

Department of Public Works Imperial County, California
Public Works works for the Public



REQUEST FOR PROPOSALS

GATEWAY WASTEWATER TREATMENT FACILITY CONSULTING SERVICES FOR PRELIMINARY ENGINEERING REPORT

COUNTY PROJECT NO. 6970GTWWTP-RFP

Requested by:

John A. Gay, PE
Director of Public Works

Prepared By:

Frank Fiorenza, PE
Resident Engineer II

Deadline for Submissions: June 23, 2022 by 4:00 P.M to:

Naomi C. Robles, MPA, Administrative Analyst III
Imperial County Department of Public Works
155 S. 11th Street
El Centro, CA 92243

PROPOSALS MUST BE SUBMITTED ON THE SPECIFIED DATE AND TIME. THE COUNTY WILL NOT CONSIDER PROPOSALS RECEIVED AFTER THE DUE DATE. AN AMENDMENT IS CONSIDERED A NEW PROPOSAL AND WILL NOT BE ACCEPTED AFTER THE SPECIFIED DATE AND TIME.

Special Notice

Notification of Contractor Registration Requirements (where required)

Pursuant to the requirements of California Labor Code section 1771.1, all contractors and subcontractors that wish to engage in public work through a public works contract must be registered with the Department of Industrial Relations (DIR).

Beginning March 1, 2015, no contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with DIR.

Beginning April 1, 2015, no contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the DIR, pursuant to Labor Code section 1725.5

All contractors, including subcontractors, listed in the proposal must be registered with the DIR at the time proposals are due, and must submit proof of registration with the proposal. Any proposals received listing unregistered contractors and/or subcontractors will be deemed non-responsive.

NOTE: DIR number is to be specified on the cover page of the consultant proposal. Proof of registration for consultant and sub consultant shall also be submitted as an exhibit of the proposal.

Application and renewal are completed online with a non-refundable fee of \$400. Read the Public Works Reforms (SB 854) Fact Sheet for requirements. Instructions for completing the form and additional information can be found on the DIR website.

This Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations (DIR).

SOURCES OF INFORMATION

INFORMATION	WEBSITE
Department of Industrial Relations (Public Works)	http://www.dir.ca.gov/Public-Works/PublicWorks.html
SB 854 Fact Sheet	http://www.dir.ca.gov/Public-Works/PublicWorksSB854.html
Senate Bill 854 Compliance	http://www.dir.ca.gov/Public-Works/SB854.html
Public Works Contractor (PWC) Registration	https://efiling.dir.ca.gov/PWCR/
Classifications and Minimum Labor Rates	http://www.dir.ca.gov/OPRL/Pwd/

TABLE OF CONTENTS

	<u>Page</u>
I. Purpose and Background	3
II. Scope of Work	5
III. Responsibilities of County	6
IV. Proposal Content and Information	6
V. RFP Questions, Contact Person, and Schedule	7
VI. Proposal Evaluation	8
VII. Consulting Agreement	8
VIII. Proposal Submittal	9
IX. Closing Items	9

FIGURE(S)

1. Location Map	4
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TABLE(S)

1. Procurement Timeline	7
2. Scoring Criteria	8

EXHIBIT(S)

- A. Sample Consultant Agreement and Insurance Requirements
**The consulting firm must review the attached sample consulting agreement.*

- B. California Regional Water Quality Control Board – Board Order R7-2014-0015 – Waste Discharge Requirements for Imperial County Gateway Services Area
**The consulting firm must review the attached Waste Discharge Requirements*

- C. As-Built plans Gateway CSA Sewer Treatment Plant Expansion – 18 sheets, Dated 05/16/2014
**The consulting firm must review the attached As-Built plans*

I. PURPOSE AND BACKGROUND

i. PURPOSE

Imperial County Department of Public Works (ICDPW/County) is seeking a Consultant to prepare a Preliminary Engineering Report (PER) to consider an increase in future treatment capacity at the Gateway of the Americas Wastewater Treatment Plant. The PER shall summarize existing wastewater treatment plant capacity; actual flow estimates attributed by each discharging Gateway business customer and anticipated future flow forecasts. The PER shall recommend increased steps in capacity with required additional land needs and include consideration of needed discharge and permitting requirements in accordance with State Water Quality Control Board. ICDPW is requesting proposals from qualified and experienced engineering professionals with a strong background in preparing PER's, evaluating wastewater treatment facilities, layout, design, engineering and discharge permitting.

ii. BACKGROUND

The ICDPW owns and operates a wastewater collection, treatment, and disposal system that provides sewage services to the Gateway of the Americas County Service Area development. The Gateway of the Americas County Service Area comprises approximately 1,775 gross acres of land with a master planned mix of Industrial and Commercial uses in Imperial County, California. It lies adjacent to the International border with Mexico and approximately six (6) miles east of the City of Calexico. The area is roughly bounded by the International border (Calexico East Border Crossing) to the south, the Alamo River to the east, Ash Canal to the west, and by a line approximately one-quarter (1/4) mile north of and parallel to State Route 98 (SR98). Due to the WWTP facility proximity to the Alamo River, future capacity increase of the WWTP may need to consider discharge as an option.

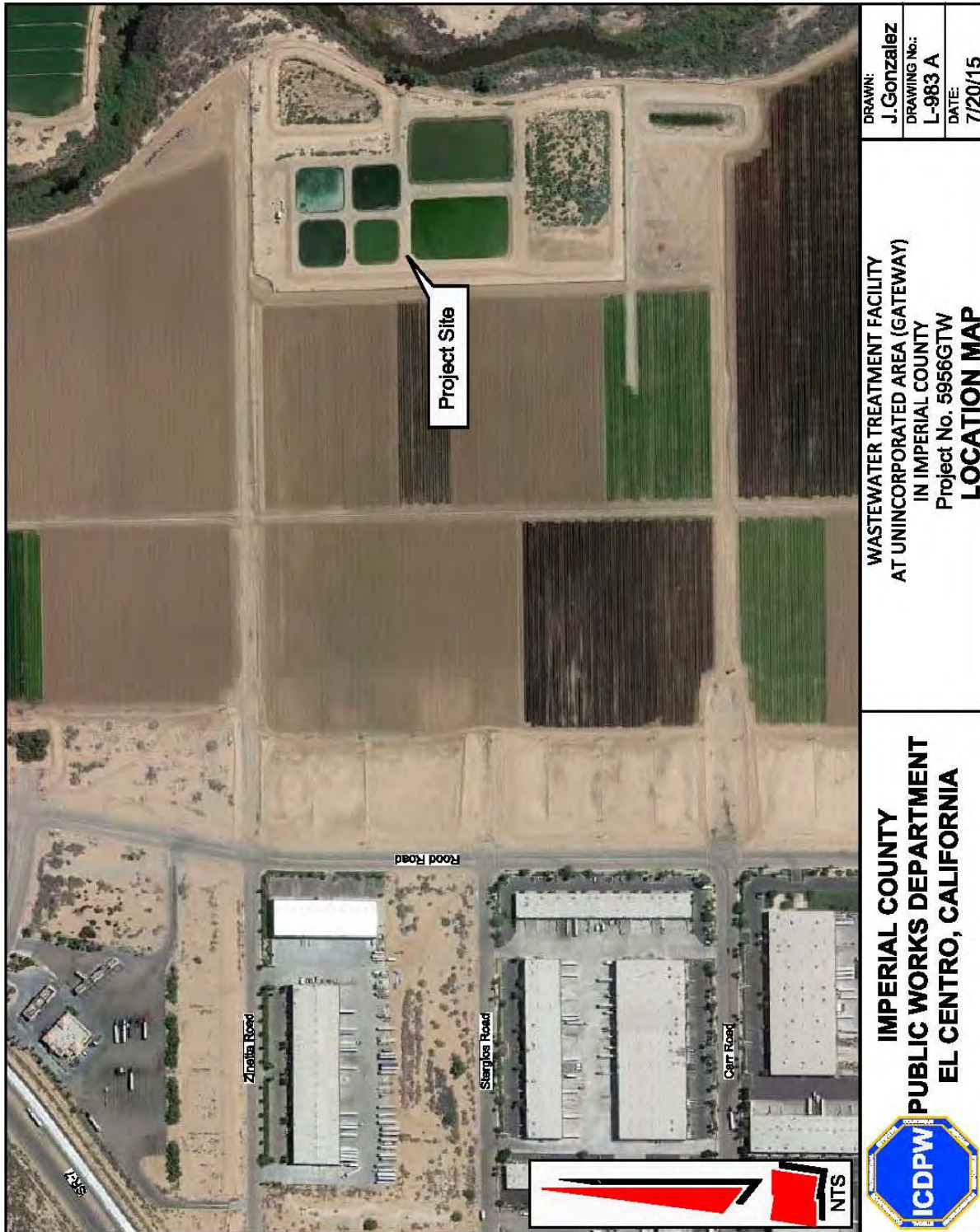
The original first phase of the WWTP in 2000 was designed to serve about 165 acres of development with two remote lift stations, force main, gravity flow pipelines, pump station and two lagoon treatment system with evaporative ponds (operated in parallel) with a plant capacity of 31,500 GPD for zero discharge in accordance with CRWQCB Order No. 99-042.

A second phase permit of the WWTP was obtained in 2003 for a capacity of 200,000 GPD discharge to the Alamo River, in accordance with CRWQCB Order No. R7-2003-0001/NPDES Permit No. CA 7000015, which was never implemented and then lapsed and was intended to be re-applied for.

In 2009, it was apparent that if the WWTP were to change from evaporation/infiltration to discharge to the Alamo River, it would significantly increase the County's operation and maintenance costs. The County therefore pivoted to a 100,000 GPD evaporation/infiltration capacity with no discharge, per CRWQCB Order No. R7-2009-0064. In 2010, this Phase II construction was completed. The two lagoon evaporative ponds were modified and placed in series with a new infiltration/evaporation pond, deepening an existing emergency backup infiltration/evaporation pond, aerators, other equipment improvements and facility betterments.

In 2012, a proposed development in the Gateway CSA required an additional 118,000 GPD for their private detention facility and funded another expansion, known as "Phase 2A" for a total Gateway WWTP capacity of 200,000 GPD using infiltration and evaporation and no discharge. The construction completed in 2014 added two more lagoon ponds in series, another infiltration/evaporation pond and associated facility improvement. This configuration is as currently existing today. The WWTP operates under CRWQCAB Order No. R7-2014-0015.

Figure 1 – Location Map



II. SCOPE OF WORK:

A. Services of the Consultant

The consultant shall develop a Preliminary Engineering Report (PER) to include a detailed review and analysis of existing permitting, capacities, and future proposed development flows and required capacities. Consultant shall consider existing Gateway WWTP lands and future land acquisition/expansion planning for increased capacity alternatives related to land discharge through the existing Waste Discharge Requirements (WDR) permit from the California State Water Resources Control Board.

The PER shall consider both, acquiring adjacent parcel(s) for non-discharge land application infiltration and evaporation option, as well as what triggers that would require discharge permitting to the Alamo River through a new National Pollutant Discharge Elimination System (NPDES) permit. The scope includes conceptual layouts for discussion and meeting coordination with the California Regional Water Quality Control Board for their review. Preparing detailed design plans and full permitting for the selected expansion is not expected, nor part of this proposal, or the PER. However, sufficient information is necessary to determine the level of effort and costs associated with future permitting to be outlined in the PER.

The PER shall offer alternative options for ICDPW to consider with a goal to provide the County with a cost-effective methodology for increasing WWTP capacity at the Gateway of the Americas Wastewater Treatment Facility without the need for discharge through an NPDES permit. Another goal is an alternative with future discharge via an NPDES permit. The consultant shall prepare an Engineer's Opinion of Probable Project Costs for each alternative, including all permitting, soft and hard costs anticipated.

The PER recommendations provided by the Consultant will be used to determine next steps in the Gateway CSA budget for increased WWTP capacity as new development occurs in the Gateway CSA.

The Consultant shall adhere to the requirements, and comments provided by County and the California Regional Water Quality Control Board, and provide a detailed analysis of the necessary steps/measures needed for future capacity increase of the Gateway Wastewater Treatment Facility.

If Consultant suggests testing, measuring, and/or installation of additional items, supporting detail i.e. (how long, what kind of testing, what equipment is needed, etc.) shall be provided in proposal.

The Consultant is to provide a detailed draft schedule planning, preliminary design, permitting and construction of the proposed alternatives mentioned in the proposal for a complete Preliminary Engineering Report.

All information shall be addressed to ICDPW in accordance with all provisions within this Request for Proposals (RFP). Consultant shall demonstrate through the submitted proposal, successful handling of previous WWTP facility capacity design, engineering, forecast & estimating flows, permitting and coordination of such work and projects in accordance with the California Regional Water Quality Control Board requirements.

The scope of work, does not suggest that any items specifically not mentioned are precluded from the scope of work; nor does it suggest that all items will be required, some of which may depend on the final chosen alternative. Consultant is expected to be proactive in the prosecution of his duties

As requested by the County, provide services resulting from significant changes in the general scope of the project, but not limited to revisions of previously accepted studies, reports, design documents in accordance with County procedures.

III. RESPONSIBILITIES OF COUNTY:

The County will direct the development of the project(s), provide management oversight, and conduct administrative arrangements only. The County will provide any other available WWTP plans and records to Consultant as required. Consultant will be responsible for all activities and meetings associated with the project including meeting minutes and record keeping.

The County will pay an agreed upon amount normally within 30 days after receipt of invoice(s). Invoice(s) shall be submitted with a detailed accounting of staff hours attributed to specific tasks. Separate invoices shall be submitted for specific project billings, with clear notation of the County Project Number. County will retain 5% of each invoice for services and will release final retention upon project completion. .

The County will not provide dedicated workplace facilities, but upon request will provide a conference room for meetings with the Department, consultant and other appropriate agencies if needed.

The County reserves the right to perform any portion of the scope of work by County personnel or other consultants should the County determine it would be in the best interest of the County to do so.

IV. PROPOSAL CONTENT AND INFORMATION:

At a minimum, proposals should include:

1. Letter of Interest: Provide a cover letter expressing your interest in the project. Include name, address, phone number, and email address of the primary contact; identifying the capacity of this person.
2. Statement of Qualifications: Describe the company's qualifications and experience related to multi-modal transportation planning.
3. Understanding of the project:
4. Experience with similar project(s): Provide a list of at least three (3) or more similar projects that the firm and staff, proposed for assignment, have successfully completed.
5. References: Provide at least three (3) references, with contact information, for other similar work performed.
6. Legal entity: describe the legal entity with which the County would contract including the structure of the anticipated partnership agreement(s) and ownership interests in the project. Include length of time in business, and number of employees.
7. Project Management: Identify the members of the project team, including the project manager, key consultants, and sub-consultants; include their names and positions, their qualifications, list of similar projects in which they assumed substantial roles, and responsibilities related to the assignment. It is expected that individuals identified as the project team will be actively involved throughout the project.
8. Analysis of Effort/Methodology: Prospective consultants shall describe the overall approach to the project, specific techniques that will be used, and the specific administrative and operational management expertise that will be employed. A proposed schedule shall be included. The project schedule must be clearly stated with intermittent milestones.
9. Approach: Provide a narrative that explains your approach to realizing the specifications stated in the enclosed RFP. Include a description of the approach for the project, including, but not limited to:

- Overall approach and recommendation for the comprehensive plan;
 - Detailed scope of work that incorporates the guidance provided in this RFP;
 - Schedule; Timeline
10. Capacity: a statement that the firm(s) has sufficient staff resources and capability to perform the work contained within this RFP within the specified timeframe.
11. Taxpayers Identification Number: Each consultant whether an individual, proprietor, partnership or a non-profit corporation or organization must obtain, complete and include, with the proposal submitted, an Internal Revenue Service Form W-9, "Request for Taxpayer Identification Number and Certification".
12. Cost Proposal/Worksheet Includes fee schedule on a time (by personnel) and materials basis; cost by task; and total cost to complete the project. The cost proposal shall be fully inclusive of all services, overhead, and direct expenses. If applicable, include fee structure for additional work/services outside the scope of work. Cost proposal must include statement that offer is valid for at least a ninety (90) day period.
- All costs/fees proposed must accompany proposal within a separate sealed envelope clearly labeled with the name of the firm submitting and the title of the RFP.

V. RFP QUESTIONS, CONTACT PERSON, AND SCHEDULE:

Questions concerning this RFP will be responded to collectively, and made available for interested consultants via the ICDPW website <http://www.co.imperial.ca.us/publicwork/default.htm> under “Projects out to Bid” as an addendum. *All inquiries must be submitted in writing no later than close of business on Thursday, June 9, 2022* to the contact person below. **No oral questions will be taken or responded to except for administrative clarifications.**

Contact Person: Naomi C. Robles – MPA, Administrative Analyst III
naomirobles@co.imperial.ca.us (for proposal questions)
 442-265-1818 (for administrative questions ONLY)

Table 1 – Procurement Timeline (*subject to change*)

EVENT	DATE
Issue Request for Proposal	Thursday, May 19, 2022
Last Day for Request(s) for Clarification <i>must be submitted in writing</i>	Thursday, June 9, 2022
Proposal Due	Thursday, June 23, 2022
Consultant Selection	August 2022
Agreement for Services	October 2022

VI. PROPOSAL EVALUATION:

The County will utilize a one-step selection process. The County reserves the right to include an oral interview process component. If an oral interview is considered, selected firms will be notified.

Proposals received shall be reviewed according to the criteria and weighting shown in Table 2. In addition to ICDPW Staff, the evaluation panel may include representatives from project stakeholders. A recommendation to award contract will be presented to the Imperial County Board of Supervisors for approval to enter into an agreement.

Please take note that the County reserves the right to select any consultant who is determined qualified and may not correlate to a number 1, number 2 or even number 3 ranked consultant. Additionally, the County reserves the right to reject any and all proposals submitted and/or request additional information for clarification.

Table 2 – Scoring Criteria

CRITERIA	WEIGHT FACTOR
Responsiveness and understanding of work to be done (scope of work)	0.20
Specific experience pertaining PER's for WWTP facilities, incl. design & permitting	0.15
Capacity to perform services and conclude in timely manner	0.20
Qualifications and experience of consulting firm and project team based on recent WWTP experience	0.10
Familiarity and/or specific experience with federal, state, and local government WWTP projects including adherence to prevailing wage regulations	0.25
References	0.05
Overall Quality of proposal	0.05
<i>*Previous experience and performance working with ICDPW</i>	
Total	1.0

(Rating points range from 0 to 5 with 0 being unsatisfactory and 5 being excellent. Rating point is then multiplied by the weight factor to obtain weighted rating)

*Note: Positive previous experience and no previous experience will constitute a score of zero (0). Negative experience points will be deducted from the overall score.

VII. CONSULTING AGREEMENT:

A sample agreement is attached for review as Exhibit A.

Prior to the start of work, the selected consultant will be required to execute an Agreement for Services with the County. The consulting firm must review the attached sample consulting agreement and minimum insurance amounts. No modification requests to material terms of agreement will be made. The agreement shall not be in force until contracting is approved by the Imperial County Board of Supervisors and after written authorization to proceed has been provided.

Any contract resulting from this RFP will be financed with funds available to the County from local Gateway of the America funds and/or other available funding.

VIII. PROPOSAL SUBMITTAL:

One (1) original, three (3) copies, and one (1) electronic copy in Portable Document Format (PDF) on a USB Thumb Drive or Compact Disc (CD) of the proposal must be received in person or by mail to Imperial County Department of Public Works no later than close of business **(4:00pm) on Thursday, June 23, 2022.** Proposal must be clearly titled:

**Gateway Wastewater Treatment Facility: Consulting Services for Preliminary Engineering Report;
County Project No. 6970GTWWTP-RFP**

Proposals are to be delivered in a sealed envelope and addressed to:

Naomi C. Robles – MPA, Administrative Analyst III
Imperial County Department of Public Works
155 S. 11th Street
El Centro, California 92243

Note: Late proposals will not be considered.

IX. CLOSING ITEMS:

A pre-proposal conference has not been scheduled for this project.

Any modifications to this solicitation will be issued by the County as a written addendum and posted to the Imperial County Department of Public Works website: <http://www.co.imperial.ca.us/publicwork/default.htm> under “Projects out to Bid”

The County will not consider proposals received after the specified date and time. An amendment is considered a new proposal and will not be accepted after the specified date and time.

This RFP does not commit the County of Imperial to award a contract or pay any costs associated with the preparation of a proposal. The County reserves the right to cancel, in part or in its entirety, this solicitation should this be in the best interest of the County.

EXHIBIT “A”

1 **AGREEMENT FOR SERVICES**

2 **SAMPLE**

3 THIS AGREEMENT FOR SERVICES (“Agreement”), made and entered into effective the
4 _____ day of _____, 2021, by and between the County of Imperial, a political subdivision of the
5 State of California, by and through its Department of Public Works (“COUNTY”) and [CONSULTANT],
6 an active California corporation (“CONSULTANT”) (individually, “Party;” collectively, “Parties”) shall be
7 as follows:

8 **RECITALS**

9 **WHEREAS**, COUNTY desires to retain a qualified individual, firm or business entity to provide
10 updates to the (“Project”); and

11 **WHEREAS**, CONSULTANT represents that it is qualified and experienced to perform the
12 services; and

13 **WHEREAS**, COUNTY desires to engage CONSULTANT to provide services by reason of its
14 qualifications and experience for performing such services, and CONSULTANT has offered to provide the
15 required services for the Project on the terms and in the manner set forth herein.

16 **NOW, THEREFORE**, in consideration of their mutual covenants, COUNTY and CONSULTANT
17 have and hereby agree to the following:

18 **1. INCORPORATION OF RECITALS.**

19 The Parties certify that, to the best of their knowledge, the above recitals are true and correct. The
20 above recitals are hereby adopted and incorporated within this Agreement.

21 **2. DEFINITIONS.**

22 **2.1.** “Request for Proposal” or “RFP” shall mean that document that describes the Project and
23 project requirements to prospective bidders entitled, [RFP] dated [RFP Date]. The Request
24 for Proposal is attached hereto as **Exhibit “A”** and incorporated herein by this reference.

25 **2.2.** “Proposal” shall mean CONSULTANT’s document entitled, [Proposal] and submitted to
26 COUNTY’s Department of Public Works. The Proposal is attached hereto as **Exhibit “B”**
27 and incorporated herein this by reference.

28 **3. CONTRACT COORDINATION.**

1 **3.1.** The Director of Public Works or his/her designee shall be the representative of COUNTY
2 for all purposes under this Agreement. The Director of Public Works or his/her designee
3 is hereby designated as the Contract Manager for COUNTY. He/she shall supervise the
4 progress and execution of this Agreement.

5 **3.2.** CONSULTANT shall assign a single Contract Manager to have overall responsibility for
6 the progress and execution of this Agreement. Should circumstances or conditions
7 subsequent to the execution of this Agreement require a substitute Contract Manager for any
8 reason, the Contract Manager designee shall be subject to the prior written acceptance and
9 approval of COUNTY's Contract Manager.

10 **4. DESCRIPTION OF WORK.**

11 CONSULTANT shall provide all materials and labor to perform this Agreement consistent with the
12 RFP and the Proposal, as set forth in **Exhibits "A" and "B."** In the event of a conflict amongst this
13 Agreement, the RFP, and the Proposal, the RFP shall take precedence over the Proposal and this Agreement
14 shall take precedence over both.

15 **5. WORK TO BE PERFORMED BY CONSULTANT.**

16 **5.1.** CONSULTANT shall comply with all terms, conditions and requirements of the Proposal
17 and this Agreement.

18 **5.2.** CONSULTANT shall perform such other tasks as necessary and proper for the full
19 performance of the obligations assumed by CONSULTANT hereunder; including but not
20 limited to any additional work or change orders agreed upon pursuant to written
21 authorization as described in Paragraph 6.3, and as contemplated under Sections 13, 14, and
22 28. Proposed additional work or change order requests, when applicable, will be attached
23 and incorporated herein under **Exhibit "B"** (as "B-1," "B-2," etc.).

24 **5.3.** CONSULTANT shall:

25 **5.3.1.** Procure all permits and licenses, pay all charges and fees, and give all notices that
26 may be necessary and incidental to the due and lawful prosecution of the services
27 to be performed by CONSULTANT under this agreement;

28 **5.3.2.** Keep itself fully informed of all existing and proposed federal, state and local laws,

1 ordinances, regulations, orders and decrees which may affect those engaged or
2 employed under this Agreement;

3 **5.3.3.** At all times observe and comply with, and cause all of its employees to observe and
4 comply with all of said laws, ordinances, regulations, orders and decrees mentioned
5 above; and

6 **5.3.4.** Immediately report to COUNTY's Contract Manager in writing any discrepancy
7 or inconsistency it discovers in said laws, ordinances, regulations, orders and
8 decrees mentioned above in relation to any plans, drawings, specifications or
9 provisions of this Agreement.

10 **6. REPRESENTATIONS BY CONSULTANT.**

11 **6.1.** CONSULTANT understands and agrees that COUNTY has limited knowledge in the
12 multiple areas specified in the Proposal. CONSULTANT has represented itself to be an
13 expert in these fields and understands that COUNTY is relying upon such representation.

14 **6.2.** CONSULTANT represents and warrants that it is a lawful entity possessing all required
15 licenses and authorities to do business in the State of California and perform all aspects
16 of this Agreement.

17 **6.3.** CONSULTANT shall not commence any work under this Agreement or provide any
18 other services, or materials, in connection therewith until CONSULTANT has received
19 written authorization from COUNTY's Contract manager to do so.

20 **6.4.** CONSULTANT represents and warrants that the people executing this Agreement on behalf
21 of CONSULTANT have the authority of CONSULTANT to sign this Agreement and bind
22 CONSULTANT to the performance of all duties and obligations assumed by
23 CONSULTANT herein.

24 **6.5.** CONSULTANT represents and warrants that any employee, contractor and/or agent who
25 will be performing any of the duties and obligations of CONSULTANT herein possess all
26 required licenses and authorities, as well as the experience and training, to perform such
27 tasks.

28 **6.6.** CONSULTANT represents and warrants that the allegations contained in the Proposal are

1 true and correct.

2 **6.7.** CONSULTANT understands and agrees not to discuss this Agreement or work performed
3 pursuant to this Agreement with anyone not a party to this Agreement without the prior
4 permission of COUNTY. CONSULTANT further agrees to immediately advise
5 COUNTY of any contacts or inquiries made by anyone not a party to this Agreement with
6 respect to work performed pursuant to this Agreement.

7 **6.8.** Prior to accepting any work under this Agreement, CONSULTANT shall perform a due
8 diligence review of its files and advise COUNTY of any conflict or potential conflict
9 CONSULTANT may have with respect to the work requested.

10 **6.9.** CONSULTANT understands and agrees that in the course of performance of this
11 Agreement CONSULTANT may be provided with information or data considered by the
12 owner or the COUNTY to be confidential. COUNTY shall clearly identify such
13 information and/or data as confidential. CONSULTANT shall take all necessary steps
14 necessary to maintain such confidentiality including but not limited to restricting the
15 dissemination of all material received to those required to have such data in order for
16 CONSULTANT to perform under this Agreement.

17 **6.10.** CONSULTANT represents that the personnel dedicated to this project as identified in
18 CONSULTANT's Proposal, will be the people to perform the tasks identified therein.
19 CONSULTANT will not substitute other personnel or engage any contractors to work on
20 any tasks identified herein without prior written notice to COUNTY.

21 **6.11.** CONSULTANT understands that COUNTY considers the representations made herein
22 to be material and would not enter into this Agreement with CONSULTANT if such
23 representations were not made.

24 **7. TERM OF AGREEMENT.**

25 This Agreement shall commence on the date first written above and shall remain in effect until
26 the services provided as outlined in Section 4, ("DESCRIPTION OF WORK"), have been completed,
27 unless otherwise terminated as provided for in this Agreement.

28 **8. COMPENSATION.**

1 **8.1.** The total compensation payable under this Agreement shall not exceed **[amount]** unless
2 otherwise previously agreed to in writing by COUNTY, and shall be broken down as
3 follows:

4 **8.1.1.** [Cost Proposal]

5 **8.2.** The fee for any additional services required by COUNTY will be computed either on a
6 negotiated lump sum basis or upon actual hours and expenses incurred by
7 CONSULTANT and based on CONSULTANT's current standard rates as set forth in the
8 Proposal. Additional services or costs will not be paid without a prior written agreement
9 between the Parties.

10 **8.3.** Except as provided under Paragraphs 8.1 and 8.2, COUNTY shall not be responsible to
11 pay CONSULTANT any compensation, out of pocket expenses, fees, reimbursement of
12 expenses or other remuneration.

13 **9. PAYMENT.**

14 **9.1.** CONSULTANT shall bill COUNTY on a time and material basis as set forth in **Exhibit**
15 **"B."** COUNTY shall pay CONSULTANT for completed and approved services upon
16 presentation of its itemized billing.

17 **9.2.** COUNTY shall have the right to retain five percent (5%) of the total of amount of each
18 invoice, not to exceed five percent (5%) of the total compensation amount of the completed
19 project. "Completion of the Project" is when the work to be performed has been completed
20 in accordance with this Agreement, as determined by COUNTY, and all subcontractors, if
21 any, have been paid in full by CONSULTANT. Upon completion of the Project
22 CONSULTANT shall bill COUNTY the retention for payment by COUNTY.

23 **10. METHOD OF PAYMENT.**

24 CONSULTANT shall at any time prior to the fifteenth (15th) day of any month, submit to COUNTY
25 a written claim for compensation for services performed. The claim shall be in a format approved by
26 COUNTY. No payment shall be made by COUNTY prior to the claims being approved in writing by
27 COUNTY's Contract Manager or his/her designee. CONSULTANT may expect to receive payment within
28 a reasonable time thereafter and in any event in the normal course of business within thirty (30) days after

1 the claim is submitted.

2 **11. TIME FOR COMPLETION OF THE WORK.**

3 The Parties agree that time is of the essence in the performance of this Agreement. Program
4 scheduling shall be as described in Exhibits unless revisions are approved by both COUNTY's Contract
5 Manager and CONSULTANT's Contract Manager. Time extensions may be allowed for delays caused
6 by COUNTY, other governmental agencies or factors not directly brought about by the negligence or
7 lack of due care on the part of CONSULTANT.

8 **12. MAINTENANCE AND ACCESS OF BOOKS AND RECORDS.**

9 **12.1.** CONSULTANT shall maintain books, records, documents, reports and other materials
10 developed under this Agreement as follows:

11 **12.2.** CONSULTANT shall maintain all ledgers, books of accounts, invoices, vouchers,
12 canceled checks, and other records relating to CONSULTANT's charges for services or
13 expenditures and disbursements charged to COUNTY for a minimum period of three (3)
14 years, or for any longer period required by law, from the date of final payment to
15 CONSULTANT pursuant to this Agreement.

16 **12.3.** CONSULTANT shall maintain all reports, documents, and records, which demonstrate
17 performance under this Agreement for a minimum period of five (5) years, or for any
18 longer period required by law, from the date of termination or completion of this
19 Agreement.

20 **12.4.** Any records or documents required to be maintained by CONSULTANT pursuant to this
21 Agreement shall be made available to COUNTY for inspection or audit at any time during
22 CONSULTANT's regular business hours provided that COUNTY provides
23 CONSULTANT with seven (7) days advanced written or e-mail notice. Copies of such
24 documents shall, at no cost to COUNTY, be provided to COUNTY for inspection at
25 CONSULTANT's address indicated for receipt of notices under this Agreement.

26 **13. SUSPENSION OF AGREEMENT.**

27 COUNTY's Contract Manager shall have the authority to suspend this Agreement, in whole or
28 in part, for such period as deemed necessary due to unfavorable conditions or to the failure on the part

1 of CONSULTANT to perform any provision of this Agreement. CONSULTANT will be paid the
2 compensation due and payable to the date of suspension.

3 **14. TERMINATION.**

4 COUNTY retains the right to terminate this Agreement for any reason by notifying
5 CONSULTANT in writing twenty (20) days prior to termination and by paying the compensation due
6 and payable to the date of termination; provided, however, if this Agreement is terminated for fault of
7 CONSULTANT, COUNTY shall be obligated to compensate CONSULTANT only for that portion of
8 CONSULTANT's services which are of benefit to COUNTY. Said compensation is to be arrived at by
9 mutual agreement between COUNTY and CONSULTANT; should the parties fail to agree on said
10 compensation, an independent arbitrator shall be appointed and the decision of the arbitrator shall be
11 binding upon the parties.

12 **15. INSPECTION.**

13 CONSULTANT shall furnish COUNTY with every reasonable opportunity for COUNTY to
14 ascertain that the services of CONSULTANT are being performed in accordance with the requirements
15 and intentions of this Agreement. All work done and materials furnished, if any, shall be subject to
16 COUNTY's Contract Manager's inspection and approval. The inspection of such work shall not relieve
17 CONSULTANT of any of its obligations to fulfill its Agreement as prescribed.

18 ///

19 **16. OWNERSHIP OF MATERIALS.**

20 All original drawings, videotapes, studies, sketches, computations, reports, information, data and
21 other materials given to or prepared or assembled by or in the possession of CONSULTANT pursuant
22 to this Agreement shall become the permanent property of COUNTY and shall be delivered to COUNTY
23 upon demand, whether or not completed, and shall not be made available to any individual or
24 organization without the prior written approval of COUNTY.

25 **17. INTEREST OF CONSULTANT.**

26 **17.1.** CONSULTANT covenants that it presently has no interest, and shall not acquire any
27 interest, direct or indirect, financial or otherwise, which would conflict in any manner or
28 degree with the performance of the services hereunder.

1 17.2. CONSULTANT covenants that, in the performance of this Agreement, no sub-contractor
2 or person having such an interest shall be employed.

3 17.3. CONSULTANT certifies that no one who has or will have any financial interest under
4 this Agreement is an officer or employee of COUNTY.

5 **18. INDEMNIFICATION.**

6 18.1. CONSULTANT agrees to the fullest extent permitted by law, in accordance with the
7 limits required by California Civil Code § 2782.8, to indemnify, defend, protect and hold
8 COUNTY and its representatives, officers, directors, designees, employees, successors
9 and assigns harmless from any and all claims, expenses, liabilities, losses, causes of
10 actions, demands, losses, penalties, attorneys' fees and costs, in law or equity, of every
11 kind and nature whatsoever that arise out of, pertain to, or relate to CONSULTANT's
12 negligence, recklessness, or willful misconduct under this Agreement ("Claims"),
13 whether or not arising from the passive negligence of COUNTY, but does not include
14 Claims that are the result of the negligence, recklessness, or willful misconduct of
15 COUNTY.

16 18.2. In accordance with the limits required by California Civil Code § 2782.8, if applicable,
17 CONSULTANT agrees to defend with counsel acceptable to COUNTY, indemnify and
18 hold COUNTY harmless from all Claims, including but not limited to:

19 18.2.1. Personal injury, including but not limited to bodily injury, emotional injury,
20 sickness or disease or death to persons including but not limited to COUNTY's
21 representatives, officers, directors, designees, employees, agents, successors and
22 assigns, subcontractors and other third parties and/or damage to property of
23 anyone (including loss of use thereof) arising out of, pertaining to, or relating to
24 CONSULTANT's negligent or reckless performance of, or willful misconduct
25 surrounding, any of the terms contained in this Agreement, or anyone directly or
26 indirectly employed by CONSULTANT or anyone for whose acts
27 CONSULTANT may be liable;

28 18.2.2. Liability arising from injuries to CONSULTANT and/or any of

1 CONSULTANT's employees or agents arising out of, pertaining to, or relating to
2 CONSULTANT's negligent or reckless performance of, or willful misconduct
3 surrounding, any of the terms contained in this Agreement, or anyone directly or
4 indirectly employed by CONSULTANT or anyone for whose acts
5 CONSULTANT may be liable;

6 **18.2.3.** Penalties imposed upon account of the violation of any law, order, citation, rule,
7 regulation, standard, ordinance or statute caused by the negligent or reckless
8 action or inaction, or willful misconduct of CONSULTANT or anyone directly or
9 indirectly employed by CONSULTANT or anyone for whose acts
10 CONSULTANT may be liable, including but not limited to:

11 (a) Any loss of funding, penalties, fees, or other costs resulting from
12 CONSULTANT's failure to adhere to Disadvantaged Business Enterprise
13 requirements and/or goals, as determined by COUNTY or such other
14 lawful entity in charge of monitoring Disadvantaged Business Enterprise
15 compliance;

16 (a) Any loss of funding, penalties, fees, or other costs resulting from
17 CONSULTANT's failure to adhere to prevailing wage requirements, as
18 determined by COUNTY, the California Department of Industrial
19 Relations, or such other lawful entity in charge of monitoring prevailing
20 wage compliance;

21 **18.2.4.** Infringement of any patent rights which may be brought against COUNTY arising
22 out of CONSULTANT's work;

23 **18.2.5.** Any violation or infraction by CONSULTANT of any law, order, citation, rule,
24 regulation, standard, ordinance or statute in any way relating to the occupational
25 health or safety of employees; and

26 **18.2.6.** Any breach by CONSULTANT of the terms, requirements or covenants of this
27 Agreement.

28 **18.3.** These indemnification provisions shall extend to Claims occurring after this Agreement

1 is terminated, as well as while it is in force.

2 **19. INDEPENDENT CONTRACTOR.**

3 In all situations and circumstances arising out of the terms and conditions of this Agreement,
4 CONSULTANT is an independent contractor, and as an independent contractor, the following shall
5 apply:

6 **19.1.** CONSULTANT is not an employee or agent of COUNTY and is only responsible for the
7 requirements and results specified by this Agreement or any other agreement.

8 **19.2.** CONSULTANT shall be responsible to COUNTY only for the requirements and results
9 specified by this Agreement and except as specifically provided in this Agreement, shall
10 not be subject to COUNTY's control with respect to the physical actions or activities of
11 CONSULTANT in fulfillment of the requirements of this Agreement.

12 **19.3.** CONSULTANT is not, and shall not be, entitled to receive from, or through, COUNTY,
13 and COUNTY shall not provide, or be obligated to provide, CONSULTANT with
14 Workers' Compensation coverage or any other type of employment or worker insurance
15 or benefit coverage required or provided by any Federal, State or local law or regulation
16 for, or normally afforded to, an employee of COUNTY.

17 **19.4.** CONSULTANT shall not be entitled to have COUNTY withhold or pay, and COUNTY
18 shall not withhold or pay, on behalf of CONSULTANT, any tax or money relating to the
19 Social Security Old Age Pension Program, Social Security Disability Program, or any
20 other type of pension, annuity, or disability program required or provided by any federal,
21 State or local law or regulation.

22 **19.5.** CONSULTANT shall not be entitled to participate in, nor receive any benefit from, or
23 make any claim against any COUNTY fringe program, including, but not limited to,
24 COUNTY's pension plan, medical and health care plan, dental plan, life insurance plan,
25 or any other type of benefit program, plan, or coverage designated for, provided to, or
26 offered to COUNTY's employees.

27 **19.6.** COUNTY shall not withhold or pay, on behalf of CONSULTANT, any Federal, State, or
28 local tax, including, but not limited to, any personal income tax, owed by

1 CONSULTANT.

2 **19.7.** CONSULTANT is, and at all times during the term of this Agreement, shall represent
3 and conduct itself as an independent contractor, not as an employee of COUNTY.

4 **19.8.** CONSULTANT shall not have the authority, express or implied, to act on behalf of, bind
5 or obligate COUNTY in any way without the written consent of COUNTY.

6 **20. INSURANCE.**

7 **20.1.** CONSULTANT hereby agrees at its own cost and expense to procure and maintain,
8 during the entire term of this Agreement and any extended term therefore, insurance in a
9 sum acceptable to COUNTY and adequate to cover potential liabilities arising in
10 connection with the performance of this Agreement and in any event not less than the
11 minimum limit set forth in the “Minimum Insurance Amounts” attachment to RFP
12 (**Exhibit “A”**) which are incorporated as if set forth fully herein.

13 **20.2. Special Insurance Requirements.** All insurance required shall:

14 **20.2.1.** Be procured from California admitted insurers (licensed to do business in
15 California) with a current rating by Best’s Key Rating Guide, acceptable to
16 COUNTY. A rating of at least A-VII shall be acceptable to COUNTY; lesser
17 ratings must be approved in writing by COUNTY.

18 **20.2.2.** Be primary coverage as respects COUNTY and any insurance or self-insurance
19 maintained by COUNTY shall be in excess of CONSULTANT’s insurance
20 coverage and shall not contribute to it.

21 **20.2.3.** Name The Imperial County Department of Public Works and the County of
22 Imperial and their officers, employees, and volunteers as additional insured on all
23 policies, except Workers’ Compensation insurance and Errors & Omissions
24 insurance, and provide that COUNTY may recover for any loss suffered by
25 COUNTY due to CONSULTANT’s negligence.

26 **20.2.4.** State that it is primary insurance and regards COUNTY as an additional insured
27 and contains a cross-liability or severability of interest clause.

28 **20.2.5.** Not be canceled, non-renewed or reduced in scope of coverage until after thirty

1 (30) days written notice has been given to COUNTY. CONSULTANT may not
2 terminate such coverage until it provides COUNTY with proof that equal or better
3 insurance has been secured and is in place. Cancellation or change without prior
4 written consent of COUNTY shall, at the option of COUNTY, be grounds for
5 termination of this Agreement.

