City of Beaumont

550 E. 6th Street
Beaumont, CA 92223
(951) 769-8520
www.ci.beaumont.ca.us

Case No. PW2023-1025
Receipt No. R01318433
Fee $ 3,484.43
Date Paid 5/8/2023

BOND EXONERATION APPLICATION

Bond Type: ☒Performance ☐Maintenance ☐Final Monument Inspection ☐Other:_____

1. Contact's Name Bruce McDonald Phone 949-655-8227

2. Contact's Address 1140 N. Coast Highway, Laguna Beach, CA 92651
City/State/Zip

5. Contact's E-mail bruce@mcdonaldpropertygroup.com

3. Developer Name McDonald Property Group Phone 949-655-8227
(If corporation or partnership application must include names of principal officers or partners)

4. Developer Address 1140 N. Coast Highway, Laguna Beach, CA 92651
City/St/Zip

5. Description of Bonds (including Bond Number, Tract Map/Application number, Lot number, and description of improvements covered):
~~Performance Bond #107506778 for Parcel Map No. 36426 for 4th Street Sewer Lift Station~~

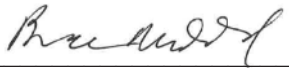
6. **CERTIFICATION OF ACCURACY AND COMPLETENESS:** I hereby certify that to the best of my knowledge the information in this application and all attached answers and exhibits are true, complete, and correct.

Bruce McDonald 5/4/2023
Print Name and Sign – Contact/Applicant Date

7. Contractor shall indemnify, defend, and hold harmless the City and its officers, officials, employees and volunteers from and against any and all liability, loss, damage, expense, costs (including without limitation costs and fees of litigation) of every nature arising out of or in connection with contractor's performance of work hereunder or its failure to comply with any of its obligations for which this Bond exoneration is requested, except for such loss or damage which was caused by the active negligence of the City.

Bruce McDonald 5/4/2023
Print Name and Sign – Contact/Applicant Date

8. Developer/Contractor has completed all the following items prior to requesting release or has included them in the application.
   - Remove and replace concrete and AC as needed where lifting.
   - Provide AC crack fill as needed. Crack fill/seal shall be hot asphaltic emulsion.
   - Provide Type II slurry coat for all road surfaces.
   - Restore/Verify pavement striping/markings.
   - Restore/Verify blue dots and signage as needed.
   - Clean and camera sewer. Provide report and video copy of camera survey.
   - Provide all final geotechnical reports.
   - Provide Engineers' certification for line and grade within Right-of-Way.
   - Provide Landscape Architects Certification as required.

Bruce McDonald  5/4/2023

Print Name and Sign – Contact/Applicant Date

McDONALD PROPERTY GROUP

May 4, 2023

City of Beaumont
Attn: Jeff Hart
550 E. 6th Street
Beaumont, CA 92223

Re: **Request for Bond Exoneration for 4th Street Sewer Lift Station**

Dear Jeff,

Please see attached Bond Exoneration Application and all required documents for the work that we have completed to release Performance and Payment Bond #107506778 for our completed 4th Street Sewer Lift Station.

Please feel free to contact me if you have any questions or concerns regarding these documents.

Sincerely,

Bruce McDonald
McDonald Property Group

Basic Gov (Sales Force) # PW2020-0611
File # 3387

AGREEMENT TO PROVIDE SECURITY FOR IMPROVEMENTS FOR TRACT MAP OR PARCEL MAP OR PLOT PLAN
(Tract Map/Parcel Map/Plot Plan No. PP2018-0134)
For Beaumont Crossroads II Sewer Lift Station

THIS AGREEMENT TO PROVIDE SECURITY FOR IMPROVEMENTS ("Security Agreement") is made by and between CITY OF BEAUMONT ("CITY") and MPLD II INLAND EMPIRE, LLC, a Delaware limited liability company ("DEVELOPER").

RECITALS

A. DEVELOPER has applied to the CITY for permission to develop certain real property, pursuant to that certain Tract Map/Parcel Map/Plot Plan #36426 ("Map"). DEVELOPER has also asked the CITY to accept the dedication of the street or streets and other proposed public rights-of-way, parks and recreation facilities, and easements as depicted on the Map and to otherwise approve the Map so that it may be recorded as required by law; and

B. The CITY requires, as a condition precedent to the acceptance and approval of the Map and the dedication of the public rights-of-way and easements depicted thereon, that such rights-of-way be improved with (for example) grading, paving, site walls, storm drain, sanitary sewers and appurtenances thereto, electrical and telecommunications, water pipes, water mains, fire hydrants and appurtenances thereto, and landscaping, including any warranty work for all such improvements (collectively, "Improvements"); and

C. The Improvements have not yet been constructed and completed and it is the purpose of this Security Agreement to set forth the terms and conditions by which the DEVELOPER shall guarantee that such Improvements shall be constructed and completed within the time set forth herein.

AGREEMENT

NOW, THEREFORE, in consideration of the acceptance of the DEVELOPER's offer of dedication and the approval of the Map for filing and recording as provided and required by law, the CITY and the DEVELOPER hereby agree as follows:

1. Provision of Improvements. DEVELOPER shall provide, at the DEVELOPER's sole cost and expense, all necessary labor and materials to complete the construction of the Improvements depicted on the Map and described in the conditions of approval of the Map within one (1) year of the date of this Security Agreement.

2. Inspection by the CITY. The CITY shall inspect, at the DEVELOPER's sole cost and expense, all of the work, labor and materials performed and provided by the DEVELOPER in connection with the Improvements.

3. Compliance with Plans and Specifications. The Improvements shall be constructed and installed in strict accordance with the CITY-approved plans and specifications.

4. Security for Performance. Concurrently with the execution of this Security Agreement by DEVELOPER, DEVELOPER shall deliver to the CITY a performance bond issued by a corporate surety in substantially the form required by California Government Code 66499.1 and attached hereto as **Exhibit "A"**, in an amount that is not less than 100% of the total estimated cost of the Improvements and any warranty therefor. The performance bond shall be issued by an "admitted" corporate surety insurer authorized to do business in the State of California and the surety insurer shall have an A.M. Best rating of at least "A, XV". The surety insurer shall have assets exceeding its liabilities in the amount equal to or in excess of the amount of the bond, and the bond shall not be in excess of 10% of the surety insurer's assets. The security or bond shall also insure against any and all defects in the Improvements for a period of not less than one full year after the date of acceptance thereof by the CITY. The bond shall be duly executed and shall meet all the requirements of Section 995.660 of the California Code of Civil Procedure.

5. Security for Contractors, Subcontractors, Laborers and Materialmen. The DEVELOPER shall also provide a payment bond issued by a corporate surety for the security of laborers and materialmen, which bond or bonds shall be in substantially the form required by California Government Code Section 66499.2 attached hereto as **Exhibit "B"** and made a part hereof. The amount of the bond(s) shall be no less than 100% of the total estimated amount needed to secure payment to the contractor, to the subcontractors, and to the persons furnishing labor, materials, or equipment to them for the Improvements. The laborers and materialmen bond shall be provided by an "admitted" corporate surety insurer authorized to transact surety insurance in the State of California with an A.M. Best rating of "A, XV", and with assets exceeding its liabilities in the amount equal to or in excess of the amount of the bond, and the bond shall not be in excess of 10% of the surety insurer's assets. The bond shall be duly executed and shall meet all the requirements of Section 995.660 of the California Code of Civil Procedure.

6. General Liability and Worker's Compensation Insurance. The DEVELOPER shall, before commencing any work, obtain commercial general liability insurance (primary) of not less than $2,000,000.00 per occurrence for all coverages and $2,000,000.00 general aggregate. The CITY and its employees and agents shall be added as additional insureds. Coverage shall apply on a primary non-contributing basis in relation to any other insurance or self-insurance, primary or excess, available to the CITY or any employee or agent of the CITY. Coverage shall not be limited to the vicarious liability or supervisory role of any additional insured. Coverage shall contain no contractors' limitation endorsement. There shall be no endorsement or modification limiting the scope of coverage for liability arising from pollution, explosion, collapse, underground property damage or employment-related practices. Such insurance shall not prohibit the DEVELOPER, and its employees or agents, from waiving the right of subrogation prior to a loss. The DEVELOPER waives its right of subrogation against the CITY. Unless otherwise approved by the CITY, the DEVELOPER's insurance shall be written by insurers authorized to do business in the State of California and with a minimum A.M. Best rating of "A, XV." Self-insurance shall not be considered to comply with these insurance specifications. The DEVELOPER agrees to require all contractors, subcontractors and other parties hired for the Improvements to purchase and maintain insurance of the types specified herein, naming as additional insureds all of the parties to this Security Agreement. The DEVELOPER shall, before commencing any work, obtain Worker's Compensation Insurance in an amount required by law and, failing to do so, the CITY may procure such insurance at the cost of the DEVELOPER.

