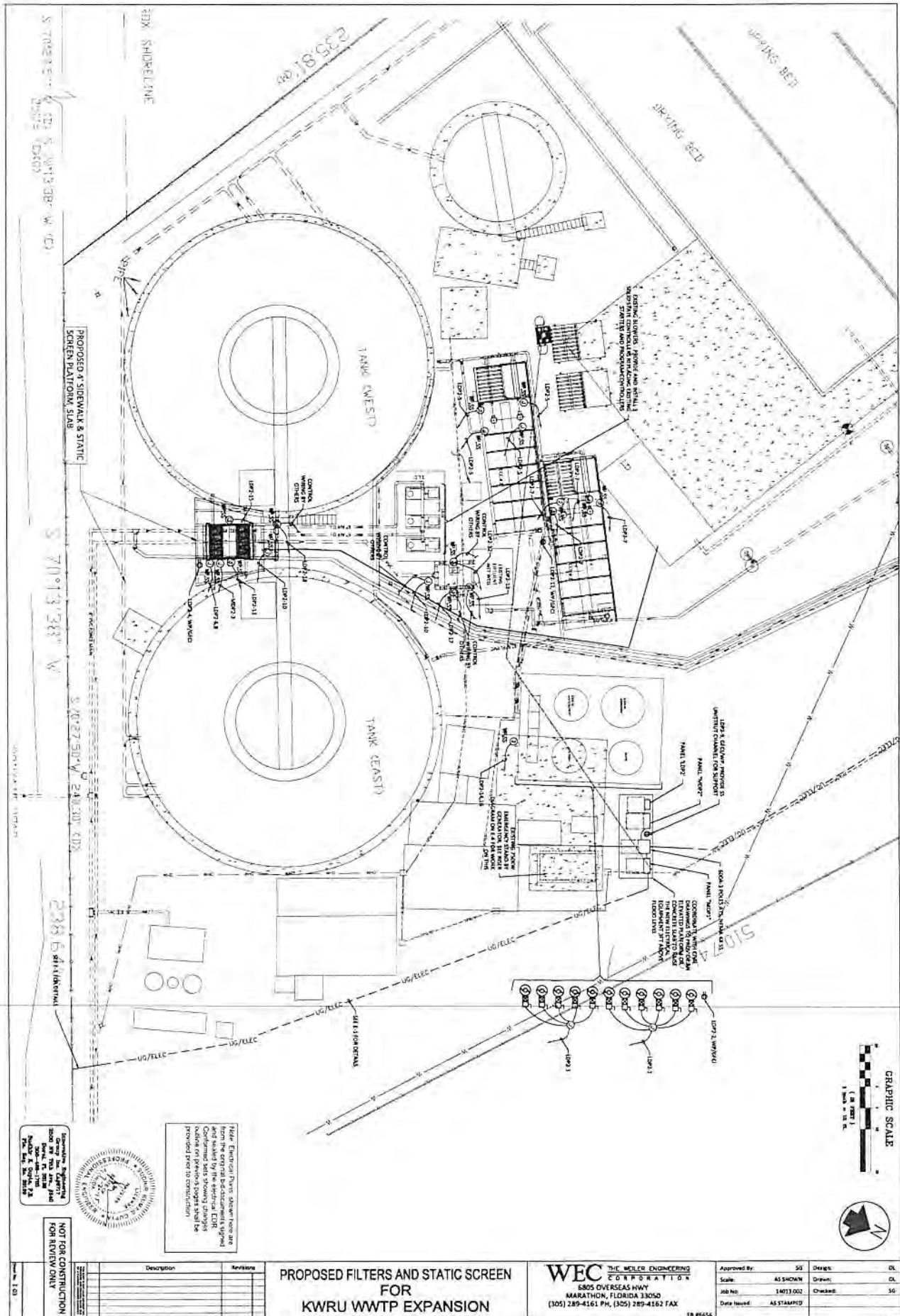
PROPOSED DIGESTER AND BLOWER FOR KWRU WWTP EXPANSION

UN-RECORDED
 RANGE 23 EAST

WEC THE WELLS ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

Approved by:	SS	Design:	DL
Scale:	AS SHOWN	Drawn:	DL
Job No:	14023.002	Checked:	SS
Date issued:	AS STAMPED		





Professional Engineer
 State of Florida, No. 12345
 Date: 10/15/14



Note: Electrical Plans shown here are from the original documents. Signed and sealed by the Engineer. Confirmed data shown on drawings outside of printed sheets shall be provided prior to construction.