6 **20.2.6.** If this Agreement remains in effect more than one (1) year from the date of its
7 original execution, COUNTY may, at its sole discretion, require an increase to
8 liability insurance to the level then customary in similar COUNTY Agreements
9 by giving sixty (60) days notice to CONSULTANT.

10 **20.3. Additional Insurance Requirements.**

11 **20.3.1.** COUNTY is to be notified immediately of all insurance claims. COUNTY is also
12 to be notified if any aggregate insurance limit is exceeded.

13 **20.3.2.** The comprehensive or commercial general liability shall contain a provision of
14 endorsements stating that such insurance:

- 15 (a) Includes contractual liability;
- 16 (b) Does not contain any exclusions as to loss or damage to property caused
17 by explosion or resulting from collapse of buildings or structures or
18 damage to property underground, commonly referred to by insurers as the
19 “XCU Hazards;”
- 20 (c) Does not contain a “pro rata” provision which looks to limit the insurer’s
21 liability to the total proportion that its policy limits bear to the total
22 coverage available to the insured;
- 23 (d) Does not contain an “excess only” clause which require the exhaustion of
24 other insurance prior to providing coverage;
- 25 (e) Does not contain an “escape clause” which extinguishes the insurer’s
26 liability if the loss is covered by other insurance;
- 27 (f) Includes COUNTY as an additional insured.
- 28 (g) States that it is primary insurance and regards COUNTY as an additional

insured and contains a cross-liability or severability of interest clause.

1
2 **20.4. Deposit of Insurance Policy.** Promptly on issuance, reissuance, or renewal of any
3 insurance policy required by this Agreement, CONSULTANT shall, if requested by
4 COUNTY, provide COUNTY satisfactory evidence that insurance policy premiums have
5 been paid together with a duplicate copy of the policy or a certificate evidencing the
6 policy and executed by the insurance company issuing the policy or its authorized agent.

7 **20.5. Certificates of Insurance.** CONSULTANT agrees to provide COUNTY with the following
8 insurance documents on or before the effective date of this Agreement:

9 **20.5.1.** Complete copies of certificates of insurance for all required coverages including
10 additional insured endorsements shall be attached hereto as **Exhibit “C”** and
11 incorporated herein.

12 **20.5.2.** The documents enumerated in this Paragraph shall be sent to the following:

13 County of Imperial
14 Risk Management Department
15 Re: County Project No. [Project Number]
16 940 Main Street, Suite 101
17 El Centro, CA 92243

17 ///
18 ///
19 ///
20 ///

19 County of Imperial
20 Department of Public Works
21 Re: County Project No.[Project Number]
22 155 South 11th Street
23 El Centro, CA 92243

23 **20.6. Additional Insurance.** Nothing in this, or any other provision of this Agreement, shall be
24 construed to preclude CONSULTANT from obtaining and maintaining any additional
25 insurance policies in addition to those required pursuant to this Agreement.

26 **21. PREVAILING WAGE.**

27 **21.1.** CONSULTANT acknowledges that any work that qualifies as a “public work” within the
28 meaning of California Labor Code section 1720 shall cause CONSULTANT, and its sub-

consultants, to comply with the provisions of California Labor Code sections 1775 et seq.

21.2. When applicable, copies of the prevailing rate of per diem wages shall be on file at COUNTY's Department of Public Works and/or Clerk of the Board of Supervisors, and available to any interested party upon request. CONSULTANT shall post copies of the prevailing wage rate of per diem wages at the Project site.

21.3. CONSULTANT hereby acknowledges and stipulates to the following:

21.3.1. CONSULTANT has reviewed and agrees to comply with the provisions of Labor Code section 1776 regarding retention and inspection of payroll records and noncompliance penalties; and

21.3.2. CONSULTANT has reviewed and agrees to comply with the provisions of Labor Code section 1777.5 regarding employment of registered apprentices; and

21.3.3. CONSULTANT has reviewed and agrees to comply with the provisions of Labor Code section 1810 regarding the legal day's work; and

21.3.4. CONSULTANT has reviewed and agrees to comply with the provisions of Labor Code section 1813 regarding forfeiture for violations of the maximum hours per day and per week provisions contained in the same chapter.

21.3.5. CONSULTANT has reviewed and agrees to comply with any applicable provisions for those Projects subject to Department of Industrial Relations (DIR) Monitoring and Enforcement of prevailing wages. COUNTY hereby notifies CONSULTANT that CONSULTANT is responsible for complying with the requirements of Senate Bill 854 (SB854) regarding certified payroll record reporting. Further information concerning the requirements of SB854 is available on the DIR website located at: <http://www.dir.ca.gov/Public-Works/PublicWorksEnforcement.html>.

22. **WORKERS' COMPENSATION CERTIFICATION.**

22.1. Prior to the commencement of work, CONSULTANT shall sign and file with COUNTY the following certification: "I am aware of the provisions of California Labor Code §§3700 et seq. which require every employer to be insured against liability for workers'

1 compensation or to undertake self-insurance in accordance with the provisions of that
2 code, and I will comply with such provisions before commencing the performance of the
3 work of this contract.”

4 **22.2.** This certification is included in this Agreement and signature of the Agreement shall
5 constitute signing and filing of the certificate.

6 **22.3.** CONSULTANT understands and agrees that any and all employees, regardless of hire
7 date, shall be covered by Workers’ Compensation pursuant to statutory requirements
8 prior to beginning work on the Project.

9 **22.4.** If CONSULTANT has no employees, initial here: _____.

10 **23. ASSIGNMENT.**

11 Neither this Agreement nor any duties or obligations hereunder shall be assignable by
12 CONSULTANT without the prior written consent of COUNTY. CONSULTANT may employ other
13 specialists to perform services as required with prior approval by COUNTY.

14 **24. NON-DISCRIMINATION.**

15 **24.1.** During the performance of this Agreement, CONSULTANT and its subcontractors shall
16 not unlawfully discriminate, harass or allow harassment against any employee or
17 applicant for employment because of sex, race, color, ancestry, religious creed, national
18 origin, physical disability (including HIV and AIDS), mental disability, medical
19 condition (cancer), age (over forty (40)), marital status and denial of family care leave.
20 CONSULTANT and its subcontractors shall insure that the evaluation and treatment of
21 their employees and applicants for employment are free from such discrimination and
22 harassment.

23 **24.2.** CONSULTANT and its subcontractors shall not discriminate on the basis of race, color,
24 national origin, or sex in the performance of this Agreement. CONSULTANT shall carry
25 out applicable requirements of 49 CFR 26 in the award and administration of DOT-
26 assisted contracts. Failure by CONSULTANT to carry out these requirements is a
27 material breach of this Agreement, which may result in the termination of this Agreement,
28 or such other remedy as COUNTY deems appropriate.

1 **24.3.** CONSULTANT and its subcontractors shall comply with the provisions of the Fair
2 Employment and Housing Act (Gov. Code §12990 (a-f) et seq.) and the applicable
3 regulations promulgated thereunder (California Code of Regulations, Title 2, §7285 et
4 seq.).

5 **24.4.** The applicable regulations of the Fair Employment and Housing Commission
6 implementing Government Code §12990 (a-f), set forth in Chapter 5 of Division 4 of
7 Title 2 of the California Code of Regulations, are incorporated into this Agreement by
8 reference and made a part hereof as if set forth in full.

9 **24.5.** The applicable regulations of §504 of the Rehabilitation Act of 1973 (29 U.S.C. §794 (a))
10 are incorporated into this Agreement by reference and made a part hereof as if set forth
11 in full.

12 **24.6.** CONSULTANT and its subconsultants shall give written notice of their obligations under
13 this clause to labor organizations with which they have a collective bargaining or other
14 agreement.

15 **24.7.** CONSULTANT shall include the nondiscrimination and compliance provisions of this
16 clause in all subcontracts to perform work under this Agreement.

17 **25. DISADVANTAGED BUSINESS ENTITY COMPLIANCE.**

18 **25.1.** When applicable, CONSULTANT represents and warrants that it has fully read the
19 applicable Disadvantaged Business Enterprise (“DBE”) requirements pertaining to this
20 Project and has fully and accurately completed any and all required DBE forms.

21 **25.2.** CONSULTANT represents and warrants that it will comply with all applicable DBE
22 requirements for this Project.

23 **25.3.** CONSULTANT shall comply with any applicable DBE provisions attached hereto as
24 **Exhibit “D”** and incorporated by this reference as though fully set forth herein.

25 **25.4.** If any state or federal funds are withheld from COUNTY or not reimbursed to COUNTY
26 due to CONSULTANT’s failure to either comply with the DBE requirements set forth in
27 the RFP and this Agreement, or to meet the mandatory DBE goals as determined by
28 COUNTY, Caltrans, the Federal Highway Administration, and/or any other state or

1 federal agency contributing funds to the Project, then CONSULTANT shall fully
2 reimburse COUNTY the amount of funding lost. COUNTY reserves the right to deduct
3 any such loss in funding from the amount of compensation due to CONSULTANT under
4 this Agreement.

5 **25.5.** In addition to the above, CONSULTANT’s failure to comply with DBE
6 requirements/goals shall subject it to such sanctions as are permitted by law, which may
7 include, but shall not be limited to the following:

8 **25.5.1.** Termination of this Agreement;

9 **25.5.2.** Withholding monthly progress payments;

10 **25.5.3.** Compensatory, special, incidental, liquidated and other damages; and/or

11 **25.5.4.** Designation of CONSULTANT as “nonresponsible,” and disqualification from
12 bidding on future public works projects advertised by COUNTY.

13 **26. NOTICES AND REPORTS.**

14 **26.1.** Any notice and reports under this Agreement shall be in writing and may be given by
15 personal delivery or by mailing by certified mail, addressed as follows:

COUNTY	CONSULTANT
Director of Public Works	
Re: County Project No.[Project Number]	
155 South 11th Street	
El Centro, CA 92243	

County of Imperial
Clerk of the Board of Supervisors
Re: PW County Project No.[Project Number]
940 W. Main Street, Suite 209
El Centro, CA 92243

23 **26.2.** Notice shall be deemed to have been delivered only upon receipt by the Party, seventy-
24 two (72) hours after deposit in the United States mail or twenty-four (24) hours after
25 deposit with an overnight carrier.

26 **26.3.** The addressees and addresses for purposes of this Section may be changed to any other
27 addressee and address by giving written notice of such change. Unless and until written
28 notice of change of addressee and/or address is delivered in the manner provided in this

1 Section, the addressee and address set forth in this Agreement shall continue in effect for
2 all purposes hereunder.

3 **27. ENTIRE AGREEMENT.**

4 This Agreement contains the entire Agreement between COUNTY and CONSULTANT relating
5 to the transactions contemplated hereby and supersedes all prior or contemporaneous agreements,
6 understandings, provisions, negotiations, representations, or statements, either written or oral.

7 **28. MODIFICATION.**

8 No modification, waiver, amendment, discharge, or change of this Agreement shall be valid
9 unless the same is in writing and signed by both Parties.

10 **29. CAPTIONS.**

11 Captions in this Agreement are inserted for convenience of reference only and do not define,
12 describe or limit the scope or the intent of this Agreement or any of the terms thereof.

13 **30. PARTIAL INVALIDITY.**

14 If any provision in this Agreement is held by a court of competent jurisdiction to be invalid, void,
15 or unenforceable, the remaining provisions will nevertheless continue in full force without being
16 impaired or invalidated in any way.

17 ///

18 **31. GENDER AND INTERPRETATION OF TERMS AND PROVISIONS.**

19 **31.1.** As used in this Agreement and whenever required by the context thereof, each number,
20 both singular and plural, shall include all numbers, and each gender shall include a
21 gender.

22 **31.2.** CONSULTANT as used in this Agreement or in any other document referred to in or
23 made a part of this Agreement shall likewise include the singular and the plural, a
24 corporation, a partnership, individual, firm or person acting in any fiduciary capacity as
25 executor, administrator, trustee or in any other representative capacity or any other entity.

26 **31.3.** All covenants herein contained on the part of CONSULTANT shall be joint and several
27 if more than one person, firm or entity executes the Agreement.

28 **32. WAIVER.**

1 No waiver of any breach or of any of the covenants or conditions of this Agreement shall be
2 construed to be a waiver of any other breach or to be a consent to any further or succeeding breach of
3 the same or any other covenant or condition.

4 **33. CHOICE OF LAW.**

5 This Agreement shall be governed by the laws of the State of California. This Agreement is
6 made and entered into in Imperial County, California. Any action brought by either Party with respect
7 to this Agreement shall be brought in a court of competent jurisdiction within said County.

8 **34. AUTHORITY.**

9 **34.1.** Each individual executing this Agreement on behalf of CONSULTANT represents and
10 warrants that:

11 **34.1.1.** He/She is duly authorized to execute and deliver this Agreement on behalf of
12 CONSULTANT;

13 **34.1.2.** Such execution and delivery is in accordance with the terms of the Articles of
14 Incorporation or Partnership, any by-laws or Resolutions of CONSULTANT and;

15 **34.1.3.** This Agreement is binding upon CONSULTANT accordance with its terms.

16 **34.2.** CONSULTANT shall deliver to COUNTY evidence acceptable to COUNTY of the
17 foregoing within thirty (30) days of execution of this Agreement.

18 **35. COUNTERPARTS.**

19 This Agreement (as well as any amendments hereto) may be executed in any number of
20 counterparts, each of which when executed shall be an original, and all of which together shall constitute
21 one and the same Agreement. No counterparts shall be effective until all Parties have executed a
22 counterpart hereof.

23 **36. REVIEW OF AGREEMENT TERMS.**

24 **36.1.** Each Party has had the opportunity to receive independent legal advice from its attorneys
25 with respect to the advisability of making the representations, warranties, covenants and
26 agreements provided for herein, and with respect to the advisability of executing this
27 Agreement.

28 **36.2.** Each Party represents and warrants to and covenants with the other Party that:

1 and projects);

- 2 (c) Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), prohibits
3 discrimination on the basis of sex);
- 4 (d) Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.) as
5 amended, (prohibits discrimination on the basis of disability); and 49 CFR Part
6 27;
- 7 (e) The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.),
8 (prohibits discrimination on the basis of age);
- 9 (f) Airport and Airway Improvement Act of 1982, 949 U.S.C. § 4 71, Section 4
10 7123), as amended, (prohibits discrimination based on race, creed, color, national
11 origin, or sex);
- 12 (g) The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope,
13 coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age
14 Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by
15 expanding the definition of the terms “programs or activities” to include all the
16 programs or activities of the Federal-aid recipients, subrecipients and contractors,
17 whether such programs or activities are Federally funded or not);
- 18 (h) Titles II and III of the Americans with Disabilities Act, which prohibit
19 discrimination on the basis of disability in the operation of public entities, public
20 and private transportation systems, places of public accommodation, and certain
21 testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of
22 Transportation regulations at 49 C.F.R. parts 37 and 38;
- 23 (i) The Federal Aviation Administration’s Nondiscrimination statute (49 U.S.C. §
24 47123) (prohibits discrimination on the basis of race, color, national origin, and
25 sex);
- 26 (j) Executive Order 12898, Federal Actions to Address Environmental Justice in
27 Minority Populations and Low-Income Populations, which ensures discrimination
28 against minority populations by discouraging programs, policies, and activities

1 with disproportionately high and adverse human health or environmental effects
2 on minority and low-income populations;

3 (k) Executive Order 13166, Improving Access to Services for persons with Limited
4 English Proficiency, and resulting agency guidance, national origin
5 discrimination includes discrimination because of limited English proficiency
6 (LEP). To ensure compliance with Title VI, you must take reasonable steps to
7 ensure that LEP persons have meaningful access to your programs (70 Fed. Reg.
8 at 74087 to 74100);

9 (l) Title IX of the Education Amendment of 1972, as amended, which prohibits you
10 from discriminating because of sex in education programs or activities (20 U.S.C.
11 1681 et seq).

12
13
14 [Signatures to Follow on Next Page]
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27 **IN WITNESS WHEREOF**, the Parties have executed this Agreement on the day and year first
28 above written.

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County of Imperial

[Consultant]

By: _____

By: _____

Michael W. Kelly, Chairman
Imperial County Board of Supervisors

[Signatory]

ATTEST:

Blanca Acosta, Clerk of the Board,
County of Imperial, State of California

APPROVED AS TO FORM:

Eric Havens,
County Counsel

By: _____

Faye Winkler,
Deputy County Counsel

MINIMUM INSURANCE AMOUNTS

Consultant contract (Agreement for Services) form and content is included.

Insurance Minimum Amounts *

<u>Insurance</u>	<u>Minimum Limit</u> *
Errors & Omissions/Professional Liability	\$2 million per occurrence
Workers Compensation, Coverage A	Statutory
Employers Liability, Coverage B	\$1 million
Commercial General Liability (Including Contractual Liability):	
Bodily Injury	\$1 million per occurrence \$2 million aggregate
Property Damage	\$1 million per occurrence \$2 million aggregate
Comprehensive Automobile Liability (Owned, hired & non-owned vehicles)	
Bodily Injury	\$1 million per occurrence
Property Damage	\$1 million per occurrence

An endorsement covering any explosion collapse and underground exposures, "XCU", in the Commercial General Liability policy is also required.

*Minimums subject to additional review after Consultant is selected.

EXHIBIT “B”

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

BOARD ORDER R7-2014-0015

**WASTE DISCHARGE REQUIREMENTS
FOR
IMPERIAL COUNTY GATEWAY SERVICES AREA, OWNER
ROCKY VANDERGRIFF WATER TREATMENT SERVICES, OPERATOR
GATEWAY OF THE AMERICAS WASTEWATER TREATMENT PLANT
East of Calexico — Imperial County**

The California Regional Water Quality Control Board, Colorado River Basin Region (Regional Water Board) finds that:

1. Imperial County Gateway Services Area (ICGSA or Discharger), 155 11th Street, El Centro, CA 92243, Owner, and Rocky Vandergriff Water Treatment Services, P.O. Box 815, Seeley, CA 92273, Operator, submitted a Report of Waste Discharge (ROWD) to revise existing Waste Discharge Requirements (WDRs) to accommodate an expansion of and an increase in the amount of wastewater discharged from the ICGSA wastewater treatment plant (WWTP or Facility).
2. ICGSA provides sewage collection, treatment and disposal services to a planned industrial/commercial complex in the Gateway Specific Planned Area (SPA). The SPA is located in an unincorporated area of Imperial County, approximately five miles east of the City of Calexico and encompasses approximately 1,775 acres. The SPA site is bounded on the west by Ash Canal, on the east by the Alamo River, and on the south by the International Border between the United States and Mexico. The northern boundary is approximately 1,300 feet north of State Route 98 (SR-98).
3. The WWTP is located seven miles east of Calexico, one-quarter mile north of Carr Road, on the east side of State Route 7, adjacent to the Alamo River. The WWTP and disposal site are on the Southwest $\frac{1}{4}$ of Section 7, Township 17 South, Range 16 East, San Bernardino Baseline and Meridian as shown on the Location and Vicinity Map (Attachment A), incorporated herein and made part of this Board Order by reference.
4. The ICGSA WWTP discharge is currently regulated under Board WDRs Order R7-2009-0064, adopted November 19, 2009.

Wastewater Treatment Plant and Discharge

5. The existing treatment system at the facility is an integrated, multi-stage, anaerobic-aerobic biological reactor system consisting of two HDPE (60 mil) lined facultative lagoons that operate in parallel. The Facility also includes a pump station, metering instrumentation, and two evaporation/percolation basins. For effluent disposal. Aerators were installed in the facultative lagoons to allow full treatment capacity.
6. The Facility will be upgraded to a design treatment capacity of 0.20 MGD. The WWTP currently has a design capacity of 0.10 MGD. ICGSA has been operating the WWTP under Phase II of the planned industrial/commercial complex project in the Gateway SPA. Expansion under Phase II of the project is the basis for this revision. The expansion is intended to accommodate the addition of a 1,000-bed detention center (i.e., a jail) in the SPA. In addition, the WWTP is proposed to receive 15,000 gallons per day from the U.S.

General Services Administration (GSA), Calexico East Border Crossing Station when the GSA Wastewater Treatment Facility (currently regulated under Board Order R7-2013-0031) is discontinued. The ICGSA WWTP is currently a partially aerated facultative lagoon treatment facility. The facility will be converted to a partial mix, aerated lagoon facility by increasing the aeration in the lagoons, switching the flow path from parallel to series operation, and adding a polishing pond. The WWTP currently has the piping and valves in place to allow for series or parallel operation. Phase III of the project is projected to treat 1.1 MGD and may discharge under a National Pollutant Discharge Elimination System (NPDES) Permit if discharge is to the Alamo River or its tributaries.

7. The existing WWTP is equipped with a duplex influent pump station. Phase II design specifications indicate that the pumps are 280 gallons per minute (gpm) each with a Total Dynamic Head (TDH) of 37 feet and a rated horsepower of 7.5. The ROWD facility description states that one pump is capable of pumping peak daily flows, which the Discharger's engineering consultant, Valentine Environmental Engineers, indicated in a design report, dated June 21, 2013, would be 0.40 MGD. Adjustments to the influent pump station operation are not proposed at this time.
8. Wastewater flow entering the Facility is measured with an influent flow meter. Domestic wastewater from the detention center is to be pre-treated by screening prior to discharge into the ICGSA collection system. Screenings are to be dewatered and disposed of at a landfill. The proposed Facility expansion includes operation of the two partial mix aerated lagoons in series instead of in parallel, a new polishing pond, and five new evaporation/infiltration ponds. Secondary treated effluent is to be discharged to four of the seven evaporation/infiltration disposal ponds on a rotating basis to allow for drying and maintenance; one pond is to be held in reserve. Evaporation/infiltration ponds are designed with an infiltration rate of 0.09 ft/day/ft² and evaporation rate of 70 inches per year, which requires an area of approximately 250,000 ft² at the design flow rate of 0.20 MGD. Evaporation/infiltration pond area totals approximately 270,000 ft². The flow treatment process is illustrated in the Flow Process Diagram (Attachment B), incorporated herein and made a part of this Order by reference.
9. Back-up power is provided for all treatment units at the WWTP.
10. Biosolids are to be removed periodically from the lagoons as maintenance requires.
11. ICGSA has submitted a workplan to install a groundwater monitoring system in the vicinity of the WWTP. The workplan proposes four monitoring well and includes well design, and a list of constituents proposed for monitoring. Groundwater monitoring well locations are shown in the Monitoring Well Site Plan (Attachment C), incorporated herein and made a part of this Order by reference.

Hydrogeologic Conditions

12. Rainfall in the Imperial Valley averages about three inches per year. The project area experiences few storm events with significant intensity. Typically, storm events occur in late summer / early fall and mid-winter. The resulting runoff volumes are generally low due to flat grades and existing agricultural uses.
13. The depth to groundwater in the vicinity of the proposed wastewater treatment plant is approximately 12 feet.

14. United States Geological Survey and Imperial County Planning Department records indicate no water wells within a two mile radius of the wastewater treatment plant site.
15. Data submitted in the Discharger's Self-Monitoring Reports (SMRs) from October 2008 through September 2013 show that water supply to the community has a total dissolved solids (TDS) concentration that ranges from 566 to 846 mg/L with an average 739 mg/L.
16. A groundwater investigation at the site performed on September 22, 2009, using three groundwater monitoring wells, produced the results shown in the following table:

Constituent	Units	GW Well P-1	GW Well P-2	GW Well P-3
Antimony	mg/L ¹	<0.500	<0.500	<0.500
Arsenic	mg/L	<1.00	<1.00	<1.00
Barium	mg/L	0.42	0.26	0.43
Beryllium	mg/L	<0.050	<0.050	<0.050
Cadmium	mg/L	<0.10	<0.10	<0.10
Chromium	mg/L	<0.050	<0.050	<0.050
Cobalt	mg/L	<0.10	<0.10	<0.10
Copper	mg/L	<0.100	<0.100	<0.100
Lead	mg/L	<0.500	<0.500	<0.500
Mercury	mg/L	<0.002	<0.002	<0.002
Molybdenum	mg/L	<0.20	<0.20	<0.20
Nickel	mg/L	<0.20	<0.20	<0.20
Selenium	mg/L	<2.00	<2.00	<2.00
Silver	mg/L	<0.10	<0.10	<0.10
Thallium	mg/L	<4.00	<4.00	<4.00
Vanadium	mg/L	<0.10	<0.10	<0.10
Zinc	mg/L	<1.00	<1.00	<1.00
Calcium	mg/L	433	289	490
Magnesium	mg/L	228.4	132	260
Sodium	mg/L	731	551	820
Potassium	mg/L	13.85	28.15	14.1
Bicarbonate	mg/L	301	333	337
Sulfate	mg/L	1682	1300	1560
Chloride	mg/L	1027	612	1440
Nitrate	mg/L	140	148	156
Nitrite	mg/L	ND	ND	ND
Fluoride	mg/L	0.52	0.78	0.57
pH	s.u. ²	8.00	7.97	7.99
Specific Conductivity	mhos/cm ³	3170	1898	3460
Total Dissolved Solids	mg/L	4534	2762	4798
Hardness	mg/L	1400	924	1684

1 milligrams per Liter.

2 standard units.

3 micromhos per centimeter.

17. Groundwater flow in the area of the WWTP is to the northeast toward the Alamo River.
18. The site is located in a seismically active desert region.

Basin Plan, Beneficial Uses, and Regulatory Considerations

19. The Basin Plan designates beneficial uses and establishes water quality objectives for ground and surface waters in the Region, and contains implementation programs and policies to achieve objectives. In addition, State Water Resources Control Board (State Water Board) Resolution 88-63 requires that, with certain exceptions, the Regional Water Board assign the municipal and domestic supply use to water bodies that do not have beneficial uses listed in the Basin Plan.
20. The designated beneficial uses of ground waters in the Imperial Hydrologic Unit are:
 - a. Municipal supply (MUN)¹ and
 - b. Industrial supply (IND)
21. The designated beneficial uses of the Alamo River are:
 - a. Freshwater Replenishment (FRSH),
 - b. Water Contact Recreation (RECI),
 - c. Non-Contact Water Recreation (RECII),
 - d. Warm Freshwater Habitat (WARM),
 - e. Hydropower Generation (POW), and
 - f. Preservation of Rare, Threatened, or Endangered Species (RARE)
22. WDRs implement numeric and narrative water quality objectives for ground and surface waters established by the Basin Plan. The numeric objectives for groundwater designated for municipal and domestic supply are the maximum contaminant levels (MCL), and bacteriological limits specified in Section 64421 et seq. of Title 22, California Code of Regulations (CCR). The narrative objectives are:
 - a. Ground water for use as domestic or municipal water supply (MUN) shall not contain taste or odor-producing substances in concentrations that adversely affect beneficial uses as a result of human activity (Basin Plan, page 3-8).
 - b. Discharges of water softener regeneration brines, other mineralized wastes, and toxic wastes to disposal facilities which ultimately discharge in areas where such wastes can percolate to ground water usable for domestic and municipal purposes are prohibited (Basin Plan, page 3-8).
23. Section 13267 of the California Water Code (CWC) authorizes the Regional Water Boards

¹ With respect to the MUN designation, the Basin Plan states: "At such time as the need arises to know whether a particular aquifer which has no known existing MUN use should be considered as a source of drinking water, the Regional Board will make such a determination based on the criteria listed in the 'Sources of Drinking Water Policy' in Chapter 2 of the Basin Plan. An indication of MUN for a particular hydrologic unit indicates only that at least one of the aquifers in that unit currently supports a MUN beneficial use. For example, the actual MUN usage of the Imperial Hydrologic Unit is limited only to a small portion of that ground water unit."

to require technical and monitoring reports. The Monitoring and Reporting Program (MRP) establishes monitoring and reporting requirements to implement federal and state requirements.

24. This Order establishes WDRs pursuant to Division 7, Chapter 4, Article 4, of the CWC for discharges that are not subject to regulation under Clean Water Act (CWA) Section 402 (33 U.S.C. Section 1342).
25. Pursuant to CWC section 13263(g), the discharge of waste is a privilege, not a right, and adoption of this Order does not create a vested right to continue the discharge.
26. The discharge authorized by this Board Order, and treatment and treatment and storage facilities associated with discharges of treated municipal wastewater, except for discharges of residual sludge and solid waste, are exempt from the requirements of Consolidated Regulations for Treatment, Storage, Processing, or Disposal of Solid Waste, as set forth in Title 27, CCR, Division 2, Subdivision 1, commencing with section 20005. This exemption is based on Section 20090(a) of Title 27, which states in relevant part that discharges of domestic sewage or treated effluent are exempt provided that such discharges are regulated by WDRs, or for which WDRs have been waived, and which are consistent with applicable water quality objectives, and treatment or storage facilities associated with municipal wastewater treatment plants, provided that residual sludges or solid waste from wastewater treatment facilities shall be discharged only in accordance with the applicable Title 27 provisions. These requirements have been met. The discharge is domestic sewage, this Board Order regulates that discharge in a manner consistent with applicable surface and ground water quality objectives, and residual sludges or solid waste from the Facility will be managed pursuant to Title 27.

Groundwater Degradation

27. State Water Resources Control Board (State Water Board) Resolution 68-16 ("Policy with Respect to Maintaining High Quality Waters of the State"), hereinafter Resolution 68-16 states:

"Whenever the existing quality of water is better than the quality established in policies as of the date on which such policies become effective, such existing high quality will be maintained until it has been demonstrated to the State that any change will be consistent with maximum benefit to the people of the State, will not unreasonably affect present and anticipated beneficial use of such water and will not result in water quality less than that prescribed in the policies."

Resolution 68-16 further states:

"Any activity which produces or may produce a waste or increased volume or concentration of waste and which discharges or proposes to discharge to existing high quality waters will be required to meet waste discharge requirements which will result in the best practicable treatment or control of the discharge necessary to assure that (a) a pollution or nuisance will not occur and (b) the highest water quality consistent with maximum benefit to the people of the State will be maintained."

28. Some degradation of groundwater from the discharge to the evaporation/infiltration ponds is consistent with Resolution 68-16, provided that the degradation:

- a. Is confined to a reasonable area;
 - b. Is minimized by means of full implementation, regular maintenance, and optimal operation of BPTC measures;
 - c. Is limited to waste constituents typically encountered in domestic wastewater; and
 - d. Does not result in the loss of any beneficial use as prescribed in the applicable basin plan, or violation of any water quality objective.
29. The discharge of wastewater from the WWTP, as permitted herein, reflects BPTC. The controls assure the discharge does not create a condition of pollution or nuisance, and that water quality will be maintained which is consistent with the anti-degradation provisions of Resolution No. 68-16. The WWTP incorporates:
- a. Technology for secondary treated domestic wastewater;
 - b. Solids handling facilities;
 - c. An operation and maintenance manual;
 - d. Staffing to assure proper operation and maintenance; and
 - e. A standby emergency power generator of sufficient size to operate the treatment plant and ancillary equipment during periods of loss of commercial power.
30. Constituents in domestic WWTP effluent that present the greatest risk to groundwater quality are nitrogen, coliforms (pathogen-indicator organisms), and dissolved salts (TDS). The existing WWTP provides substantial removal of soluble organic matter, solids, and nitrogen. Monitoring data from November 2008 through October 2013 show an average effluent Total Nitrogen concentration of 17 mg/L. The Water Quality Objective for Total Nitrogen, specified in the Basin Plan for groundwater, is the Title 22 MCL of 10 mg/L. Therefore, the average Total Nitrogen concentration exceeds the Water Quality Objective by 70 per cent. With respect to coliforms, secondary treatment reduces fecal coliform densities by 90 to 99%. However, the remaining organisms in effluent are still 10^5 to 10^6 MPN/100 ml (United States Environmental Protection Agency, Design Manual, Municipal Wastewater Disinfection; October 1986). Therefore, due to the shallow depth to groundwater (12 feet), it is likely that some fraction of these remaining organisms will reach groundwater. With respect to dissolved salts (TDS), groundwater at the WWTP site is too saline for municipal use. This conclusion is based on the results the groundwater investigation at the site that was performed on September 22, 2009. The results of that investigation were previously described in detail in the table accompanying Finding 16, above. TDS values reported at the three monitoring wells sampled revealed concentrations ranging from 2762 mg/L to 4798 mg/L. To address the potential contamination by nitrogen, pathogens, and TDS to groundwater and to the Alamo River, the Discharger will be required in this Board Order to construct a representative groundwater monitoring network and to perform groundwater monitoring along the Facility boundary with the Alamo River and at an upgradient location. Groundwater monitoring is expected to begin 30 days after adoption of this Board Order to provide a background or baseline condition for these and other constituents of concern specified in the MRP.

CEQA and Public Participation

31. The Imperial County Planning Department circulated a Program Environmental Impact Report (PEIR, State Clearing House No. 1996021019) for public review and comment. The Imperial County Planning Department indicated that the PEIR complies with all criteria, standards, and procedures of the California Environmental Quality Act (California Public Resources Code, Section 21000 et seq.), the state CEQA Guidelines (California Code of Regulations, Sections 15000 et seq.), and Imperial County's implementing guidelines. On August 26, 1997, the Board of Supervisors of the County of Imperial approved the Certification of the PEIR as recommended by the Planning Commission with the adoption of Resolution 97-073 ("Resolution of the Imperial County Board of Supervisors Certifying the Final Program Environmental Impact report for the Gateway of the Americas Project") and Findings of Fact, Statement of Overriding Considerations, and Mitigation Monitoring and Reporting Program.
32. On January 30, 2009, the County Clerk, County of Imperial, posted a Notice of Exemption (NOE) filed by Imperial County Public Works Department stating that the proposed expansion of the publicly-owned utility used to provide sewerage was environmentally assessed under the Environmental Impact Report for the Gateway Specific Plan. The NOE cites a categorical exemption under Section 15301(b) of the CEQA Guidelines, which governs the operation of an existing public utilities services facility involving negligible or no expansion of use beyond that previously existing.
33. As a Responsible Agency under CEQA, the Colorado River Basin Water Board complies with CEQA by considering the EIR or Negative Declaration prepared by the Lead Agency and by reaching its own conclusions on whether and how to approve the project involved. The Board conducted this CEQA review prior to adoption of the first set of WDRs on June 20, 1999, Order No. 99-042, by reviewing the County's 1997 PEIR. In that Order the Board concluded in Finding No. 9 that compliance with specified requirements in the Order would mitigate or avoid adverse impacts on water quality. Accordingly, having complied with CEQA, the Board adopted Order No. 99-042. Although Finding No. 9 was based on the Phase I project's initial proposed discharge of 0.0315 MGD, the 1997 PEIR evaluated the potential wastewater impacts for a Phase I development that was anticipated to generate up to 0.500 MGD of effluent (PEIR, p. 4.3-8). In addition, the PEIR explained that the wastewater treatment system would utilize an "Advanced Integrated Pond System" that could add additional treatment modules to provide additional treatment capacity. (PEIR, pp. 3-20 and 4.3-8.) However, the PEIR also stated that "[t]reated wastewater would be discharged into the adjacent Alamo River." (PEIR, p. 3-20.)
34. Because the Lead Agency, the County of Imperial, prepared and certified the 1997 PEIR, the County may rely on that document for a later activity so long as the activity is within the scope of the program approved earlier and the PEIR adequately described the activity for the purposes of CEQA. (CEQA Guidelines Section 15168, subdivisions (c) and (e).) If a later activity would have effects that were not examined in the program EIR, however, a new Initial Study would need to be prepared leading to either an EIR or a Negative Declaration. (Id., subd. (c)(1).) Alternatively, if the agency finds that pursuant to CEQA Guidelines Section 15162 ("Subsequent EIRs and Negative Declarations"), no new effects could occur or no new mitigation measures would be required, the agency can approve the activity as being within the scope of the project covered by the program EIR, and no new environmental document would be required. (Id., subd. (c)(2).) Although the County filed the NOE in 2009, concluding that the current project was categorically exempt under

CEQA Guidelines Section 15301(b) (existing facilities exemption involving negligible or no expansion of use), the NOE is not, by definition, an “environmental document” upon which the Board can rely for complying with CEQA. (CEQA Guidelines Section 15361.) Instead, the Board must independently determine, based on substantial evidence in light of the whole record, whether the current project qualifies for a categorical exemption.

35. In its review of the PEIR, the Board has concluded that the proposed project to increase the discharge from the currently permitted 0.10 MGD to 0.20 MGD is still within the discharge range evaluated in the PEIR of 0.50 MGD. Based on discharge volume alone, the proposed project is well within the scope of the program approved by the County in 1997, and thus, appears to be categorically exempt under CEQA Guidelines Section 15301(b). However, the PEIR contemplated a discharge of the treated effluent into the Alamo River. The proposed project contemplates discharging the proposed greater volume of effluent into five new infiltration/percolation ponds to supplement the existing two infiltration/percolation ponds. Even though the PEIR was predicated on a different disposal methodology—disposal into the Alamo River—this does not necessarily mean that the currently proposed disposal method has the potential for causing a significant impact on the environment. In fact, just as the Board reasoned in Finding No. 9 in Board Order No. 99-042, it is expected that compliance with this Order would similarly mitigate or avoid any adverse impacts. However, to validate this expectation, this Order will require the Discharger to conduct special studies regarding hydrology and water quality to ensure that potential water quality impacts, if any, associated with this specific project will be adequately assessed and mitigated, as necessary.
36. The Board has notified the Discharger and all known interested agencies and persons of its intent to draft WDRs for this discharge, and has provided them with an opportunity for a public meeting and an opportunity to submit comments.
37. The Board, in a public meeting, heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED, that Board Order R7-2009-0064 is rescinded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the CWC and regulations adopted thereunder, the Discharger shall comply with the following:

A. Discharge Prohibitions

1. Discharge of waste classified as “hazardous”, as defined in Title 23, CCR, Section 2521(a), or “designated”, as defined in California Water Code Section 13173, is prohibited.
2. Discharge of treated wastewater at a location other than the designated disposal areas is prohibited.
3. The WWTP shall be maintained to prohibit sewage or treated effluent from surfacing or overflowing.
4. The discharge of any wastewater from the facility to any surface waters or surface drainage courses is prohibited.
5. The Discharger shall not accept waste in excess of the design treatment capacity of the

disposal system.

6. The discharge of waste to land not owned or authorized for such use by the Discharger is prohibited.
7. Surfacing or ponding of wastewater outside of the designated disposal locations is prohibited.
8. Bypass or overflow of untreated or partially treated waste is prohibited.

B. Effluent Limitations

1. Effluent discharged to the evaporation ponds for disposal shall not exceed the following effluent limits:

<u>Constituent</u>	<u>Units</u>	<u>Monthly Average</u>	<u>Weekly Average</u>
20° C BOD ₅ ²	mg/L	45	65
Total Suspended Solids (TSS)	mg/L	95	---
Settleable Matter	ml/L ³	0.3	0.5

¹ 5-day Biochemical Oxygen Demand at 20 degrees Celsius.

² milliliters per Liter.

2. The 30-day monthly average daily discharge from the WWTP shall not exceed 0.20 MGD.
3. Effluent from the WWTP shall not have a pH below 6.0 or above 9.0 standard units.
4. The evaporative/storage basins shall be maintained so they will be kept in aerobic conditions. The dissolved oxygen content in the upper zone (one foot) of evaporative/storage basins shall not be less than 1.0 mg/L.

C. Discharge Specification

1. The treatment or disposal of wastes from the facility shall not cause pollution or nuisance as defined in Sections 13050(l) and 13050(m) of Division 7 of the California Water Code.
2. A minimum depth of two (2) feet of freeboard shall be maintained at all times in facultative ponds and evaporative/storage basins.
3. All treatment, storage, and disposal areas shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.
4. Ponds shall have sufficient capacity to accommodate allowable wastewater flow, design seasonal precipitation, ancillary inflow, and infiltration during the non-irrigation season. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns.
5. Public contact with non-disinfected wastewater shall be precluded through such means as fences, signs, and other acceptable alternatives.

6. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the wastewater treatment and disposal area.

D. Groundwater Limitations

1. Discharge from the WWTP shall not cause groundwater to:
 - a. Contain waste constituents in concentrations statistically greater than background water quality.
 - b. Contain constituents in excess of California Maximum Contaminant Levels (MCLs), as set forth in the California Code of Regulations, Title 22, Section 64426.1 for bacteriological constituents; Section 64431 for inorganic chemicals; Section 64432.1 for nitrates; and Section 64444 for organic chemicals.
 - c. Acquire taste, odor, toxicity, or color that creates nuisance or impairs beneficial use.