7. Comprehensive Commercial General and Automobile Liability Insurance. The DEVELOPER, before commencing any work shall, at its own expense, maintain comprehensive commercial general and automobile liability insurance issued by a California-admitted surety company with an A.M. Best rating of no less than "A, XV" for $2,000,000 per occurrence. Coverage shall be for the entire duration of the permitted activities. Such liability insurance policy shall name, by endorsement, the CITY as an additional insured.

8. Indemnification. Notwithstanding the provisions of Government Code, Section 66474.9 or any other statutes of similar import, and to the full extent permitted by law, the DEVELOPER shall defend, indemnify and hold harmless the CITY, its employees, agents, officials and attorneys, from and against any liability, claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind or nature, whether actual, alleged or threatened, reasonable attorneys' fees, court costs, interest, expert witness fees and any other costs or expenses of any kind whatsoever, without restriction or limitation, incurred in relation to, as a consequence of, or arising out of or in any way attributable actually, allegedly or impliedly, in whole or in part, to the Map, the Improvements, this Agreement, or any matter related to the same; provided, however, that the indemnification to be provided by DEVELOPER to the CITY pursuant to the terms of this paragraph shall not be applicable where the aforementioned liability, claim, suit or action is the result of the sole negligence or sole willful misconduct of the CITY.

9. Procedure for Release of Performance Bond Security. The security furnished by the DEVELOPER shall be released in whole or in part in the following manner:

a. Security shall be released upon final completion and acceptance of the Improvements. If the security furnished by the DEVELOPER is documentary evidence of security, such as a surety bond, the CITY shall release the documentary evidence and return the original to the Surety upon final completion and acceptance of the Improvements. In the event the CITY is unable to return the original documentary evidence to the Surety, the security shall be released by written notice sent by certified mail to the DEVELOPER and to the Surety within 30 days of the CITY's acceptance of the Improvements. The written notice shall contain a statement that the work for which security was furnished has been completed and accepted, a description of the Improvements, and the notarized signature of an authorized CITY official.

b. At such time as the DEVELOPER believes that the work for which the security was required is complete and makes payment of the partial exoneration fee of $350 to the CITY, the DEVELOPER shall notify the CITY in writing of the completed work, including a list of work completed. Upon receipt of the written notice, the CITY shall have 45 days to review and comment or approve the completion of the Improvements. If the CITY does not agree that all work has been completed in accordance with the plans and specifications for the Improvements, it shall supply a list of all remaining work to be completed.

c. Within 45 days of receipt of the CITY's list of remaining work, the

DEVELOPER may then provide cost estimates for all remaining work for review and approval by the CITY.

d. Upon receipt of the cost estimates, the CITY shall then have 45 days to review, comment, and approve, modify or disapprove those cost estimates. The CITY shall not be required to engage in this process of partial release more than once between the start of work and the completion and acceptance of all work.

e. The DEVELOPER shall complete the works of Improvement until all remaining items are accepted by the CITY. Upon completion of the Improvements, the DEVELOPER shall be notified in writing by the CITY within 45 days and, within 45 days of the date of the CITY's notice, the release of any remaining performance security shall be made within 60 days of the recording of the Notice of Completion.

10. Procedure for Release of Payment Bond Security. Security securing the payment to the contractor, his or her subcontractors and persons furnishing labor, materials or equipment may, after passage of the time within which mechanic's liens and stop notices are required to be recorded and after acceptance of the Improvements, be reduced by Surety to an amount equal to the total claimed by all claimants for whom mechanic's liens and stop notices have been recorded and notice thereof given in writing to the CITY, and if no claims have been recorded, the security may be released in full.

11. Security for One-Year Warranty Period. DEVELOPER shall guarantee or warranty the work done pursuant to this Agreement for a period of one year after final formal acceptance of the SUBDIVISION by the City Council against any defective work or labor done or defective materials furnished. If within the warranty period any work or improvement or part of any work or improvement done, furnished, installed, or constructed by DEVELOER fails to fulfill any of the requirements of this Agreement or the improvement plans and specifications referred to herein, DEVELOPER shall without delay and without any cost to CITY, repair or replace or reconstruct any defective or otherwise unsatisfactory part or parts of the work or structure. Should DEVELOPER fail to act promptly or in accordance with this requirement, DEVELOPER hereby authorizes CITY, at CITY's option, to perform the work twenty (20) days after mailing written notice of default to DEVELOPER and to DEVELOPER's surety, and agrees to pay the cost of such work by CITY. Should CITY determine that an urgency requires repairs or replacements to be made before DEVELOPER can be notified, CITY may, in its sole discretion, make the necessary repairs or replacement or perform the necessary work and DEVELOPER shall pay to CITY the cost of such repairs. If no claims have been made under the warranty bond during the warranty period, CITY shall release the warranty bond. The release procedures described in paragraphs 9 and 10 above shall not apply to the required guarantee and warranty period nor to the amount of the performance bond security deemed necessary by the CITY for the guarantee and warranty period nor to costs and reasonable expenses and fees, including reasonable attorney's fees.

12. Binding Effect. This Security Agreement shall be binding upon and shall inure to the benefit of the parties hereto, their legal representatives and their successors and assigns.

13. Authority to Execute. The DEVELOPER hereby warrants and represents to the CITY that the individual signing this Security Agreement on behalf of the DEVELOPER is vested with the unconditional authority to do so pursuant to, and in accordance with, all applicable legal requirements, and has the authority bind the DEVELOPER hereto.

14. No Assignment. The DEVELOPER may not assign this Security Agreement, or any part thereof, to another without the prior written consent of the CITY.

15. Attorneys' Fees. In the event of legal action to enforce or interpret this Agreement or any of its provisions, the prevailing party shall be entitled, in addition to any other form of relief, to recover its reasonable attorneys' fees and out-of-pocket costs of suit.

16. Execution in Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original, but which together shall constitute a single agreement.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed on the dates listed below.

CITY:

CITY OF BEAUMONT

By: _____
Mayor

Date: December 13, 2021

DEVELOPER:

MPLD II INLAND EMPIRE, LLC,
a Delaware limited liability company

By: MPLD II REIT A,
a Texas real estate investment trust,
its sole member

By: _____
Name: DAVID J. BUCK
Title: Executive Managing Director
Date: 10-8-21

Address: 9830 Colonnade Boulevard, Suite 600, San Antonio, TX 78230-2239

Basic Gov (Sales Force) # PW2020-0611
File # 3387

EXHIBIT "A" Bond No. 107506778

PERFORMANCE BOND

WHEREAS, the City Council of the City of Beaumont, State of California (the "City"), and MPLD II Inland Empire, LLC, a Delaware limited liability company ("Principal") have entered into Agreement To Provide Security For Improvements for Tract Map or Parcel Map or Plot Plan, dated _____, 2021 (the "Agreement"), whereby Principal agrees to install and complete certain designated public improvements which is hereby incorporated herein and made a part hereof; and

WHEREAS, Principal is required under the terms of the said Agreement to furnish a bond for the faithful performance of said Agreement.

NOW, THEREFORE, we, the Principal and Travelers Casualty and Surety Company of America ("Surety") are held and firmly bound unto the City, in the penal sum of **Two Million Nine Hundred Eighty Four Thousand Nine Hundred Twenty Three and 00/100 dollars ($2,984,923.00)** lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, successors, executors and administrators, jointly and severally, firmly by these presents.

The condition of this obligation is such that if the above bounded Principal, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and provisions in the Agreement and any alteration thereof made as therein provided, on his or their part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the City, its officers, agents and employees as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

As part of the obligation secured hereby and in addition to the face amount specified therefor, there shall be included costs and reasonable expenses and fees, including reasonable attorney's fees, incurred by the City in successfully enforcing such obligation, all to be taxed as costs and included in any judgment therein rendered.

The Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the agreement or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Agreement or to the work or to the specifications.

[*signatures on following page*]

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal and Surety above named, on October 6th, 2021.

PRINCIPAL:

MPLD II INLAND EMPIRE, LLC,
a Delaware limited liability company

By: MPLD II REIT A,
a Texas real estate investment trust,
its sole member

By: _____
Name: DAVID J. BUCK
Title: Executive Managing Director
Date: 10-8-21

Address: 9330 Colonnade Boulevard, Suite 600
San Antonio, TX 78230-2239

SURETY:

Travelers Casualty and Surety Company of America, a Connecticut corporation

By: _____
Name: Jeremy Polk
Title: Attorney-in-Fact

Address: 655 N Central Ave, Suite 1100, Glendale, CA 91203

ALL SIGNATURES MUST BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC

Acknowledgement Form

State of Texas)

)ss.:

County of Bexar)

On the 8 day of October in the year 2021, before me, the undersigned notary public, personally appeared David J. Buck, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

MARY ANN SANTIAGO
Notary Public, State of Texas
My Comm. Exp. 11-04-2024
ID No. 13276396-3

Notary Public

ACKNOWLEDGEMENT

State of Arizona

County of Maricopa

On 10/6/2021 *before me personally appeared* ***Jeremy Polk*** *whose identity was proven to me on the basis of satisfactory evidence to be the person who he or she claims to be, and acknowledged that he or she signed the attached document.*

(Seal)

Matthew Stanton Erra
Notary Public
Maricopa County, Arizona
My Comm. Expires 03-09-22
Commission No. 543674

Notary Signature

Matthew Stanton Erra
Commission Expires March 9th, 2022

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Jeremy Polk** of **PHOENIX** **Arizona** , their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **3rd** day of **February**, **2017**.

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **3rd** day of **February**, **2017**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2021**

Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **6th** day of **October** , **2021**

Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.

EXHIBIT "B"

Bond No. 107506778

PAYMENT BOND

WHEREAS, the City Council of the City of Beaumont, State of California (the "City"), and MPLD II Inland Empire, LLC, a Delaware limited liability company (the "Principal") have entered into that certain Agreement To Provide Security For Improvements for Tract Map or Parcel Map or Plot Plan, dated _____, 2021 (the "Agreement"), whereby Principal has agreed to install and complete certain designated public improvements which is hereby incorporated herein and made a part hereof; and

WHEREAS, under the terms of the said Agreement, the Principal is required before entering upon the performance of the work, to file a good and sufficient payment bond with the City of Beaumont to secure the claims to which reference is made in Title 3 (commencing with Section 9000, et seq.) of Part 6 of Division 4 of the Civil Code of the State of California.

NOW, THEREFORE, the Principal and Travelers Casualty and Surety Company of America (the "Surety"), as corporate surety, are held firmly bound unto the City and all contractors, subcontractors, laborers, materialmen, and other persons employed in the performance of the Agreement and referred to Title 3 (commencing with Section 9000, et seq.) of Part 6 of Division 4 of the Civil Code of the State of California in the sum of **Two Million Nine Hundred Eighty Four Thousand Nine Hundred Twenty Three and 00/100 dollars ($2,984,923.00)**, for materials furnished or labor of any kind, or for amounts due under the Unemployment Insurance Act with respect to this work or labor, that the Surety will pay the same in an amount not exceeding the amount hereinabove set forth, and also in case suit is brought upon this bond, will pay, in addition to the face amount thereof, costs and reasonable expenses and fees, including reasonable attorney's fees, incurred by the City in successfully enforcing this obligation, to be awarded and fixed by the court, and to be taxed as costs and to be included in any judgment therein rendered.

It is hereby expressly stipulated and agreed that this bond shall inure to the benefit of any and all persons, companies, and corporations entitled to file claims under Title 3 (commencing with Section 9000, et seq.) of Part 6 of Division 4 of the Civil Code of the State of California, so as to give a right of action to them or their assigns in any suit brought upon this bond.

Should the condition of this bond be fully performed, then this obligation shall become null and void, otherwise, it shall be and remain in full force and effect.

The surety hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the agreement or the specifications accompanying the same shall in any manner affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration, or addition.

[*signatures on following page*]

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal and Surety above named, on October 6th, 2021.

PRINCIPAL:

MPLD II INLAND EMPIRE, LLC,
a Delaware limited liability company

By: MPLD II REIT A,
a Texas real estate investment trust,
its sole member

By: _____
Name: DAVID J. BUCK
Title: Executive Managing Director
Date: 10-8-21

Address: 9330 Colonnade Boulevard, Suite 600
San Antonio, TX 78230-2239

SURETY:

Travelers Casualty and Surety Company of America, a Connecticut corporation

By: _____
Name: Jeremy Polk
Title: Attorney-in-Fact

Address: 655 N Central Ave, Suite 1100, Glendale, CA 91203

ALL SIGNATURES MUST BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC

Acknowledgement Form

State of Texas)

)ss.:

County of Bexar)

On the 8 day of October in the year 2021, before me, the undersigned notary public, personally appeared David J. Buck, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

MARY ANN SANTIAGO
Notary Public, State of Texas
My Comm. Exp. 11-04-2024
ID No. 13276396-3

Mary A D

Notary Public

ACKNOWLEDGEMENT

State of Arizona

County of Maricopa

On 10/6/2021 *before me personally appeared* ***Jeremy Polk*** *whose identity was proven to me on the basis of satisfactory evidence to be the person who he or she claims to be, and acknowledged that he or she signed the attached document.*

(Seal)

Matthew Stanton Erra
Notary Public
Maricopa County, Arizona
My Comm. Expires 03-09-22
Commission No. 543674

Notary Signature

Matthew Stanton Erra
Commission Expires March 9th, 2022

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Jeremy Polk** of **PHOENIX** **Arizona** , their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **3rd** day of **February**, **2017**.

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **3rd** day of **February**, **2017**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2021**

Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **6th** day of **October** , **2021**

Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.

Approved
NV5
11/17/2021

CITY OF BEAUMONT PUBLIC WORKS DEPARTMENT
CONSTRUCTION COST WORKSHEET
Beaumont Crossroads II Sewer Lift Station

PARCEL MAP OR TRACT NO.: Beaumont Crossroads II Sewer Lift Station
DATE:

PP, CUP NO.: BY: Kimley-Horn

IMPROVEMENTS	FAITHFUL PERFORMANCE LABOR & MATERIALS SECURITY (of Estimated Construction Costs)	100% 100%
Streets/Drainage	$	-
Sewer	$	2,984,923
Total	$	2,984,923
Warranty Retension (22.5%)	$	671,608
Street/Drainage Plan Check Fees =	$	500
Sewer Plan Check Fees =	$	59,698
Street Inspection Fees =	$	750
Sewer Inspection Fees =	$	89,548

DESIGN ENGINEERS CALCULATIONS OF IMPROVEMENT BONDING COSTS

Construction items and their quantities as shown on attached sheets are accurate for the improvements required to construct the above project and the mathematical extensions using City's unit costs are accurate for determining bonding, plan check and inspection costs.

Above amounts do [ ] include additional 20% for recordation prior to having signed plans

Above amounts do not [X] include additional 20% for recordation prior to having signed plans

REGISTERED PROFESSIONAL ENGINEER
SAMUEL LAKE MCWHORTER
No 61788
Exp 6/30/23
CIVIL
STATE OF CALIFORNIA

Sam McWhorter
Engineer's Signature

20-Oct-21
Date

Sam L. McWhorter
Name typed or printed

Civil Engineer's Stamp

FORM $ UNIT COSTS REVISED 09/06

*****PLEASE READ INSTRUCTIONS BELOW*****

1. Quantities to be taken from improvement plans, Unit costs to be as provided on "City of Beaumont Improvement Requirement Worksheet".

2. Show Bond Amounts to the nearest $500.

3. For construction items not covered by "City of Beaumont Improvement Worksheet", Design Engineer is to provide his opinion of construction cost and use of that cost. If City of Beaumont Unit Costs are determined to be too low in the opinion of the Design Engineer, the higher costs as provided by the Design Engineer should be used.