NOT FOR CONSTRUCTION FOR REVIEW ONLY

PROPOSED FILTERS AND STATIC SCREEN FOR KWRU WWTP EXPANSION

WEC THE WEBER ENGINEERING CORPORATION
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

Approved By:	SS	Drawn:	DL
Scale:	AS SHOWN	Depth:	DL
Job No:	14073-002	Checked:	SS
Date Issued:	AS SHOWN		



DISTRIBUTION PANEL:

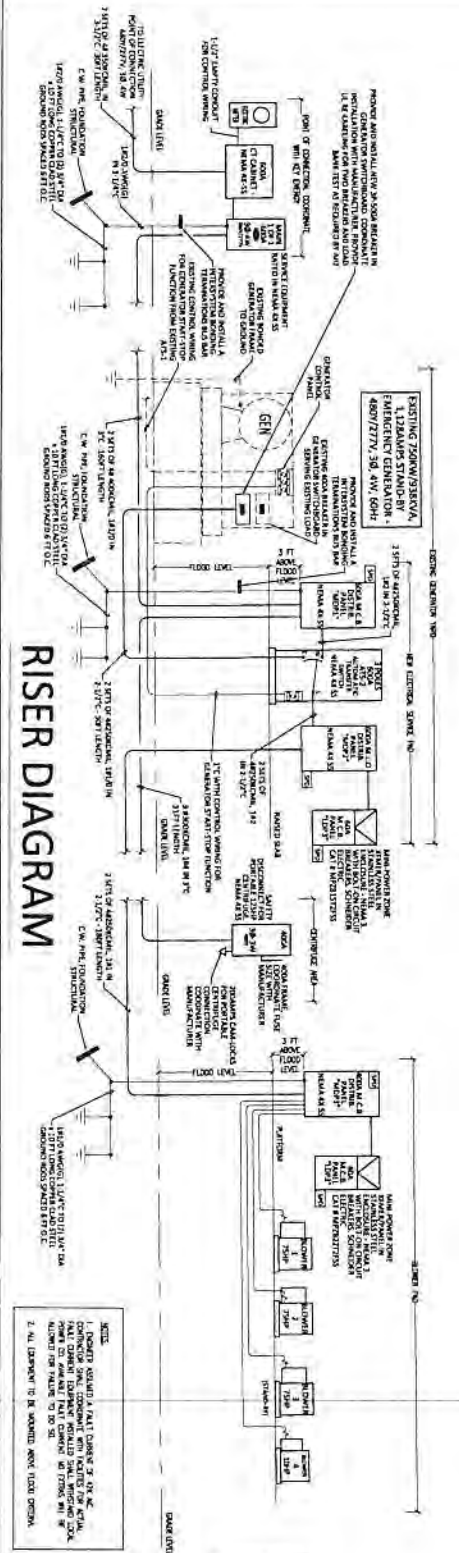
TYPE LINE	SCHEDULER ELECTRIC	WMP	4200 AC	WATER USE A
NO. OF CIRCUITS	1	1	1	1
NO. OF BREAKERS	1	1	1	1
NO. OF MCB'S	1	1	1	1
NO. OF MCCB'S	1	1	1	1
NO. OF MINIBREAKERS	1	1	1	1
NO. OF CIRCUIT BREAKERS	1	1	1	1
NO. OF TRANSFORMERS	1	1	1	1
NO. OF PANELS	1	1	1	1
NO. OF MAINS	1	1	1	1
NO. OF BUSBARS	1	1	1	1
NO. OF TERMINALS	1	1	1	1
NO. OF WIRING	1	1	1	1
NO. OF CONDUITS	1	1	1	1
NO. OF TRAYS	1	1	1	1
NO. OF CABLES	1	1	1	1
NO. OF TUBES	1	1	1	1
NO. OF RINGS	1	1	1	1
NO. OF OTHERS	1	1	1	1
NO. OF TOTALS	1	1	1	1

DISTRIBUTION PANEL:

TYPE LINE	SCHEDULER ELECTRIC	WMP	4200 AC	WATER USE A
NO. OF CIRCUITS	1	1	1	1
NO. OF BREAKERS	1	1	1	1
NO. OF MCB'S	1	1	1	1
NO. OF MCCB'S	1	1	1	1
NO. OF MINIBREAKERS	1	1	1	1
NO. OF CIRCUIT BREAKERS	1	1	1	1
NO. OF TRANSFORMERS	1	1	1	1
NO. OF PANELS	1	1	1	1
NO. OF MAINS	1	1	1	1
NO. OF BUSBARS	1	1	1	1
NO. OF TERMINALS	1	1	1	1
NO. OF WIRING	1	1	1	1
NO. OF CONDUITS	1	1	1	1
NO. OF TRAYS	1	1	1	1
NO. OF CABLES	1	1	1	1
NO. OF TUBES	1	1	1	1
NO. OF RINGS	1	1	1	1
NO. OF OTHERS	1	1	1	1
NO. OF TOTALS	1	1	1	1

LOAD SCHEDULE

NO.	LOAD DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	TOTAL
1	
...	
27	
TOTAL		2.0	1.8	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	



RISER DIAGRAM

NOT FOR CONSTRUCTION FOR REVIEW ONLY

Make Electrical Plans shown here are from the original bid documents signed and sealed by the engineer. EOR is not responsible for any errors or omissions on previous plans shall be provided prior to construction.

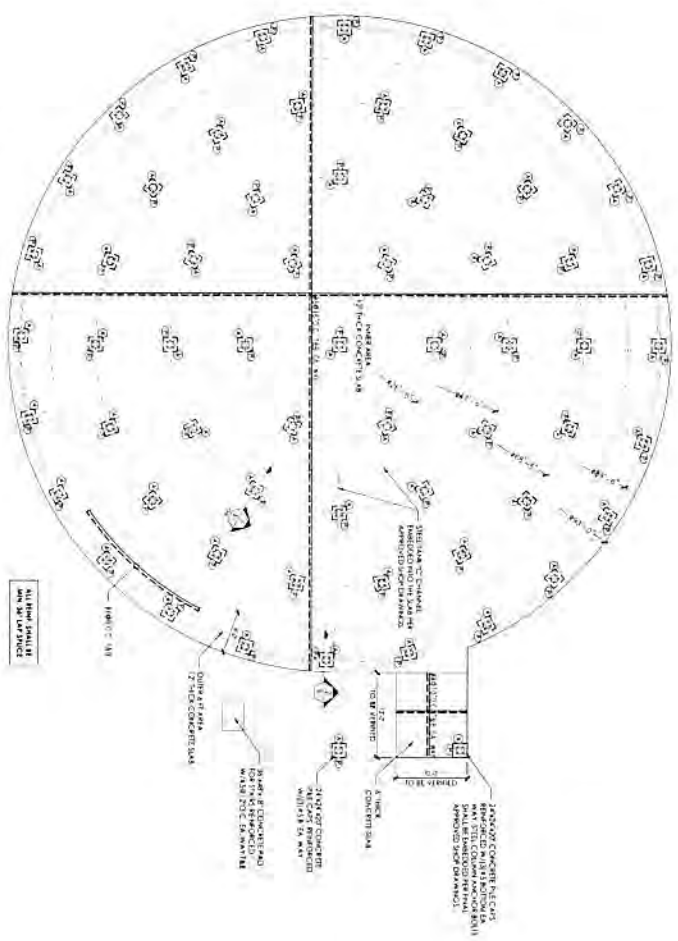
1. LOADS SHOWN IN THIS DIAGRAM ARE TO BE INSTALLED IN THE MANNER SHOWN UNLESS OTHERWISE NOTED.