E. Provisions

Special Provisions

1. The Discharger shall construct a groundwater monitoring system for the purpose of collecting groundwater monitoring samples. Groundwater monitoring shall be as specified in Monitoring and Reporting Program R7-2014-0015 and revisions thereto. The Discharger shall begin collection of groundwater samples within 30 days of adoption of this Board Order.
2. The Discharger shall conduct a study to determine if groundwater mounding and groundwater seepage caused by the discharge is occurring and, if so, their effects on groundwater quality. The study shall span a time period of five years. Annual reports shall be submitted providing an analysis of the findings to date. A final report shall be submitted that provides an analysis of the results of the study. At a minimum the study shall provide the following information:
 - a. Groundwater mounding caused by the discharge, if any. The analysis shall provide a discussion of the effects of mounding as the effluent flow rates increase to a projected discharge rate of 0.20 MGD.
 - b. Groundwater mounding caused by the discharge, if any. The analysis shall provide a discussion of the effects of mounding as the effluent flow rates increase to a projected discharge rate of 0.20 MGD.
 - c. Groundwater seepage into the Alamo River, if any. The analysis shall provide a discussion of the effects of seepage as the effluent flow rates increase to a projected discharge rate of 0.20 MGD.
 - d. Annual summary reports of water quality impacts by total nitrogen, pathogens and TDS, to groundwater and the Alamo River. The summary report shall specifically address pathogen transport through groundwater to the Alamo River.

Standard Provisions

3. The Discharger shall comply with all of the conditions of this Board Order. Noncompliance is a violation of the Porter-Cologne Water Quality Control Act (CWC Section 13000 et seq.), and is grounds for enforcement action.

4. The Discharger shall comply with Monitoring and Reporting Program (MRP) R7-2014-0015, and future revisions thereto, as specified by the Colorado River Basin Water Board Executive Officer.
5. The Discharger shall not cause degradation of any water supply in accordance with State Water Resources Control Board Resolution 68-16.
6. Standby, power generating facilities shall be available to operate the plant during a commercial power failure.
7. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.
8. The WWTP shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Section 3680, Chapter 26, Division 3, Title 23 of the California Code of Regulations.
9. The Discharger shall at all times properly operate and maintain all systems and components of collection, treatment and control, installed or used by the Discharger to achieve compliance with this Board Order. Proper operation and maintenance includes effective performance, adequate process controls, and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities/systems when necessary to achieve compliance with this Board Order. All systems in service or reserved shall be inspected and maintained on a regular basis. Records of inspections and maintenance shall be retained, and made available to the Colorado River Basin Water Board Executive Officer on request.
10. The Discharger shall ensure that all site-operating personnel are familiar with the content of this Board Order, and shall maintain a copy of this Board Order at the site.
11. The Discharger shall allow the Colorado River Basin Water Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter the premises regulated by this Board Order, or the place where records are kept under the conditions of this Board Order;
 - b. Have access to and copy, at reasonable times, records kept under the conditions of this Board Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order; and
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the CWC, any substances or parameters at this location.
12. Ponds shall be managed to prevent breeding of mosquitoes. In particular,
 - a. An erosion control program should assure that small coves and irregularities are not created around the perimeter of the water surface.
 - b. Weeds shall be minimized through control of water depth, harvesting, or herbicides.
 - c. Dead algae, vegetation, and debris shall not accumulate on the water surface.

13. Disposal of oil and grease, biosolids, screenings, and other solids collected from liquid wastes shall be pursuant to Title 27, and the review and approval of the Colorado River Basin Water Board Executive Officer.
14. Any proposed change in use or disposal of biosolids requires the approval of the Colorado River Basin Water Board Executive Officer, and U.S. Environmental Protection Agency Regional Administrator, who must be notified at least 90 days in advance of the change.
15. Sludge use and disposal shall comply with Federal and State laws and regulations, including permitting requirements, and technical standards in 40 CFR Part 503. If the State and Regional Water Boards are delegated the authority to implement 40 CFR Part 503 regulations, this Order may be revised to incorporate appropriate time schedules and technical standards. The Discharger shall comply with the standards and time schedules in 40 CFR part 503, whether or not part of this Order.
16. The Discharger shall provide a plan as to the method, treatment, handling and disposal of sludge that is consistent with all State and Federal laws and regulations and obtain prior written approval from the Colorado River Basin Water Board specifying location and method of disposal, before disposing of treated or untreated sludge, or similar solid waste.
17. The Discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide a summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agricultural, composting, etc.), and the destination in accordance with the MRP of this Board Order. Sludge that is stockpiled at the treatment facility shall be sampled and analyzed for those constituents listed in the sludge monitoring section of the MRP of this Board Order and as required by Title 40, Code of Federal Regulations, Part 503. The results of the analyses shall be submitted to the Regional Board as part of the MRP.
18. The Discharger shall provide a report to the Colorado River Basin Water Board when it determines that the plant's average dry-weather flow rate for any month exceeds 80 percent of the design capacity. The report should indicate what steps, if any, the discharger intends to take to provide for the expected wastewater treatment capacity necessary when the plant reaches design capacity.
19. Prior to implementing a modification that results in a material change in the quality or quantity of wastewater treated or discharged, or a material change in the location of discharge, the Discharger shall report all pertinent information in writing to the Colorado River Basin Water Board, and obtain revised requirements.
20. Prior to a change in ownership or management of WWTP, the Discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Colorado River Basin Water Board.
21. The Discharger shall provide adequate notice to the Colorado River Basin Water Board Executive Officer of the following:
 - a. The introduction of pollutants into any treatment facility described in the Findings of this Board Order from an indirect Discharger which would be subject to Section 301 or 306 of the Clean Water Act, if the pollutants were discharged directly;
 - b. Any substantial change in the volume or character of pollutants introduced into any

- treatment facility described in the Findings of this Board Order, by an existing or new source; and
- c. Any planned physical alteration or addition to the facilities described in this Board Order, or change planned in the Discharger's sludge use or disposal practice, where such alterations, additions, or changes may justify the application of Board Order conditions that are different from or absent in the existing Board Order, including notification of additional disposal sites not reported during the Board Order application process, or not reported pursuant to an approved land application plan.
22. The Discharger shall report orally, any noncompliance that may endanger human health or the environment. The noncompliance shall be reported immediately to the Colorado River Basin Water Board Executive Officer, and the Office of Emergency Services as soon as:
- a. The Discharger has knowledge of the discharge,
 - b. Notification is possible, and
 - c. Notification will not substantially impede cleanup or other emergency measures.

During non-business hours, the Discharger shall leave a message on the Regional Water Board office voice recorder at (760) 346-7491. A written report shall also be provided within five (5) business days of the time the discharger becomes aware of the incident. The written report shall contain a description of the noncompliance and its cause, the period of noncompliance, the anticipated time to achieve full compliance, and the steps taken or planned, to reduce, eliminate, and prevent recurrence of the noncompliance. The discharger shall report all intentional or unintentional spills in excess of one thousand (1,000) gallons occurring within the facility or collection system to the Regional Board office in accordance with the above time limits.

23. The Discharger shall report all instances of noncompliance. Reports of noncompliance shall be submitted with the Discharger's next scheduled SMRs or earlier if requested by the Colorado River Basin Water Board Executive Officer, or if required by an applicable standard for sludge use and disposal.
24. By-pass (i.e., the intentional diversion of waste streams from any portion of the treatment facilities, except diversions designed to meet variable effluent limits) is prohibited. The Colorado River Basin Water Board may take enforcement action against the Discharger for by-pass unless:
- a. By-pass was unavoidable to prevent loss of life, personal injury, or severe property damage. Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to be inoperable, or substantial and permanent loss of natural resources reasonably expected to occur in the absence of a by-pass. Severe property damage does not mean economic loss caused by delays in production; and
- There were no feasible alternatives to by-pass, such as the use of auxiliary treatment facilities or retention of untreated waste. This condition is not satisfied if adequate back-up equipment was not installed to prevent by-pass occurring during equipment downtime, or preventive maintenance.
- b. By-pass is:

- i. Required for essential maintenance to assure efficient operation; and
 - ii. Neither effluent nor receiving water limitations are exceeded; and
 - iii. The Discharger notifies the Colorado River Basin Water Board ten (10) days in advance.
25. In the event of an unanticipated by-pass, the Discharger shall immediately report the incident to the Colorado River Basin Water Board. During non-business hours, the Discharger shall leave a message on the Colorado River Basin Water Board office voice recorder. A written report shall be provided within five (5) business days the Discharger is aware of the incident. The written report shall include a description of the by-pass, any noncompliance, the cause, period of noncompliance, anticipated time to achieve full compliance, and steps taken or planned, to reduce, eliminate, and prevent recurrence of the noncompliance.

Stormwater

26. All storm water discharges from this facility must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies, regarding discharges of storm water to storm water drain systems or other courses under their jurisdiction.
27. Storm water discharges from the facility shall not cause or threaten to cause pollution or contamination.
28. Storm water discharges from the facility shall not contain hazardous substances equal to or in excess of a reportable quantity listed in 40 CFR Part 117 and/or 40 CFR Part 302.

Pretreatment

29. In the event that the facility has an average dry weather flow or treatment capacity of 5 MGD or more and Industrial Users [40 CFR 403.3(h)] are discharging pollutants which Pass Through [40 CFR 403.3(n)] or Interfere [40 CFR 403.3(i)] with the operation of the wastewater treatment facility or are otherwise subject to National Pretreatment Standards [40 CFR 403.3(j)], (ii) California Code of Regulations, Title 23, Section 2233 requires the facility to have and enforce an adequate pretreatment program, or (iii) the Colorado River Basin Water Board or its Executive Officer determines that other circumstances warrant, then:
- a. The discharger shall notify the Colorado River Basin Water Board within 30 days after there are discharges that trigger the pretreatment requirements.
 - b. The Discharger shall submit a revised Report of Waste Discharge and the pretreatment program for the Board review and approval as soon as possible but not later than one (1) year of the notice of pretreatment requirements.
 - c. The Discharger shall enforce the federal categorical pretreatment standards on all Categorical Industrial Users (CIUs).
 - d. The Discharger shall notify the CIU of its discharge effluent limits. The limits must be as stringent as the pretreatment standards contained in the applicable federal category (40 CFR Part 400-699). The discharger may develop more stringent, technically based local limits if it can show cause.
 - e. The Discharger shall notify the Board if the CIU violates its discharge effluent limits.

30. The Discharger shall provide the Colorado River Basin Water Board with an annual report describing the pretreatment program activities over the previous 12-month period. The report shall be transmitted to the Board office no later than January 31 of each year and include:
 - a. A summary of actions taken by the discharger which ensures industrial-user compliance;
 - b. An updated list of industrial users (by Standard Industrial Classification categories) which were issued permits, and/or enforcement orders, and a status of compliance for each user; and
 - c. The name and address of each user that received a revised discharge limit.
31. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
32. This Board Order does not convey property rights of any sort, or exclusive privileges, nor does it authorize injury to private property or invasion of personal rights, or infringement of federal, state, or local laws or regulations.
33. This Board Order may be modified, rescinded, or reissued, for cause. The filing of a request by the Discharger for a Board Order modification, rescission or reissuance, or notification of planned changes or anticipated noncompliance, does not stay any Board Order condition. Causes for modification include a change in land application plans, or sludge use or disposal practices, and adoption of new regulations by the State or Regional Water Board (including revisions to the Basin Plan), or Federal government.

I, Robert Perdue, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on January 16, 2014.

Ordered By: Original signed by
ROBERT PERDUE
Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM R7-2014-0015
FOR
IMPERIAL COUNTY GATEWAY SERVICES AREA, OWNER
ROCKY VANDERGRIFF WATER TREATMENT SERVICES, OPERATOR
GATEWAY OF THE AMERICAS WASTEWATER TREATMENT PLANT
East of Calexico - Imperial County

Location of Wastewater Treatment Facilities and Discharges:
Latitude/Longitude: 32° 41' 02"N, 115° 22' 18"W

A. Monitoring

1. This Monitoring and Reporting Program (MRP) describes requirements for monitoring a wastewater system and groundwater quality (when needed). This MRP is issued pursuant to California Water Code (CWC) section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.
2. Water Code section 13267 states, in part:

“In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.”
3. Water Code section 13268 states, in part:

“(a) (1) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of § 13267, or failing or refusing to furnish a statement of compliance as required by subdivision (b) of Section 13399.2, or falsifying any information provided therein, is guilty of a misdemeanor, and may be liable civilly in accordance with subdivision (b). (b) (1) Civil liability may be administratively imposed by a regional board in accordance with Article 2.5 (commencing with § 13323) of Chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars (\$1,000) for each day in which the violation occurs.”
4. The Discharger owns and operates the wastewater system that is subject to Board Order R7-2014-0015. The reports are necessary to ensure that the Discharger complies with the Order. Pursuant to Water Code Section 13267, the Discharger shall implement the MRP and shall submit the monitoring reports described herein.

5. All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Colorado River Basin Water Board staff.
6. Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that:
 - a. The user is trained in proper use and maintenance of the instruments;
 - b. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
 - c. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
 - d. Field calibration reports are submitted as described in the "Reporting" section of this MRP.
7. The collection, preservation and holding times of all samples shall be in accordance with United States Environmental Protection Agency (USEPA) approved procedures. Unless otherwise approved by the Regional Water Board's Executive Officer, all analyses shall be conducted by a laboratory certified by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of the "Guidelines Establishing Test Procedures for Analysis of Pollutants" (40 CFR Part 136), promulgated by the USEPA.
8. All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. In the event that continuous monitoring equipment is out of service for period greater than 24-hours, the Discharger shall obtain representative grab samples each day the equipment is out of service. The Discharger shall correct the cause(s) of failure of the continuous monitoring equipment as soon as practicable. The Discharger shall report the period(s) during which the equipment was out of service and if the problem has not been corrected, shall identify the steps which the Discharger is taking or proposes to take to bring the equipment back into service and the schedule for these actions.
9. Samples shall be collected at the location specified in the WDRs. If no location is specified, sampling shall be conducted at the most representative sampling point available.
10. Given the monitoring frequency prescribed by MRP R7-2014-0015, if only one sample is available for a given reporting period, compliance with monthly average, or weekly average Discharge Specifications, will be determined from that sample.
11. The Discharger shall comply with the following:
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - b. The Discharger shall retain records of all monitoring information, copies of all reports required by this Board Order, and records of all data used to complete the application for this Board Order, for a period of at least 5 years from the date of the sample,

measurement, report or application.

- c. Records of monitoring information shall include:
- i. The date, exact place, and time of sampling or measurements.
 - ii. The individual(s) who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) who performed the analyses.
 - v. The analytical techniques or methods used; and
 - vi. The results of such analyses.

12. If the facility is not in operation, or there is no discharge during a required reporting period, the Discharger shall forward a letter to the Regional Water Board indicating that there has been no activity during the required reporting period.

Influent Monitoring

13. Influent to the WWTP shall be monitored according to the following schedule:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
Flow	MGD ¹	Meter Reading	Daily	Monthly
20°C BOD ₅ ²	mg/L ³	24-Hr. Composite	Monthly	Monthly
Total Suspended Solids	mg/L	24-Hr. Composite	Monthly	Monthly

¹ Million Gallons per Day

² 5-day Biochemical Oxygen Demand at 20 degrees Celsius.

³ milligrams per Liter

WWTP Effluent Monitoring

14. Effluent from the WWTP shall be monitored according to the following schedule:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
Hydrogen Ion (pH)	s.u. ⁴	Grab at Peak Flow	Weekly	Monthly
20°C BOD ₅	mg/L	24 Hr. Composite	Monthly	Monthly
Total Suspended Solids	mg/L	24 Hr. Composite	Monthly	Monthly
Settleable Solids	ml/L ⁵	24 Hr. Composite	Monthly	Monthly
Total Dissolved Solids	mg/L	Grab	Monthly	Monthly
Nitrate (As NO ₃)	mg/L	Grab	Monthly	Monthly

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
Total Nitrogen	mg/L	Grab	Monthly	Monthly
Ammonia	mg/L	Grab	Monthly	Monthly
Phosphate (As PO ₄)	mg/L	Grab	Monthly	Monthly
Total Coliforms	MPN/100mL ⁶	Grab	Monthly	Monthly
Fecal Coliforms	MPN/100mL	Grab	Monthly	Monthly
Volatile Organics (EPA Methods 601, 602)	µg/L ⁷	Grab	Annually	Annually
Pesticides (EPA Method 608)	µg/L	Grab	Annually	Annually

⁴ standard units.

⁵ milliliters per liter

⁶ Most Probable Number per 100 milliliters

⁷ micrograms per liter

Water Supply to the Community

15. The domestic water supply shall be monitored according to the following schedule:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
TDS	mg/L	Grab	Monthly	Monthly

Groundwater Monitoring

16. The Discharger shall monitor groundwater wells MW-1, 2, 3 and 4 according to the following schedule:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
Depth to Groundwater (bgs) ⁸	ft	measurement	Monthly ⁹	Monthly ⁹
Total Dissolved Solids	mg/L	Grab	Monthly ⁹	Monthly ⁹
Total Nitrogen	mg/L	Grab	Monthly ⁹	Monthly ⁹
Nitrate as N	mg/L	Grab	Monthly ⁹	Monthly ⁹
pH	mg/L	Grab	Monthly ⁹	Monthly ⁹
Total Coliforms	MPN/100 mL ¹⁰	Grab	Monthly ⁹	Monthly ⁹
Fecal Coliforms	MPN/100mL	Grab	Monthly	Monthly
General Minerals ¹¹	mg/L	Grab	Annually	Annually

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
VOCs	µg/L	Grab	Annually	Annually

⁸ Below ground surface.

⁹ The Discharger may request to have the monitoring and reporting frequency revised after 24 months of continuous monitoring.

¹⁰ Most Probable Number per 100 milliliters

¹¹ At a minimum, Standard Minerals shall include: calcium, chloride, fluoride, iron, magnesium, manganese, nitrate, potassium, sodium, sulfate, barium, total alkalinity, and hardness.

Sludge Monitoring

17. The Discharger shall report annually on the quantity, location and method of disposal of all sludge and similar solid materials being produced at the WWTP. If no sludge is disposed of during the year being reported, the Discharger shall state "No Sludge Removed" in the annual monitoring report. Sludge that is generated at the WWTP shall be sampled and analyzed for the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
Arsenic	mg/kg ¹²	Composite	Annually	Annually
Cadmium	mg/kg	Composite	Annually	Annually
Copper	mg/kg	Composite	Annually	Annually
Lead	mg/kg	Composite	Annually	Annually
Mercury	mg/kg	Composite	Annually	Annually
Molybdenum	mg/kg	Composite	Annually	Annually
Nickel	mg/kg	Composite	Annually	Annually
Selenium	mg/kg	Composite	Annually	Annually
Zinc	mg/kg	Composite	Annually	Annually
Fecal Coliform	MPN/gram ¹³	Composite	Annually	Annually

¹² milligrams per kilogram.

¹³ Below ground surface.

B. Reporting

1. The Discharger shall inspect and document any operation/maintenance problems by inspecting each unit process. In addition, calibration of flow meters and equipment shall be performed in a timely manner and documented. Operation and Maintenance reports shall be submitted to the Colorado River Basin Water Board Office annually.
2. The Discharger shall arrange the data in Self-Monitoring Reports (SMRs) in tabular form so that the specified information is readily discernible. The data shall be summarized in

such a manner as to clearly illustrate whether the facility is operating in compliance with WDRs. Where appropriate, the Discharger shall include supporting calculations (e.g., for monthly averages).

3. The results of any analysis taken, more frequently than required at the locations specified in this MRP shall be reported to the Colorado River Basin Water Board.
4. SMRs shall be certified under penalty of perjury to be true and correct, and shall contain the required information at the frequency designated in this MRP.
5. Each Report shall contain the following statement:

"I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations".

6. The SMRs, and other information requested by the Colorado River Basin Water Board, shall be signed by a principal executive officer or ranking elected official.
7. A duly authorized representative of the Discharger may sign the documents if:
 - a. The authorization is made in writing by the person described above;
 - b. The authorization specified an individual or person having responsibility for the overall operation of the regulated disposal system; and
 - c. The written authorization is submitted to the Colorado River Basin Water Board's Executive Officer.
8. The Discharger shall report any failure in the facility (wastewater treatment plant, and collection and disposal systems). The incident shall be reported immediately to the Colorado River Basin Water Board Executive Officer as soon as:
 - a. The Discharger has knowledge of the discharge,
 - b. Notification is possible, and
 - c. Notification will not substantially impede cleanup or other emergency measures.

Results of analyses performed shall be provided within 15 days of sample collection.

9. The Discharger shall attach a cover letter to the SMRs. The information contained in the cover letter shall clearly identify violations of the WDRs, discuss corrective actions taken or planned and the proposed time schedule of corrective actions. Identified violations should include a description of the requirement that was violated and a description of the violation.
10. Daily, weekly, and monthly monitoring shall be included in the monthly monitoring report. Monthly monitoring reports shall be submitted to the Colorado River Basin Water Board by the 15th day of the following month. Quarterly monitoring reports shall be submitted by January 15th, April 15th, July 15th and October 15th. Annual monitoring reports shall be submitted by January 15th of the following year.

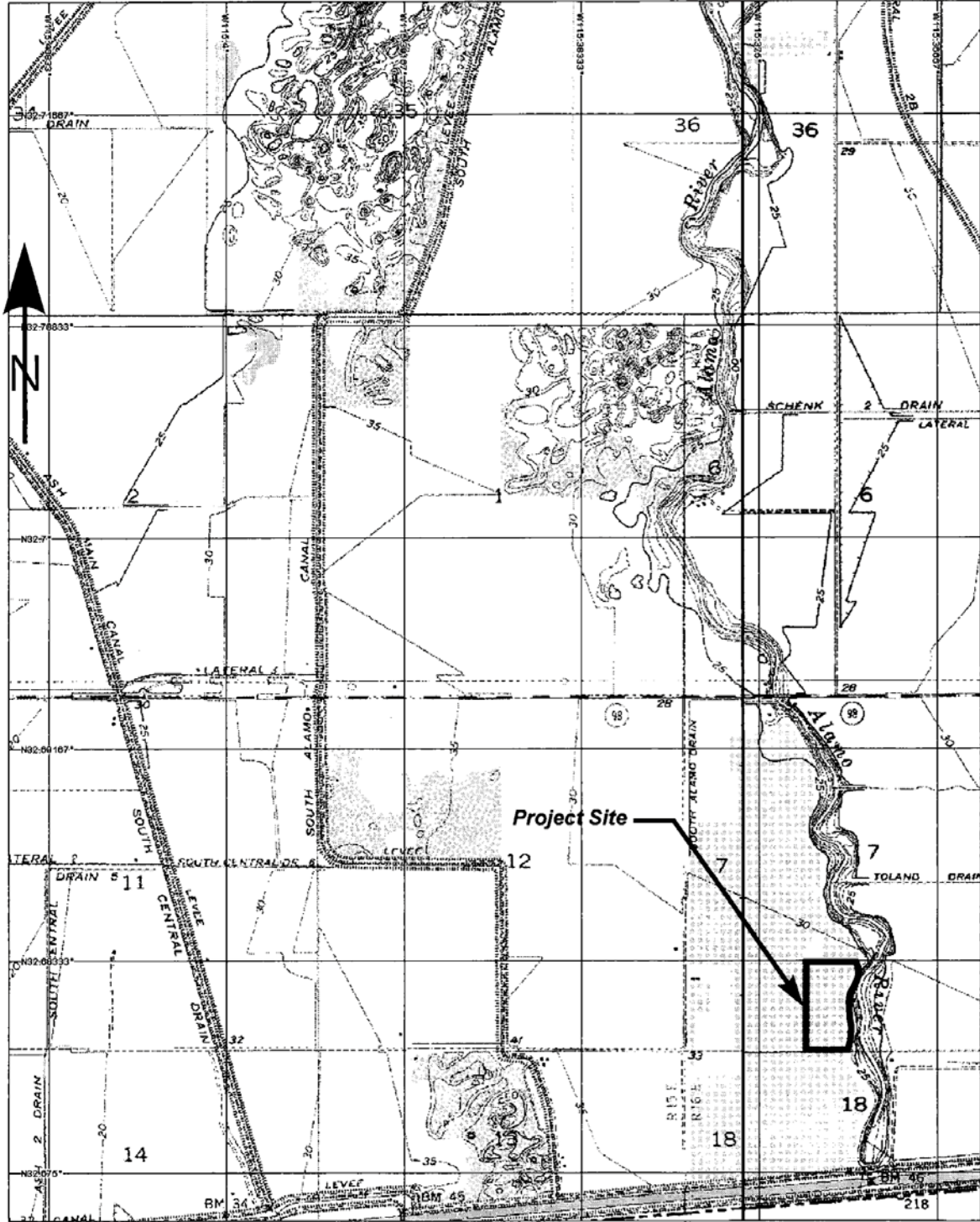
11. The Discharger shall submit monitoring reports to:

California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring, Suite 100
Palm Desert, CA 92260

Ordered By: Original signed by
ROBERT PERDUE
Executive Officer

Date

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 COLORADO RIVER BASIN REGION**



IMPERIAL COUNTY GATEWAY SERVICES AREA, OWNER
 ROCKY VANDERGRIFF WATER TREATMENT SERVICES, OPERATOR
 MUNICIPAL WASTEWATER TREATMENT PLANT
 East of Calexico - Imperial County
 Discharge Location: 32° 41' 02"N, 115° 22' 18"W

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 COLORADO RIVER BASIN REGION**

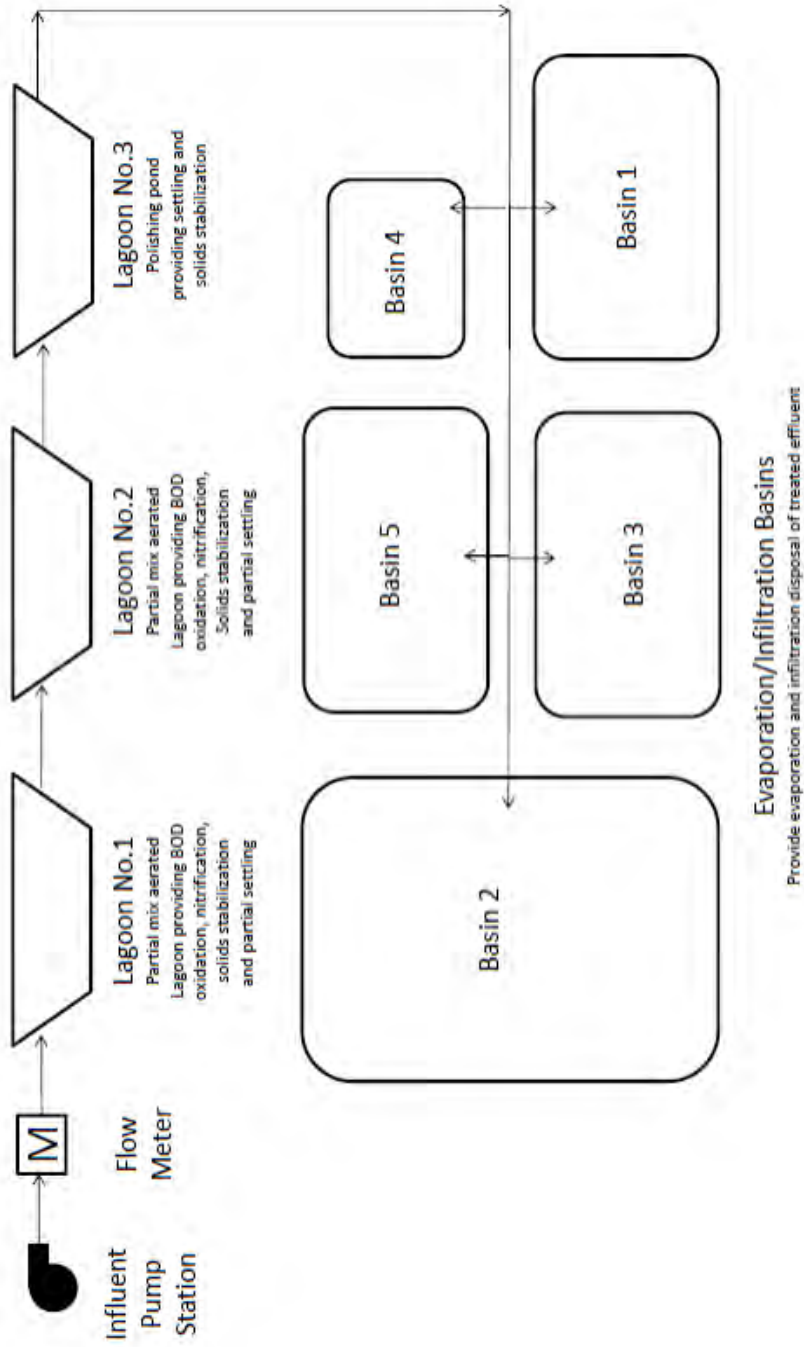


EXHIBIT “C”



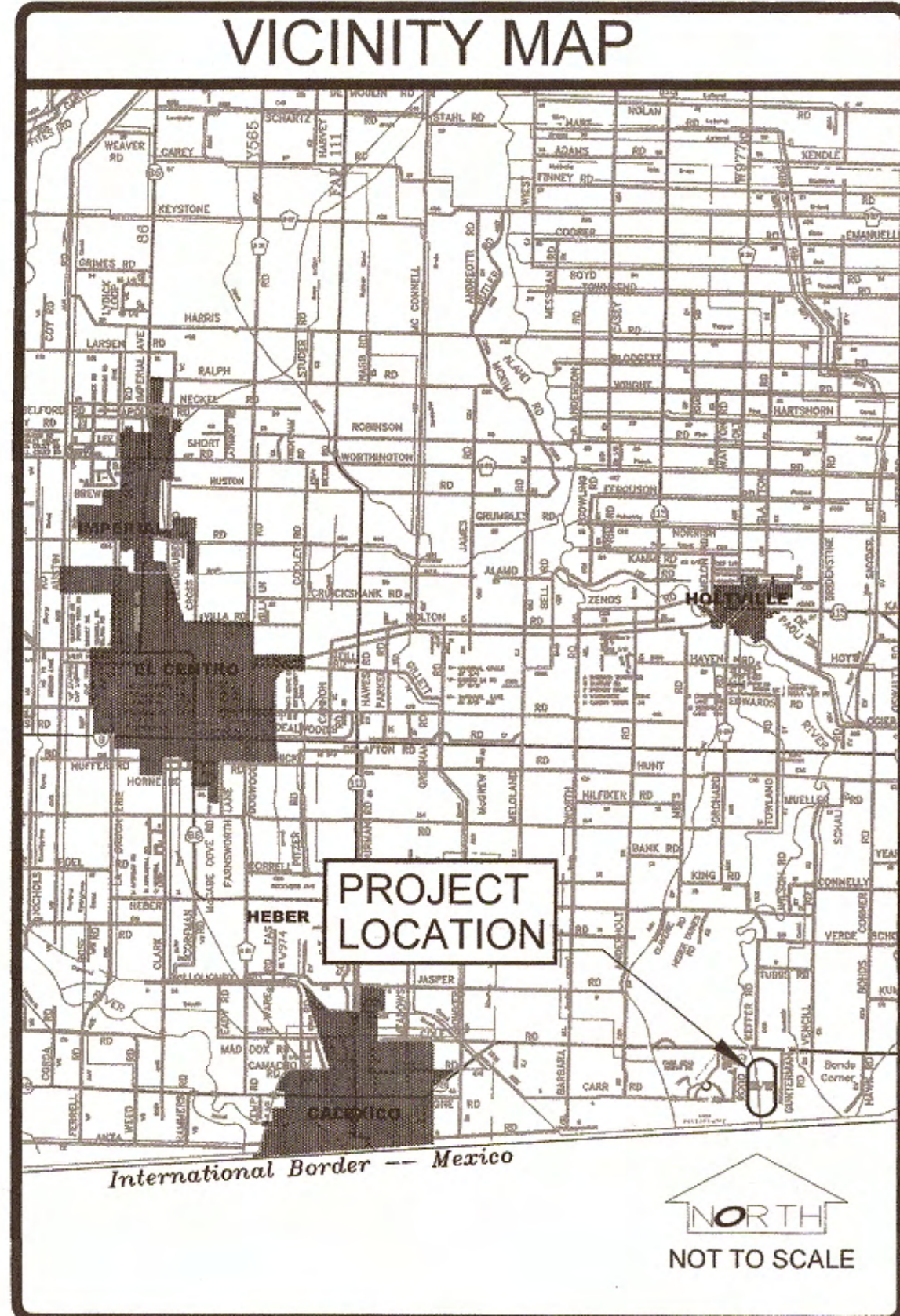
COUNTY OF IMPERIAL

GATEWAY OF THE AMERICAS COUNTY SERVICE AREA

SEWER TREATMENT PLANT EXPANSION

COUNTY PROJECT

VOLUME 1 OF 2



SHEET INDEX

- COVER SHEET
- GENERAL NOTES
- ABBREVIATIONS & LEGEND
- EXISTING OVERALL SITE AND DEMOLITION PLAN
- HYDRAULIC PROFILE
- OVERALL SITE PLAN
- GRADING AND DRAINAGE PLAN
- ENLARGED YARD PIPING I
- ENLARGED YARD PIPING II
- CROSS SECTIONS
- DETAILS I
- DETAILS II
- ELECTRICAL COVER SHEET
- ELECTRICAL SINGLE LINE DIAGRAM
- ELECTRICAL SITE PLAN
- ELECTRICAL BUILDING PLAN
- ELECTRICAL DETAILS
- ELECTRICAL SCHEMATIC

PROJECT INFORMATION

OWNER:
 IMPERIAL COUNTY GATEWAY SERVICES AREA
 155 11TH STREET
 EL CENTRO, CA 92243

ENGINEER:
 VALENTINE ENVIRONMENTAL ENGINEERS, LLC
 15845 SOUTH 46TH STREET, SUITE 144
 PHOENIX, ARIZONA 85048
 (480) 283-8991

GEOTECHNICAL:
 LANDMARK GEO-ENGINEERS AND GEOLOGISTS
 780 NORTH 4TH STREET
 EL CENTRO, CA 92243

PROJECT INFORMATION

RESIDENT ENGINEER:
 THE HOLT GROUP, INC.
 1601 N. IMPERIAL AVE.
 EL CENTRO, CA 92243
 (760) 337-3883

OPERATOR:
 WATER TREATMENT SERVICES
 ROCKY VANDERGRIF
 WORK: (760) 353-0328
 MOBILE: (760) 427-4235

CONTRACTOR:
 CURRIER CONSTRUCTION INC.
 36 NORTH 88TH STREET
 PHOENIX, AZ 85034
 (602) 274-4370

BENCHMARK

PROJECT BENCHMARKS:
 BENCHMARK PROJECT: BENCHMARK NO. IVPN-29, ELEV. = 958.86'
 IVPN-29 PER RECORD OF SURVEY 1341-59.
 STANDARD CALIFORNIA DEPARTMENT OF TRANSPORTATION ELEVATION = 41.14' FOR THE PURPOSE OF THIS SURVEY ADDED 100'.
 (41.14 + 100 = 58.86')

CONTRACTOR SHALL PROVIDE ALL SURVEYING REQUIRED FOR THE WORK TO CONFIRM ELEVATIONS AND DISTANCES AS SHOWN AND REQUIRED AND AS GENERATED FROM ORIGINAL DESIGN WORK FROM DYNAMIC ENGINEERING CONSULTANTS DRAWINGS DATED 11/02/09, JOB NO. 12.01.08.

BENCHMARK

THE BENCHMARK USED FOR THIS PROJECT IS LOCATED ON THE HEADWALL OF THE EFFLUENT STRUCTURE LOCATED IN LAGOON NO. 2.
 ELEVATION: 38.78

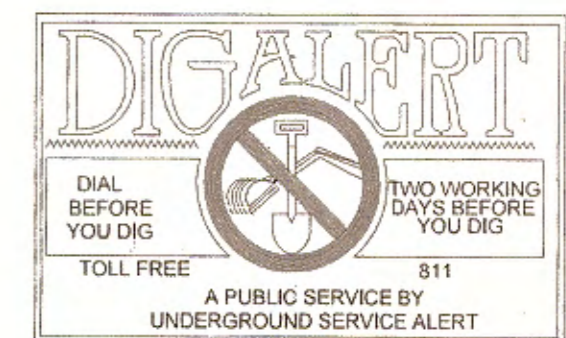
TOPOGRAPHICAL SURVEY CONDUCTED BY:
 MAP AND DIGITAL DATA PREPARED FOR: COUNTY OF IMPERIAL
 SURVEY GROUND CONTROL PROVIDED BY:
 SURVEY VERTICAL CONTROL PROVIDED BY:
 ASSESSOR'S PARCEL NUMBER: 059-280-013

EARTHWORK

CUT VOLUME: 14,771.27 C.Y.
 FILL VOLUME: 16,408.31 C.Y.
 NET VOLUME: 1,637.04 C.Y. (FILL)

EARTHWORK QUANTITIES SHOWN IS AN OPINION OF THE EFFORT REQUIRED. CONTRACTOR SHALL VERIFY AS REQUIRED FOR THE WORK.

AS-BUILTS
 05/16/2014



GEOTECHNICAL ENGINEER'S DECLARATION

THESE PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED RELATIVE TO GEOTECHNICAL ASPECTS OF THE PLANS AND HAVE BEEN FOUND TO BE IN CONFORMANCE WITH INTENTIONS OF THE FINDINGS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORTS: "GATEWAY WASTEWATER TREATMENT PLANT PHASE II EXPANSION, CALEXICO, CA" PREPARED BY LANDMARK CONSULTANTS, INC.; REPORT NO. LE08203, DATED JULY 2008 AND "GEOTECHNICAL REPORT UPDATE: GATEWAY WWT PLANT PHASE II EXPANSION, CALEXICO, CA" PREPARED BY LANDMARK CONSULTANTS, INC., REPORT NO. LE13221, DATED NOVEMBER 2013.

LANDMARK CONSULTANTS, INC.
 780 N. 4TH STREET
 EL CENTRO, CA 92243
 (760) 370-3000
 (760) 337-8900 FAX

BY: *Jeffrey Kopchynski* DATE: 1/29/14
 JEFFREY KOPCHYNSKI PE EXPIRES: 12/31/14
 R.C.E. NO. 31921

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF IMPERIAL IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

VALENTINE ENVIRONMENTAL ENGINEERS, LLC
 15845 SOUTH 46TH STREET, SUITE 144
 PHOENIX, ARIZONA 85048
 (480) 283-8991

David M. Kopchynski
 DAVID M. KOPCHYNSKI
 R.C.E.: 61977
 EXP. DATE: 9-30-15

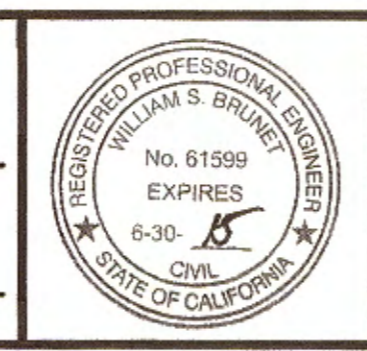
1/23/14
 DATE



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
David M. Kopchynski 61977
 DAVID M. KOPCHYNSKI R.C.E. No.
 1/23/14 9-30-15
 DATE REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
William S. Brunel 61599
 PUBLIC WORKS DEPARTMENT R.C.E. No.
 COUNTY OF IMPERIAL 6-30-15
 EL CENTRO, CALIFORNIA DATE REG. EXP.

DATE: 1/23/14
 DRAWN: C.BIA
 SCALE: NONE
 CHECKED: DMK / TAV / MPV

PROJECT TITLE
 GATEWAY OF THE AMERICAS
 COUNTY SERVICE AREA
 SEWER TREATMENT PLANT EXPANSION
 COUNTY PROJECT

COVER SHEET
 REFERENCE: R-
 SHEET 1 OF 18

No modifications to these plans, other than adding "as-built" information, are permitted by anyone other than authorized VEE employees.

GENERAL NOTES

1. GENERAL REQUIREMENTS FOR MATERIALS AND CONSTRUCTION

1.01 STANDARD SPECIFICATIONS - WHEN IN THIS SECTION 1 OF THESE SPECIAL PROVISIONS THE TERM STANDARD SPECIFICATIONS IS USED, IT SHALL BE INTERPRETED TO MEAN THOSE STANDARD SPECIFICATIONS 2010 EDITION BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS), AVAILABLE FROM THE PUBLIC DISTRIBUTION UNIT OF SAID AGENCY, 1900 ROYAL OAKS DRIVE, SACRAMENTO, CA 95819, TELEPHONE (916) 445-3520 AND THE DRAWINGS AND TECHNICAL SPECIFICATIONS PROVIDED BY VALENTINE ENVIRONMENTAL ENGINEERS, LLC.

1.02 WORK TO BE DONE - ALL THE IMPROVEMENTS SHOWN OR CALLED FOR IN THESE DRAWINGS SHALL BE CONSTRUCTED BY CONTRACTOR COMPLETE IN EVERY RESPECT AND READY FOR USE. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPPLIES, SERVICES, SUPERVISION AND INCIDENTALS THERETO REQUIRED FOR SAID COMPLETION, WHERE THE PLANS, SPECIFICATIONS OR DETAILS DO NOT PROVIDE ALL OF THE INFORMATION REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL, NEVERTHELESS, WITHOUT ADDITIONAL COMPENSATION AND SUBJECT TO THE ENGINEER'S APPROVAL, PROVIDE THAT LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THE WORK ACCORDING TO GENERALLY ACCEPTED STANDARDS OF THE TRADE INVOLVED.