CITY OF BEAUMONT PUBLIC WORKS DEPARTMENT
IMPROVEMENT REQUIREMENT WORKSHEET
FOR ON-SITE GRADING / IMPROVEMENTS

PROJECT: Beaumont Crossroads II Sewer Lift Station DATE: 0-Jan-00

STREET IMPROVEMENTS				
QTY.	UNIT	ITEM	UNIT COST	AMOUNT
		Roadway Excavation		
	C.Y.	1. Projects with a grading plan area x 0.50' (hinge point to hinge point)(262,230 sf)	$ 15.00	$ -
		2. Projects without a grading plan (road area and side slopes to daylight Cut (c) = 76,498 Fill (f) = 76,498		
	C.Y. (c - f)	(a.) Excavate and Fill	$ 0.40	$ -
	C.Y. (c - f)	(b.) Excavate and Export	$ 1.10	$ -
	C.Y. (f - c)	(c.) Import and Fill	$ 2.80	$ -
		If balance, provide (a.) only, either cut or fill		
		If export, provide (a.) & (b.), a = fill, b = cut - fill		
		If import, provide (a.) & (c.), a = cut, c= fill - cut		
		(Unit costs for (a.), (b.) & (c.) are 20% of actual		
		costs to assure that work will be corrected to		
		eliminate hazardous conditions.)		
	S.F.	Remove P.C.C. paving	$ 8.00	$ -
	S.F.	Remove A.C. Pavement	$ 1.00	$ -
	L.F.	Remove Curb and Gutter	$ 6.00	$ -
	L.F.	Remove A.C. Dike	$ 3.00	$ -
	S.F.	Remove Sidewalk	$ 3.00	$ -
	L.F.	Sawcut & Remove Exist. A.C. Pavement	$ 2.00	$ -
	S.F.	Cold Plane A.C. Pavement	$ 1.00	$ -
	E.A.	Relocate Sewer M.H.	$ 6,000.00	$ -
-	C.Y.	1. On-site grading	$ 5.00	$ -
	S.F.	Remove existing driveway	$ 3.00	$ -
	S.F.	Remove existing catch basin and appurtenances	$ 1,500.00	$ -
-	L.F.	Curb & Gutter 12"	$ 21.00	$ -
-	L.F.	P.C.C. 18" channel	$ 18.00	$ -
-	L.F.	P.C.C. 54" channel	$ 40.00	$ -
	S.F.	P.C.C. paving 5.5" over 12" compacted subgrade	$ 3.25	$ -
	S.F.	P.C.C. paving 7" over 12" compacted subgrade	$ 4.00	$ -
-	S.F.	Parkway drain per std. dwg 308	$ 25.00	$ -
-	L.F.	P.C.C. Curb 4"	$ 6.00	$ -
-	L.F.	P.C.C. curb 12"	$ 14.00	$ -
			SUBTOTAL =	$ -

CITY OF BEAUMONT PUBLIC WORKS DEPARTMENT
IMPROVEMENT REQUIREMENT WORKSHEET

PROJECT: Beaumont Crossroads II Sewer Lift Station DATE: 0-Jan-00

STREET IMPROVEMENTS (Cont'd.)				
QTY.	UNIT	ITEM	UNIT COST	AMOUNT
	L.F.	Remove Chain Link Fence	$ 2.50	$ -
	EA.	Remove Barricade	$ 200.00	$ -
	TON	Asphalt Concrete - 144 lbs/cu. Ft. (On-Site SF @ AC thickness Ft.)	$ 90.00	$ -
	C.Y.	Aggregate Base Class II (OnSite SF @ AB thickness Ft.)	$ 50.00	$ -
	TON	Asphalt Emulsion (Fog Seal/Paint Binder) (1 ton = 240 gals) (OnSite SF) apply at 0.05 + 0.03 = 0.08 gal/SY	$ 600.00	$ -
	S.F	AC overlay (min. 0.10') If export, provide (a) & (b), a=fill, b=cut-fill If import, provide (a)&(C), a=cut, c=fill-cut (Unit costs for (a), (b) & (C) are 20% of actual costs to assure that work will be corrected to eliminate hazardous conditions.)	$ 1.00	$ -
	L.F.	Curb and Gutter (Wedge Curb)	$ 8.00	$ -
	L.F.	Curb and Gutter (Type A-6)	$ 10.00	$ -
	L.F.	Curb and Gutter (Type A-8)	$ 12.00	$ -
	L.F.	Type "C" Curb	$ 10.00	$ -
	L.F.	Type "D" Curb	$ 15.00	$ -
	L.F.	A.C. Dike (6") (incl. material & labor)	$ 8.00	$ -
	L.F.	A.C. Dike (8") (incl. Material & labor)	$ 10.00	$ -
	S.F.	P.C.C. Cross Gutter and Spandrels	$ 10.00	$ -
	S.F.	P.C.C. Sidewalk	$ 6.00	$ -
	S.F.	P.C.C. Drive Approach	$ 8.00	$ -
	EA.	Handicapped Access Ramp	$ 1,500.00	$ -
	S.F.	P.C.C. Drive Approach (individual lot driveway approach per finished grading plan)	$ 8.00	$ -
	S.F.	Cold Plane & Overlay Exist. A.C. Paving	$ 4.00	$ -
	L.F.	Redwood Header	$ 3.00	$ -
				$ -
				$ -

SUBTOTAL = $ -

CITY OF BEAUMONT PUBLIC WORKS DEPARTMENT
IMPROVEMENT REQUIREMENT WORKSHEET

PROJECT: Beaumont Crossroads II Sewer Lift Station DATE: 0-Jan-00

STREET IMPROVEMENTS (Cont'd.)				
QTY.	UNIT	ITEM	UNIT COST	AMOUNT
	EA.	Street Name Sign	$ 275.00	$ -
	EA.	Delineators-per Caltrans Std. A73C, Class 1, Type F	$ 45.00	$ -
	EA.	Object Markers - Modified Type F Delineators, Riverside County	$ 60.00	$ -
	L.F.	Barricades	$ 28.00	$ -
	L.F.	Utility Trench, one side (Edison, Telephone, Cable) (Total length of streets)	$ 10.00	$ -
	L.F.	Chain Link Fence (6')	$ 12.00	$ -
	L.F.	Remove Fence	$ 4.00	$ -
	EA.	Relocate Power Pole	$ 10,000.00	$ -
	EA.	Street Lights (including conduit)	$ 5,000.00	$ -
	EA.	Street Trees (15 gallon)	$ 150.00	$ -
	L.S.	Landscape and Irrigation	$ -	$ -
	EA.	Concrete Bulkhead	$ 200.00	$ -
	C.Y.	Structural Reinforced Concrete	$ 400.00	$ -
	EA.	Slope Anchors for Pipes	$ 300.00	$ -
	L.F.	Cut Off Wall (Std. 2')	$ 5.50	$ -
	EA.	A.C. Overside Drain	$ 500.00	$ -
	EA.	Under Sidewalk Drain Std. 309	$ 2,000.00	$ -
	EA.	Flat Outlet Drainage Structure Std. 303	$ 500.00	$ -
	EA.	Curb Outlet Drainage Structure Std. 308	$ 500.00	$ -
	S.F.	Terrace Drains and Down Drains	$ 6.50	$ -
	S.F.	Interceptor Drains	$ 6.50	$ -
	EA.	Pavement Marking	$ 200.00	$ -
	L.F.	Limit Line	$ 2.00	$ -
	EA.	R1 "STOP SIGN"	$ 250.00	$ -
	EA.	W53 "NOT A THROUGH STREET"	$ 250.00	$ -
				$ -
				$ -