2. ALL EQUIPMENT TO BE INSTALLED MUST BE APPROVED BY THE CITY OF MARATHON.

PROPOSED DIGESTER AND BLOWER FOR KWRU WWTP EXPANSION

WEC THE WEC GROUP ENGINEERS
 6805 OVERSEAS HWY
 MARATHON, FLORIDA 33050
 (305) 289-4161 PH, (305) 289-4162 FAX

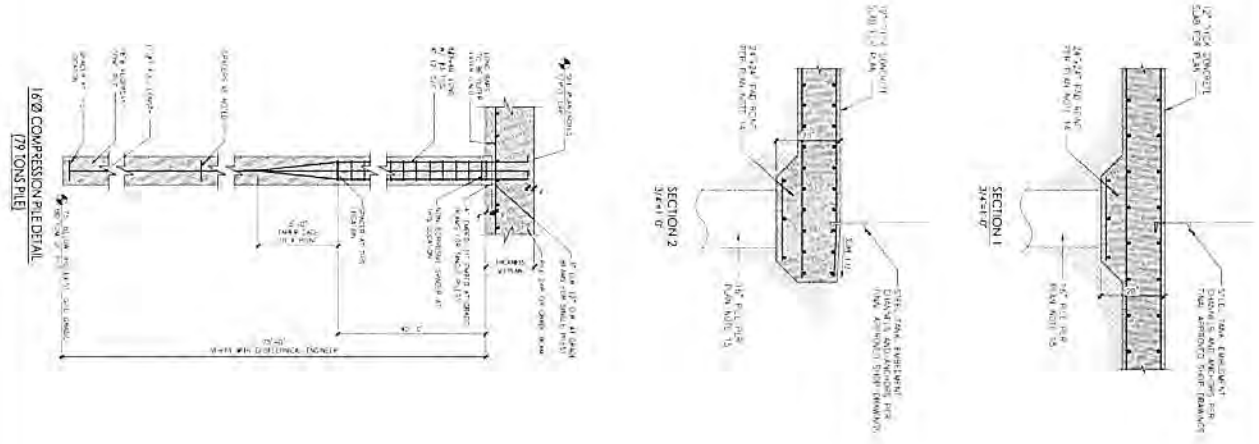
Approved By:	SG	Design:	OK
Scale:	AS SHOWN	Drawn:	OK
Job No:	14033.002	Checked:	OK
Date Issued:	AS SHOWN		



FOUNDATION FLOOR PLAN



- FOUNDATION LEVEL PLAN NOTES**
1. INSTALLATION OF CONCRETE SHALL BE IN ACCORDANCE WITH THE LOCAL CODES AND THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS.
 2. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 3. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 4. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 5. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 6. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 7. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 8. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 9. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 10. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 11. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 12. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 13. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 14. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.
 15. ALL CONCRETE SHALL BE PLACED IN ONE RISE UNLESS OTHERWISE NOTED.



<p>INTERNATIONAL STRUCTURES, INC. 1507-30-01 1507-30-01 1507-30-01 1507-30-01</p>	DRAWING TITLE FOUNDATION FLOOR PLAN
	DATE: 15/17 DRAWN BY: S/J/C CHECKED BY: M/W
PROJECT TITLE TANKS FOR KRYNBERG PAPER MILL 6530 BROAD STREET STOCKLAND, H. 3300	REVISIONS
PROJECT NO. 1507-30 SHEET NO. 138 OF 171	SCALE: AS SHOWN

S-1

SECTION 00530

NOTICE TO PROCEED FORM

TO: WHARTON - SMITH, Inc.
125 W. INDIANTOWN RD. SUITE 201
JUPITER, FL 33458

DATE: APRIL 8, 2016

PROJECT: KWRU WWTP Upgrades

You are hereby notified to commence WORK in accordance with the Agreement dated March 28, 2016. This Notice authorizes the CONTRACTOR to commence construction, and, in accordance with the Agreement, all work shall be substantially complete within 335 ³⁶⁵ calendar days of the date of this Notice to Proceed. Therefore, the date of substantial completion is APRIL 8, 2017. The date of Final completion is MAY 8, 2017 ²⁰ ⁰⁸


ISSUED BY: KW RESORT UTILITIES, CORP.
(Name of OWNER)


By (Signature)

CHRISTOPHER A. JOHNSON, PRESIDENT
(Printed Name and Title)

ACCEPTANCE OF NOTICE

Receipt and acceptance of the above NOTICE TO PROCEED is hereby acknowledged by _____
this 15 day of APRIL, 2016.

By 
GREGORY WILLIAMS, DIVISION MANAGER
Printed Name and Title

END OF SECTION