1.03 SUBMITTALS AND MIX DESIGNS - CONTRACTOR SHALL SUBMIT TO THE ENGINEER NO LESS THAN 10 DAYS PRIOR TO ORDERING HIS MATERIALS OR EQUIPMENT, 3 SETS OF DESCRIPTIONS OF ALL PRODUCTS THAT HE PROPOSES TO INCORPORATE INTO THE PROJECT, SAID DESCRIPTIONS SHALL INCLUDE SUFFICIENT INFORMATION TO SHOW THAT EACH PRODUCT COMPLIES WITH EVERY PROVISION OF THESE CONTRACT DOCUMENTS WHICH IS APPLICABLE THERETO, SHOULD THERE BE ANY DEVIATION WHATSOEVER, THE CONTRACTOR SHALL POINT THAT DEVIATION OUT IN HIS LETTER OF TRANSMITTAL REQUIRED FOR EACH PRODUCT, SAID LETTER SHALL OVERVIEW INDICATE THAT THE CONTRACTOR HAS REVIEWED THE PRODUCT INFORMATION AND THAT THE PRODUCT PROPOSED CONFORMS FULLY WITH THE CONTRACT DOCUMENTS. PRODUCT INFORMATION INCLUDES, BUT IS NOT LIMITED TO: MANUFACTURER'S SPECIFICATIONS FOR PRODUCT; PRODUCT TESTING RESULTS FROM AN INDEPENDENT TESTING FIRM, SHOP DRAWINGS, DIAGRAMS AND DETAILS; OR, A MIX DESIGN BY A REGISTERED CIVIL ENGINEER. THE ENGINEER WILL DETERMINE THOSE ITEMS FOR WHICH SUBMITTALS WILL BE REQUIRED. SUBMITTALS WILL AT LEAST BE REQUIRED FOR THE FOLLOWING:

- A. AGGREGATE BASE (TEST RESULTS);
- B. PORTLAND CEMENT CONCRETE MIX (MIX DESIGNS);
- C. WATER PIPE (SPECIFICATIONS);
- D. PIPELINE FITTINGS AND VALVES (SPECIFICATIONS);
- E. GRANULAR BEDDING AND PIPE ZONE BACKFILL (TEST RESULTS);
- F. MANHOLE SECTIONS, FRAMES AND COVERS (SPECIFICATIONS);
- G. EQUIPMENT SPECIFIED IN VOLUME 2 OF THESE CONTRACT DOCUMENTS.

1.04 INSPECTION, TESTING AND QUALITY CONTROL - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL MATERIALS AND WORKMANSHIP INCORPORATED INTO THE PROJECT MEET OR EXCEED THE REQUIREMENTS OF THESE DRAWINGS. HE SHALL PROVIDE ALL INSPECTIONS AND PERFORM ALL TESTING REQUIRED FOR THAT ASSURANCE IN ACCORDANCE WITH SECTION 6-3.02 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE, ARRANGE AND PAY FOR ALL TESTING SPECIFICALLY CALLED FOR IN THESE DRAWINGS. MATERIAL OR WORKMANSHIP FOUND NOT IN CONFORMANCE WITH THESE DRAWINGS SHALL BE REMOVED FROM PROJECT, NO FORMAL OF WORKMANSHIP SHALL BE COVERED OR OTHERWISE CONCEALED UNTIL SUCH HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.

1.05 EARTH IMPORT, BARRROW AND DISPOSAL - ALL EARTH REQUIRED TO COMPLETE THE WORK CALLED FOR IN THESE DRAWINGS SHALL BE OBTAINED FROM THE SITE OF WORK, ALL SURPLUS EARTH GENERATED BY SAID WORK SHALL BE DISPOSED OF ON THE SITE OF WORK OUTSIDE OF BUT CONTIGUOUS TO THE CONSTRUCTION IMPROVEMENTS AS DIRECTED BY THE ENGINEER, AS BEST HE CAN, THE CONTRACTOR SHALL KEEP SURPLUS EARTH CLOSE TO THAT LOCATION WHERE IT WAS EXCAVATED. ALSO, CONTRACTOR SHALL BARRROW EARTH CLOSE TO THAT LOCATION WHERE IT IS REQUIRED, IN NO CASE SHALL SURPLUS EARTH OR BARRROWED EARTH BE TRANSPORTED ACROSS HIGHWAY SR-7, MAGGIO ROAD OR MENNIELELE ROAD. SURPLUS EARTH EXCAVATED FROM THE PROJECT SITE SHALL BE PLACED IN NEAT, ORDERLY WINDROWS APPROXIMATELY 10 FEET WIDE AND 3 FEET HIGH, ADJACENT TO BUT OUTSIDE OF THE ROADWAY EXCAVATION OR EMBANKMENT.

1.06 CONFLICTS - WHERE IN THESE DRAWINGS CONFLICTS OCCUR BETWEEN REQUIREMENTS AND PROVISIONS APPLICABLE TO QUALITY OF MATERIALS OR WORKMANSHIP, THE MOST STRINGENT REQUIREMENT OR PROVISION SHALL GOVERN, WHERE STRINGENCY IS NOT INVOLVED, THEN THE ORDER OF PRECEDENCE SHALL BE AS FOLLOWS, WITH THAT DOCUMENT LISTED FIRST BEING OF THE HIGHEST PRIORITY.

- A. IMPERIAL COUNTY CODES AND REGULATIONS
- B. VALENTINE TECHNICAL SPECIFICATIONS AND DRAWINGS
- C. MANUFACTURER'S WRITTEN RECOMMENDATIONS
- D. SPECIAL PROVISIONS
- E. PLANS AND TYPICAL DETAILS
- F. REFERENCED STANDARD SPECIFICATIONS

1.08 PRODUCT UNIFORMITY - PRODUCTS INCORPORATED INTO THE WORK AND IMPROVEMENTS CALLED FOR IN THESE DRAWINGS SHALL BE THOSE THAT ARE THE MANUFACTURER'S CURRENT LINE OF PRODUCTS. ALL SIZES OF EACH OF THE FOLLOWING PRODUCTS SHALL BE OF THE SAME MANUFACTURER THROUGHOUT THE PROJECT:

- A. MANHOLE FRAMES AND COVERS (SEWER AND STORM DRAIN);
- B. WATER PIPE (C-600 AND C-905 POLYVINYL CHLORIDE);
- C. WATER PIPE GATE VALVES;

1.09 AS-BUILT RECORDS AND DRAWINGS - THE CONTRACTOR SHALL, AS A CONDITION TO ACHIEVING SUBSTANTIAL COMPLETION OF THE PROJECT, PROVIDE NO LESS THAN ONE (1) COMPLETE SETS OF AS-BUILT DRAWING PRINTS. AS-BUILT DRAWINGS SHALL INCLUDE NO LESS THAN A RECORD OF THE EXACT LOCATION OF ALL WATER AND SEWER SERVICES AND THE ENDS OF ALL PIPE PROVIDED FOR FUTURE CONNECTIONS.

1.10 SITE SAFETY AND TRAFFIC CONTROL - THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS, INCLUDING EMPLOYEES, PROPERTY OCCUPYING OR TRAVERSING HIS AREAS OF WORK, DAY AND NIGHT, DURING BOTH WORKING AND NON-WORKING HOURS, AND, SHALL PROVIDE ALL BARRICADES, SHORING, DEWATERING, SIGNS, LIGHTING AND OTHER DEVICES REQUIRED THEREFORE IN ACCORDANCE TO CAL OSHA, SECTION 1504, 1539-1543 AND OTHER SECTIONS AS REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL ALSO PROVIDE A PLAN FOR, AND FURNISH AND INSTALL THE SIGNS, FLAGMEN, LIGHTS AND OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE PROJECT WORK SITE, TO PROTECT HIS EMPLOYEES AND TO PROTECT VEHICULAR AND PEDESTRIAN TRAFFIC PASSING THROUGH OR NEAR HIS AREAS OF WORK. TRAFFIC CONTROL WITHIN TRAVELWAYS SHALL CONFORM TO THE "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" AVAILABLE FROM CALTRANS, CENTRAL PUBLICATION DISTRIBUTION, 6022 FOLSOM BLVD., SACRAMENTO, CA 95819.

1.11 PERMITS - THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR THE WORK TO CONSTRUCT THE IMPROVEMENTS CALLED FOR IN THESE CONTRACT DOCUMENTS AND SHALL DELIVERY NO LESS THAN ONE (1) COPY OF EACH TO THE ENGINEER BEFORE COMMENCING ANY WORK GOVERNED BY THE PERMITS. HE SHALL ALSO ARRANGE AND PAY FOR ALL INSPECTIONS AND TESTING REQUIRED BY SAID PERMITS. PERMITS REQUIRED OF THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- A. CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE OF CALIFORNIA, WATER RESOURCES CONTROL BOARD, TO CONTROL POLLUTION CAUSED BY WORK SITE DRAINAGE.

1.12 SOILS REPORT - IN ORDER TO PREPARE THESE DRAWINGS, THE FOLLOWING GEOTECHNICAL REPORTS WERE UTILIZED: "GATEWAY WASTEWATER TREATMENT PLANT PHASE II EXPANSION, CALEXICO, CA" PREPARED BY LANDMARK CONSULTANTS, INC. REPORT NO. LE0804 DATED JULY 2009 AND "GEOTECHNICAL REPORT UPDATE: GATEWAY WWT PLANT PHASE II EXPANSION, CALEXICO, CA" PREPARED BY LANDMARK CONSULTANTS, INC., REPORT NO. LE13221, DATED NOVEMBER 2013. BIDDERS AND THE CONTRACTOR MAY REQUEST A COPY FROM HALE MILLS CONSTRUCTION, 3700 BUFFALO SPEEDWAY, SUITE 100 HOUSTON, TEXAS 77068 713-665-1100, CONTACT DAVID PAYNE. THE REPORTS CONTAIN INFORMATION THAT WILL BE USEFUL TO BIDDERS ESTIMATING THE COST OF CONSTRUCTING THE IMPROVEMENTS CALLED FOR IN THESE DRAWINGS; HOWEVER, NEITHER THE COUNTY NOR THE ENGINEER WARRANTS OR GUARANTEES THE ACCURACY THEREOF. THE BIDDERS SHALL RETAIN THE SERVICES OF THEIR OWN GEOTECHNICAL ENGINEERS TO OBTAIN THAT INFORMATION ABOUT THE PROJECT SITE SOILS THAT IS CRUCIAL TO ESTIMATING THE COST OF THE WORK AND PREPARING THEIR BIDS.

1.13 CONSTRUCTION SURVEYING AND STAKING - THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING REQUIRED FOR COMPLETION OF THE WORK CALLED FOR IN THESE DRAWINGS. COPIES OF THE SURVEYOR'S NOTES AND CUT SHEETS SHALL BE PROVIDED TO THE ENGINEER, NO LESS THAN TWO BENCH MARKS SHALL BE REFERENCED FOR ALL SEGMENTS OF THE WORK. THE CENTERLINE OF ROADWAYS SHALL BE STAKED BEFORE COMMENCEMENT OF CONTRACTOR'S WORK. SAID CENTERLINES SHALL BE MAINTAINED DURING THE COURSE OF THE WORK.

2. GENERAL NOTES

1. COUNTY ENCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS FOR ANY CONFLICTS.

2. THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH IMPERIAL COUNTY STANDARDS (OR CALTRANS IF IN STATE ROW) AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR (OR CALTRANS).

3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.

4. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER THAT IS NOT OF RECORD, OR NOT SHOWN ON THESE PLANS.

5. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.

6. UTILITIES COORDINATION NO LESS THAN 3 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING, EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT THE FOLLOWING AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED. THE AGENCY MAY REQUIRE AN INSPECTOR TO BE PRESENT: 1. APPROPRIATE WASTEWATER UTILITY TO BE DETERMINED 2. IMPERIAL IRRIGATION DISTRICT (PIPER) (760) 339-9283 3. IMPERIAL IRRIGATION DISTRICT (WATERS) (760) 339-9283 4. PACIFIC BELL (800) 422-4133 5. THE GAS CO. (800) 422-4133(800) 227-2800 6. CABLE COMPANY TO BE DETERMINED EXISTING UNDERGROUND UTILITIES BEFORE EXCAVATING FOR THIS CONTRACT, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES. LOCATION OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF WORK. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ACCURATE VERIFICATION AS TO SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, PACIFIC BELL, TELEPHONE COMPANY, IMPERIAL IRRIGATION DISTRICT AND ANY OTHER AFFECTED UTILITY AGENCIES PRIOR TO STARTING HIS WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811 (formerly 1-800-422-4133).

7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.

8. NO REVISIONS OF ANY KIND SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF BOTH THE COUNTY ENGINEER (OR HIS REPRESENTATIVE) AND THE ENGINEER OF RECORD. A REPRODUCIBLE AS BUILT PLAN SET WILL BE PROVIDED TO THE PUBLIC WORKS DEPARTMENT AS A CONDITION OF SUBSTANTIAL CONSTRUCTION COMPLETION AND PRIOR TO ACCEPTANCE.

9. ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS AND ENCROACHMENT PERMIT CONDITIONS, ANY REFERENCED STANDARDS AND SPECIFICATIONS AND THE SPECIFICATIONS AND THE REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES, AND REGULATIONS OF IMPERIAL COUNTY, WHERE, OR IF, CONFLICTS OCCUR, THEN THE IMPERIAL COUNTY REQUIREMENTS SHALL GOVERN.

10. UNLESS SPECIFICALLY INDICATED OTHERWISE METHODS EMPLOYED AND MATERIAL USED IN THE CONSTRUCTION OF ALL OFFSITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE "STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED May 2008". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.

11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF SAFETY AND TO ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND STANDARDS.

12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, CONTACT "STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, ATTENTION: STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CALIFORNIA, 95812.

13. CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. CONTRACTOR IS REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE STATE WATER RESOURCES CONTROL BOARD, PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MONITORING PLAN FOR THE SITE. SWPPP PLAN DEVELOPMENT AND APPROVAL SHALL BE IN ACCORDANCE WITH COUNTY AND STATE OF CALIFORNIA REQUIREMENTS. SWPPP SHALL BE REVIEWED AND ACCEPTED BY IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT.

14. ANY EXISTING SURVEY MONUMENTS OR COUNTY RECOGNIZED BENCHMARKS SHALL BE PROTECTED BY THE CONTRACTOR. SHOULD ANY SUCH MONUMENTS OR BENCHMARKS BE REMOVED, DAMAGED, OBLITERATED OR ALTERED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER RESETTING OF THE SAME AS PER THE SUBDIVISION MAP ACT, THE PROFESSIONAL LAND SURVEYORS ACT AND TO THE SATISFACTION OF THE COUNTY SURVEYOR/DIRECTOR OF PUBLIC WORKS. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER.

15. DUST CONTROL PLAN SHALL BE PREPARED BY CONTRACTOR IN ACCORDANCE WITH IMPERIAL COUNTY REQUIREMENTS AND STANDARDS. DUST CONTROL PLAN WILL BE REVIEWED BY THE IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT. DUST SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH ALL IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT (APCD) FUGITIVE DUST CONTROL RULES AND REGULATIONS AND SHALL COMPLY WITH THEIR PERMITTING REQUIREMENTS, IF APPLICABLE.

3. WATER GENERAL NOTES (TYPICAL - PROJECT GRAVITY SEWER PIPELINE)

CHECK WITH RELATED WATER AGENCY (GATEWAY OF THE AMERICAS CSA) FOR ADDITIONAL SPECIFIC WATER NOTES

1. WATER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND TECHNICAL SPECIFICATIONS PROVIDED BY VALENTINE ENVIRONMENTAL ENGINEERS, LLC AND THE STANDARDS AND MATERIALS AS SPECIFIED IN THE MOST CURRENT EDITION OF THE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION. CONTRACTOR SHALL HAVE A CURRENT COPY OF THE STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.

2. THE SUBMISSION AND REVIEW OF ALL SUBMITTALS AS REQUIRED BY THE STANDARD SPECIFICATIONS ARE TO BE ACCOMPLISHED PRIOR TO THE PRE CONSTRUCTION MEETING WITH THE CSA DISTRICT'S INSPECTOR.

3. NO WORK MAY BEGIN OR PROCEED WITHOUT DIRECTION OF COUNTY AND CSA INSPECTOR. INSPECTOR'S SCHEDULING MUST BE 24-48 HOURS IN ADVANCE OF WORK.

4. WHERE ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN PROFILE, TOP OF PIPE PROFILE IS 36-INCHES MINIMUM BELOW CENTERLINE OF FINISH GRADE OF STREET.

5. INSTALL A WATER SERVICE TO EACH LOT SIZE AND TYPE PER GATEWAY CSA. METER TO BE LOCATED 5-FEET FROM A SIDE LOT LINE. THE LETTER "W" SHALL BE CHISELED IN TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL WATER SERVICE CROSSINGS. SIZES WILL NOT BE LESS THAN 1-1/2" HIGH AND 3/16" DEEP.

6. MANUAL AIR RELEASES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER MAIN PROFILE. FIRE HYDRANTS MAY BE USED IN LIEU OF MANUAL AIR RELEASE OR BLOW-OFF WHEN LOCATED AT OR NEAR HIGH OR LOW POINTS, AS APPROVED BY THE CSA REPRESENTATIVE.

7. UNLESS OTHERWISE NOTED, CONNECTION TO EXISTING MAINS SHALL BE MADE DRY. THE TIME AND DURATION OF ANY SHUTDOWNS OF EXISTING MAINS SHALL BE SUBJECT TO APPROVAL BY THE CSA. CSA SHALL BE NOTIFIED TWO WEEKS MINIMUM IN ADVANCE OF ANY SHUTDOWN.

8. CONTRACTOR SHALL COORDINATE WITH CSA ALL ARRANGEMENTS FOR HIGH-LINING TEMPORARY SERVICES, ETC., PRIOR TO SHUTDOWNS. NO SHUTDOWNS WILL BE SCHEDULED ON A FRIDAY.

9. LINE VALVES, WHERE REQUIRED AT STREET INTERSECTIONS SHALL BE LOCATED ON THE PROLONGATION OF THE STREET RIGHT-OF-WAY WHENEVER POSSIBLE.

10. FIRE HYDRANTS, AS APPROVED BY THE APPROPRIATE FIRE MARSHAL AND MEETING THE CSA STANDARD SPECIFICATIONS, ARE TO BE INSTALLED AT LOCATIONS SPECIFIED BY THE FIRE MARSHAL.

11. CONTRACTOR SHALL REVIEW ALL PROPOSED TRENCH WORK WITH CAL/OSHA. A COPY OF EXEMPTION LETTER OR TRENCHING PERMIT, IF REQUIRED, SHALL BE SUBMITTED TO THE CSA PRIOR TO CONSTRUCTION.

12. ALL EXISTING FACILITIES, WHICH MAY AFFECT FINAL DESIGN, I.E., LINE CROSSINGS, LINE PARALLELING, OR PROPOSED CONNECTIONS SHALL BE FIELD VERIFIED. ALL EXISTING OR PROPOSED UTILITY CROSSINGS, OR UTILITIES WITHIN 10-FEET OF PROPOSED WATER MAINS, SHALL BE SHOWN ON IMPROVEMENT PLANS.

13. ALL WATER SERVICES FOR IRRIGATION, MULTIPLE RESIDENTIAL COMPLEXES (IF APPLICABLE) AND COMMERCIAL OR INDUSTRIAL DEVELOPMENTS SHALL HAVE AN APPROVED BACKFLOW PREVENTION DEVICE ON CUSTOMER'S SIDE OF WATER METER.

14. THE WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROCEDURES IN THE STANDARD SPECIFICATIONS.

15. CONTRACTOR TO THE OFF ALL WATER LOCATIONS AND PROVIDE WRITTEN DIMENSIONS TO INSPECTOR IMMEDIATELY UPON INSTALLATION OF VALVES.

16. ALL DEFLECTIONS (HORIZONTAL AND VERTICAL) SHALL BE MADE BY USE OF JOINT COUPLINGS WITH 4" MAXIMUM DEFLECTION PER COUPLING (2" PER JOINT), NO BENDING (CURVING) OF PIPE SHALL BE PERMITTED.

17. THE CONTRACTOR SHALL FURNISH AND INSTALL, PER SPECIFICATION, THE APPROPRIATE BURIED UTILITY WARNING IDENTIFICATION TAPE AND METALLIC WIRE ABOVE ALL PUBLIC WATERLINES INCLUDING WATER AND FIRE LATERALS LOCATED IN PUBLIC RIGHT OF WAY OR EASEMENT, IN ALL EASEMENTS, FLEXIBLE HIGH VISIBILITY IDENTIFICATION MARKERS ARE ADDITIONALLY REQUIRED PER CSA REQUIREMENTS.

18. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF ACCEPTANCE OF THE WORK BY THE CSA AND COUNTY AND SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING, THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE 1 YEAR PERIOD FROM DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE CSA AND THE COUNTY, ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLIGENCE EXCEPTED.

4. POTABLE WATER SPECIFICATIONS

1. STANDARDS - STANDARD TO BE USED SHALL MEAN THOSE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION IN EFFECT ON JANUARY 1, 1996. SAID STANDARDS ARE AVAILABLE FROM THE BOOKSTORE OF SAID ASSOCIATION, 6866 W. QUINCY AVENUE, DENVER, CO 80235 (800) 926-7337.

2. MATERIALS OF CONSTRUCTION - ALL WATER PIPE, FITTINGS AND APPURTENANCES CALLED FOR IN THESE CONTRACT DOCUMENTS SHALL CONFORM TO THE FOLLOWING STANDARDS, THOSE OTHER STANDARDS THEREIN REFERENCED AND THESE SPECIAL PROVISIONS.

3. PIPE: AWWA C-900 AND C-905. PIPE 12 INCHES AND SMALLER SHALL BE CLASS 150, DR-18. LARGER PIPE SHALL BE 235 PSI, DR-18. ALL PIPES SHALL HAVE BELL AND SPIGOT, ELASTOMERIC GASKETED JOINTS. PIPE SHALL BE SUPPLIED WITH AN AFFIDAVIT OF COMPLIANCE.

4. FITTINGS: AWWA C-153 AND C-104. FITTINGS SHALL BE CEMENT-MORTAR LINED, UNLESS OTHERWISE SHOWN OR INDICATED BY THE CONTRACT DRAWINGS, BENDS SHALL BE FURNISHED WITH MECHANICAL JOINT ENDS, TEES AND CROSSES SHALL BE FURNISHED WITH FLANGED JOINT ENDS. FLANGE TO MECHANICAL JOINT ADAPTERS SHALL BE FURNISHED TO CONNECT PIPE TO TEES AND CROSSES WHERE VALVES DO NOT OCCUR. GLANDS SHALL BE OF THE SAME MANUFACTURER AS FITTINGS.

5. GATE VALVES: AWWA C-509. VALVES 12 INCHES AND SMALLER SHALL BE RESILIENT-SEALED GATE, FUSION-BONDED EPOXY COATED INSIDE AND OUT; AND, UNLESS OTHERWISE SHOWN OR INDICATED BY THE CONTRACT DRAWINGS, SHALL BE FURNISHED WITH A MECHANICAL JOINT ON ONE END AND A FLANGED JOINT THE OTHER VALVE, WHEN CLOSED, SHALL PROVIDE A BUBBLE-TIGHT SEAL AGAINST LEAKAGE AND SHALL BE OF THE TYPE AND DESIGN THAT ALLOWS REPLACEMENT OF ALL INTERNAL PARTS WITHOUT REMOVING THE VALVE BODY FROM THE PIPELINE. ALL INTERNAL PARTS SHALL BE MATERIALS SUITABLE FOR EXPOSURE TO WATER CONTAINING CHLORINE AS A DISINFECTANT AT VARIOUS CONCENTRATIONS. VALVES SHALL BE SUPPLIED WITH AN AFFIDAVIT OF COMPLIANCE.

6. BUTTERFLY VALVES: AWWA C-504. VALVES LARGER THAN 12-INCHES SHALL BE RESILIENT SEATED BUTTERFLY, FUSION-BONDED EPOXY COATED INSIDE AND OUT; AND, UNLESS OTHERWISE SHOWN OR INDICATED BY THE CONTRACT DRAWINGS, SHALL BE FURNISHED WITH A MECHANICAL JOINT ONE END AND A FLANGED JOINT THE OTHER END. THE CONTRACTOR MAY, IN LIEU OF THE MECHANICAL JOINT, PROVIDE A FLANGED JOINT WITH A FLANGED BY MECHANICAL JOINT ADAPTER. ALL INTERNAL PARTS, INCLUDING THE RESILIENT SEAL, SHALL BE OF MATERIALS SUITABLE FOR EXPOSURE TO WATER CONTAINING CHLORINE AS A DISINFECTANT AT VARIOUS CONCENTRATIONS. VALVES SHALL, WHEN CLOSED, PROVIDE A BUBBLE-TIGHT SEAL AGAINST LEAKAGE AND SHALL BE SUPPLIED WITH AN AFFIDAVIT OF COMPLIANCE.

7. DOMESTIC MANUFACTURERS: ALL PIPE FITTINGS AND VALVES SHALL BE THE PRODUCT OF A DOMESTIC (USA) MANUFACTURER.

8. FIRE HYDRANTS: AWWA C-503. FIRE HYDRANTS SHALL BE OF THE WET-BARREL TYPE EQUIPPED WITH A BREAK-OFF CHECK VALVE, ALL EQUAL TO THAT CALLED OUT IN THE CONTRACT DRAWINGS. THE BURY-ELL RISERS AND DOUBLE GROOVED BREAK-OFF SPOOLS SHALL BE OF EPOXY COATED INSIDE, DUCTILE IRON. ALL BOLTS USED IN THE FIRE HYDRANT ASSEMBLY SHALL BE OF APPROVED STAINLESS STEEL. THE BURY-ELL SHALL BE SUPPLIED WITH A MECHANICAL JOINT INLET AND FOR CONNECTION OF THE PIPE AND INSTALLATION OF JOINT RESTRAINT DEVICE. ALL HYDRANTS SHALL BE FURNISHED WITH OUTLET CAPS WITH CHAIN AND AN AFFIDAVIT OF COMPLIANCE.

9. BOLTS: ALL BOLTS USED FOR INSTALLATION OF UNDERGROUND FITTINGS AND VALVES SHALL BE EITHER TEXLAN COATED OR OF APPROVED STAINLESS STEEL TYPE 304.

10. AIR VALVES: AWWA C-512. ALL AIR-RELEASE VALVES, AIR-VACUUM VALVES AND COMBINATION AIR VALVES SHALL BE OF CAST-IRON BODY WITH INTERNAL PARTS OF STAINLESS STEEL, BUNA-M, DERLIN OR OTHER SIMILAR CORROSION RESISTANT MATERIALS, SUITABLE FOR EXPOSURE TO WATER CONTAINING CHLORINE AS A DISINFECTANT IN VARIOUS CONCENTRATIONS. AIR-VALVES SHALL BE EQUAL TO THAT CALLED OUR IN THE CONTRACT DRAWINGS.

11. JOINT RESTRAINT DEVICES: ALL MECHANICAL JOINTS INCORPORATED INTO THE CONTRACT PROJECT SHALL BE FITTED WITH JOINT RESTRAINT DEVICES EQUAL TO THOSE MANUFACTURED BY EBA-IRON OF EASTLAND, TEXAS AND SOLD AS THE 200 PV SERIES, INSTALLED IN FULL CONFORMANCE TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL SERIES 1600 AND 2800 PIPE JOINT HARNESSES ON A SUFFICIENT NUMBER OF JOINTS AWAY FROM THE JOINT RESTRAINT DEVICE TO INSURE AGAINST SEPARATION OF THE PIPE. A SOIL FRICTION OF 150 PSI MAY BE USED FOR CALCULATING THE NUMBER OF PIPE JOINTS WITH A HARNESS MUST BE APPLIED. FOR 12-INCH PIPE, ALL JOINTS WITHIN 45 FT. MUST BE HARNESSED; FOR 18-INCH PIPE, ALL JOINTS WITHIN 65 FT. MUST BE HARNESSED.

12. EPOXY COATINGS: AWWA C-550. EPOXY COATING SHALL BE FUSION-BONDED AT THE FACTORY.

13. PIPE BEDDING AND BACKFILL: GRANULAR MATERIAL FOR PIPE BEDDING AND PIPE ZONE BACKFILL TO NO LESS THAN 12 INCHES ABOVE TOP OF PIPE SHALL CONSIST OF SAND FINE FROM CLAY OR ORGANIC MATERIAL, 90 TO 100 PERCENT PASSING THE NO. 4 SIEVE BUT NO MORE THAN 5 PERCENT PASSING THE NO. 200 SIEVE, HAVING A SAND EQUIVALENT OF NO LESS THAN 35. THE MATERIAL SHALL BE SUITABLE FOR THE COMPACTION METHODS USED TO OBTAIN NO LESS THAN 90% OF MAXIMUM RELATIVE DENSITY.

14. THRUST BLOCK CONCRETE: CONCRETE REQUIRED FOR THRUST BLOCKS SHALL BE TRANSIT MIXED, PORTLAND CEMENT CONCRETE, HAVING A SLUMP AT TIME PLACEMENT NOT EXCEEDING 6 INCHES AND CONTAINING SUFFICIENT CEMENT TO PROVIDE A COMPRESSIVE STRENGTH OF NO LESS THAN 2000 PSI IN 28 DAYS.

15. PIPELINE CONSTRUCTION - ALL WATER PIPE, FITTINGS AND APPURTENANCES CALLED FOR SHALL BE INSTALLED, DISINFECTED AND TESTED IN ACCORDANCE WITH AWWA STANDARDS, THOSE OTHER STANDARDS THEREIN REFERENCED, THE WRITTEN RECOMMENDATIONS OF THE MANUFACTURER AND THESE SPECIAL PROVISIONS.

A. INSTALLATION: AWWA C-800 AND C-805. EXCESS EARTH FROM EXCAVATIONS SHALL BE REMOVED FROM THE ROADWAY SECTION AND DISPOSED OF. A TRACING WIRE AND APPROPRIATE UTILITY WARNING IDENTIFICATION TAPE SHALL BE PLACED IMMEDIATELY ABOVE THE PIPE ZONE BACKFILL. THE TEST PRESSURE FOR PIPE STRENGTH AND LEAKAGE SHALL BE NO LESS THAN 150 PSI. IN ALL EASEMENTS, FLEXIBLE HIGH VISIBILITY IDENTIFICATION MARKERS ARE ADDITIONALLY REQUIRED.

B. POLYETHYLENE WRAPPING: AWWA C-105. ALL FITTINGS AND APPURTENANCES INCLUDING BUT NOT LIMITED TO, VALVES, TEES, CROSSES, BENDS, TAPPED COUPLINGS, PIPE JOINT HARNESSES, JOINT RESTRAINT DEVICES, AND JOINT ADAPTERS, SHALL BE ENCASED WITHIN A WRAPPING OF LOW-DENSITY, MINIMUM 10 MIL THICK, POLYETHYLENE SHEETING LOOSELY PLACED AND TAPED TO THE BODY OF THE CONNECTED PIPE(S).

C. DISINFECTION: AWWA C-651. THE CONTRACTOR MAY EMPLOY ANY ONE OF THE DISINFECTION METHODS PROVIDED FOR, SUBJECT TO THE CSA ENGINEER'S REVIEW AND APPROVAL OF THE CONTRACTOR'S PROCEDURES, EQUIPMENT AND PROPOSED MEANS OF DISPOSING OF THE CHLORINATED WATER. THE DEVELOPER OR CONTRACTOR SHALL ARRANGE AND PAY FOR BACTERIOLOGICAL TESTING OF THE DISINFECTION EFFORTS. DISINFECTING SHALL CONTINUE UNTIL TESTING RESULTS ARE FOUND ACCEPTABLE TO THE CSA ENGINEER.

D. COMPACTION TESTING: TESTING OF TRENCH BACKFILL FOR DENSITY SHALL BE NO LESS OFTEN THAN ONCE IN THE PIPE ZONE AND ONCE FOR EACH 24-INCHES OF DEPTH AT SPACING NOT TO EXCEED 150 -FT. FAILING TEST SHALL BE RETESTED AFTER RECOMPACTION. RETESTING SHALL INCLUDE TWO ADDITIONAL TEST, ONE EACH LOCATED 50 FT. BOTH WAY FROM THE FAILING TEST LOCATION UNTIL ALL TESTS SHOW CONFORMING DENSITIES.

E. VALVE BOXES: ALL VALVES SHALL BE INSTALLED WITH VALVE BOXES AS SHOWN OR CALLED FOR BY THE CONTRACT DRAWINGS.

5. GRADING PLAN GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.

2. FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.

3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED, (760) 482-4462. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER (800) 227-2600. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.

5. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

- | | | |
|--------------------|---------------|------------------------------|
| GAS: | TELEPHONE NO. | (800) 422-4133(800) 227-2600 |
| IID POWER: | TELEPHONE NO. | (760) 339-9280 |
| IID WATER: | TELEPHONE NO. | (760) 339-9263 |
| PACIFIC TELEPHONE: | TELEPHONE NO. | (800) 422-4133 |
| CATV: | TELEPHONE NO. | (800) 626-6299 |
| SEWER: (CSA) | TELEPHONE NO. | (760) 482-4462 |
| WATER: (CSA) | TELEPHONE NO. | (760) 482-4462 |

6. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

7. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED BY THE COUNTY PLANNING DEPARTMENT.

8. THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS.

9. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.

10. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE, WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THE PLAN. THE COUNTY WILL HOLD THE PERMITEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.

11. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERATION WILL CEASE IMMEDIATELY AND THE PERMITEE WILL NOTIFY THE DIRECTOR OF THE PLANNING DEPARTMENT AND THE DISCOVERY GRADING OPERATION WILL NOT RECOMMENCE UNTIL THE PERMITEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PLANNING TO DO SO.

12. THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER OF WORK AND APPROVED BY COUNTY PUBLIC WORKS INSPECTOR. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE.

13. ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE APPENDIX CHAP. 33, AS AMENDED BY TITLE 9 LAND USE ORDINANCE.

14. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.

15. DURING ROUGH GRADING OPERATIONS AND PRIOR TO THE CONSTRUCTION OF ANY PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO CONTIGUOUS PROPERTIES AND EXISTING WWTIP FACILITIES.

16. DUST

ABBREVIATIONS

Table of abbreviations including AB (Aggregate Base), AC (Asphalt Concrete), APN (Assessor's Parcel Number), etc.

Table of abbreviations including OFF (Offset), O.C. (On Center), OD (Outside Diameter), etc.

LEGEND

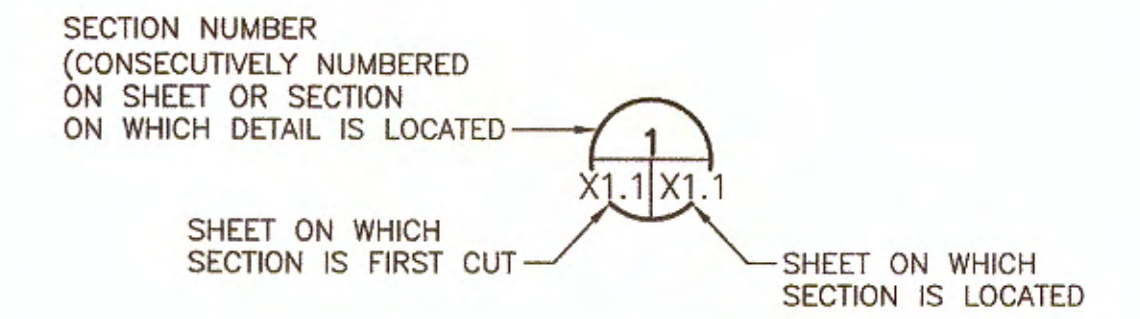
Legend symbols and descriptions including EXISTING BUILDING/STRUCTURE, NEW BUILDING/STRUCTURE, EXISTING FENCE, etc.

FLANGED FITTINGS

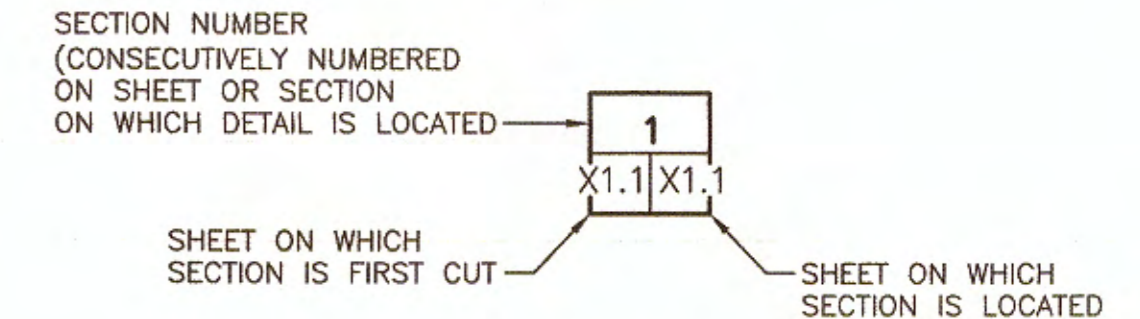
Flanged fittings symbols and descriptions including CROSS, CROSS UP, TEE, TEE UP, TEE DOWN, etc.

MECHANICAL JOINT FITTINGS

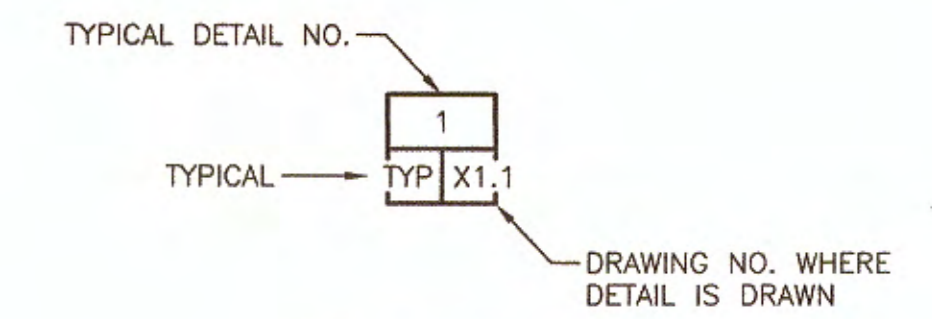
Mechanical joint fittings symbols and descriptions including CROSS, TEE, REDUCING TEE, LATERAL, etc.



SECTION KEY



DETAIL KEY

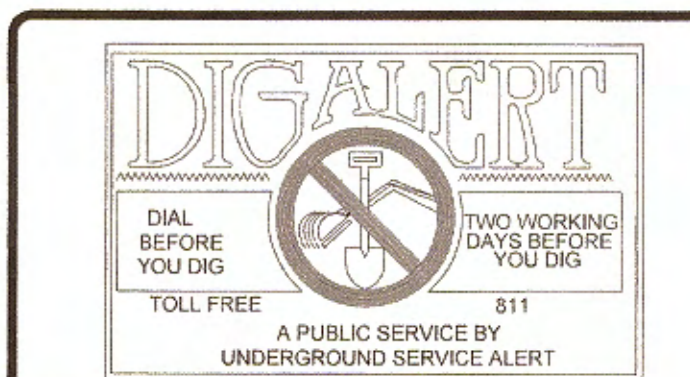


TYPICAL DETAIL

SHEET CATEGORY

Sheet category table with columns G (General), D (Details), NP (Native Plants), etc.

AS-BUILTS 05/16/2014



Valentine Environmental Engineers, LLC logo and contact information: 15845 South 46th Street, Suite 144 Phoenix, Arizona 85048.

Vertical text on the left margin: no modifications to these plans, other than adding as-built information, are permitted by anyone other than authorized V.E.E. employees.

Revision table with columns: REVISION, DATE, COMMENTS.

Professional Engineer seal for David M. Kopchynski, State of California, No. 61977, Exp. 9-30-15.

Prepared under the direct supervision of: David M. Kopchynski, R.C.E. No. 61977, DATE 1/23/14, REG. EXP. 9-30-15.

Professional Engineer seal for William S. Brunet, State of California, No. 61999, Expires 6-30-15.