SUBTOTAL = $ -

CITY OF BEAUMONT PUBLIC WORKS DEPARTMENT
IMPROVEMENT REQUIREMENT WORKSHEET

PROJECT: Beaumont Crossroads II Sewer Lift Station DATE: 0-Jan-00

STREET IMPROVEMENTS (Cont'd.)				
QTY.	UNIT	ITEM	UNIT COST	AMOUNT
	C.Y.	12 inch non-grouted rip rap, 24 inch thick	$ 40.00	$ -
	C.Y.	Rip Rap (1/2 Ton) Method B	$ 45.00	$ -
	C.Y.	Rip Rap (1 Ton) Method B	$ 50.00	$ -
	C.Y.	Rip Rap (2 Ton) Method B	$ 55.00	$ -
	C.Y.	Grouted Rip Rap (1/4 Ton) Method B	$ 60.00	$ -
	C.Y.	Grouted Rip Rap (1/2 Ton) Method B	$ 67.00	$ -
	C.Y.	Grouted Rip Rap (1Ton) Method B	$ 75.00	$ -
	C.Y.	Grouted Rip Rap (2 Ton) Method B	$ 80.00	$ -
	L.F.	18" R.C.P.	$ 50.00	$ -
	L.F.	24" R.C.P.	$ 60.00	$ -
	L.F.	30" R.C.P.	$ 80.00	$ -
	L.F.	36" R.C.P.	$ 90.00	$ -
	L.F.	42" R.C.P.	$ 100.00	$ -
	L.F.	48 " RCP	$ 110.00	$ -
	L.F.	54" RCP	$ 135.00	$ -
	L.F.	60" RCP	$ 160.00	$ -
	L.F.	72" RCP	$ 200.00	$ -
	L.F.	12 inch H.D.P.E. N-12	$ 36.00	$ -
	L.F.	18 inch H.D.P.E. N-12	$ 50.00	$ -
	L.F.	24 inch H.D.P.E. N-12	$ 60.00	$ -
	L.F.	30 inch H.D.P.E. N-12	$ 75.00	$ -
	L.F.	42 inch H.D.P.E. N-12	$ 100.00	$ -
	L.F.	36 inch H.D.P.E. N-12	$ 90.00	$ -
	L.F.	48 inch H.D.P.E. N-12	$ 120.00	$ -
	EA.	H.D.P.E. Clean Out	$ 400.00	$ -
	EA.	18" C.M.P. Wye	$ 500.00	$ -
	EA.	Riprap Headwall	$ 1,000.00	$ -
	EA.	Concrete collar per S.P.P.W.C. standard 380-4, L & T	$ 1,000.00	$ -
	EA.	Outlet Structure	$ 10,000.00	$ -
	EA.	C.M.P. riser	$ 1,000.00	$ -
	EA.	Pre fabricated N-12 tee	$ 300.00	$ -
	L.F.	12 inch concrete thickened edge	$ 7.50	$ -

SUBTOTAL = $ -

CITY OF BEAUMONT PUBLIC WORKS DEPARTMENT
IMPROVEMENT REQUIREMENT WORKSHEET

PROJECT: Beaumont Crossroads II Sewer Lift Station DATE: 0-Jan-00

STREET IMPROVEMENTS (Cont'd.)				
QTY.	UNIT	ITEM	UNIT COST	AMOUNT
	L.F.	60" C.S.P.	$ 115.00	$ -
	EA.	Catch Basin W = 4'	$ 1,700.00	$ -
	EA.	Catch Basin W = 7'	$ 3,000.00	$ -
	EA.	Catch Basin W = 10'	$ 4,000.00	$ -
	EA.	Catch Basin W = 14'	$ 5,500.00	$ -
	EA.	Catch Basin W = 28'	$ 9,500.00	$ -
	EA.	Catch Basin - Standard 301-2.	$ 2,500.00	$ -
	EA.	Grate Inlet Skimmer box - 24*24	$ 500.00	$ -
	EA.	Junction Structure No. 1	$ 3,000.00	$ -
	EA.	Junction Structure No. 2	$ 2,500.00	$ -
	EA.	Manhole No. 1	$ 2,700.00	$ -
	EA.	Manhole No. 2	$ 3,300.00	$ -
	EA.	Manhole No. 3	$ 2,700.00	$ -
	EA.	Manhole per S.P.P.W.C. standard 322-2	$ 5,000.00	$ -
	E.A.	Manhole per S.P.P.W.C. standard 320-2	$ 4,500.00	$ -
	E.A.	Manhole per S.P.P.W.C. standard 321-2	$ 3,500.00	$ -
	EA.	Adjust Water Valve (if no water plan)	$ 150.00	$ -
	EA.	Adjust MH to grade (if no sewer plan)	$ 400.00	$ -
	EA.	Concrete Headwall	$ 865.00	$ -
	EA.	Grating catch basin per S.P.P.W.C. standard 305-3 w/ 'Kristar FloGard Plus Catch Basin Insert Filter'	$ 2,160.00	$ -
	EA.	Remove & Dispose of RCB Headwall & Wingwall	$ 10,000.00	$ -
	L.F.	Concrete Bulkhead	$ 25.00	$ -
	EA.	Outlet Structure (Line A & B)	$ 5,000.00	$ -
	EA.	Remove Existing Headwall	$ 1,000.00	$ -
	EA.	Local Depression per RCTD Std 311 Case E	$ 1,200.00	$ -
	EA.	Local Depression per RCTD Std 311 Case B	$ 1,500.00	$ -
	L.F.	8 inch thick concrete channel	$ 10.00	$ -
	LF	5 feet deep, 6 inch thick concrete cut off wall	$ 100.00	$ -
	LF	3 feet deep, 6 inch thick concrete cut off wall	$ 60.00	$ -

SUBTOTAL = $ -

CITY OF BEAUMONT PUBLIC WORKS DEPARTMENT
IMPROVEMENT REQUIREMENT WORKSHEET

PROJECT: Beaumont Crossroads II Sewer Lift Station DATE: 0-Jan-00

STREET IMPROVEMENTS (Cont'd.)				
QTY.	UNIT	ITEM	UNIT COST	AMOUNT
	EA.	Water Quality Structure	$ 2,500.00	$ -
	LS	Concrete Inlet Apron	$ 11,000.00	$ -
	LS	Emergency Spillway	$ 27,000.00	$ -
	LS	84" Storm Drain Grate	$ 8,500.00	$ -
	SF	3' Wide V-Gutter	$ 4.00	$ -
	LS	Signal & Lighting	$ 100,000.00	$ -
	EA.	Concrete Pipe Anchor	$ 500.00	$ -
	SF	5' Wide Concrete V-Gutter	$ 12.00	$ -
				$ -
				$ -
			Subtotal:	$ -

A.	Subtotal	$ -
B.	Contingency (15%)	$ -
C.	Streets/Drainage Total (A + B)	$ -

****

PC Fee $0.00
50% of Table A
Table A - 2% of cost

CITY OF BEAUMONT PUBLIC WORKS DEPARTMENT
IMPROVEMENT REQUIREMENT WORKSHEET

PROJECT: Beaumont Crossroads II Sewer Lift Station DATE: 0-Jan-00

SEWER IMPROVEMENTS

Show quantities on this sheet only if project has a sewer plan. If no water plan, then show applicable quantities as part of street improvements.

QTY.	UNIT	ITEM	UNIT COST	AMOUNT
10	LF	Demo Existing 12" PVC Gravity Sewer main	$ 200.00	$ 2,000
21	L.F.	6" Force Main	$ 622.00	$ 13,062
1	EA.	60" Manhole	$ 62,700.00	$ 62,700
35	L.F.	15" Sewer Main	$ 511.00	$ 17,885
20	L.F.	16" Sewer Main	$ 996.00	$ 19,920
1	L.S.	Wet Well	$ 457,000.00	$ 457,000
14	EA.	Core/Sawcut	$ 574.00	$ 8,036
2	EA.	Pumps	$ 150,000.00	$ 300,000
1	L.S.	Mechanical Piping	$ 153,000.00	$ 153,000
36	L.F.	Chemical Feed Line	$ 308.00	$ 11,088
2	EA.	Sewage Backflush	$ 3,350.00	$ 6,700
60	L.F.	6" Vent Pipe	$ 218.00	$ 13,080
60	L.F.	2" Water Service	$ 332.00	$ 19,920
1	L.S.	4" PVC Storm Drain, Grates and other Appurtenances	$ 23,000.00	$ 23,000
1	EA.	Eye Wash Station	$ 8,060.00	$ 8,060
1	EA.	Air Vac	$ 26,000.00	$ 26,000
2	EA.	Hose Bibbs	$ 2,080.00	$ 4,160
8	EA.	Raise Utilities	$ 1,350.00	$ 10,800
1,250	C.Y.	Earthwork	$ 49.92	$ 62,400
5,290	S.F.	Aggregate Base and A.C. Paving	$ 10.65	$ 56,343
584	L.F.	Site Walls	$ 301.00	$ 175,784
515	S.F.	Concrete Pads	$ 82.00	$ 42,230
7	EA.	Install Bollard	$ 2,340.00	$ 16,380
100	L.F.	Fences and Gates	$ 199.16	$ 19,916
115	L.F.	Masonry and Foundation	$ 391.00	$ 44,965
1	L.S.	Building Slab	$ 28,500.00	$ 28,500
1	L.S.	Building Roof and Awning	$ 68,900.00	$ 68,900
1	L.S.	Doors	$ 16,000.00	$ 16,000
1	L.S.	HVAC	$ 42,000.00	$ 42,000
1	L.S.	Electrical	$ 740,000.00	$ 740,000
1	EA.	Generator	$ 115,000.00	$ 115,000
1,010	S.F.	3/4" Rock over Filter Fabric	$10.65	$ 10,757
				$ -

A.	Subtotal	$ 2,595,585
B.	Contingency (15% x A)	$ 389,338
C.	Sewer Total (A + B)	$ 2,984,923

CITY OF BEAUMONT, CALIFORNIA
BEAUMONT CROSSROADS LIFT STATION
100% SUBMITTAL

GENERAL NOTES

1. THIS PLAN SUPERSEDES ALL OTHER PLANS PREVIOUSLY APPROVED BY THE CITY OF BEAUMONT REGARDING IMPROVEMENTS SHOWN ON THIS SET OF PLANS.
2. APPROVAL OF THIS PLAN DOES NOT LESSEN OR WAIVE ANY PORTION OF THE BEAUMONT MUNICIPAL CODE, RESOLUTION OF CONDITIONAL APPROVAL, CITY STANDARDS OR OTHER ADDITIONAL DOCUMENTS LISTED HEREIN AS THEY MAY PERTAIN TO THIS PROJECT. THE ENGINEER IN RESPONSIBLE CHARGE SHALL REVISE THESE PLANS WHEN NON-CONFORMANCE IS DISCOVERED.
3. CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER OR ENGINEER-OF-WORK FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS AND OMISSIONS DISCOVERED DURING CONSTRUCTION. ALL PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
4. A RIGHT-OF-WAY PERMIT FROM THE BUILDING & SAFETY DEPARTMENT WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. PRIOR TO PERMIT ISSUANCE, A CERTIFICATE OF INSURANCE MUST BE FILED NAMING THE CITY OF BEAUMONT AS AN ADDITIONAL INSURED ON THE PERMITTEE'S POLICY IN THE MINIMUM AMOUNT OF $1,000,000.00 FOR EACH OCCURRENCE OF LIABILITY. THE INSURANCE COMPANY WRITING THE POLICY MUST HAVE A RATING OF "A-" OR BETTER AND A SIZE CATEGORY OF CLASS VII OR BETTER AS ESTABLISHED BY "BESTS" KEY RATING GUIDE.
5. NO WORK SHALL BE COMMENCED UNTIL ALL PERMITS HAVE BEEN OBTAINED FROM THE CITY AND OTHER APPROPRIATE AGENCIES.
6. REVISION OF THESE PLANS MAY BE REQUIRED IF THE PROPOSED IMPROVEMENTS ARE NOT CONSTRUCTED PRIOR TO THE DEADLINE DATE OF THE IMPROVEMENT AGREEMENT.
7. NO REVISIONS WILL BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE CITY ENGINEER, NOTED WITHIN THE REVISION BLOCK, ON THE APPROPRIATE SHEET OF THE PLANS AND TITLE SHEET.
8. ORIGINAL DRAWINGS SHALL BECOME THE PROPERTY OF THE CITY UPON BEING SIGNED BY THE CITY ENGINEER.
9. THE ORIGINAL DRAWING SHALL BE REVISED TO REFLECT AS-BUILT CONDITIONS BY THE ENGINEER-OF-WORK PRIOR TO FINAL ACCEPTANCE OF THE WORK BY THE CITY.
10. ACCESS FOR FIRE AND OTHER EMERGENCY VEHICLES SHALL BE MAINTAINED TO THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
11. WHERE TRENCHES ARE WITHIN CITY EASEMENTS, A SOILS REPORT COMPRISED OF:
    A. SUMMARY SHEET
    B. LABORATORY WORK SHEETS
    C. COMPACTION CURVES, SHALL BE SUBMITTED BY A PROFESSIONAL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOILS MECHANICS. THE SOILS REPORT WILL BE SUBMITTED TO THE CITY ENGINEERING INSPECTOR WITHIN TWO WORKING DAYS OF COMPLETION OF FIELD TESTS. THE WRITTEN FIELD COMPACTION REPORT(S) SHALL BE IMMEDIATELY SUBMITTED TO THE CITY ENGINEERING INSPECTOR UPON COMPLETION OF THE FIELD TESTS.
12. A PRECONSTRUCTION MEETING SHALL BE HELD AT THE SITE PRIOR TO THE BEGINNING OF WORK AND SHALL BE ATTENDED BY ALL REPRESENTATIVES RESPONSIBLE FOR CONSTRUCTION, INSPECTION, SUPERVISION, TESTING AND ALL OTHER ASPECTS OF THE WORK. THE CONTRACTOR SHALL SCHEDULE THE MEETING BY CALLING THE INSPECTION LINE AT (951) 572-3224 AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING CONSTRUCTION. APPROVED DRAWINGS MUST BE AVAILABLE PRIOR TO SCHEDULING.
13. ALL INSPECTION REQUESTS OTHER THAN FOR THE PRECONSTRUCTION MEETING WILL BE MADE BY CALLING THE BUILDING AND SAFETY INSPECTION REQUEST LINE AT (951) 572-3224. INSPECTION REQUESTS MUST BE RECEIVED PRIOR TO 2:00 P.M. ON THE DAY BEFORE THE INSPECTION IS NEEDED. INSPECTIONS WILL BE MADE THE NEXT WORK DAY UNLESS YOU REQUEST OTHERWISE. REQUESTS MADE AFTER 2:00 P.M. WILL BE SCHEDULED FOR TWO FULL WORK DAYS LATER.
14. THE OWNER AND/OR APPLICANT THROUGH THE DEVELOPER AND/OR CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
15. THE CONTRACTOR SHALL CONFORM TO LABOR CODE SECTION 6705 BY SUBMITTING A DETAILED PLAN TO THE CITY ENGINEER AND/OR CONCERNED AGENCY SHOWING THE DESIGN OF SHORING, BRACING SLOPE OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH OR TRENCHES OR DURING THE PIPE INSTALLATION THEREIN. THIS PLAN MUST BE PREPARED FOR ALL TRENCHES FIVE FEET (5') OR MORE IN DEPTH AND APPROVED BY THE CITY ENGINEER AND/OR CONCERNED AGENCY PRIOR TO EXCAVATION. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS ESTABLISHED BY THE CONSTRUCTION SAFETY ORDERS, TITLE 8 OF THE CALIFORNIA ADMINISTRATIVE CODE, THE PLAN SHALL BE PREPARED BY A REGISTERED ENGINEER AT THE CONTRACTOR'S EXPENSE. A COPY OF THE OSHA EXCAVATION PERMIT MUST BE SUBMITTED TO THE INSPECTOR PRIOR TO EXCAVATION.
16. IF ANY ARCHAEOLOGICAL RESOURCES ARE DISCOVERED WITHIN ANY WORK ZONE DURING CONSTRUCTION, OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE CITY ENGINEER. OPERATIONS WILL NOT RESTART UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE CITY ENGINEER TO DO SO.
17. ALL OPERATIONS CONDUCTED ON THE SITE OR ADJACENT THERETO SHALL ADHERE TO THE NOISE ORDINANCE SET FORTH BY THE CITY MUNICIPAL CODE. ALL OPERATIONS SHALL BE LIMITED BY THE NOISE ORDINANCE TO THE LEVEL OF DECIBELS SPECIFIED FOR THE AREA AND TIME PERIOD. CONSTRUCTION ACTIVITIES WILL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED.
18. ALL OFF-SITE HAUL ROUTES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY ENGINEER FOR APPROVAL TWO FULL WORKING DAYS PRIOR TO BEGINNING OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTE OR ADJACENT STREETS AS A RESULT OF THE GRADING OPERATION.
19. NO BLASTING SHALL BE COMMENCED WITHOUT A CITY ENGINEER APPROVED BLASTING PROGRAM AND BLASTING PERMIT.
20. THE EXISTENCE AND LOCATION OF UTILITY STRUCTURES AND FACILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITY FACILITIES OR STRUCTURES NOT SHOWN OR IN A LOCATION DIFFERENT FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THE PLANS AND ANY OTHER EXISTING FACILITIES OR STRUCTURES NOT SHOWN.
21. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF THE CONSTRUCTION TO PERMIT THE REVISIONS OF THE CONSTRUCTION PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
22. THE CONTRACTOR SHALL NOTIFY AFFECTED UTILITY COMPANIES (SEE BELOW) AT LEAST TWO FULL WORKING DAYS PRIOR TO STARTING CONSTRUCTION NEAR THEIR FACILITIES AND SHALL COORDINATE WORK WITH A COMPANY REPRESENTATIVE.