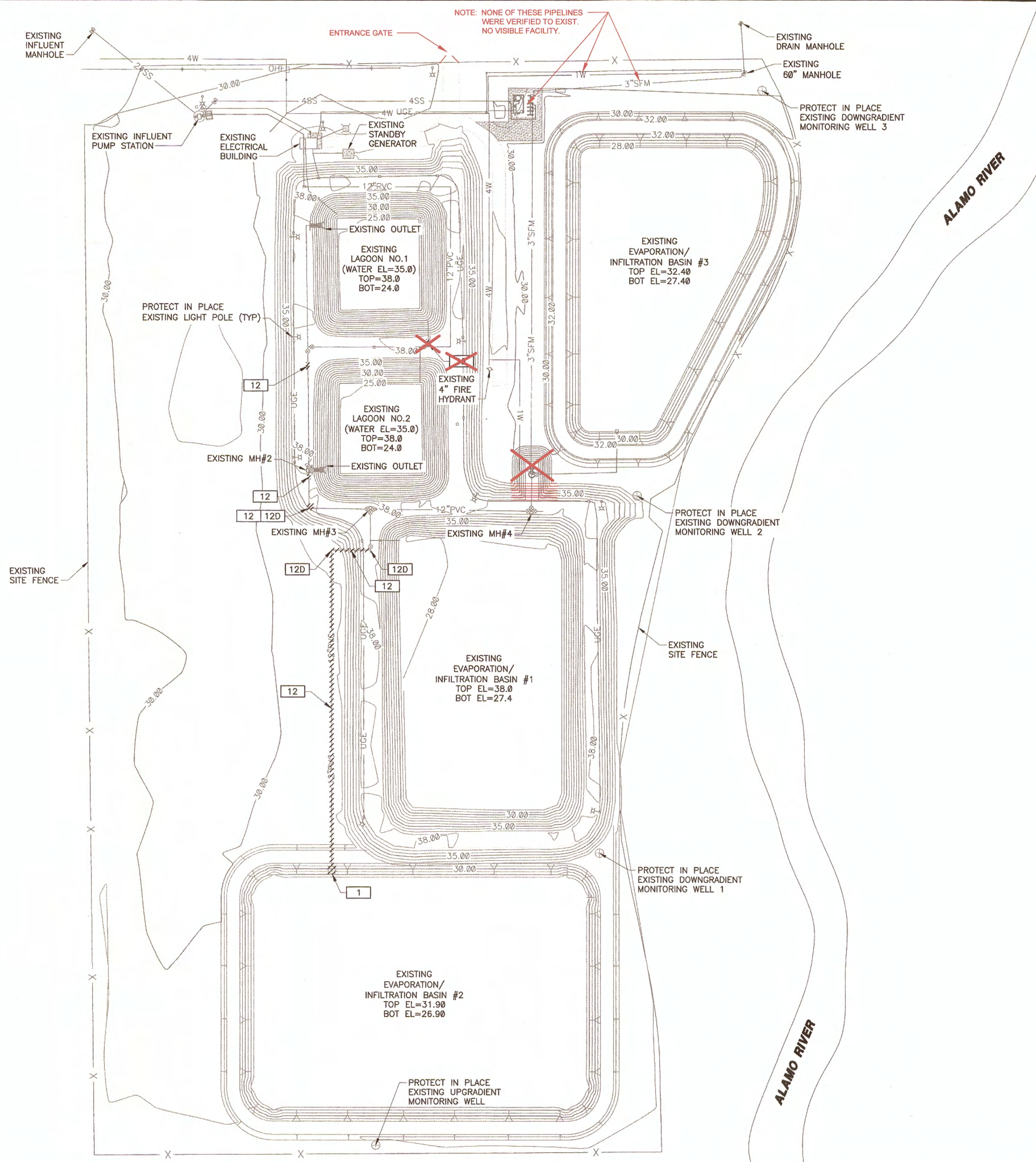
County of Imperial Public Works Department approved for construction by: William S. Brunet, R.C.E. No. 61599, DATE FEB 06 2014, REG. EXP. 6-30-15.

Public Works Department logo and text: COUNTY OF IMPERIAL EL CENTRO, CALIFORNIA.

DATE 1/23/14, DRAWN C.BIA, SCALE NONE, CHECKED DMK / TAV / MPV.

PROJECT TITLE: GATEWAY OF THE AMERICAS COUNTY SERVICE AREA SEWER TREATMENT PLANT EXPANSION COUNTY PROJECT.

Abbreviations & Legend table with columns: REFERENCE, SHEET 3 OF 18.

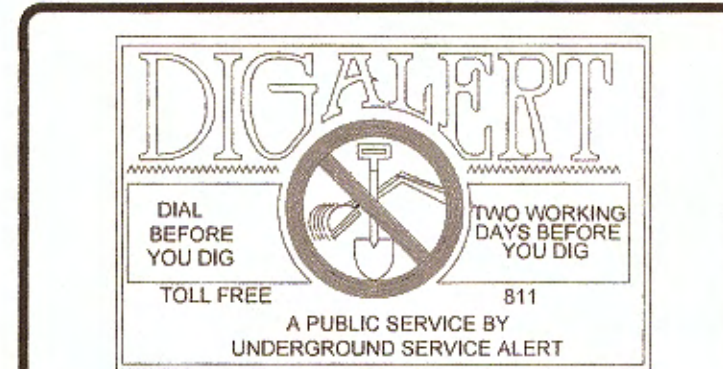
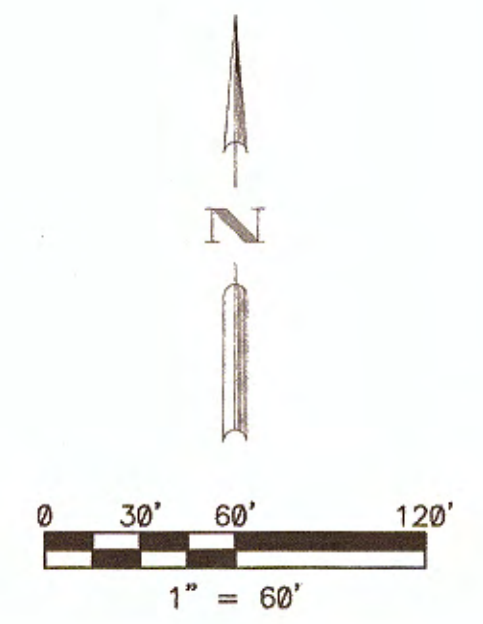


AS-BUILTS
05/16/2014

KEYNOTES

- | | | | |
|-----|---|----|-----|
| 1 | DEMOLISH & REMOVE EXISTING HEADWALL. | EA | 1 |
| 12 | DEMOLISH & REMOVE EXISTING 12" PIPE & FITTINGS (AS SHOWN). CONSULT WITH THE OWNER FOR ANY ITEMS TO BE SALVAGED. | LF | 400 |
| 12D | DEMOLISH & REMOVE EXISTING 12" - 90° BEND. | EA | 3 |
- (*) INDICATES DIMENSIONS, DISTANCES, COORDINATES OR ELEVATIONS TO BE SURVEYED AND FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING ANY OF THE WORK.
- (**) INDICATES DIMENSIONS OR ELEVATIONS TO BE DETERMINED BASED UPON EQUIPMENT MANUFACTURER SELECTED.
- (R) INDICATES RESTRAINED JOINT. ALL PIPING, JOINTS, FITTINGS, VALVES AND APPURTENANCES SHALL BE FULLY RESTRAINED.
- (#) INDICATES QUANTITY LOCATED ON A DIFFERENT SHEET.
- GENERAL NOTES:

1. CONTRACTOR SHALL INSTALL SHEETING, SHORING, AND/OR PIPE SUPPORTS TO FACILITATE COMPLETE PROTECTION AND CONTINUAL OPERATION OF ALL UTILITIES (AS SHOWN OR EXPOSED DURING CONSTRUCTION) WITHIN THE WORK AREA. COORDINATE REPLACEMENT OF ALL DAMAGED OR DISTURBED UTILITIES BY CONTRACTOR CREW OR ACTIVITIES ASSOCIATED WITH THIS PROJECT AS REQUIRED. INCORPORATE THIS EFFORT WITHIN THE ORIGINAL PROJECT SCHEDULE AND COST(S).

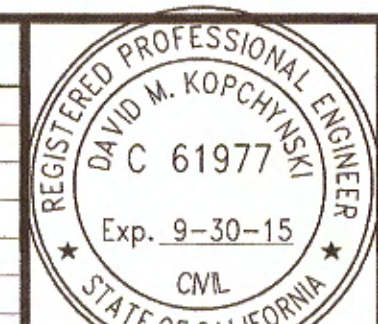


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Environmental Engineers, LLC

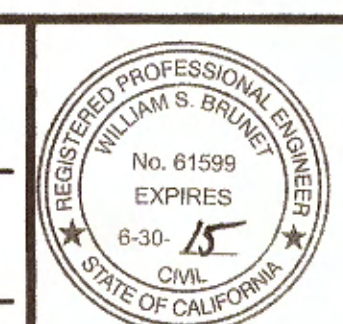
15845 South 46th Street, Suite 144 Phoenix, Arizona 85048
Phone: (480) 283-8991 Fax: (480) 283-0082

No modifications to these plans, other than adding "as-built" information, are permitted by anyone other than authorized VEE employees.

REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
David M. Kopchynski
 DAVID M. KOPCHYNSKI
 61977 R.C.E. No.
 9-30-15 REG. EXP.
 1/23/14 DATE



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
William S. Brunet
 WILIAM S. BRUNET
 61599 R.C.E. No.
 6-30-15 REG. EXP.
 FEB 06 2014 DATE

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

DATE 1/23/14
 DRAWN C.BIA
 SCALE 1" = 1'-0"
 CHECKED
 DMK / TAV / MPV

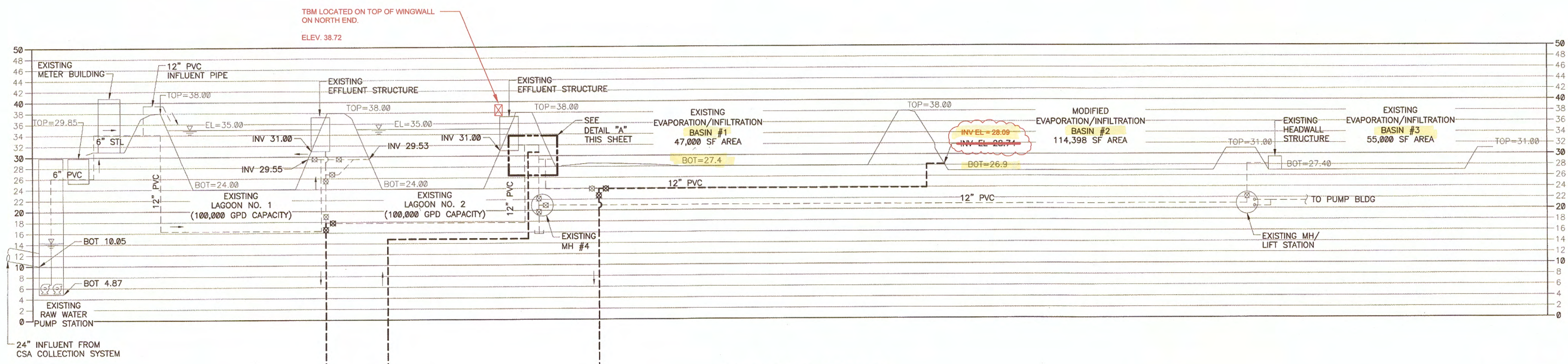
PROJECT TITLE
**GATEWAY OF THE AMERICAS
 COUNTY SERVICE AREA
 SEWER TREATMENT PLANT EXPANSION
 COUNTY PROJECT**

EXISTING OVERALL SITE AND DEMOLITION PLAN

REFERENCE R-

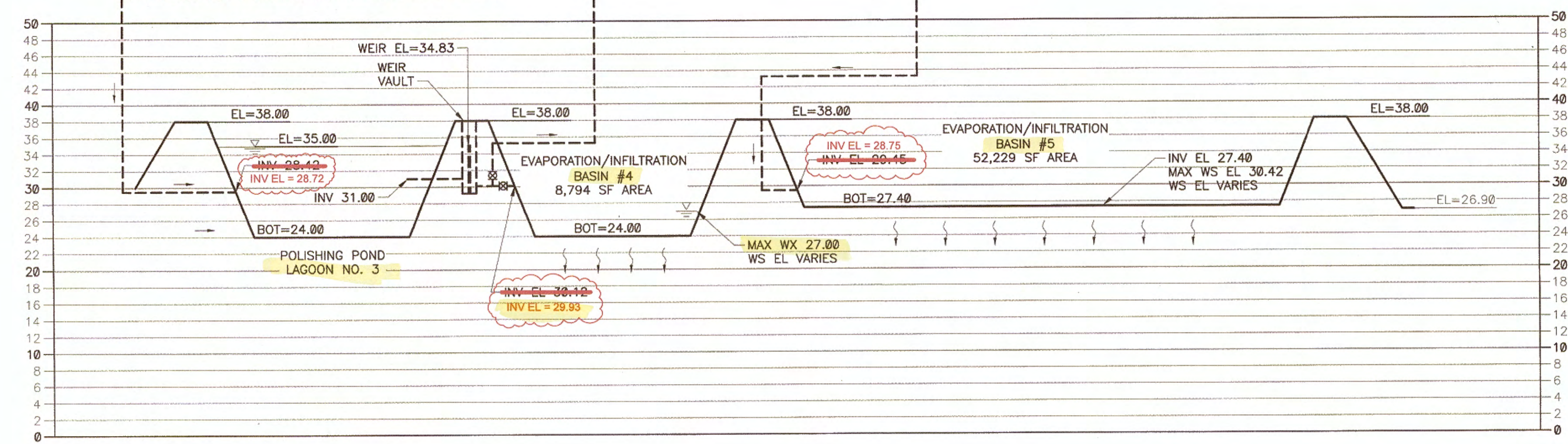
SHEET 4 OF 18

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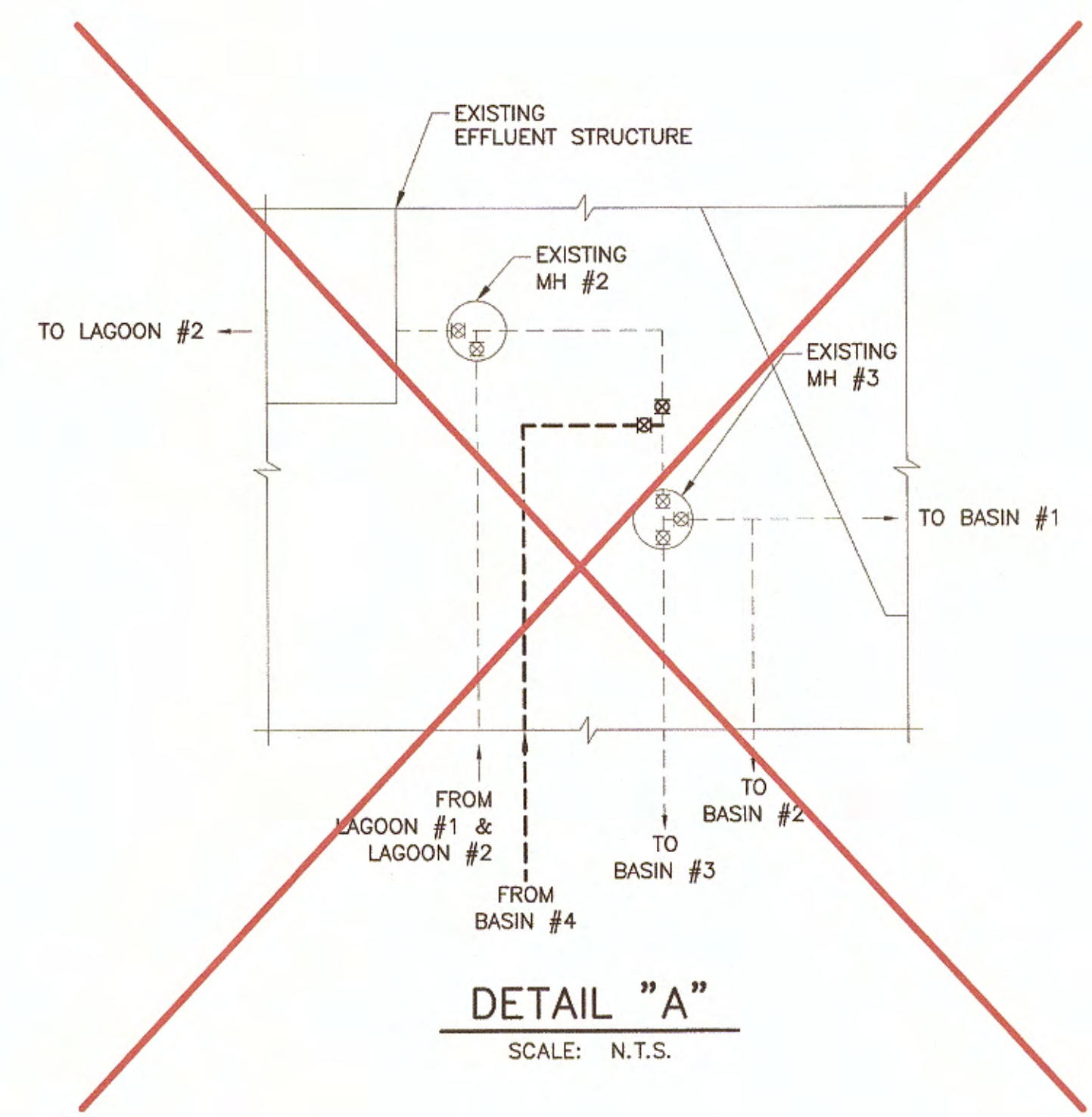
HYDRAULIC PROFILE

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 10'

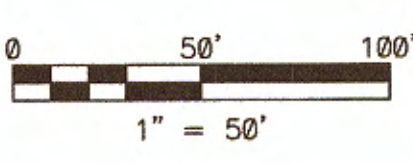


HYDRAULIC PROFILE, CONTINUED

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 10'

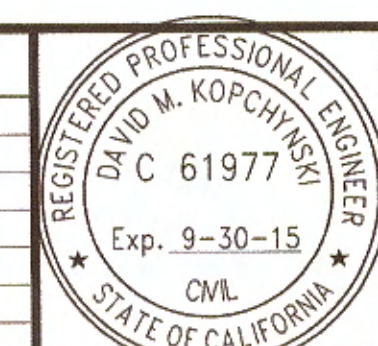


AS-BUILTS
05/16/2014

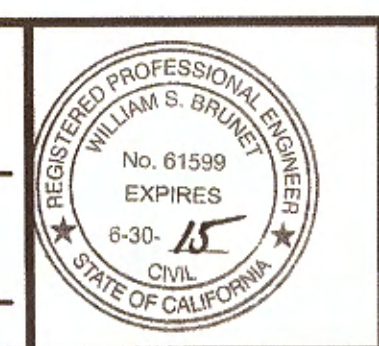


VALENTINE
Environmental Engineers, LLC
15845 South 46th Street, Suite 144 Phoenix, Arizona 85048
Phone: (480) 263-8991 Fax: (480) 263-0082

REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
David M. Kopchynski
DAVID M. KOPCHYNSKI
61977 R.C.E. No.
1/23/14 DATE
9-30-15 REG. EXP.

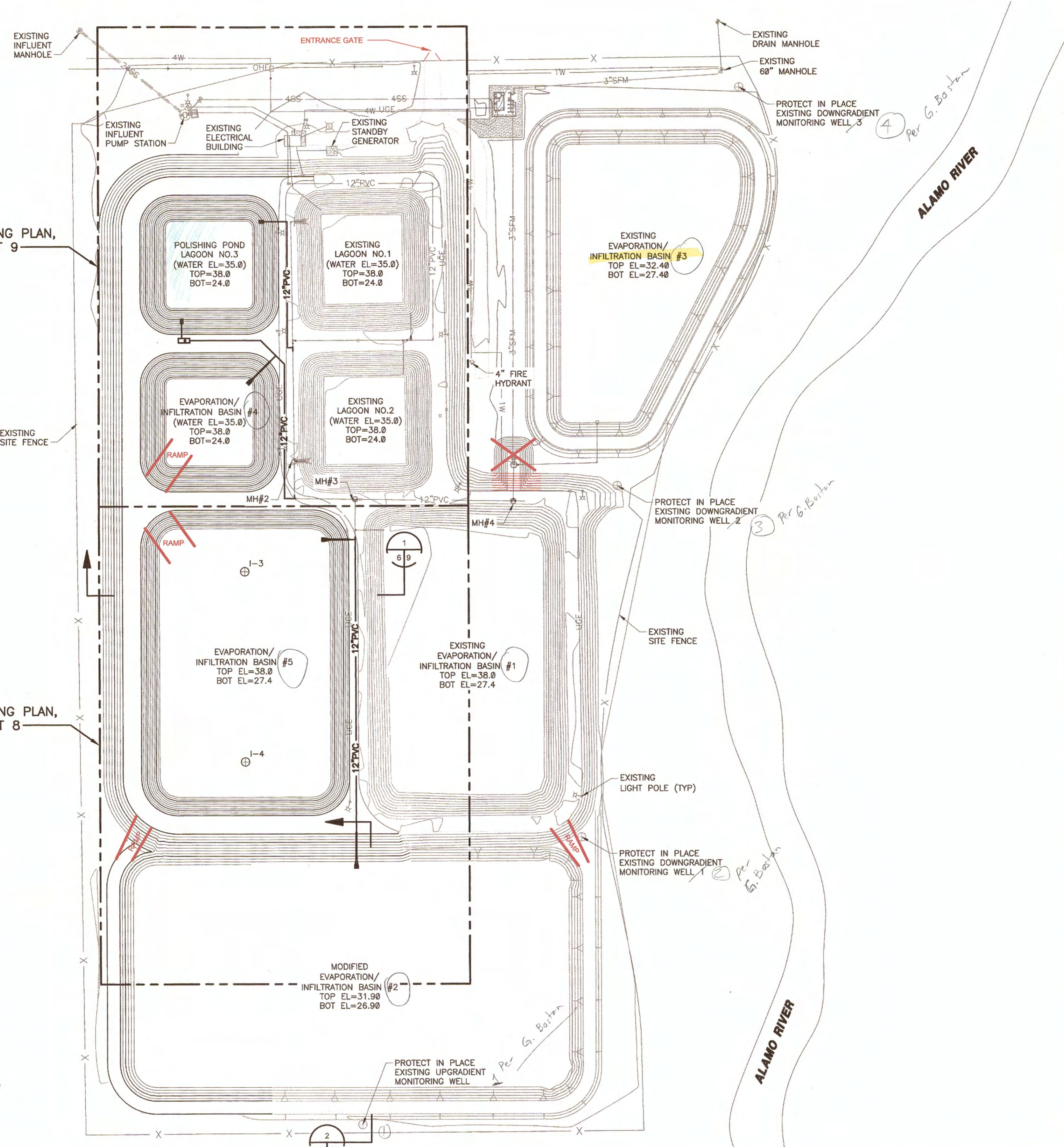


COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
William S. Brunet 61599 R.C.E. No.
FEB 06 2014 DATE
6-30-15 REG. EXP.

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE: 1/23/14
DRAWN: C.BIA
SCALE: AS NOTED
CHECKED: DMK / TAV / MPV
PROJECT TITLE:
**GATEWAY OF THE AMERICAS
COUNTY SERVICE AREA
SEWER TREATMENT PLANT EXPANSION
COUNTY PROJECT**

REFERENCE	R-
SHEET	5
OF	18



ENLARGED YARD PIPING PLAN, SEE SHEET 9

ENLARGED YARD PIPING PLAN, SEE SHEET 8

DESIGN CRITERIA

CAPACITY AND LOADING

AVERAGE DAILY FLOW	0.2 MGD
PEAK DAILY FLOW	0.4 MGD
INFLUENT BOD	200 MG/L
BOD LOADING	255 LB/ACRE/DAY
INFLUENT TSS	240 MG/L
TSS LOADING	307 LB/ACRE/DAY

LAGOONS

2 IN SERIES WITH POLISHING POND

AERATED LAGOONS DETENTION TIME: 12 DAYS = 6 days on each lagoon

AERATED LAGOONS PLUS POLISHING POND DETENTION TIME: 18 DAYS

TOTAL LAGOON VOLUME: 473,850 CU. FT

LAGOON SURFACE AREA: 1,305 ACRES

AERATION: 30 HP PER AERATED LAGOON

INFILTRATION/EVAPORATION BASINS

TESTED MINIMUM INFILTRATION RATE: 2.28 FT/DAY/SF

ADJUSTMENT FACTOR: 0.04

MINIMUM DESIGN INFILTRATION RATE: 0.09 FT/DAY

BASIN #1 (EXISTING) - 10 FT OVERALL DEPTH
 BOTTOM AREA - 47,000 SQUARE FEET
 VOLUME @ 3FT OPERATING DEPTH - 1,100,000 GALLONS

BASIN #2 (EXISTING) - 5 FT OVERALL DEPTH
 BOTTOM AREA - 114,398 SQUARE FEET
 VOLUME @ 1FT OPERATING DEPTH - 925,600 GALLONS

BASIN #3 (EXISTING) - 5 FT OVERALL DEPTH
 BOTTOM AREA - 55,000 SQUARE FEET
 VOLUME @ 3FT OPERATING DEPTH - 450,000 GALLONS

BASIN #4 (NEW) - 14 FT OVERALL DEPTH
 BOTTOM AREA - 8,794 SQUARE FEET
 VOLUME @ 3FT OPERATING DEPTH - 336,000 GALLONS

BASIN #5 (NEW) - 10.6 FT OVERALL DEPTH
 BOTTOM AREA - 52,229 SQUARE FEET
 VOLUME @ 3FT OPERATING DEPTH - 1,425,000 GALLONS

TOTAL BASIN BOTTOM AREA: 268,627 FT² (EXCLUDING BASIN #4)

TOTAL BASIN VOLUME (AT 1 TO 3 FT OPERATING DEPTHS AS INDICATED): 4,237,200 GALLONS

1-3 INFILTRATION RATE - 2.28 FT/DAY

1-4 INFILTRATION RATE - 2.36 FT/DAY

AS-BUILTS
05/16/2014

DIG ALERT

DIAL BEFORE YOU DIG

TWO WORKING DAYS BEFORE YOU DIG

TOLL FREE 811

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

VALENTINE
Environmental Engineers, LLC

15845 South 46th Street, Suite 144 Phoenix, Arizona 85048
 Phone: (480) 283-8991 Fax: (480) 283-0082

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

David M. Kopchynski R.C.E. No. 61977

DAVID M. KOPCHYNSKI R.C.E. No. 61977

1/23/14 DATE 9-30-15 REG. EXP.

COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT

APPROVED FOR CONSTRUCTION BY:

Walter S. Brunet R.C.E. No. 61599

Walter S. Brunet R.C.E. No. 61599

FEB 06 2014 DATE 6-30-15 REG. EXP.

PUBLIC WORKS DEPARTMENT

COUNTY OF IMPERIAL

EL CENTRO, CALIFORNIA

DATE 1/23/14

DRAWN C.BIA

SCALE 1" = 1'-0"

CHECKED DMK / TAV / MPV

PROJECT TITLE

GATEWAY OF THE AMERICAS

COUNTY SERVICE AREA

SEWER TREATMENT PLANT EXPANSION

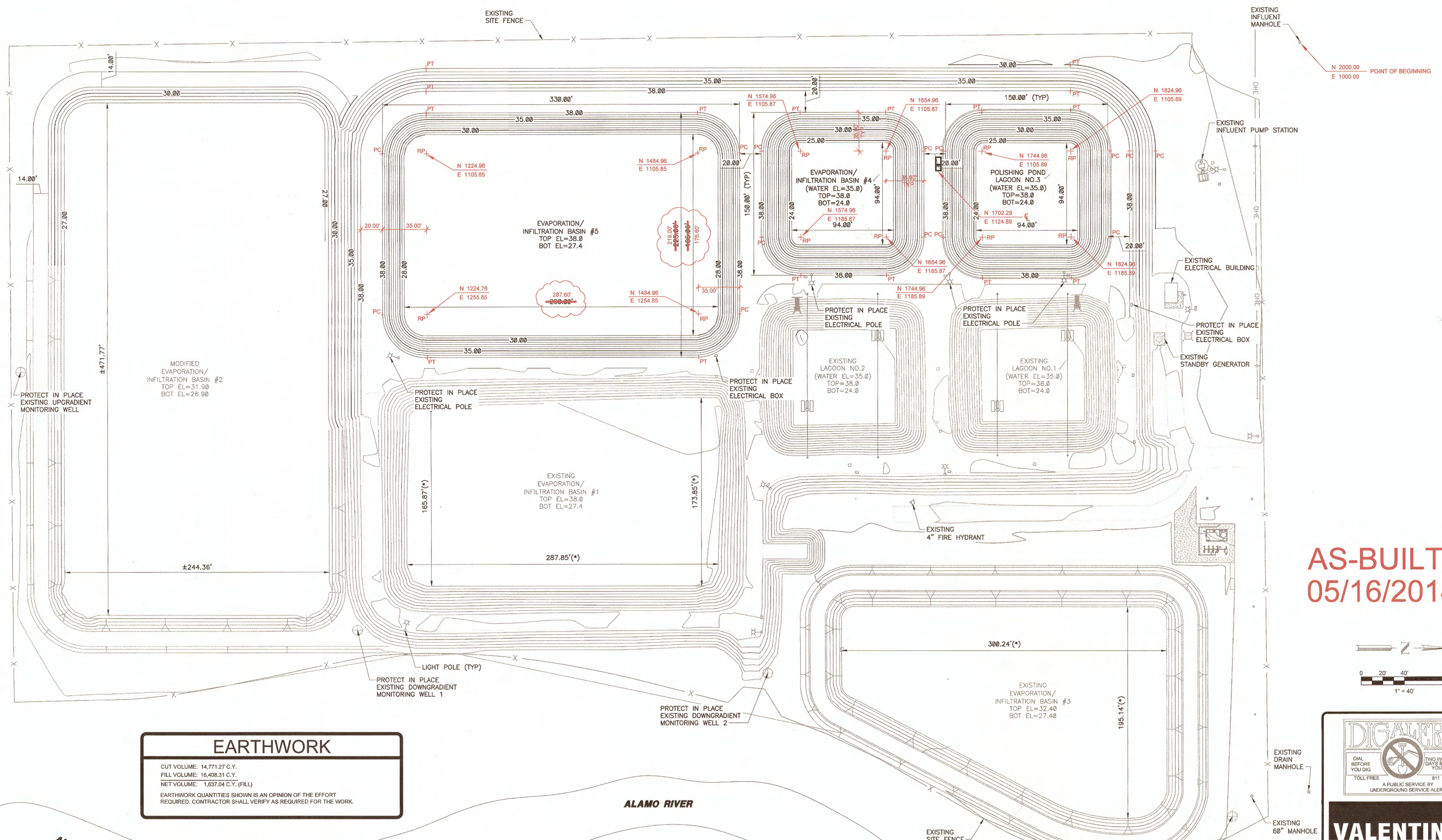
COUNTY PROJECT

OVERALL SITE PLAN

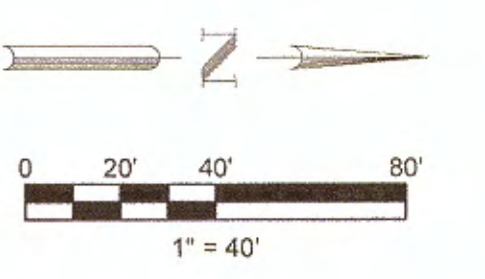
REFERENCE R-

SHEET 6 OF 18

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AS-BUILTS
05/16/2014



EARTHWORK
 CUT VOLUME: 14,771.27 C.Y.
 FILL VOLUME: 16,408.31 C.Y.
 NET VOLUME: 1,637.04 C.Y. (FILL)
 EARTHWORK QUANTITIES SHOWN IS AN OPINION OF THE EFFORT REQUIRED. CONTRACTOR SHALL VERIFY AS REQUIRED FOR THE WORK.



VALENTINE
Environmental Engineers, LLC
 15845 South 46th Street, Suite 144 Phoenix, Arizona 85048
 Phone: (480) 283-8991 Fax: (480) 283-0062

REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
 David M. Kopchynski
 DAVID M. KOPCHYNSKI
 61977 R.C.E. No.
 1/23/14 DATE 9-30-15 REG. EXP.



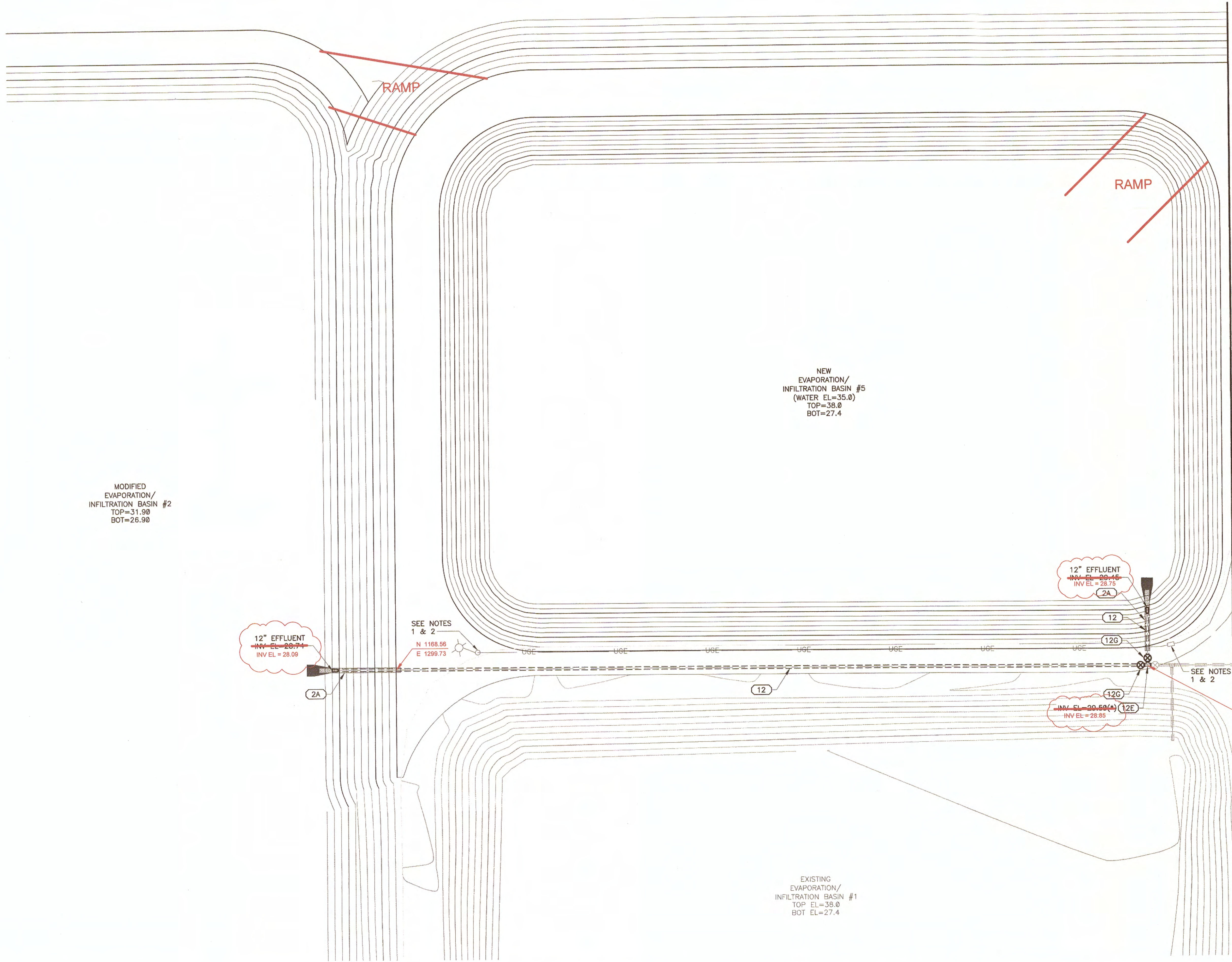
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
 William S. Brunet
 61599 R.C.E. No.
 FEB 06 2014 DATE 6-30-15 REG. EXP.

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

DATE 1/23/14
 DRAWN C.BIA
 SCALE 1" = 1'-0"
 CHECKED DMK / TAV / MPV

PROJECT TITLE
GATEWAY OF THE AMERICAS
COUNTY SERVICE AREA
SEWER TREATMENT PLANT EXPANSION
COUNTY PROJECT

GRADING AND DRAINAGE PLAN
 REFERENCE R-
 SHEET 7 OF 18



KEYNOTES

(2A)	OUTLET PIPE PENETRATION PER DETAIL 8, ON SHEET 11.	EA	2
(12)	PROVIDE 12" PIPE (C900 PER GENERAL NOTES).	LF	370
(12E)	PROVIDE 12"x12"x12" TEE.	EA	1
(12G)	PROVIDE 12" GATE VALVE, VALVE BOX AND COVER IN ACCORDANCE WITH DETAIL 7, ON SHEET 11.	EA	2

(*) INDICATES DIMENSIONS, DISTANCES, COORDINATES OR ELEVATIONS TO BE SURVEYED AND FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING ANY OF THE WORK.
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 (#) INDICATES QUANTITY LOCATED ON A DIFFERENT SHEET.

- GENERAL NOTES:
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 - CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING ELECTRICAL COMPONENTS, I.E. POLES, GUY WIRES, CONTROLLERS, ETC. AS REQUIRED FOR THE WORK.

AS-BUILTS
05/16/2014

MATCH LINE - SEE SHEET 9 OF 18

MODIFIED
 EVAPORATION/
 INFILTRATION BASIN #2
 TOP=31.90
 BOT=26.90

NEW
 EVAPORATION/
 INFILTRATION BASIN #5
 (WATER EL=35.0)
 TOP=38.0
 BOT=27.4

EXISTING
 EVAPORATION/
 INFILTRATION BASIN #1
 TOP EL=38.0
 BOT EL=27.4

12" EFFLUENT
 INV EL = 28.74
 INV EL = 28.09

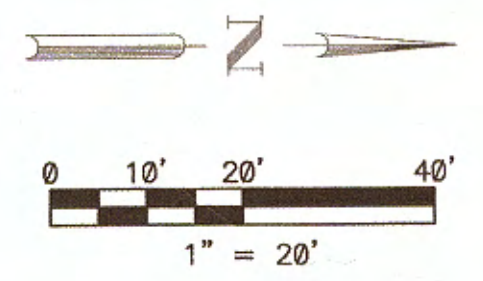
12" EFFLUENT
 INV EL = 28.15
 INV EL = 28.75

12" EFFLUENT
 INV EL = 28.50
 INV EL = 28.85

SEE NOTES
 1 & 2
 N 1168.56
 E 1299.73

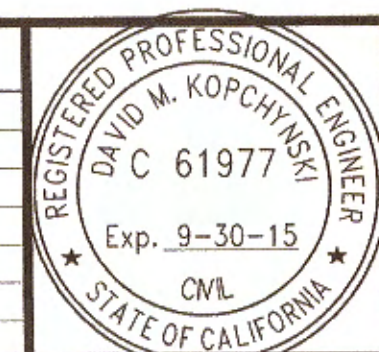
SEE NOTES
 1 & 2

N 1487.82
 E 1300.82

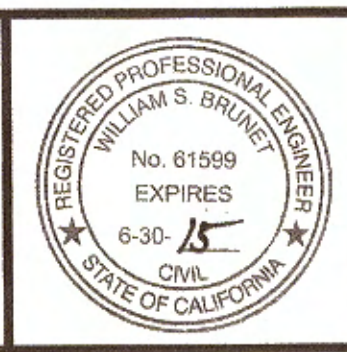


VALENTINE
 Environmental Engineers, LLC
 15845 South 46th Street, Suite 144 Phoenix, Arizona 85048
 Phone: (480) 283-8991 Fax: (480) 283-0082

REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
 David M. Kopchynski
 DAVID M. KOPCHYNSKI
 61977 R.C.E. No.
 1/23/14 DATE
 9-30-15 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
 William S. Bruny
 61599 R.C.E. No.
 FEB 06 2014 DATE
 6-30-15 REG. EXP.