UNDERGROUND SERVICE ALERT	(800) 422-4133
SOUTHERN CALIFORNIA EDISON	(800) 409-2365
AT&T	(800) 892-0123
TIME WARNER CABLE	(760) 340-2225
COX COMMUNICATIONS	(888) 423-391.3

23. IN ACCORDANCE WITH THE CITY STORM WATER STANDARDS ALL STORM DRAIN INLETS CONSTRUCTED BY THIS PLAN SHALL INCLUDE "STENCILS" BE ADDED TO PROHIBIT WASTE DISCHARGE DOWNSTREAM. STENCILS SHALL BE ADDED TO THE SATISFACTION OF THE CITY ENGINEER.

SEWER NOTES

1. SEWER SYSTEM CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH EASTERN MUNICIPAL WATER DISTRICT (EMWD'S) STANDARDS AND SPECIFICATIONS.
2. GRAVITY SEWER PROFILE ELEVATIONS ARE TO FLOW LINE (CONDUIT INVERT). FORCE MAIN PROFILE ELEVATIONS ARE TO CENTIGRADE (CG).
3. CONTRACTOR HAS THE OPTION TO INSTALL PLASTIC OR VCP SEWERS EXCEPT WHERE SPECIFICALLY DESIGNATED ON PLANS PER EMWD STANDARDS AND SPECIFICATIONS.
4. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS SB-53, SB-58, AND SB-61, AS APPLICABLE. SEWER MAINS MAY BE LAID THROUGH THE MANHOLES AND USED AS A FORM FOR THE INVERT.
5. MANHOLES OF DEPTHS LESS THAN FIVE FEET FROM FINISH STREET GRADE TO SEWER PIPE SHELF ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING SB-30.
6. ALL LATERALS SHALL HAVE AN ON-SITE CLEANOUT IN ACCORDANCE WITH STANDARD DRAWING SB-52. IN ADDITION, FOR LATERALS SERVING INDUSTRIAL AND/OR COMMERCIAL DEVELOPMENTS, THE REQUIREMENTS FOR SAMPLING AND/OR PRETREATMENT FACILITIES SHALL BE DETERMINED BY CONTRACTING THE BUILDING AND SAFETY DEPARTMENT.
7. MAINLINE CLEANOUTS, WHERE CALLED FOR ON THE PLANS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING SB-52.
8. PRIOR TO CONSTRUCTION OF SEWER, CONTRACTOR SHALL EXPOSE EXISTING SEWER AND VERIFY ITS EXISTING ELEVATION AND LOCATION. WHEN CONNECTING TO EXISTING MANHOLES AND INLET STUB OF PROPER SIZE EXISTS, NO ALTERATIONS SHALL BE MADE TO EXISTING MANHOLE BASE OR STUB EXCEPT AS SPECIFICALLY AUTHORIZED BY THE CITY INSPECTOR.
9. ALL SEWER INLETS AT THE MANHOLE SHALL BE SUCH THAT ITS CROWN SHALL BE LEVEL WITH THE CROWN OF THE OUTLET PIPE, AT THEIR PROJECTIONS TO THE MANHOLE CENTERLINE.
10. RECONSTRUCTION OF EXISTING MANHOLES SHALL BE SCHEDULED AT THE CONVENIENCE OF THE CITY AND SHALL BE COMPLETED WITHIN FIVE WORKING DAYS FOLLOWING ITS COMMENCEMENT.
11. SEWER LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SB-177. LOCATIONS OF WYES AND LATERALS, WHERE NOT SHOWN ON THE PLANS, ARE TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION TO MISS DRIVEWAYS. ALL LATERALS ARE TO BE 4" IN DIAMETER UNLESS OTHERWISE SHOWN ON PLANS. CONNECTIONS OF NEW LATERALS TO EXISTING SEWER ARE TO BE PER STANDARD DRAWING SB-176.
12. THE CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN A CONFINED AIR SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR "CONFINED AIR SPACE" ARTICLE 108, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE.
13. WHERE GROUNDWATER IS ENCOUNTERED, ALL VCP PIPE SHALL BE TREATED FOR ABSORPTION RESISTANCE PER EMWD'S SPECIFICATIONS.
14. BACKWATER VALVES SHALL BE INSTALLED PER SECTION 710.1 OF THE UNIFORM PLUMBING CODE.
15. ALL PIPE ZONE BEDDING AND TRENCH BACKFILL ARE TO BE PER STANDARD DRAWING SB-157, SB-158, AND SB-159.

PRIVATE ENGINEERS NOTICE TO CONTRACTOR(S)

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO, THESE LINES OR STRUCTURES
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
3. QUANTITIES SHOWN HEREON ARE PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING FOR CONSTRUCTION.
4. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER CITY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

NOTE

1. APPROVAL OF THESE PLANS APPLIES ONLY WITHIN THE JURISDICTION OF THE CITY OF BEAUMONT.
2. TRENCHING FOR UTILITIES AND STRUCTURES IS NOT ALLOWED UNTIL SOIL COMPACTION REPORT IS SUBMITTED AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
3. THE CITY RESERVES THE RIGHT TO REQUIRE REVISION OF THE APPROVED PLANS TO CONFORM WITH CURRENT STANDARDS AND TO POST A NEW BOND IF CONSTRUCTION HAS NOT COMMENCED WITHIN TWO YEARS AFTER PLANS WERE APPROVED.
4. SIDEWALK AND DRIVEWAY APPROACHES WILL BE POURED/CONSTRUCTED ONLY AFTER DRIVEWAY LOCATIONS ARE DETERMINED.

Sheet List Table

"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 CITY OF BEAUMONT DOES NOT RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

FIRM: KIMLEY-HORN & ASSOCIATES

ADDRESS: 401 B STREET

CITY, ST.: SAN DIEGO, CA 92101

TELEPHONE: (619)234-9411

BY: SAM. L MCWHORTER, R.C.E. 61788 *DATE:* 8/30/21
(NAME OF ENGINEER & RCE)

ALL STANDARD DRAWINGS ARE COUNTY OF RIVERSIDE ROAD IMPROVEMENT STANDARDS & SPECIFICATIONS UNLESS NOTED OTHERWISE:
* RCFC&WCD STANDARD MANUAL
** EMWD SEWER STANDARD DRAWINGS
*** STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

LEGAL DESCRIPTION:

THAT PORTION OF PARCEL 1 OF PARCEL MAP NO. 36426, IN THE CITY OF BEAUMONT, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 242, PAGES 24 THROUGH 29, INCLUSIVE, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID PARCEL 1;

THENCE WESTERLY ALONG THE NORTHERLY LINE OF SAID PARCEL 1, SOUTH 87° 44' 33" WEST 182.70 FEET TO A LINE PARALLEL WITH AND DISTANT WESTERLY 182.62 FEET MEASURED AT RIGHT ANGLES FROM THE EASTERLY LINE OF SAID PARCEL 1;

THENCE SOUTHERLY ALONG SAID PARALLEL LINE, SOUTH 00° 37' 01" EAST 65.03 FEET TO A LINE PARALLEL WITH AND DISTANT SOUTHERLY 65.00 FEET MEASURED AT RIGHT ANGLES FROM SAID NORTHERLY LINE;

THENCE EASTERLY ALONG LAST MENTIONED PARALLEL LINE, NORTH 87° 44' 33" EAST 182.70 FEET TO SAID EASTERLY LINE;

THENCE NORTHERLY ALONG SAID EASTERLY LINE, NORTH 00° 37' 01" WEST 65.03 FEET TO THE POINT OF BEGINNING.