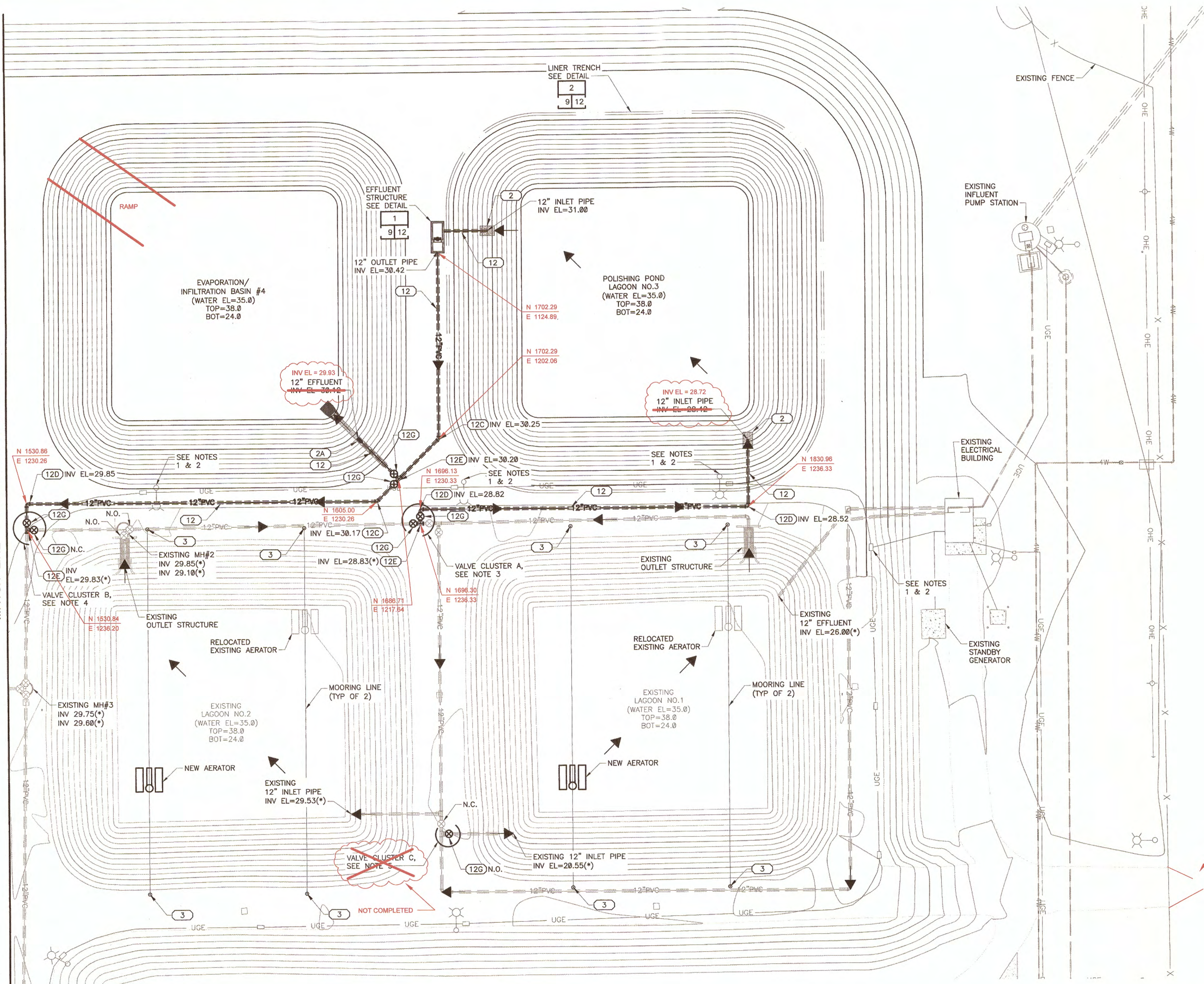
PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

DATE 1/23/14
 DRAWN C.BIA
 SCALE 3/16" = 1'-0"
 CHECKED DMK / TAV / MPV

PROJECT TITLE
**GATEWAY OF THE AMERICAS
 COUNTY SERVICE AREA
 SEWER TREATMENT PLANT EXPANSION
 COUNTY PROJECT**

**ENLARGED
 YARD PIPING I**
 REFERENCE R-
 SHEET 8 OF 18

MATCH LINE - SEE SHEET 8 OF 18



KEYNOTES

(2)	INLET PIPE PENETRATION PER DETAIL 1, ON SHEET 11.	EA	2
(2A)	OUTLET PIPE PENETRATION PER DETAIL B, ON SHEET 11.	EA	1
(3)	PROVIDE MOORING POSTS AS SHOWN AND REQUIRED, TEMPORARILY RELOCATE LINER TO FACILITATE THE WORK AND AFTER THE WORK REINSTALL LINER FOR A LEAK PROOF SYSTEM. MOORING POST SEE DETAIL 6, SEE SHEET 11.	EA	8
(12)	PROVIDE 12" PIPE (C900 PER GENERAL NOTES).	LF	502
(12C)	PROVIDE 12" - 45° BEND.	EA	2
(12D)	PROVIDE 12" - 90° BEND.	EA	3
(12E)	PROVIDE 12"x12"x12" TEE.	EA	3
(12G)	PROVIDE 12" GATE VALVE, VALVE BOX AND COVER IN ACCORDANCE WITH DETAIL 7, ON SHEET 11.	EA	7

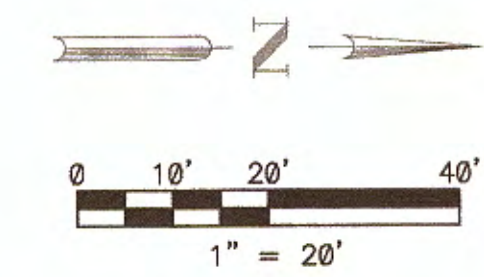
(*) INDICATES DIMENSIONS, DISTANCES, COORDINATES OR ELEVATIONS TO BE SURVEYED AND FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING ANY OF THE WORK.
 (**) INDICATES DIMENSIONS OR ELEVATIONS TO BE DETERMINED BASED UPON EQUIPMENT MANUFACTURER SELECTED.
 (R) INDICATES RESTRAINED JOINT. ALL PIPING, JOINTS, FITTINGS, VALVES AND APPURTENANCES SHALL BE FULLY RESTRAINED.
 (#) INDICATES QUANTITY LOCATED ON A DIFFERENT SHEET.

- GENERAL NOTES:**
- CONTRACTOR SHALL INSTALL SHEETING, SHORING, AND/OR PIPE SUPPORTS TO FACILITATE COMPLETE PROTECTION AND CONTINUAL OPERATION OF ALL UTILITIES (AS SHOWN OR EXPOSED DURING CONSTRUCTION) WITHIN THE WORK AREA. COORDINATE REPLACEMENT OF ALL DAMAGED OR DISTURBED UTILITIES BY CONTRACTOR CREW OR ACTIVITIES ASSOCIATED WITH THIS PROJECT AS REQUIRED. INCORPORATE THIS EFFORT WITHIN THE ORIGINAL PROJECT SCHEDULE AND COST(S).
 - CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING ELECTRICAL COMPONENTS, I.E. POLES, GUY WIRES, CONTROLLERS, ETC. AS REQUIRED FOR THE WORK.
 - PROVIDE AND INSTALL VALVE CLUSTER A IN ACCORDANCE WITH COORDINATION WITH OWNER'S OPERATION, SPECIFICATION SECTION 01047.
 - PROVIDE AND INSTALL VALVE CLUSTER B IN ACCORDANCE WITH COORDINATION WITH OWNER'S OPERATIONS, SPECIFICATION SECTION 01047.
 - ~~PROVIDE AND INSTALL VALVE C IN ACCORDANCE WITH COORDINATION WITH OWNER'S OPERATIONS, SPECIFICATION SECTION 01047.~~

(Red circle around note 5 with arrow pointing to 'NOT COMPLETED' on plan)

NOT COMPLETED

AS-BUILTS
05/16/2014



DIG ALERT

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TWO WORKING DAYS BEFORE YOU DIG

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A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

VALENTINE
Environmental Engineers, LLC

15845 South 46th Street, Suite 144 Phoenix, Arizona 85048
Phone: (480) 283-8991 Fax: (480) 283-0082

REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
David M. Kopchynski
 DAVID M. KOPCHYNSKI
 61977 R.C.E. No.
 1/23/14 DATE
 9-30-15 REG. EXP.



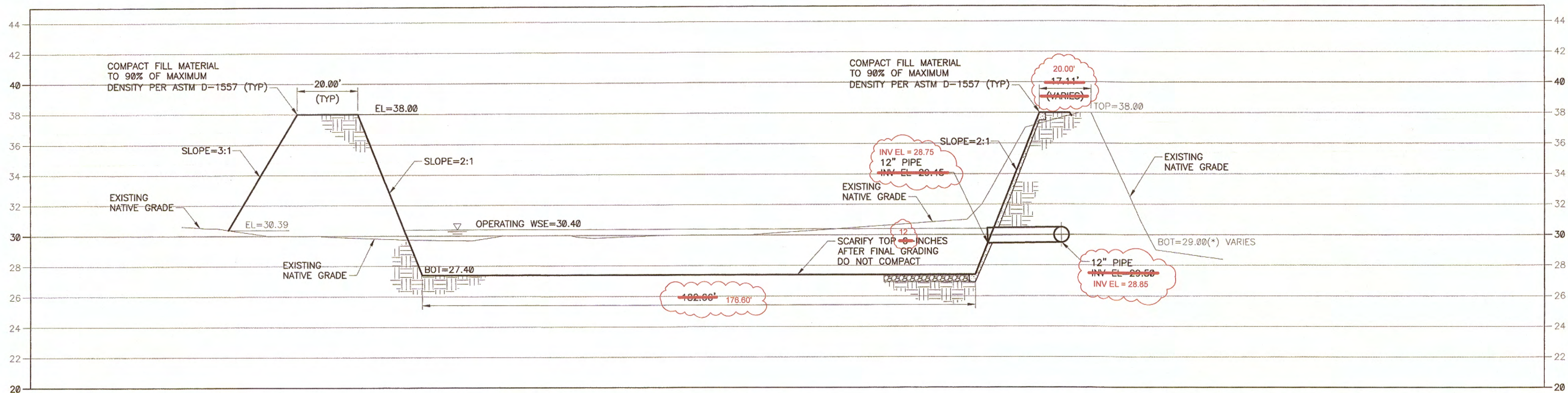
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
William S. Brunet
 WILLIAM S. BRUNET
 61599 R.C.E. No.
 FEB 06 2014 DATE
 6-30-15 REG. EXP.

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

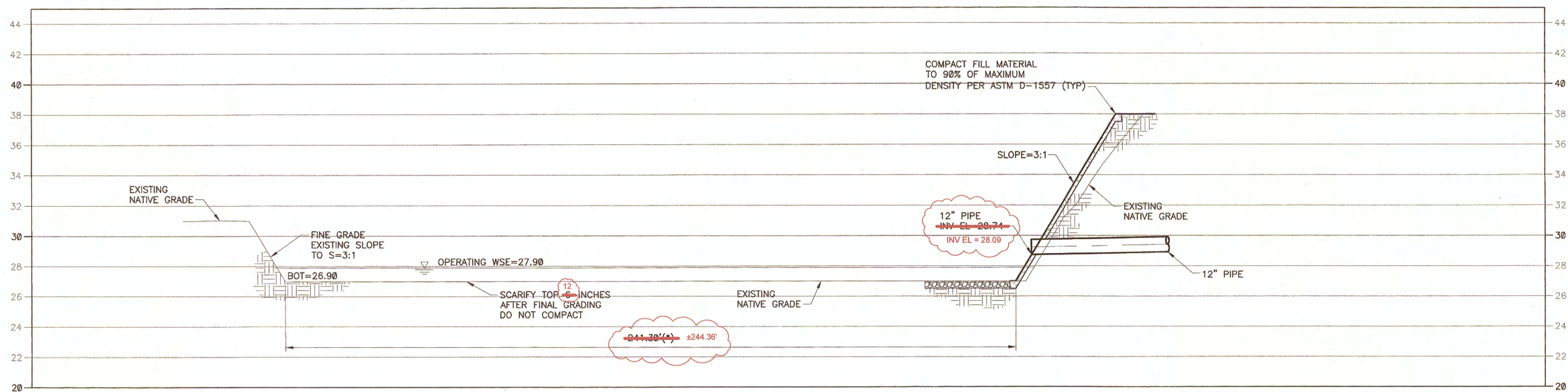
DATE 1/23/14
 DRAWN C. BIA
 SCALE 3/16" = 1'-0"
 CHECKED DMK / TAV / MPV

PROJECT TITLE
**GATEWAY OF THE AMERICAS
 COUNTY SERVICE AREA
 SEWER TREATMENT PLANT EXPANSION
 COUNTY PROJECT**

ENLARGED YARD PIPING II	
REFERENCE	R-
SHEET 9	OF 18

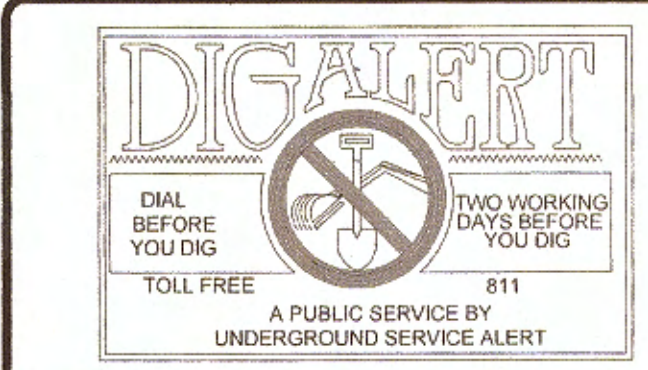


SECTION 1
EVAPORATION/INFILTRATION BASIN #5
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'



SECTION 2
EVAPORATION/INFILTRATION BASIN #2
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

AS-BUILTS
05/16/2014

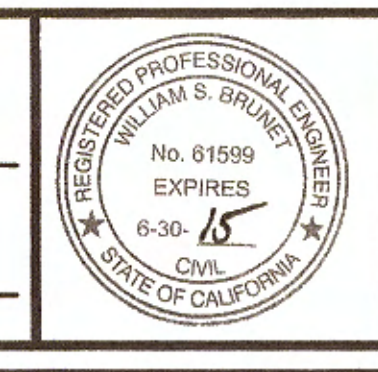


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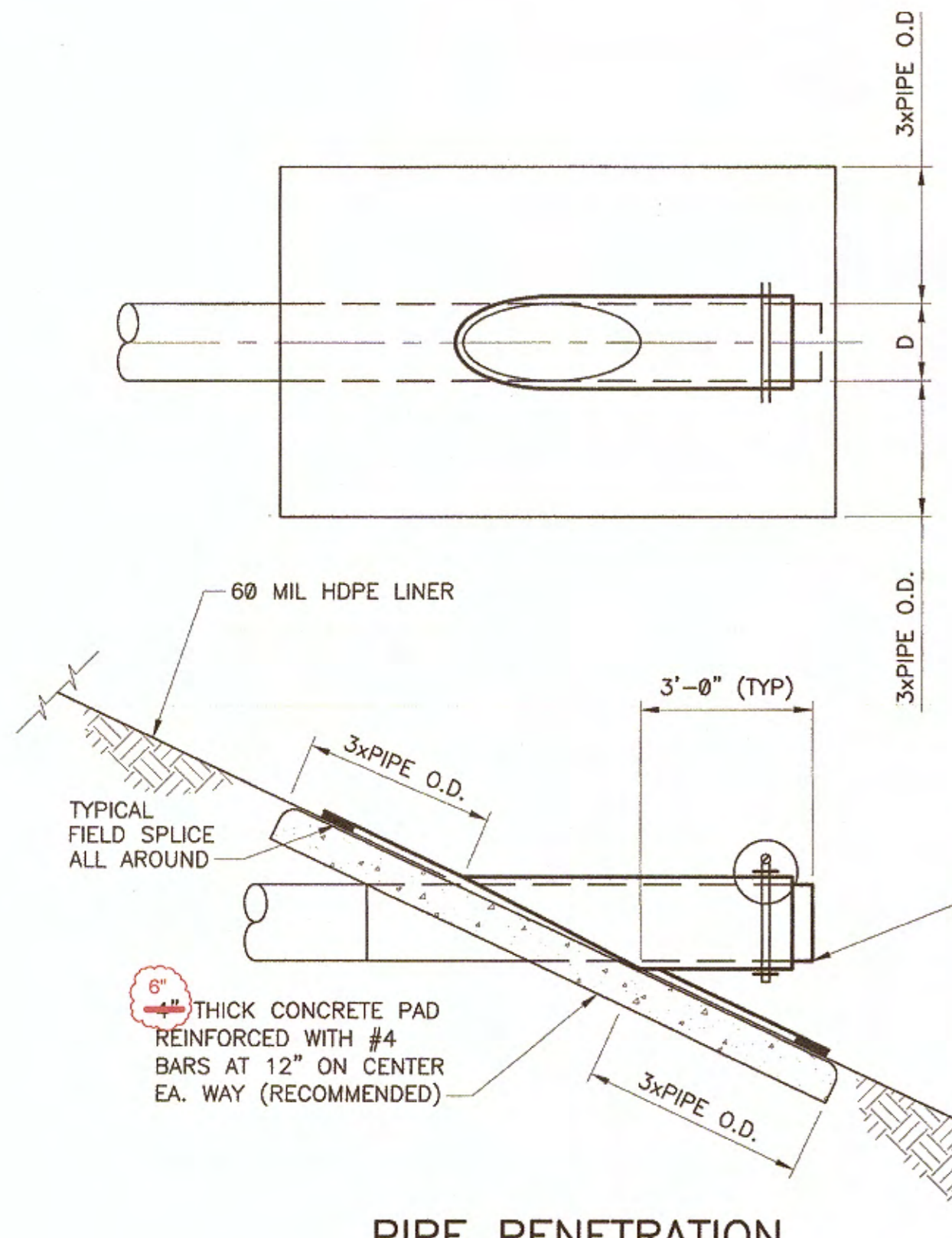
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PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
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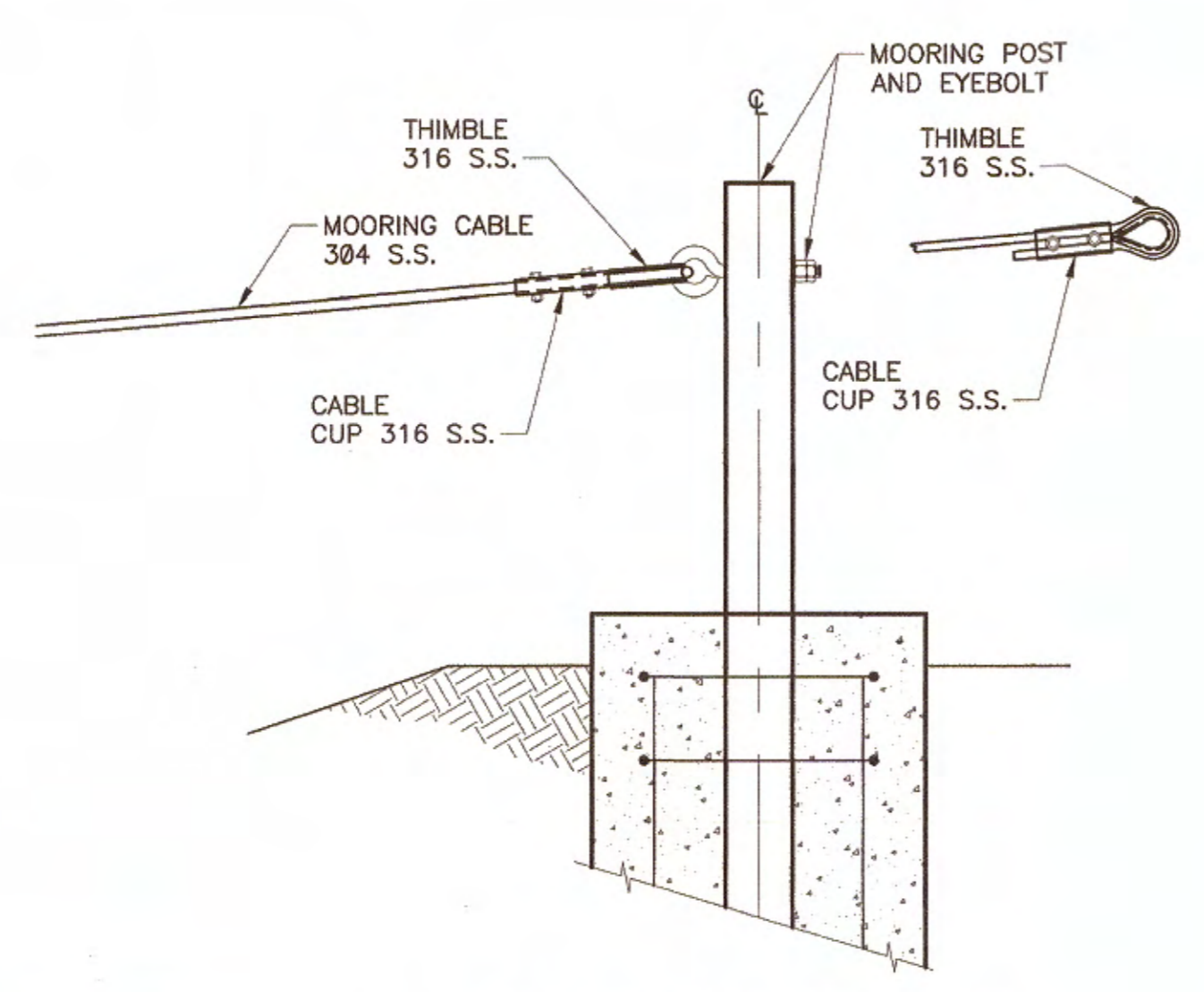
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DRAWN: C.BIA
SCALE: AS NOTED
CHECKED: DMK / TAV / MPV

PROJECT TITLE
GATEWAY OF THE AMERICAS
COUNTY SERVICE AREA
SEWER TREATMENT PLANT EXPANSION
COUNTY PROJECT

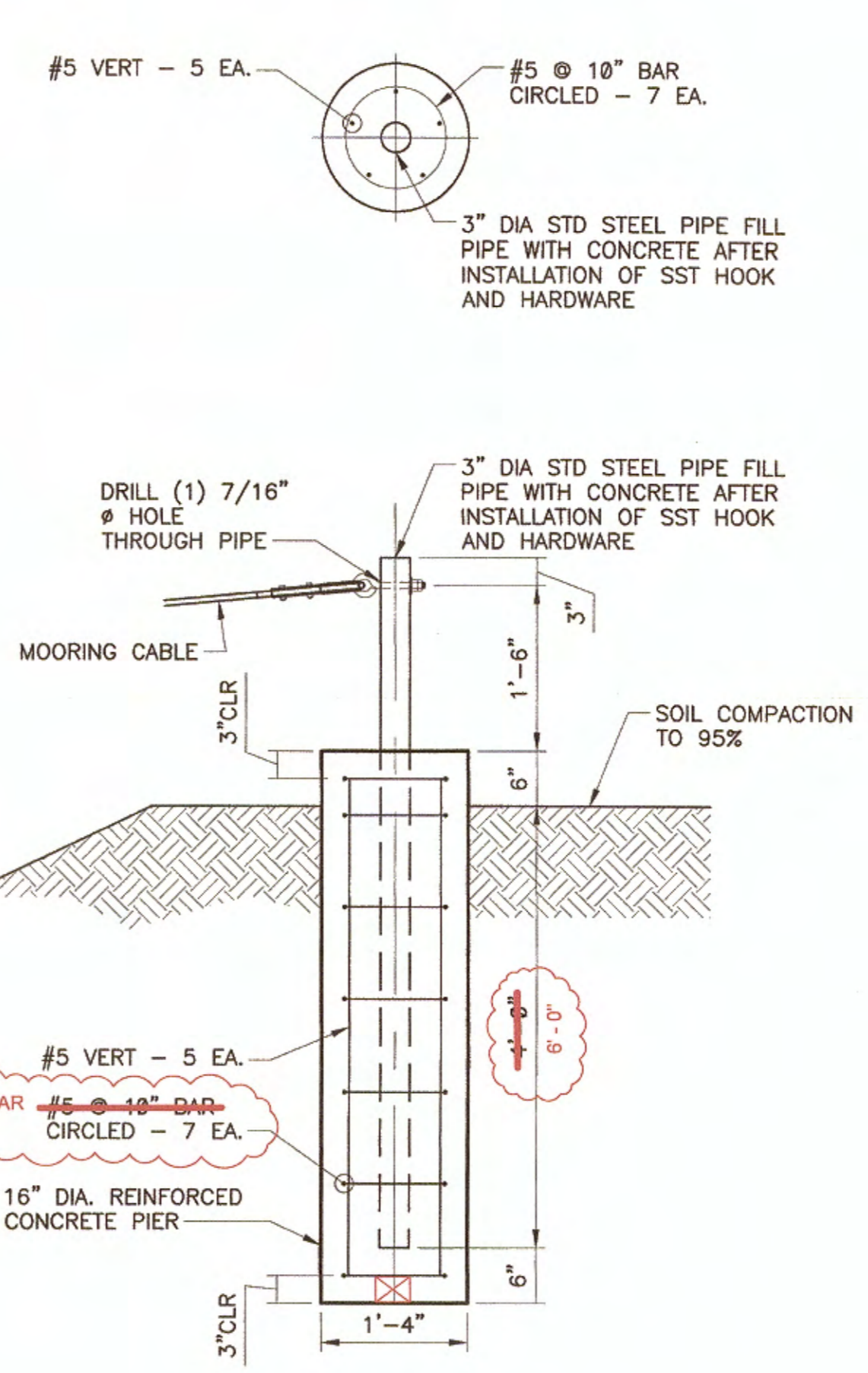
CROSS SECTIONS	
REFERENCE	R-
SHEET	10
OF	18



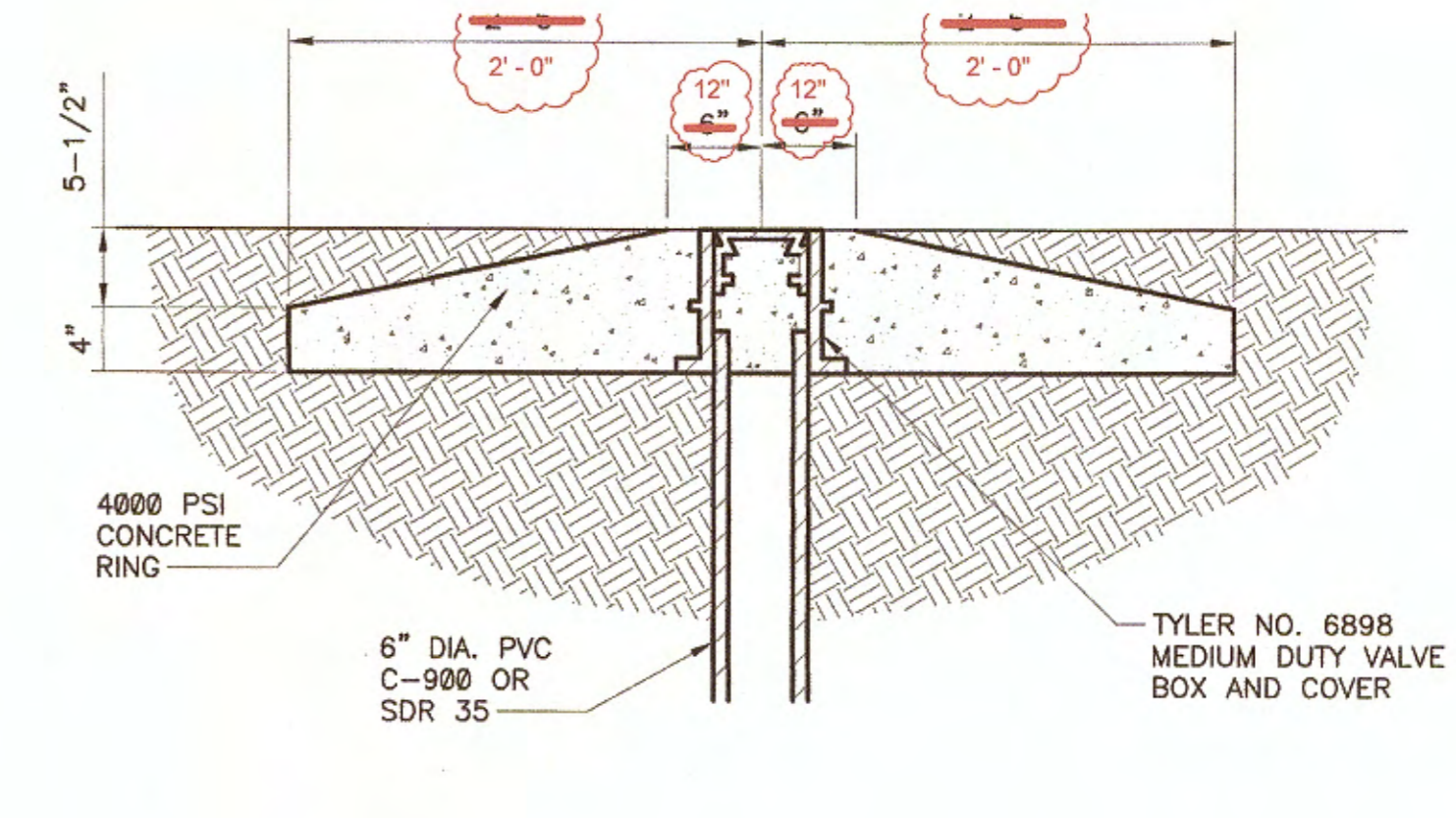
PIPE PENETRATION WITH COLLAR DETAIL
SCALE: NTS



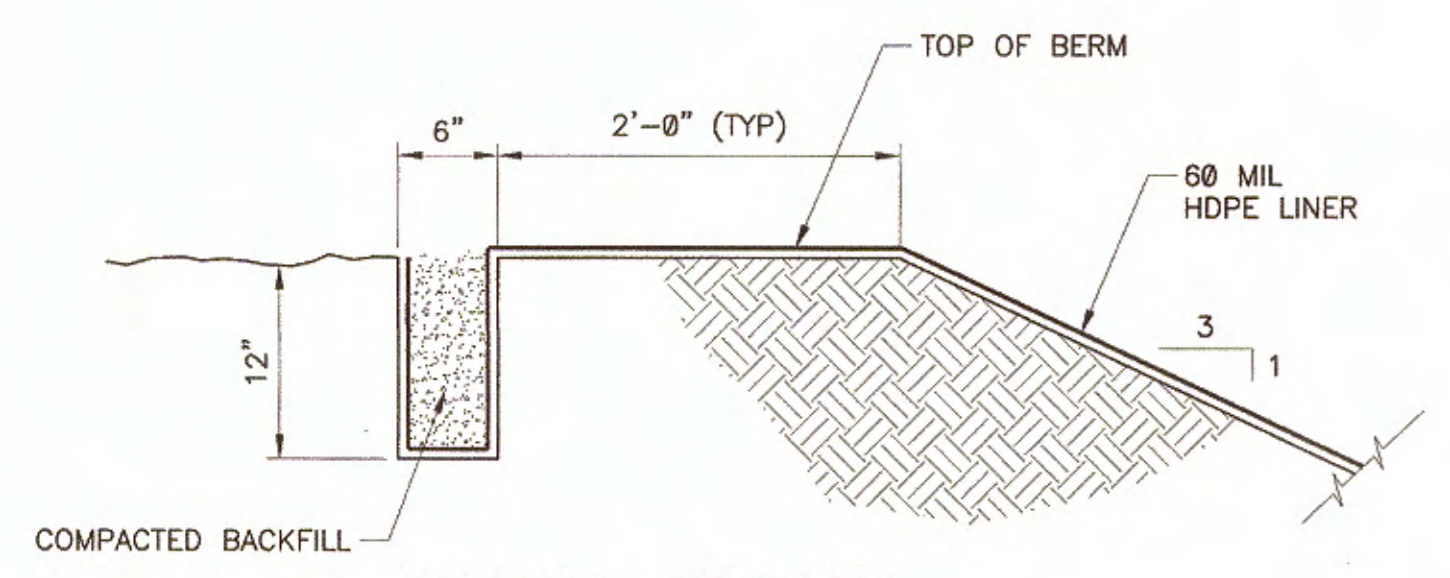
SHORE MAINTENANCE MOORING DETAIL
SCALE: NTS



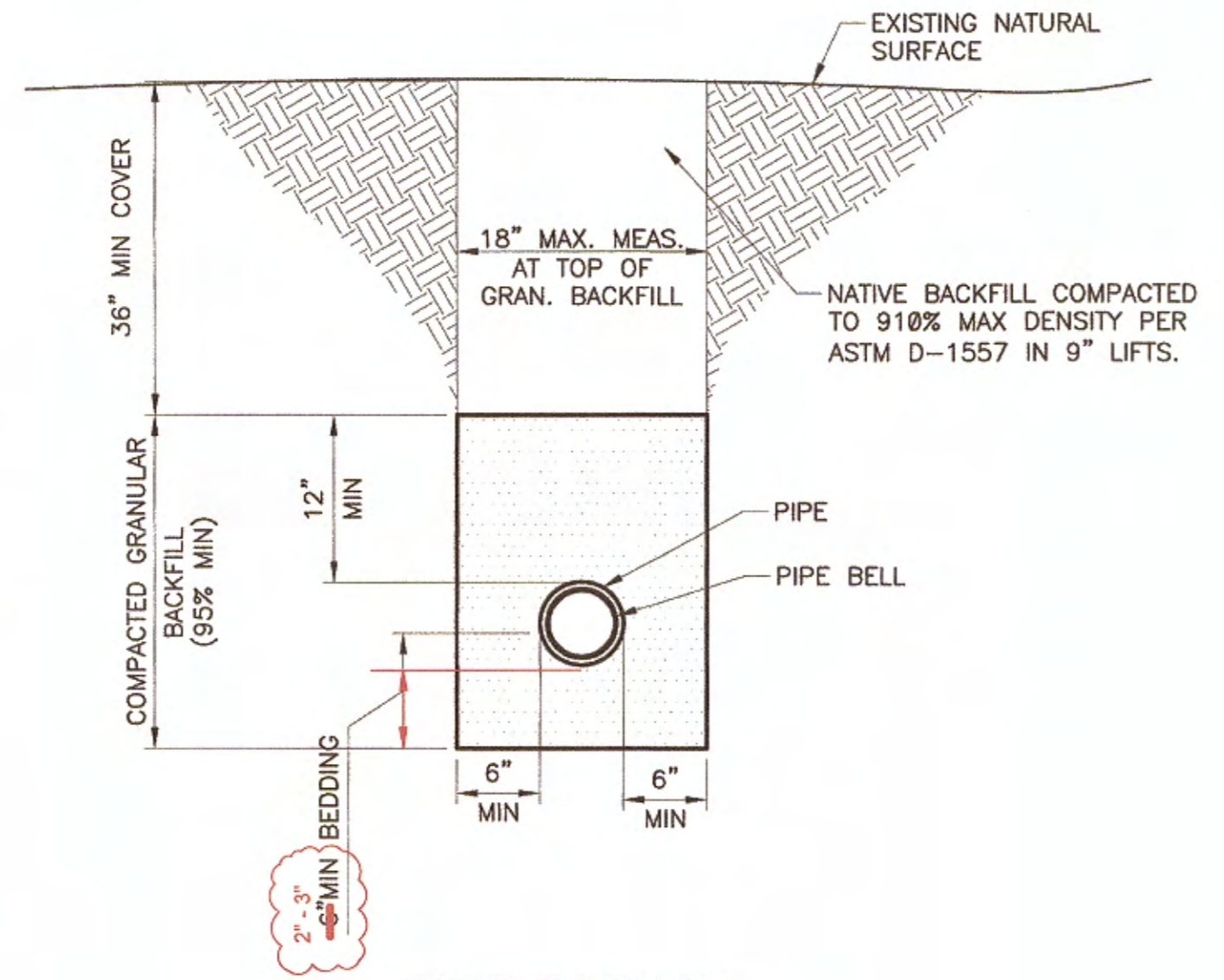
TYPICAL MOORING POST DETAIL
SCALE: NTS



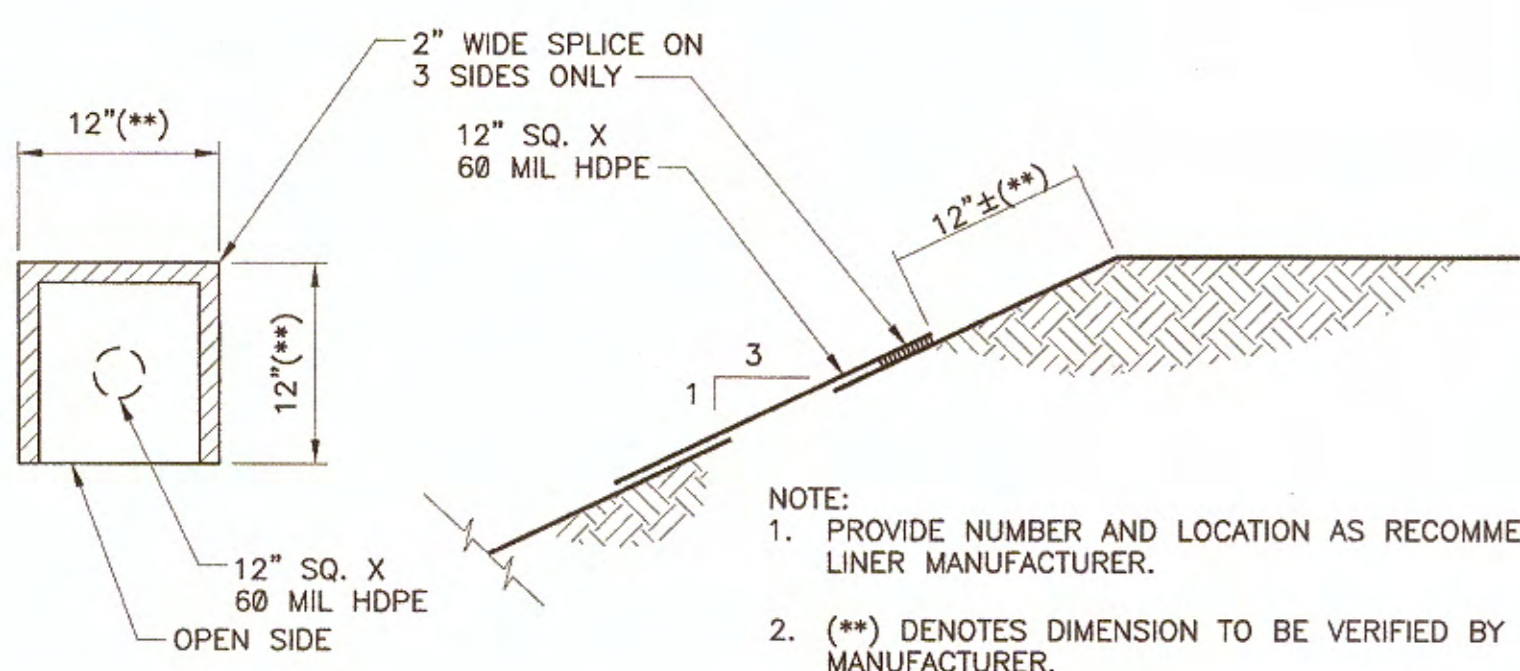
VALVE DETAIL
SCALE: NTS



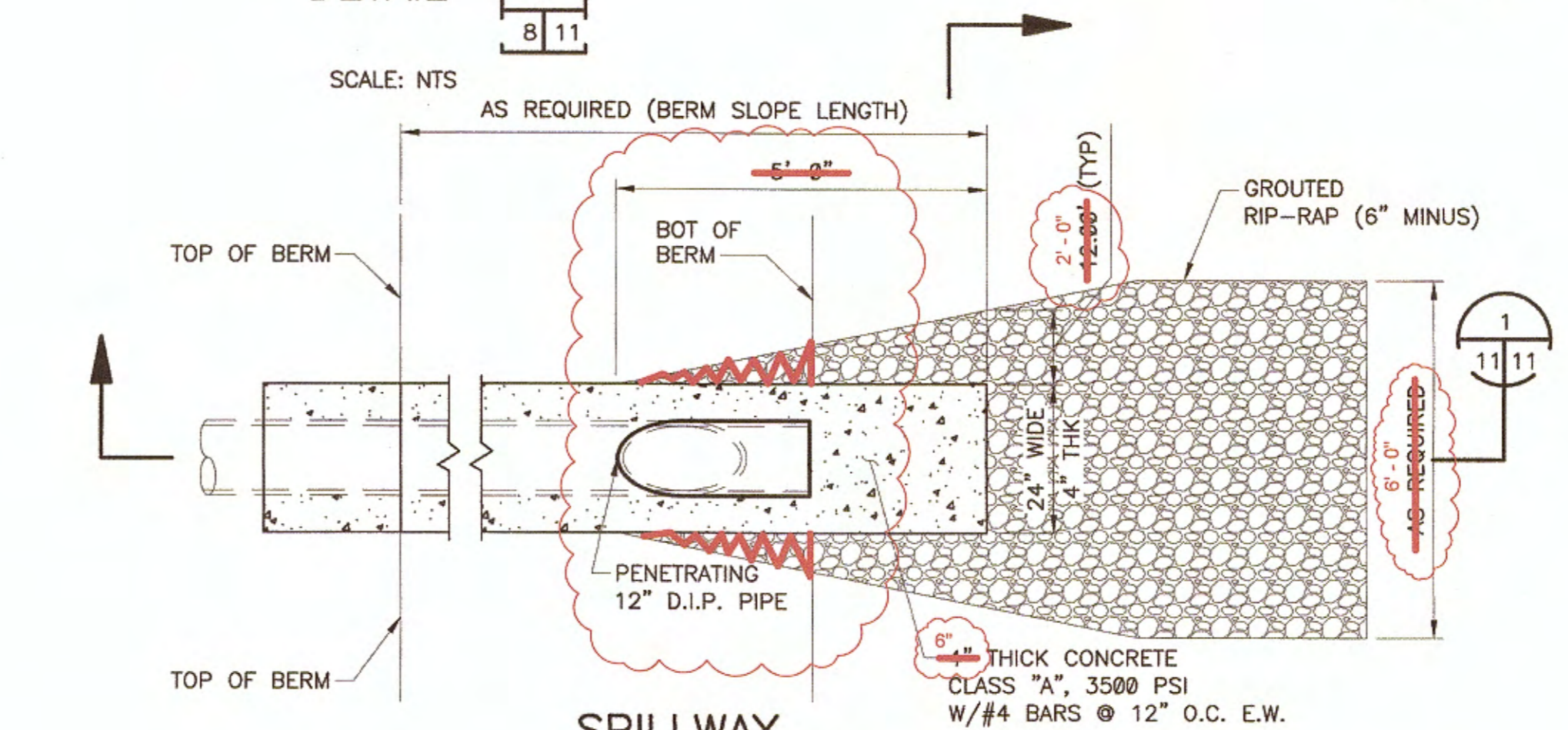
ANCHOR TRENCH DETAIL
SCALE: NTS



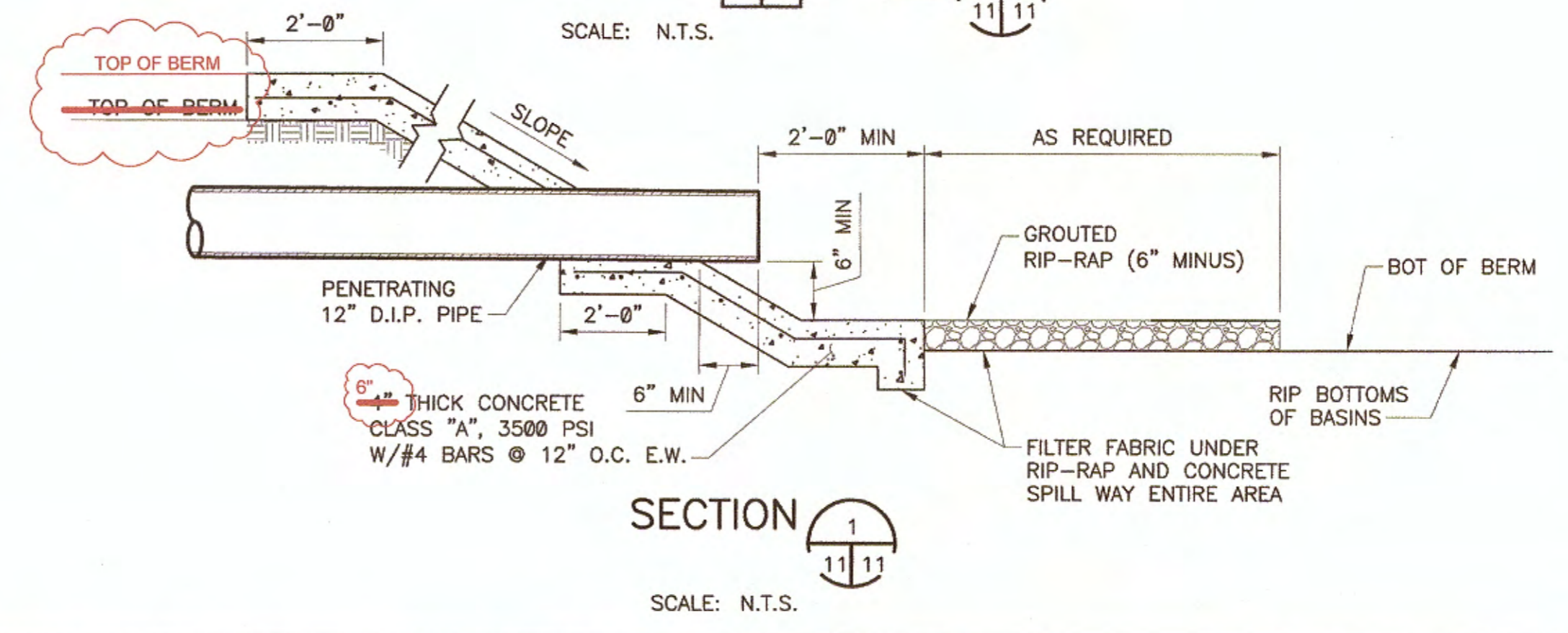
PIPE TRENCH DETAIL
SCALE: NTS



AIR/GAS VENT DETAIL
SCALE: NTS



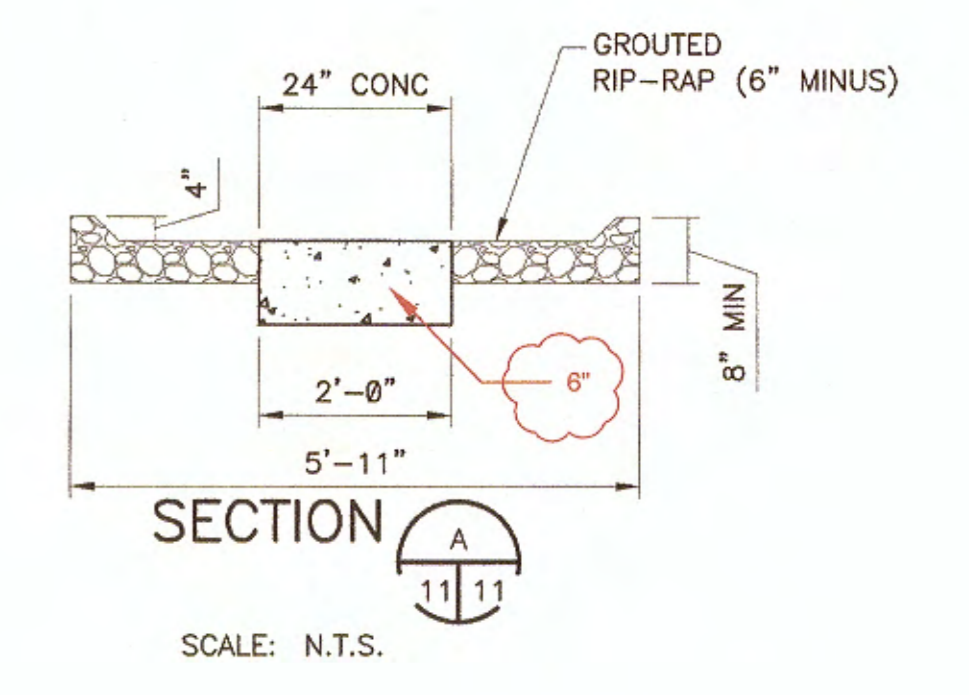
SPILLWAY DETAIL
SCALE: N.T.S.



SECTION 1
SCALE: N.T.S.

- NOTES:**
- NO DEDUCTION MADE IN QUANTITIES FOR THICKNESS OF PIPE WALLS.
 - ALL REINFORCING STEEL #4 BARS. ALL VERTICAL AND HORIZONTAL TIE BARS 1'-6" MAXIMUM SPACING. MINIMUM CONCRETE COVER SHALL BE 3-INCHES.
 - LENGTH OF WALL "W" MAY BE VARIED TO SUIT CONDITIONS ENCOUNTERED IN THE FIELD, AND STRAIGHT LINE INTERPOLATION MAY BE USED TO CALCULATE QUANTITIES.
 - QUANTITIES ARE FOR DESIGN PURPOSES ONLY.
 - CABLE RAILING TO BE INSTALLED ON TOP OF HEADWALL WHEN SHOWN ON PROJECT PLANS. SEE STANDARD PLAN B11-47 FOR CABLE RAILING DETAILS.
 - ALL CONCRETE SHALL BE 4,500 PSI WITH A WATER TO CEMENT RATIO OF 0.45.
 - MINIMUM CONCRETE COVER FOR ANCHOR BOLTS SHALL BE 3-INCHES.

AS-BUILTS
05/16/2014

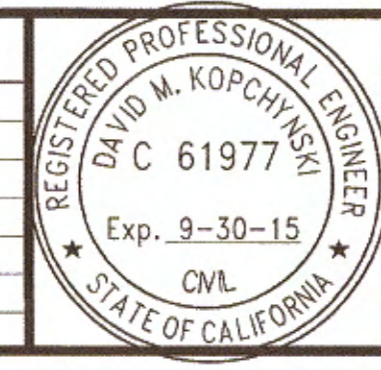


SECTION A
SCALE: N.T.S.

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PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

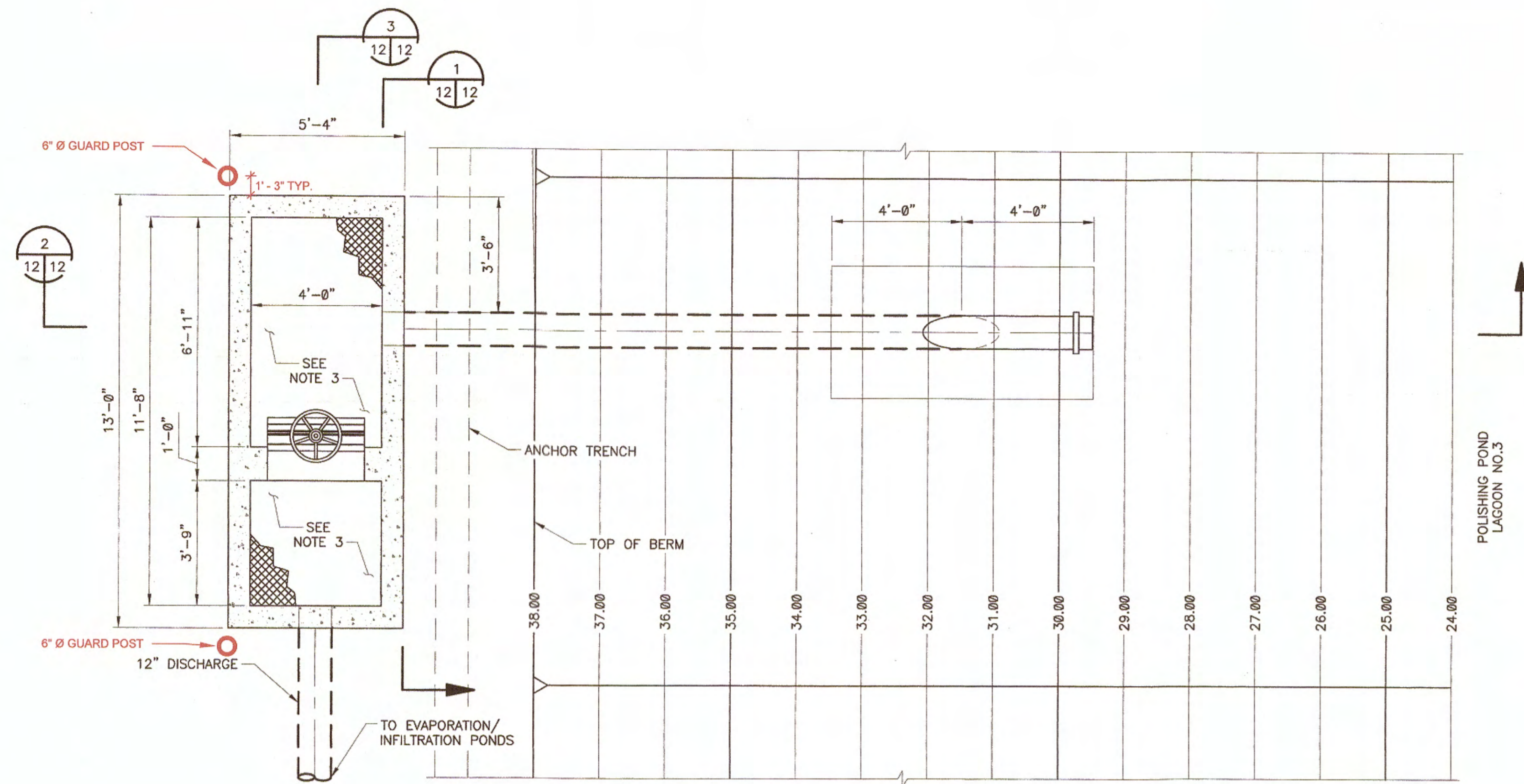
DATE 1/23/14
DRAWN C.BIA
SCALE AS NOTED
CHECKED DMK / TAV / MPV

PROJECT TITLE
**GATEWAY OF THE AMERICAS
COUNTY SERVICE AREA
SEWER TREATMENT PLANT EXPANSION
COUNTY PROJECT**

DETAILS I

REFERENCE **R-**

SHEET 11 OF 18

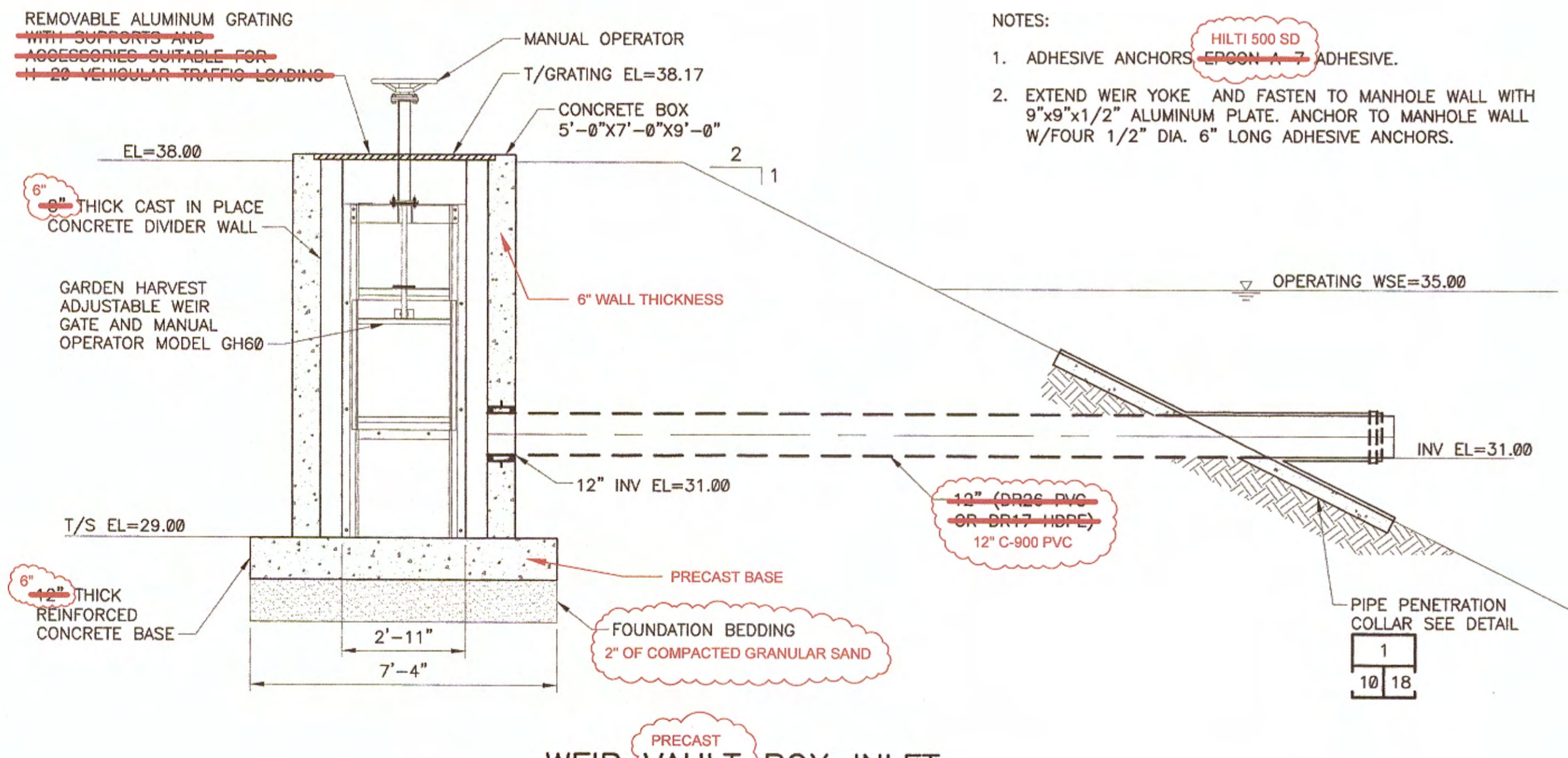


- NOTES:
1. ALL CONCRETE SHALL BE 4,500 PSI WITH A WATER TO CEMENT RATIO OF 0.45.
 2. ALL REBAR AND ANCHOR BOLTS SHALL HAVE A MINIMUM CONCRETE COVER OF 3-INCHES.

AS-BUILTS
05/16/2014

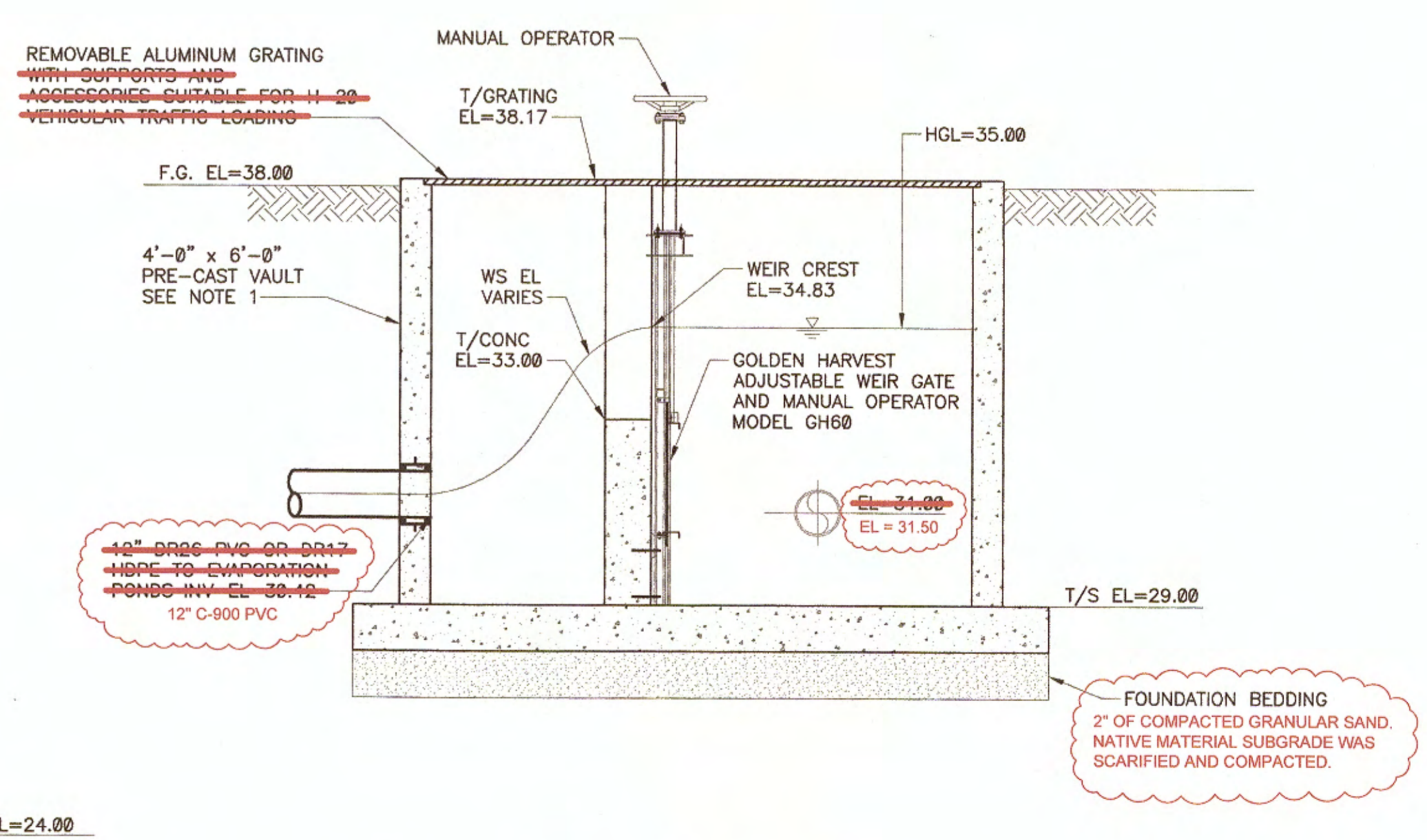
- NOTES:
1. PROVIDE REINFORCED PRECAST UTILITY VAULT BY OLDCASTLE PRECAST MODIFIED AS SHOWN WITH INTERMEDIATE WEIR WALL SUPPORTING 48" X 24" WEIR GATE.
 2. CONSTRUCT WEIR BOX WITH PRECAST PENETRATIONS SIZED FOR LINK SEALS FOR 12" PIPE
 3. CONSTRUCT 6" THICK DIVIDER WALL IN PRECAST VAULT. 4,000 PSI CLASS A CONCRETE.
 4. REMOVEABLE ALUMINUM GRATING WITH SUPPORTS AND ACCESSORIES SUITABLE FOR H-20 VEHICULAR TRAFFIC LOADING.

WEIR
DETAIL
SCALE: 3/8" = 1'-0"



- NOTES:
1. ADHESIVE ANCHORS ~~EPOXY~~ ^{HILTI 500 SD} ADHESIVE.
 2. EXTEND WEIR YOKE AND FASTEN TO MANHOLE WALL WITH 9"x9"x1/2" ALUMINUM PLATE. ANCHOR TO MANHOLE WALL W/FOUR 1/2" DIA. 6" LONG ADHESIVE ANCHORS.

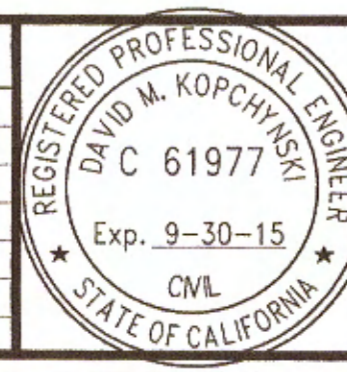
WEIR VAULT
SECTION
SCALE: 3/8" = 1'-0"



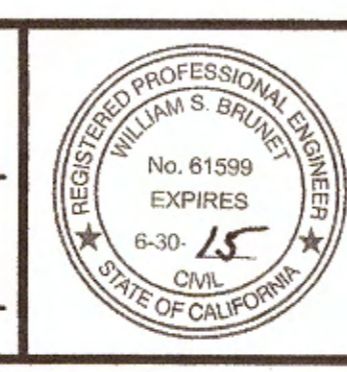
WEIR VAULT/
RECIRCULATION
SECTION
SCALE: 3/8" = 1'-0"



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PUBLIC WORKS DEPARTMENT
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 DRAWN C.BIA
 SCALE AS NOTED
 CHECKED DMK / TAV / MPV

PROJECT TITLE
 GATEWAY OF THE AMERICAS
 COUNTY SERVICE AREA
 SEWER TREATMENT PLANT EXPANSION
 COUNTY PROJECT

DETAILS II
 REFERENCE R-
 SHEET 12 OF 18

COUNTY OF IMPERIAL GATEWAY OF THE AMERICAS COUNTY SERVICE AREA SEWER TREATMENT PLANT EXPANSION COUNTY PROJECT ELECTRICAL IMPROVEMENTS

ELECTRICAL SYMBOLS

SINGLE LINE DIAGRAMS	CONTROL WIRING DIAGRAMS	PLANS
<p>(A) AMMETER</p> <p>(V) VOLTMETER</p> <p>(M) METER</p> <p>(KWH) KILOWATT HOUR METER</p> <p>(AS) AMMETER SWITCH</p> <p>(VS) VOLTMETER SWITCH</p> <p>(GFP) GROUND FAULT PROTECTION</p> <p>CURRENT TRANSFORMER</p> <p>POTENTIAL TRANSFORMER</p> <p>POWER TRANSFORMER SEE NOTE 1.</p> <p>CONTROL TRANSFORMER SEE NOTE 2.</p> <p>←→ DRAW OUT TYPE EQUIPMENT</p> <p>←→ DRAW OUT TYPE HIGH VOLTAGE MOTOR STARTER</p> <p>←→ PLUG-IN TYPE EQUIPMENT</p> <p>A-24 CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE INDICATED</p> <p>DISCONNECT SWITCH, 3 POLE UNLESS OTHERWISE INDICATED</p> <p>OIL FUSE CUTOUPS</p> <p>FUSE SEE NOTE 3.</p> <p>TRANSFER SWITCH, AUTOMATIC</p> <p>MAGNETIC MOTOR STARTER. "1" INDICATES SIZE 1. RV INDICATES REDUCED VOLTAGE. 2S INDICATES 2 SPEED. R INDICATES REVERSING.</p> <p>MAGNETIC CONTACTOR</p> <p>12 CONDUIT NUMBER 12. SEE CONDUIT AND WIRING SCHEDULE FOR SIZES AND QUANTITIES OF CONDUIT AND WIRES.</p> <p>GROUND</p> <p>KIRK KEY INTERLOCKING OF EQUIPMENT</p> <p>2 HP EQUIPMENT FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER SECTION OF THE CONTRACT.</p> <p>PFR PHASE FAILURE RELAY</p> <p>SA SURGE ARRESTER</p> <p># EXISTING MOTOR (HP SHOWN)</p> <p># NEW MOTOR (ESTIMATED HP SHOWN)</p> <p># FUTURE MOTOR (ESTIMATED HP SHOWN)</p> <p>1 MANHOLE</p> <p>EYS SEAL</p>	<p>NORMALLY OPEN NORMALLY CLOSED DEVICE</p> <p>CONTACT</p> <p>LIMIT SWITCH</p> <p>LIMIT SWITCH HELD CLOSED</p> <p>LIMIT SWITCH HELD OPEN</p> <p>PRESSURE OR VACUUM SWITCH</p> <p>LIQUID LEVEL SWITCH</p> <p>TEMPERATURE ACTUATED SWITCH</p> <p>FLOW SWITCH (AIR, WATER, ETC.)</p> <p>PUSH BUTTON SINGLE CIRCUIT MOMENTARY CONTACT. SEE NOTE 3.</p> <p>PUSH BUTTON SINGLE CIRCUIT LOCK-OUT (LOCATED AT MOTOR UNLESS OTHERWISE NOTED)</p> <p>TIMED CONTACT- CONTACT ACTION RELAY ON ENERGIZATION.</p> <p>TIMED CONTACT- CONTACT ACTION RELAY ON DE-ENERGIZATION.</p> <p>ON-OFF SWITCH. SEE NOTE 3.</p> <p>EMERGENCY STOP PUSH BUTTON (MAINTAINED CONTACT)</p> <p>STOP -START PUSH-BUTTON STATION (MAINTAINED CONTACTS). SEE NOTE 3.</p> <p>STOP START</p> <p>HAND-OFF-AUTO SELECTOR SWITCH SEE NOTE 3. (THREE POSITION).</p> <p>TWO POSITION SELECTOR SWITCH SEE NOTE 3.</p> <p>PILOT LIGHT, Y=YELLOW, R=RED, A=AMBER, SEE NOTE 3. B=BLUE, W=WHITE, G=GREEN.</p> <p>BELL</p> <p>HORN OR SIREN</p> <p>CR CONTROL RELAY SEE NOTE 3.</p> <p>M STARTER COIL. SEE NOTE 3.</p> <p>TDR TIME DELAY RELAY. (0-30 SECONDS UNLESS OTHERWISE NOTED). SEE NOTE 3.</p> <p>OL'S MOTOR STARTER OVERLOAD RELAY CONTACTS</p> <p>CONTROL TRANSFORMER. SEE NOTES 2</p> <p>MANUAL MOTOR STARTER</p> <p>SOLENOID OPERATED CONTROL VALVE</p> <p>120 VOLT, 1 PHASE, MOTOR (UNLESS OTHERWISE NOTED)</p> <p>RTM RUNNING TIME METER. SEE NOTE 3. (ELAPSED TIME METER)</p> <p>SPACE HEATERS. (LOCATED AT MOTOR UNLESS OTHERWISE NOTED).</p> <p>TERMINALS IN MOTOR CONTROL CENTER/MCP CONTACT OR DEVICE REMOTE FROM MOTOR CONTROL CENTER/MCP</p> <p>TERMINALS IN MOTOR CONTROL CENTER/MCP CONTACT IN MOTOR CONTROL CENTER FOR CONNECTION TO REMOTE DEVICE/MCP</p> <p>DEVICE SIGNAL OUTPUT</p> <p>DEVICE SIGNAL INPUT</p>	<p>CONDUIT RUN CONCEALED UNDER SLAB OR BELOW GRADE. (CONCEALED IN SLAB WHERE SO NOTED OR WHERE ALLOWED PER SPECIFICATIONS).</p> <p>CONDUIT RUN EXPOSED UNLESS OTHERWISE NOTED</p> <p>EXISTING CONDUIT RUN</p> <p>HASH MARKS INDICATE QUANTITY OF #12 WIRES IN CONDUIT (PLUS 1#12 GROUND WIRE) EXCEPT NO HASH MARKS=3/4".</p> <p>2#12 (PLUS 1#12 GROUND WIRE) UNLESS OTHERWISE NOTED.</p> <p>--- 3/4", 3#12 --- 1", 6#12</p> <p>--- 3/4", 4#12 --- 1", 7#12</p> <p>--- 3/4", 5#12 --- 1", 8#12</p> <p>L(1,30) HOMERUN TO PANEL L, CIRCUITS 1 AND 3</p> <p>GROUND WIRE</p> <p>CONDUIT UP (OUT TOP OF EQUIPMENT)</p> <p>CONDUIT DOWN (OUT BOTTOM OF EQUIPMENT)</p> <p>CONDUIT STUBBED OUT AND CAPPED</p> <p>LIGHTING FIXTURE MOUNTED ON POLE OR POST OR ABOVE PLATFORM</p> <p>CEILING MOUNTED LIGHTING FIXTURE</p> <p>BRACKET MOUNTED LIGHTING FIXTURE</p> <p>FLOODLIGHT</p> <p>FLUORESCENT LIGHTING FIXTURE</p> <p>POLE MOUNTED LIGHT FIXTURE</p> <p>EXIT LIGHT</p> <p>RECESSED INCANDESCENT OR MERCURY VAPOR LIGHTING FIXTURE</p> <p>LIGHTING FIXTURES CONNECTED TO EMERGENCY CIRCUITS</p> <p>LIGHTING FIXTURE TYPE A, 100 WATTS, WITH 1 LAMP. SEE LIGHTING FIXTURE SCHEDULE</p> <p>A 1/100</p> <p>\$ SINGLE POLE, SINGLE THROW TOGGLE SWITCH</p> <p>\$2 DOUBLE POLE, SINGLE THROW TOGGLE SWITCH</p> <p>\$3 THREE-WAY TOGGLE SWITCH</p> <p>\$4 FOUR-WAY TOGGLE SWITCH</p> <p>\$M MANUAL MOTOR STARTER</p> <p>\$a OUTLETS SHOWN WITH SUBSCRIPT "a" ADJACENT TO THEM SHALL BE CONTROLLED BY S a</p> <p>DUPLX CONVENIENCE RECEPTACLE AT +12" OR AS NOTED</p> <p>SINGLE CONVENIENCE RECEPTACLE AT +12" OR AS NOTED</p> <p>SPECIAL PURPOSE RECEPTACLE AT +12" OR AS NOTED, RATING AS INDICATED</p> <p>JUNCTION BOX, SIZE AS REQUIRED BY CODE</p> <p>THERMOSTAT OUTLET AT +54"</p> <p>CLOCK OUTLET AT +7'-6" OR AS NOTED</p> <p>TELEPHONE OUTLET AT +12" OR AS NOTED</p> <p>TELEPHONE FLOOR OUTLET</p> <p>HORN</p> <p>CONTROL DEVICE</p> <p>P = PRESSURE SWITCH</p> <p>ZS = LIMIT SWITCH</p> <p>L = LEVEL SWITCH</p> <p>V = CONTROL VALVE</p> <p>CONTROL STATION: PUSH-BUTTON STATION OR SELECTOR SWITCH. SEE CONTROL WIRING DIAGRAMS FOR REQUIREMENTS.</p> <p>EXISTING MOTOR</p> <p>NEW MOTOR</p> <p>FUTURE MOTOR</p> <p>GROUND WELL</p> <p>GROUND ROD</p> <p>DISCONNECT SWITCH. SEE SINGLE LINE DIAGRAM FOR SIZE.</p> <p>LIGHTING PANEL. SURFACE MOUNTED.</p> <p>SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER</p> <p>CONDUIT NUMBER 12. SEE CONDUIT AND WIRING SCHEDULE FOR SIZES AND QUANTITIES OF CONDUIT AND WIRES.</p> <p>INDICATES HEIGHT FROM FINISHED FLOOR OR GRADE TO CENTERLINE OF DEVICE.</p> <p>+12" INDICATES TO REFER TO NOTE (1) ON DRAWING</p> <p>W.P. WEATHERPROOF. PROVIDE GASKETS AS REQUIRED</p> <p>C.O. CONDUIT ONLY</p> <p>FE-184 INSTRUMENTATION DEVICE. SEE PROCESS AND INSTRUMENTATION DRAWINGS FOR DESCRIPTIONS.</p> <p>PULL BOX (SIZE AS REQUIRED)</p> <p>OUTPUT TERMINAL</p> <p>INPUT TERMINAL</p>

NOTES: IELECTRICAL SYMBOLS!

- POWER TRANSFORMERS SHALL BE DRY TYPE 480-208Y/120 VOLTS, 3 PHASE 4 WIRE UNLESS OTHERWISE INDICATED.
- CONTROL TRANSFORMER SHALL BE DRY TYPE 480-120 VOLTS 1 PHASE UNLESS OTHERWISE INDICATED. SEE CONTROL WIRING DIAGRAMS FOR USE OF 120 VOLT CONTROL CIRCUITS CONTROL TRANSFORMERS SHALL BE SIZED TO HANDLE THE LOADS OF ALL RELAYS, PILOT LIGHTS, ETC. CONNECTED THERE TO PLUS 50 VA EXTRA CAPACITY.
- LOCATED IN OR ON MOTOR CONTROL CENTER UNLESS OTHERWISE INDICATED.

ABBREVIATIONS

AMP AMPERE	GND GROUND	N.C. NORMALLY CLOSED
AL ALUMINUM	HP HORSEPOWER	NEC NATIONAL ELECTRICAL CODE
APS ARIZONA POWER SERVICE	HPS HIGH PRESSURE SODIUM	N.O. NORMALLY OPEN
ATS AUTOMATIC TRANSFER SWITCH	HZ HERTZ (CYCLES PER SECOND)	NO. NUMBER
AWG AMERICAN WIRE GAUGE	IC INTERRUPTING CAPACITY	PLC PROGRAMMABLE LOGIC CONTROLLER
BRK BREAKER	KV KILOVOLTS	PNL PANEL
CAT CATALOG	LCL LONG CONTINUOUS LOAD	PR PAIR
CIRC. MIL CIRCULAR MILS (AWG)	LTG LIGHTING MAX MAXIMUM	PVC POLYVINYL CHLORIDE
C.O. CONDUIT ONLY	MCC MOTOR CONTROL CENTER	REC RECEPTACLE
CKT CIRCUIT	MCP MAIN CONTROL PANEL	RGS RIGID GALVANIZED STEEL
CP CONTROL PANEL	MCM THOUSAND CIRCULAR MIL (AWG)	SES SERVICE ENTRANCE SECTION
DIA DIAMETER	MFR MANUFACTURER	SPECS SPECIFICATIONS
DWG DRAWING	MIN MINIMUM	SSS SOLID STATE STARTER
EA EACH	MIS MISCELLANEOUS	TEL TELEPHONE
ELECT ELECTRICAL	MTG MOUNTING	TDR TIME DELAY RELAY
ELEV ELEVATION	MV MERCURY VAPOR	TTB TELEPHONE TERMINAL BACKBOARD
EX EXISTING		TYP TYPICAL
FLA FULL LOAD AMPS		UCP UNIT CONTROL PANEL
FUT FUTURE		V VOLTS
GFCI GROUND FAULT CIRCUIT INTERRUPTER		WP WEATHERPROOF
		XFMR TRANSFORMER

SHEET INDEX

- 13 ELECTRICAL COVER SHEET
- 14 ELECTRICAL SINGLELINE DIAGRAM
- 15 ELECTRICAL SITE PLAN
- 16 ELECTRICAL BUILDING PLAN
- 17 ELECTRICAL DETAILS
- 18 ELECTRICAL SCHEMATIC

GENERAL ELECTRICAL REQUIREMENTS

- THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE ORDINANCES AND REGULATIONS. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE, FINISHED AND SAFE MANNER, ACCORDING TO THE LATEST PUBLISHED N.E.C.A. STANDARDS OF INSTALLATION, UNDER COMPETENT SUPERVISION. INSTALL GROUNDING AS REQUIRED BY THE CODE(S).
- VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ALL OTHER FACTORS WHICH MAY AFFECT THE EXECUTION OF THIS WORK. INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL.
- ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY, MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, U.L. OR OTHER APPLICABLE STANDARDS. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS AND BID PRICE. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING AND REVIEWED BY THE ENGINEER BEFORE ORDERING.
- PROTECT ALL ELECTRICAL MATERIAL AND EQUIPMENT INSTALLED UNDER DIVISION 6 AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. EQUIPMENT FOUND DAMAGED OR IN OTHER THAN NEW CONDITION WILL BE REJECTED AS DEFECTIVE.
- LEAVE THE SITE CLEAN, REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE SCRAPS AND ALL MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
- CIRCUIT CONDUCTORS #2 AWG OR SMALLER TO BE COPPER TYPE "XHHW" FOR BELOW GRADE INSTALLATION OR COPPER TYPE THHN/THWN FOR ABOVE GRADE INSTALLATIONS. #1 AWG OR LARGER SHALL BE COPPER TYPE "XHHW-2" STRANDED COPPER. MINIMUM CONDUCTOR SIZE TO BE #12 AWG WITH #12 GND.
- UNDERGROUND CONDUITS TO BE SCHEDULE 40 PVC. MINIMUM DEPTH 24", MINIMUM SIZE 1", UNLESS OTHERWISE SHOWN ON THE PLANS. CONDUITS AS SHOWN ARE FOR INFORMATION ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- OUTDOOR CONDUITS EXPOSED TO BE GALVANIZED RIGID STEEL, MINIMUM SIZE 3/4", UNLESS OTHERWISE NOTED ON THE PLANS. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE. INDOOR CONDUITS SHALL BE IMC OR EMT UNLESS OTHERWISE SHOWN ON PLAN.
- ALL SAFETY SWITCHES AND OTHER DISTRIBUTION AND CONTROL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED AND RATED FOR HEAVY DUTY SERVICE.
- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
- ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING, BOXES, ETC. SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING. THE SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND THE SPECIFIC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE PACKAGE. THE SUBMITTAL SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PRODUCT SPECIFICATION, DESCRIPTIVE DATA, TECHNICAL LITERATURE, PERFORMANCE CHARTS, CATALOG CUTS, INSTALLATION INSTRUCTIONS, AND SPARE PART RECOMMENDATIONS FOR EACH DIFFERENT ITEM OF THE EQUIPMENT SPECIFIED.
- IT IS THE OBLIGATION OF THE CONTRACTOR TO ORGANIZE HIS WORK, SO THAT A COMPLETE ELECTRICAL, INSTRUMENTATION, AND CONTROL SYSTEM FOR THE FACILITY WILL BE PROVIDED, AND WILL BE SUPPORTED BY ACCURATE SHOP AND RECORD DRAWINGS, AND O & M MANUALS.

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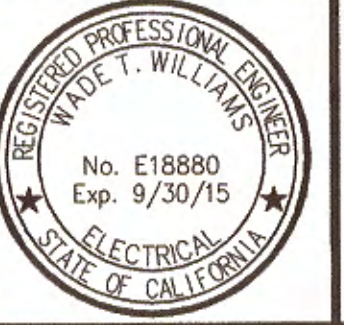
VALENTINE

Environmental Engineers, LLC

15845 South 46th Street, Suite 144 Phoenix, Arizona 85048
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REVISION	DATE	COMMENTS


PREPARED UNDER THE DIRECT SUPERVISION OF:



Wade T. Williams
WADE T. WILLIAMS
11/11/13
DATE


18880
R.C.E. No.

9/30/15
REG. EXP.



William S. Brunel
WILLIAM S. BRUNEL
FEB 06 2014
DATE


COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:



William S. Brunel
WILLIAM S. BRUNEL
FEB 06 2014
DATE

61599
R.C.E. No.

6-30-15
REG. EXP.



PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE		PROJECT TITLE
11/11/13		GATEWAY OF THE AMERICAS COUNTY SERVICE AREA SEWER TREATMENT PLANT EXPANSION COUNTY PROJECT
DRAWN	JHB	
SCALE	NONE	
CHECKED	WTW	

ELECTRICAL COVER SHEET	
REFERENCE	R-
SHEET	OF
13	18

EX. PULL SECTION, NEMA 3R, SQUARE D SWITCHBOARD CAT#SA26PSR & UL#D-902021

EX. METER/MAIN SECTION, 600A 277/480V 3Ø 4W, NEMA 3R, SQUARE D SPEED-D SWITCHBOARD CAT#346IR SERIES-E2 PLANT-47& UL#E-19129.

EX. 300A 277/480V 3Ø 4W AUTOMATIC TRANSFER SWITCH, NEMA 3R, 42,000 AIC RATING MIN. CATERPILLAR CAT# TCD2B6MED1X3XXXXXO

EX. 200A 277/480V 3Ø 4W SERVICE RATED MAIN FUSED DISCONNECT, NEMA 3R, SIEMENS CAT#HHN364AW

EX. DISTRIBUTION GUTTER

EX. 200A 277/480V 3Ø, PANEL "A", NEMA 1, 18KAIC, SQUARE D CAT#NF430L2

EX. 200A 277/480V 3Ø, PANEL "B", NEMA 1, 18KAIC, SQUARE D CAT#NF-121469B5980080001

EX. XFMR 480V-120/240V 1Ø, NEMA 1

EX. 100A 120/240V 1Ø, PANEL "C" NEMA 1, 10,000AIC

EX. POWER COMPANY TRANSFORMER, MFG ABB UO 1314

SERVICE ENTRANCE SECTION LOAD CALCULATION SUMMARY

LOAD DESCRIPTION	ØA	ØB	ØC
EX. LIFT STATION	26.75	26.75	26.75
EX. PANEL "A" (WITH NEW LOAD)	64	64	64
EX. PANEL "B"	5.8	4.9	0.9
EX. PANEL "C"	6.7	6.7	-
25% OF LARGEST MOTOR LOAD	5.25	5.25	5.25
TOTAL AMPS / Ø	108.5	107.6	96.9

NOTES:
EXISTING 600AMP SERVICE IS OK WITH THE NEW LOAD ADDED.

EX. 100KW DIESEL STANDBY GENERATOR 150A/3Ø

EX. INFLUENT LIFT STATION CONTROL PANEL 480V, KCP INDUSTRIES, INC.

EX. AERATOR CONTROL PANEL

NEW AERATORS DUPLEX CONTROL PANEL BUILT PER UL 508A REQUIREMENTS, 18KAIC MIN RATING, SQUARE D CAT# 9881025, OR APPROVED EQUAL.

PANEL NAME: A	277/480V, 3Ø, 4W							200A MAIN BKR	
LOCATION: ELECT. ROOM	TYPE: BOLT-ON							WALL MTD., NEMA 1	
DESCRIPTION	BKR SIZE	CKT NO.	LOAD AØ	LOAD BØ	LOAD CØ	CKT NO.	BKR SIZE	DESCRIPTION	
AERATORS NORTH	60/	1	3047			2	60/15	AERATOR NORTH#2	
" "	/	3	5817			4	"	"	
" "	/2	5			3047	6	/3	"	
" "	/2	7	3047			8	60/15	AERATOR SOUTH#2	
" "	/	9	5817			10	"	"	
" "	/2	11			3047	12	/3	"	
" "	/2	11	5817			12	"	"	
BUSSED SPACE		13	0			14		BUSSED SPACE	
BUSSED SPACE		15	0			16		BUSSED SPACE	
BUSSED SPACE		17	0		0	18		BUSSED SPACE	
BUSSED SPACE		19	0		0	20		BUSSED SPACE	
BUSSED SPACE		21	0		0	22		BUSSED SPACE	
BUSSED SPACE		23	0		0	24		BUSSED SPACE	
BUSSED SPACE		25	0		0	26		BUSSED SPACE	
BUSSED SPACE		27	0		0	28		BUSSED SPACE	
BUSSED SPACE		29	0		0	30		BUSSED SPACE	
BUSSED SPACE		31	0		0	32		BUSSED SPACE	
BUSSED SPACE		33	0		0	34		BUSSED SPACE	
BUSSED SPACE		35	0		0	36		BUSSED SPACE	
BUSSED SPACE		37	0		0	38		BUSSED SPACE	
BUSSED SPACE		39	0		0	40		BUSSED SPACE	
BUSSED SPACE		41	0		0	42		BUSSED SPACE	
CODE TOTAL VA/Ø			17728	17728	17728			*INDICATES LOAD @ 125%	
CODE TOTAL AMPS/Ø			64.0	64.0	64.0			18,000 AIC BREAKERS	

1 ELECTRICAL SINGLELINE DIAGRAM

NO SCALE
NOTES:
1. MBJ=MAIN BONDING JUMPER
EBJ=EQUIPMENT BONDING JUMPER
GEC=GROUNDING ELECTRODE CONDUCTOR

LEGEND

— BOLD AND SOLID INDICATES NEW WORK
--- LIGHT AND DASHED INDICATES EXISTING

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	WIRE			FROM	TO	REMARKS
		POWER	GROUND	CONTROL			
P100A	1.5"	(3) #6	#10		PANEL "A" CKT (2,4,6)	NEW AERATORS CONTROL PANEL VIA DISTRIBUTION GUTTER	
P100B	1.5"	(3) #6	#10		NEW AERATORS CONTROL PANEL	DISCONNECT VIA EX. PB#1 AERATOR NORTH#2	
P100C	1.5"	FACTORY CABLE			DISCONNECT	AERATOR NORTH#2	
P101A	1.5"	(3) #6	#10		PANEL "A" CKT (8,10,12)	NEW AERATORS CONTROL PANEL VIA DISTRIBUTION GUTTER	
P101B	1.5"	(3) #6	#10		NEW AERATORS CONTROL PANEL	EX. PB#1 AERATOR SOUTH#2	
P101C	EX. 1.5"	(3) #6	#10		EX. PB#1	EX. PB#4 VIA PB #2 AND #3 AERATOR SOUTH#2	
P101D	1.5"	(3) #6	#10		PB#4	NEW DISCONNECT AERATOR SOUTH#2	
P101E	1.5"	FACTORY CABLE			NEW DISCONNECT	AERATOR SOUTH#2	
P102	1"	(2) #12	#12		NEW AERATORS CONTROL PANEL	NEW TIME CLOCK AERATOR NORTH#2	
P103	1"	(2) #12	#12		NEW AERATORS CONTROL PANEL	NEW TIME CLOCK AERATOR SOUTH#2	

AS-BUILTS
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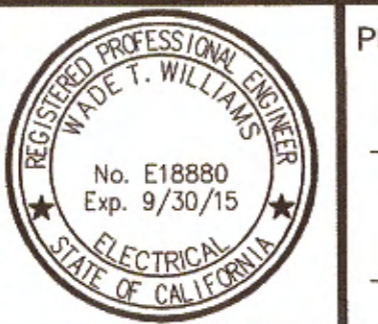
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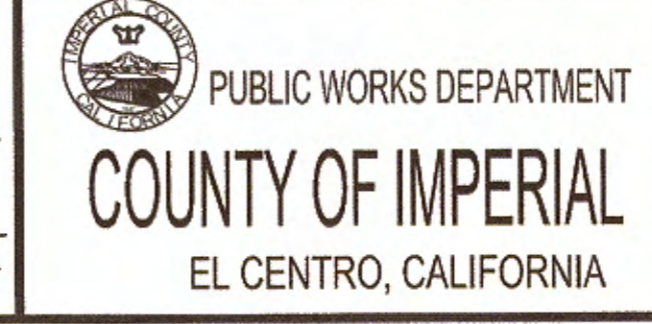
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PREPARED UNDER THE DIRECT SUPERVISION OF:
Wade T. Williams
WADE T. WILLIAMS
18880 R.C.E. No.
9/30/15 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
William S. Brunet
61579 R.C.E. No.
6-30-15 REG. EXP.
FEB 06 2014 DATE



DATE 11/11/13
DRAWN JHB
SCALE NONE
CHECKED WTW

PROJECT TITLE
GATEWAY OF THE AMERICAS
COUNTY SERVICE AREA
SEWER TREATMENT PLANT EXPANSION
COUNTY PROJECT

ELECTRICAL SINGLELINE DIAGRAM
REFERENCE R-
SHEET OF 14 18

CONSTRUCTION NOTES

- 1 EXISTING POWER COMPANY TRANSFORMER TO REMAIN IN PLACE AND OPERATIONAL.
- 2 EXISTING SES TO REMAIN IN PLACE AND OPERATIONAL.
- 3 EXISTING GENERATOR TO REMAIN IN PLACE AND OPERATIONAL.
- 4 INSTALL STANCHION MOUNTED DISCONNECT PER DETAIL "1" ON SHEET 17.
- 5 INSTALL NEW CONDUCTORS IN SPARE CONDUIT IN EXISTING PULL BOX. EXISTING PULL BOX, CONDUIT AND CONDUCTORS TO REMAIN IN PLACE AN OPERATIONAL. ANY DAMAGE SHALL BE REPLACED IN KIND.
- 6 CONTRACTOR SHALL EXTEND CONDUIT FROM BELOW GRADE AND INSTALL AN L.B. CONDUIT BODY THROUGH BUILDING WALL. SEAL UP VOIDS FOR NEW CONDUIT INSTALLATION. (TYPICAL FOR EACH CONDUIT.)

NOTE: SPARE CONDUITS EXIST BETWEEN ELECTRICAL BUILDING AND P101C PULL BOX AFTER CONSTRUCTION COMPLETED

SEE SHEET 16 FOR BUILDING SITE PLAN

AS-BUILTS
05/16/2014

ELECTRICAL SITE PLAN

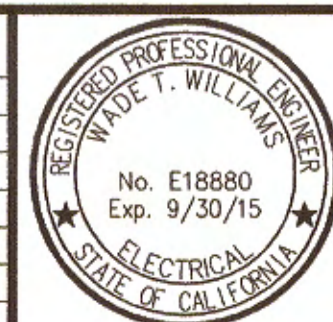


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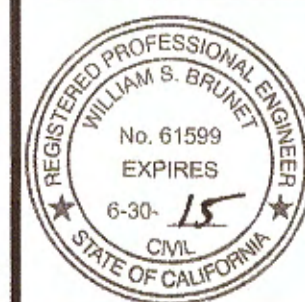
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61599 R.C.E. No.
FEB 06 2014 DATE 6-30-15 REG. EXP.

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 11/11/13
DRAWN JHB
SCALE 1"=20'
CHECKED WTW

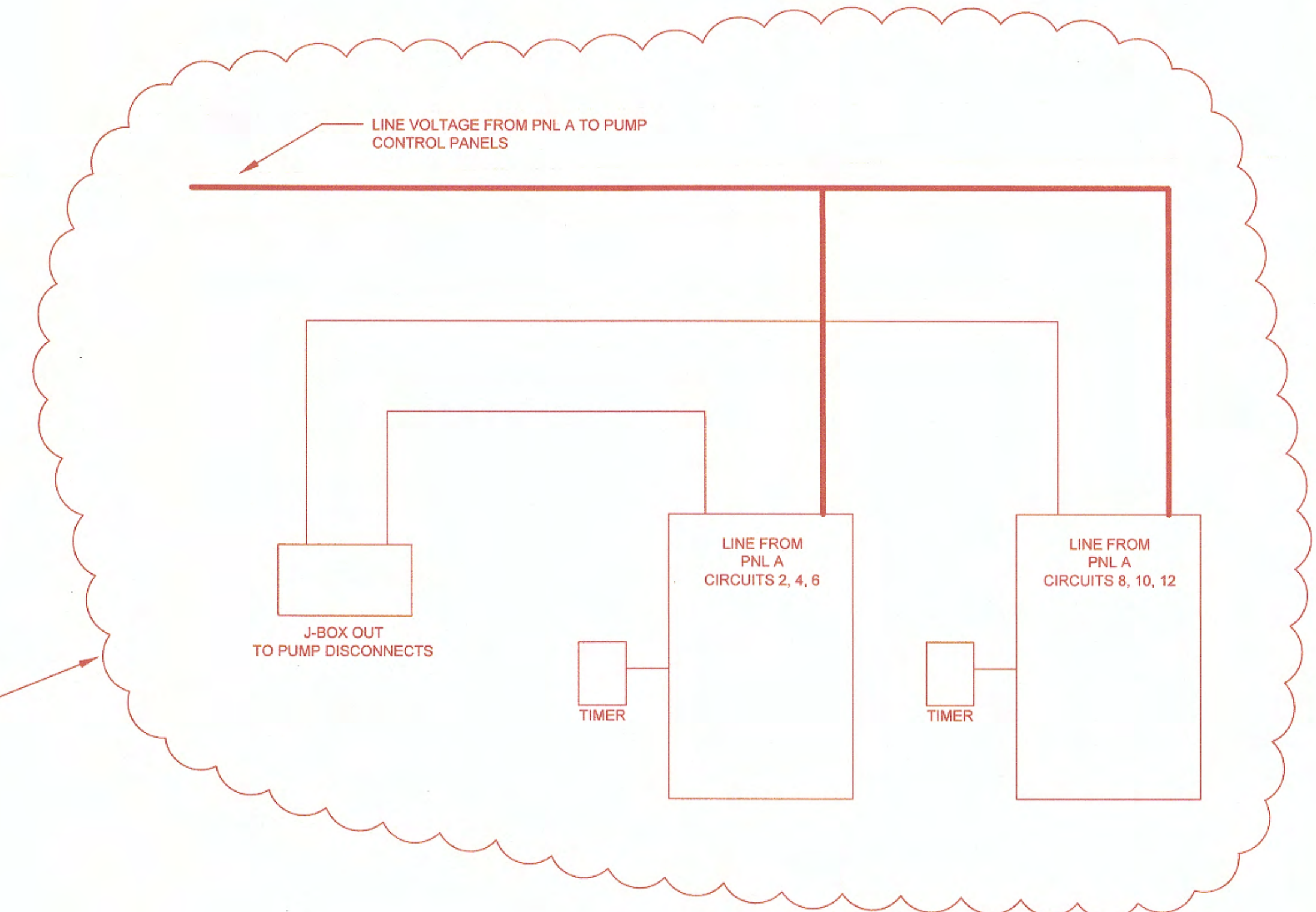
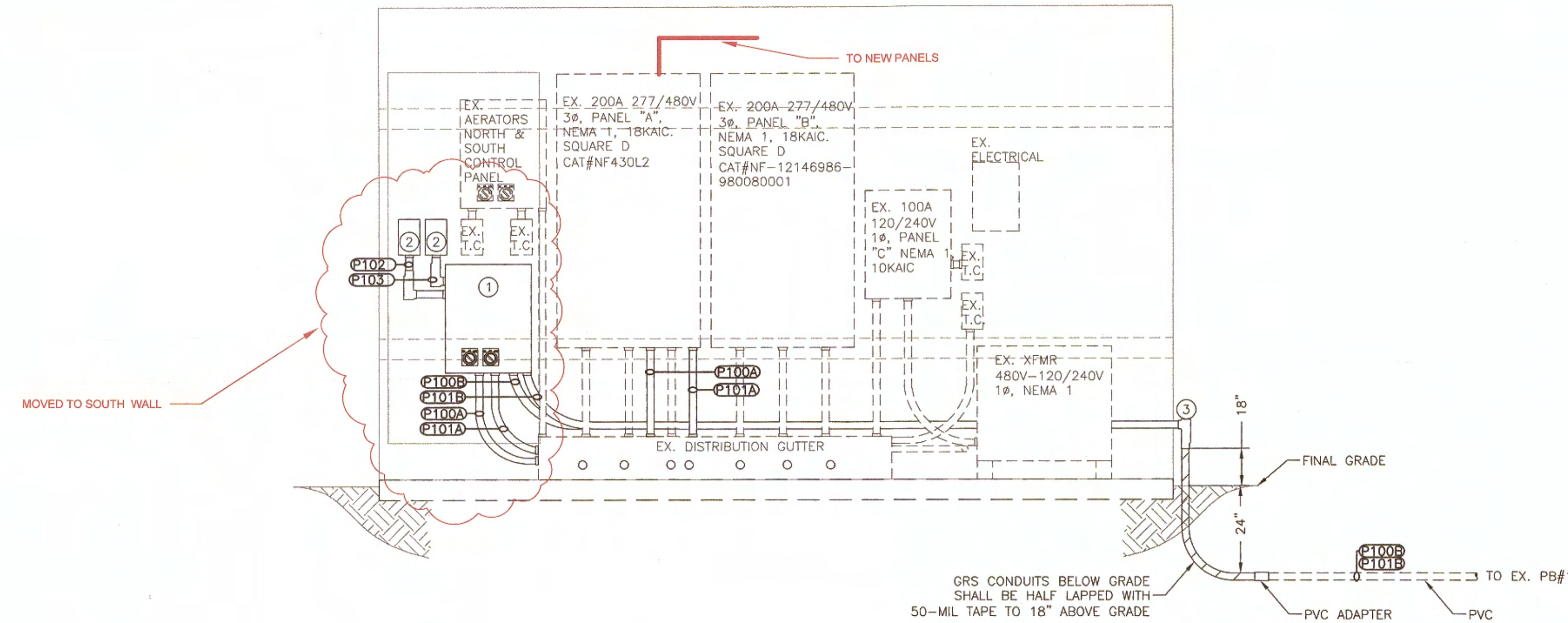
PROJECT TITLE
**GATEWAY OF THE AMERICAS
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SEWER TREATMENT PLANT EXPANSION
COUNTY PROJECT**

REFERENCE
R-
SHEET 15 OF 18

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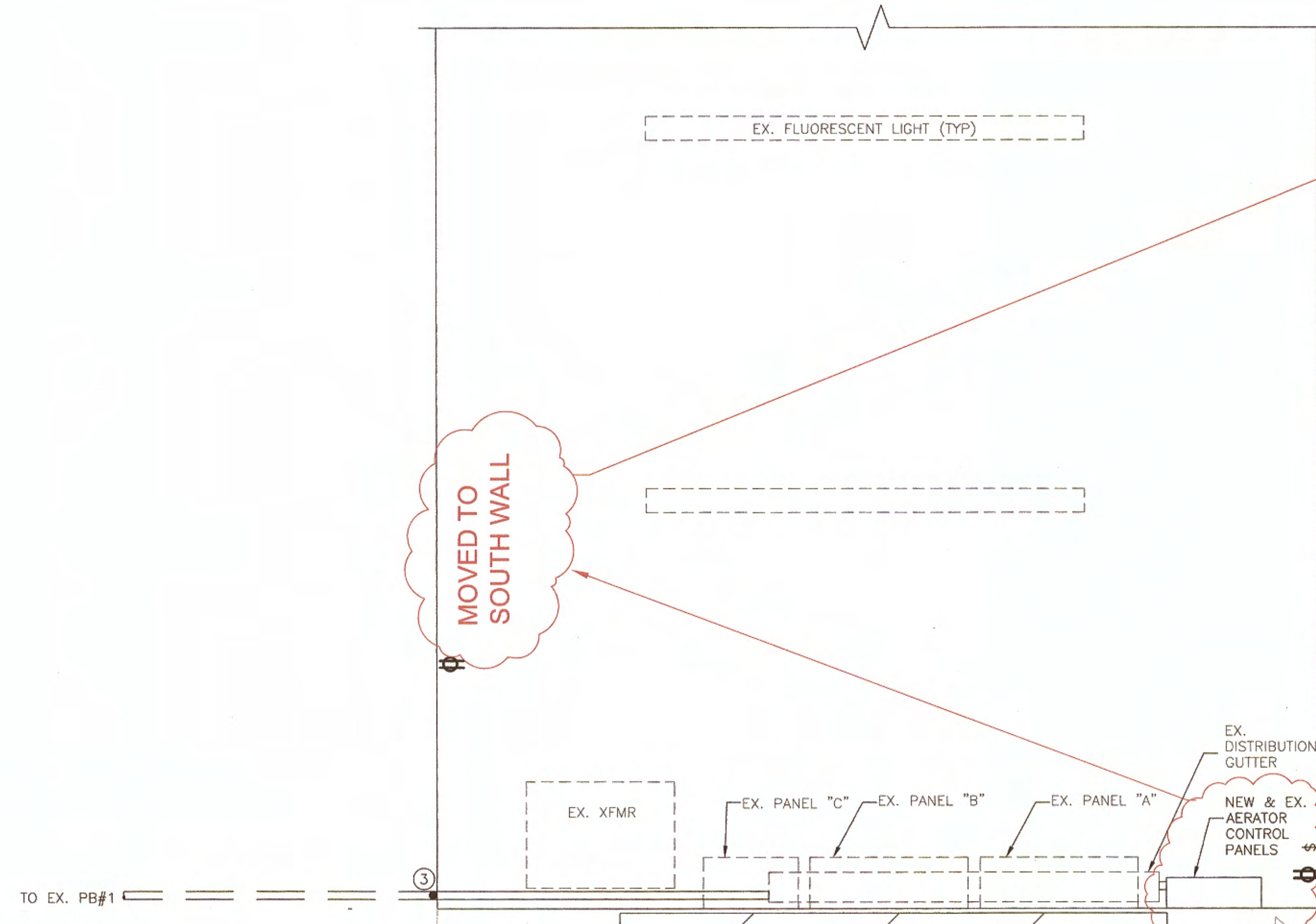
CONSTRUCTION NOTES

1. INSTALL NEW AERATORS NORTH#2 AND SOUTH#2 CONTROL PANEL LISTED PER UL508A AND CONTROL SCHEMATICS ON SHEET 17.
2. INSTALL NEW TIME CLOCK FOR AERATOR CONTROL, INTERMATIC CAT#T1905.
3. CONTRACTOR SHALL EXTEND CONDUIT FROM BELOW GRADE AND INSTALL AN L.B. CONDUIT BODY THROUGH BUILDING WALL. SEAL UP VOIDS FOR NEW CONDUIT INSTALLATION. (TYPICAL FOR EACH CONDUIT.)



ELECTRICAL BUILDING-INTERIOR EAST WALL

NTS



ELECTRICAL BUILDING-TOP VIEW

NTS

**AS-BUILTS
05/16/2014**

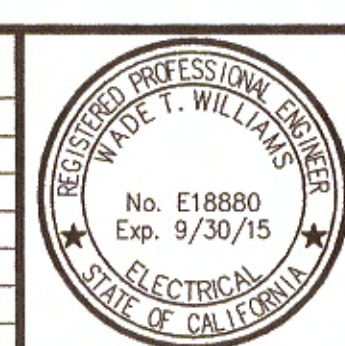
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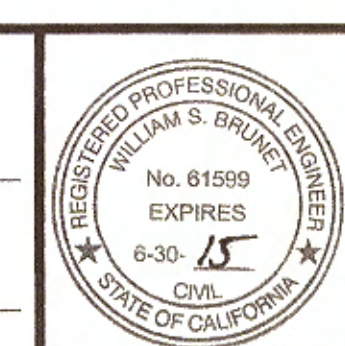
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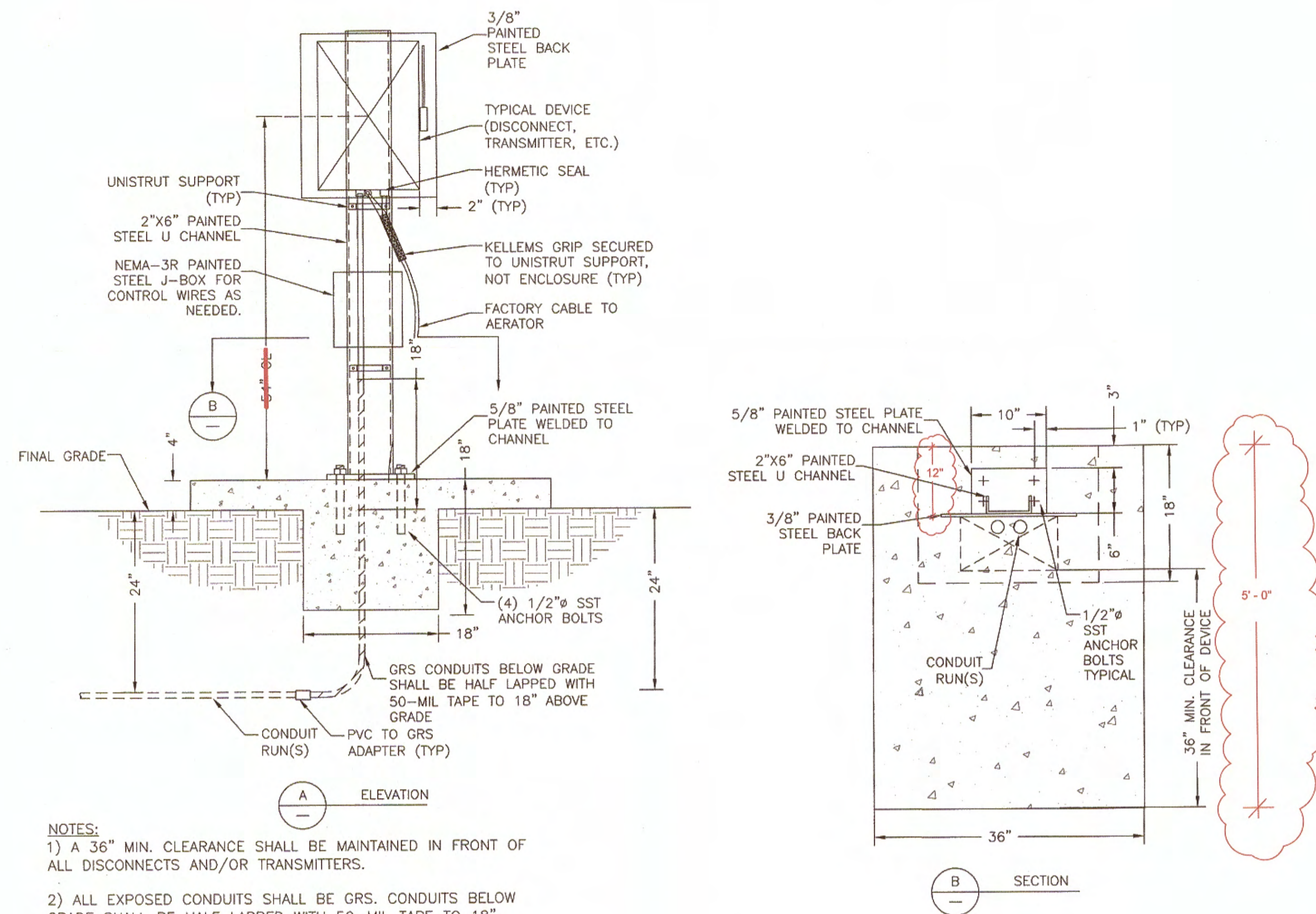
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COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE	11/11/13
DRAWN	JHB
SCALE	NONE
CHECKED	WTW

PROJECT TITLE
**GATEWAY OF THE AMERICAS
COUNTY SERVICE AREA
SEWER TREATMENT PLANT EXPANSION
COUNTY PROJECT**

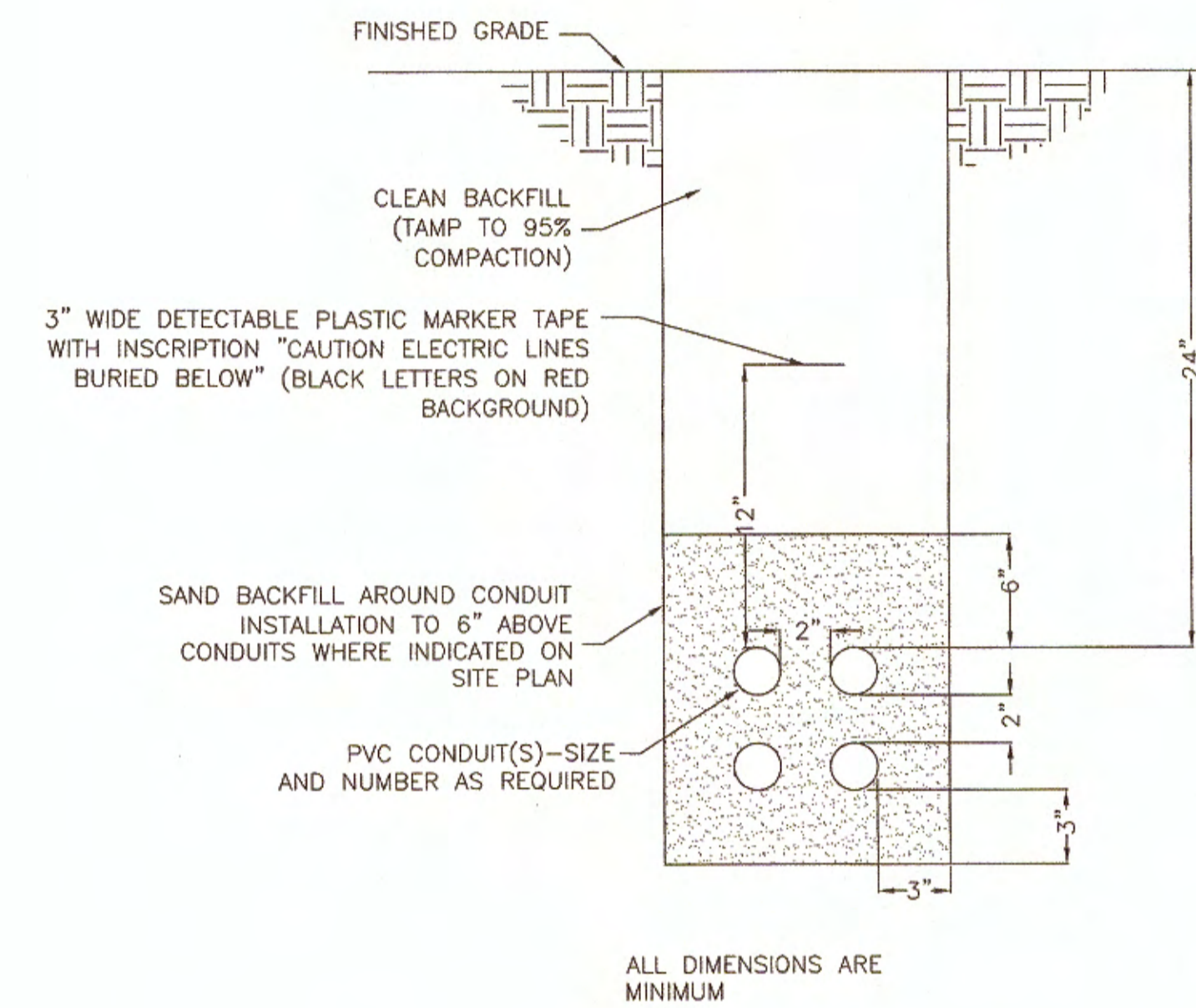
ELECTRICAL BUILDING PLAN	
REFERENCE	R-
SHEET	16
OF	18

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05/16/2014



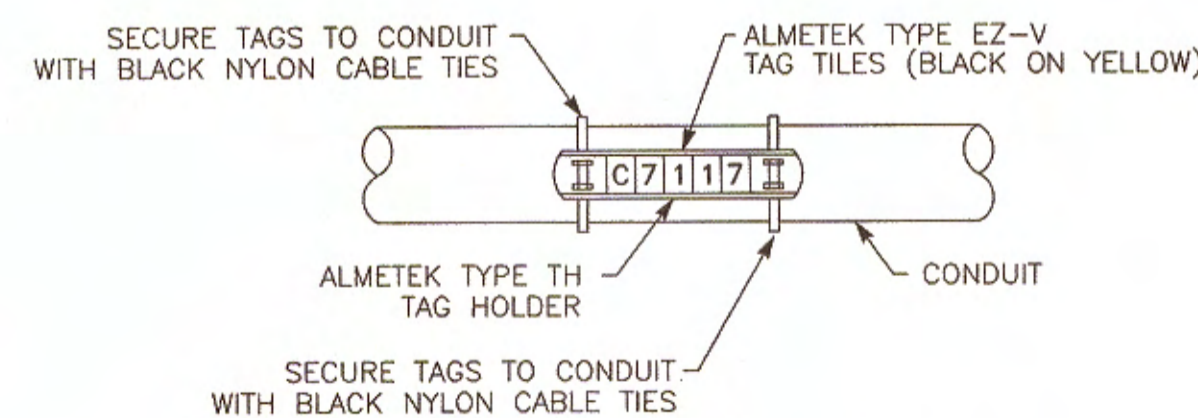
- NOTES:
- 1) A 36" MIN. CLEARANCE SHALL BE MAINTAINED IN FRONT OF ALL DISCONNECTS AND/OR TRANSMITTERS.
 - 2) ALL EXPOSED CONDUITS SHALL BE GRS. CONDUITS BELOW GRADE SHALL BE HALF LAPPED WITH 50-MIL TAPE TO 18" ABOVE GRADE TO BELOW GRADE PAST 90° BEND TO PVC/GRS ADAPTER UNLESS OTHERWISE NOTED ON PLANS.
 - 3) ALL DISCONNECTS SHALL BE NEMA-3R PAINTED STEEL UNLESS OTHERWISE NOTED ON PLANS.

1 TYPICAL STANCHION MOUNTED DISCONNECT
NO SCALE



- NOTE:
- 1) THIS CONDUIT DUCT BANK DETAIL SHALL BE REFERENCED FOR ALL UNDER GROUND CONDUIT INSTALLATIONS.

2 CONDUIT DUCT BANK INSTALLATION DETAIL
NO SCALE



3 CONDUIT MARKING SYSTEM DETAIL
NO SCALE

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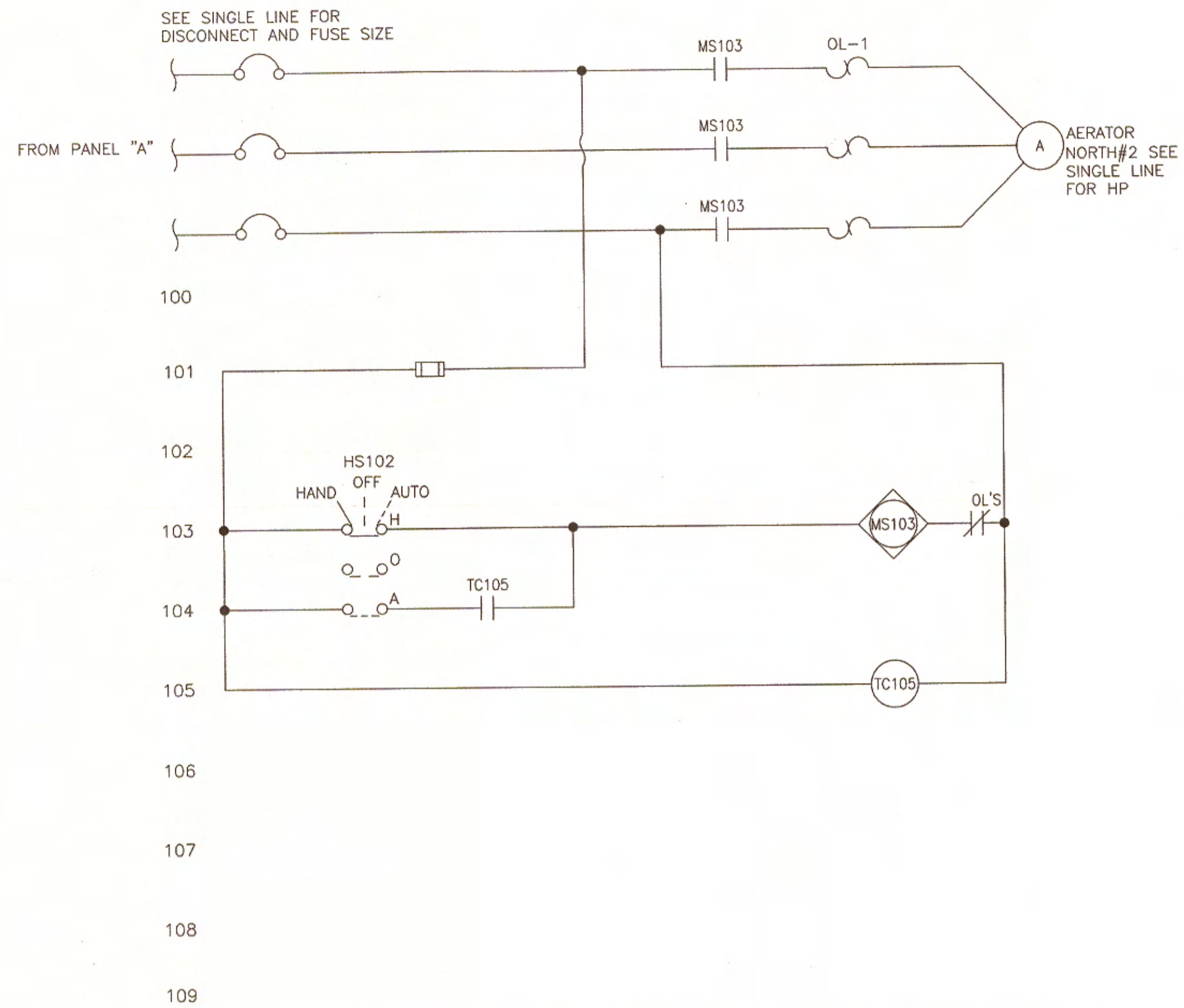
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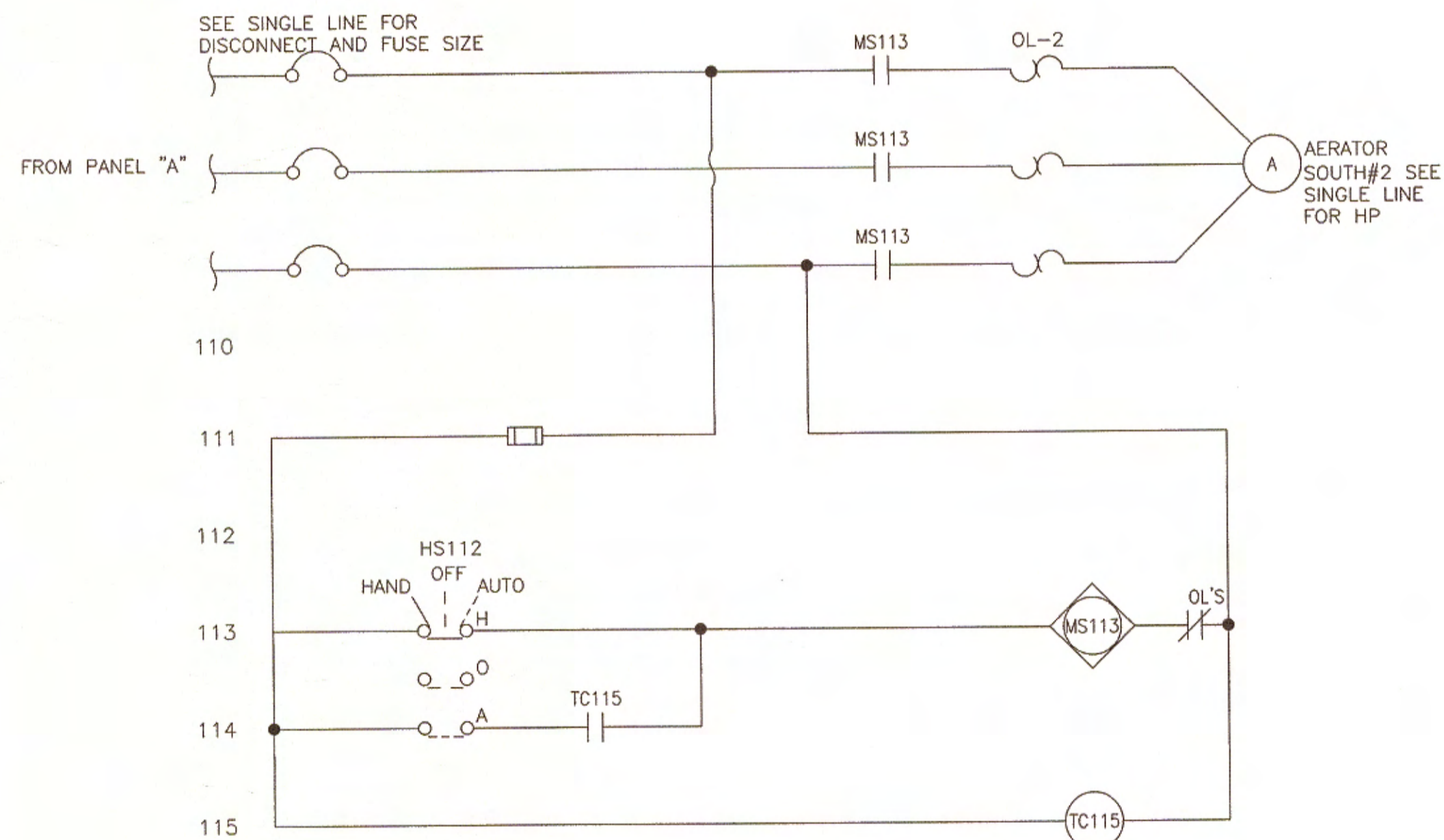
PROJECT TITLE
**GATEWAY OF THE AMERICAS
COUNTY SERVICE AREA
SEWER TREATMENT PLANT EXPANSION
COUNTY PROJECT**

ELECTRICAL DETAILS
REFERENCE R-
SHEET 17 OF 18



AERATOR NORTH#2 CONTROL SCHEMATIC

NOTE
ALL COMPONENTS SHALL BE
SUITABLE FOR 480V
OPERATION.



AERATOR SOUTH#2 CONTROL SCHEMATIC

NOTE
ALL COMPONENTS SHALL BE
SUITABLE FOR 480V
OPERATION.

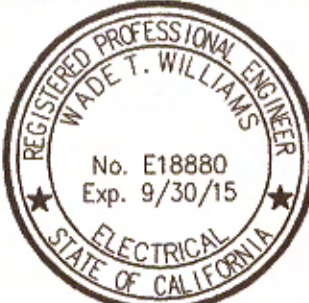

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REVISION	DATE	COMMENTS	PREPARED UNDER THE DIRECT SUPERVISION OF:	COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVED FOR CONSTRUCTION BY:	DATE	PROJECT TITLE	ELECTRICAL SCHEMATIC
			 WADE T. WILLIAMS No. E18880 Exp. 9/30/15 R.C.E. No. 18880 9/30/15 REG. EXP.	 WILLIAM S. BRUNET No. 61599 Exp. 6-30-15 R.C.E. No. 61599 6-30-15 REG. EXP.	FEB 06 2014 DATE	GATEWAY OF THE AMERICAS COUNTY SERVICE AREA SEWER TREATMENT PLANT EXPANSION COUNTY PROJECT	REFERENCE R- SHEET 18 OF 18