ASSESSOR'S PARCEL NO. 36426

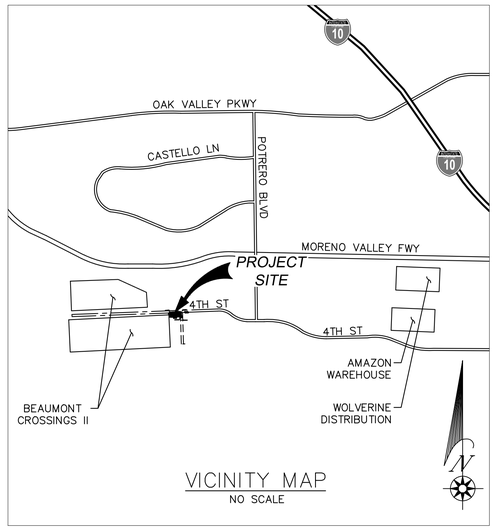
BEING A SUBDIVISION OF A PORTION OF THE NORTH HALF OF SECTION 7 AND THE SOUTHWEST CORNER OF SECTION 6, BOTH OF TOWNSHIP 3 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, AS RECORDED MARCH 16, 2017, AS DOCUMENTED NO. 2017-0108002, OF OFFICIAL RECORDS OF SAID COUNTY.

SITE ADDRESS:

36523 HWY 60
CITY OF BEAUMONT, CA 92223

OWNER/APPLICANT:

MCDONALD PROPERTY GROUP
1140 N. COAST HIGHWAY
LAGUNA BEACH, CA 92651
PHONE: (949) 999-2800
FAX: (949) 999-2839



VICINITY MAP
NO SCALE

WORK TO BE DONE

THE IMPROVEMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS, CURRENT AT THE TIME OF CONSTRUCTION, AS DIRECTED BY THE CITY ENGINEER.

1. BEAUMONT MUNICIPAL CODE.
2. FOR STREETS: RIVERSIDE COUNTY ORDINANCE NO. 461.
   FLOOD CONTROL FACILITIES: THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT'S STANDARDS FOR FLOOD CONTROL FACILITIES.
   SANITARY SEWER FACILITIES: THE EASTERN MUNICIPAL WATER DISTRICT'S STANDARDS FOR SANITARY SEWER FACILITIES.
   ALL OTHER PUBLIC WORKS: THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK).
3. THIS SET OF PLANS.
4. RESOLUTION NO _____(NA)_____, DATED _____
5. SOILS REPORT AND RECOMMENDATIONS BY KLING CONSULTING GROUP, DATED OCTOBER 1, 2019.

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

Sam McWhorter
SAM L. MCWHORTER
R.C.E. 61788 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — SAM L. MCWHORTER — No. 61788 — CIVIL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT — CALIFORNIA — INC. NOV. 18, 1912

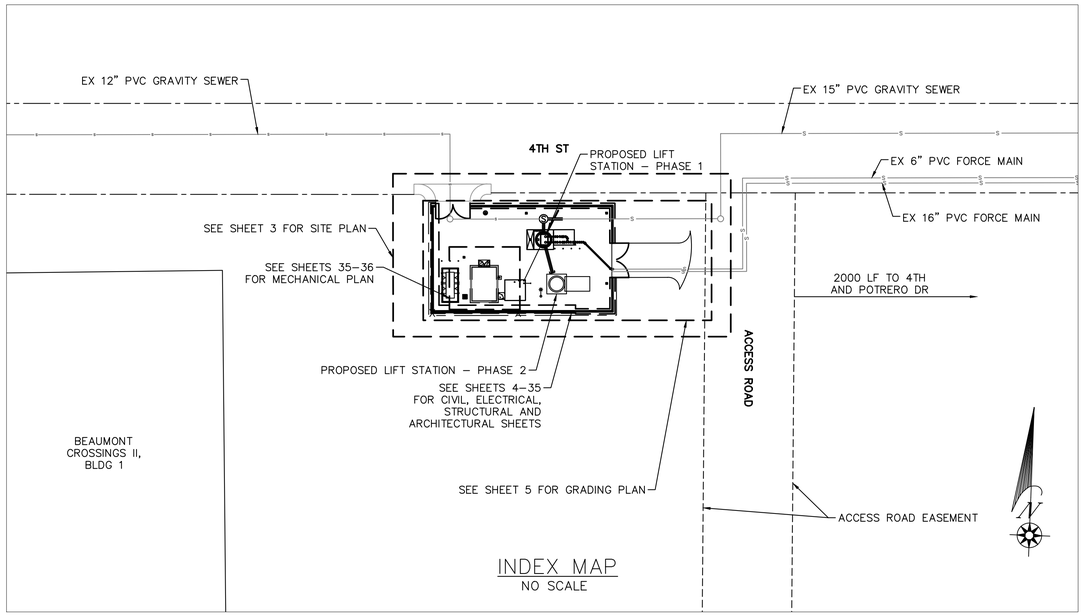
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
TITLE SHEET

SHEET 1 OF 38 SHEETS
FILE NO: 3387

Plotted By:Vuelliher, Sam Sheet Set:BEAUMONT LIFT STATION Layout: TITLE SHEET October 20, 2021 10:48:19am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xCV.dwg



INDEX MAP
NO SCALE

LEGEND

DESCRIPTION	DWG. NO.	SYMBOL	QUANTITY
RIGHT–OF–WAY, R/W			
EASEMENT			
DAYLIGHT LINE			
PROP SEWER			
EXISTING SEWER			
PROP STORM DRAIN			
EXISTING STORM DRAIN			
PROP WATER			
EXISTING WATER			
GAS		GAS GAS GAS	
SEWER MANHOLE		S	
PROP CONTOUR		53.0	
EXISTING CONTOUR		53.0	
PROPOSED WALL			
EXISTING WALL			
CURB & GUTTER			
CENTERLINE, CL			
CONCRETE			
AC PAVING			
ACCESS ROAD			
SITE LIGHT			
WATER METER		W	
BACKFLOW PREVENTION DEVICE		BW	
ELECTRICAL ANTENNA			
REMOVE EXISTING		X X X X X X X X X	

ABBREVIATIONS

AB	AGGREGATE BASE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AC	ASPHALTIC CONCRETE
BLDG	BUILDING
CF	CUBIC FEET
CMU	CONCRETE MASONRY UNIT
COMM	COMMUNICATIONS
CONC	CONCRETE
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
DIA, D	DIAMETER
DR	DRIVE
DWG	DRAWING
DWY	DRIVEWAY
EG	EXISTING GRADE
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATION
EMWD	EASTERN MUNICIPAL WATER DISTRICT
EX	EXISTING
FG	FINISHED GRADE
FLG	FLANGE
FM	FORCE MAIN
GAL	GALLONS
GPM	GALLONS PER MINUTE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HRS	HOURS
HWL	HIGH WATER LEVEL
ID	INNER DIAMETER
IE	INVERT ELEVATION
IPS	IRON PIPE SIZE
LF	LINEAR FEET
LOL	LAYOUT LINE
LT	LEFT
LWL	LOW WATER LEVEL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PC	POINT OF CURVATURE
PE	PLAIN END
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R/W	RIGHT–OF–WAY
RCFC&WCD	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RCP	REINFORCED CONCRETE PIPE
RPM	REVOLUTIONS PER MINUTE
RTU	REMOTE TELEMETRY UNIT
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SS	STAINLESS STEEL
ST	STREET
STL	STEEL
STD	STANDARD
SWR	SEWER
TDH	TOTAL DYNAMIC HEAD
TF	TOP OF FOOTING
TP	TOP OF PIPE
TW	TOP OF WALL
TYP	TYPICAL
V	VOLT
VOL	VOLUME
VERT	VERTICAL

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07), ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234–9411
WWW.KIMLEY–HORN.COM

SAM L. MCWHORTER R.C.E. 61788 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — SAM L. MCWHORTER — No. 61788 — CIVIL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

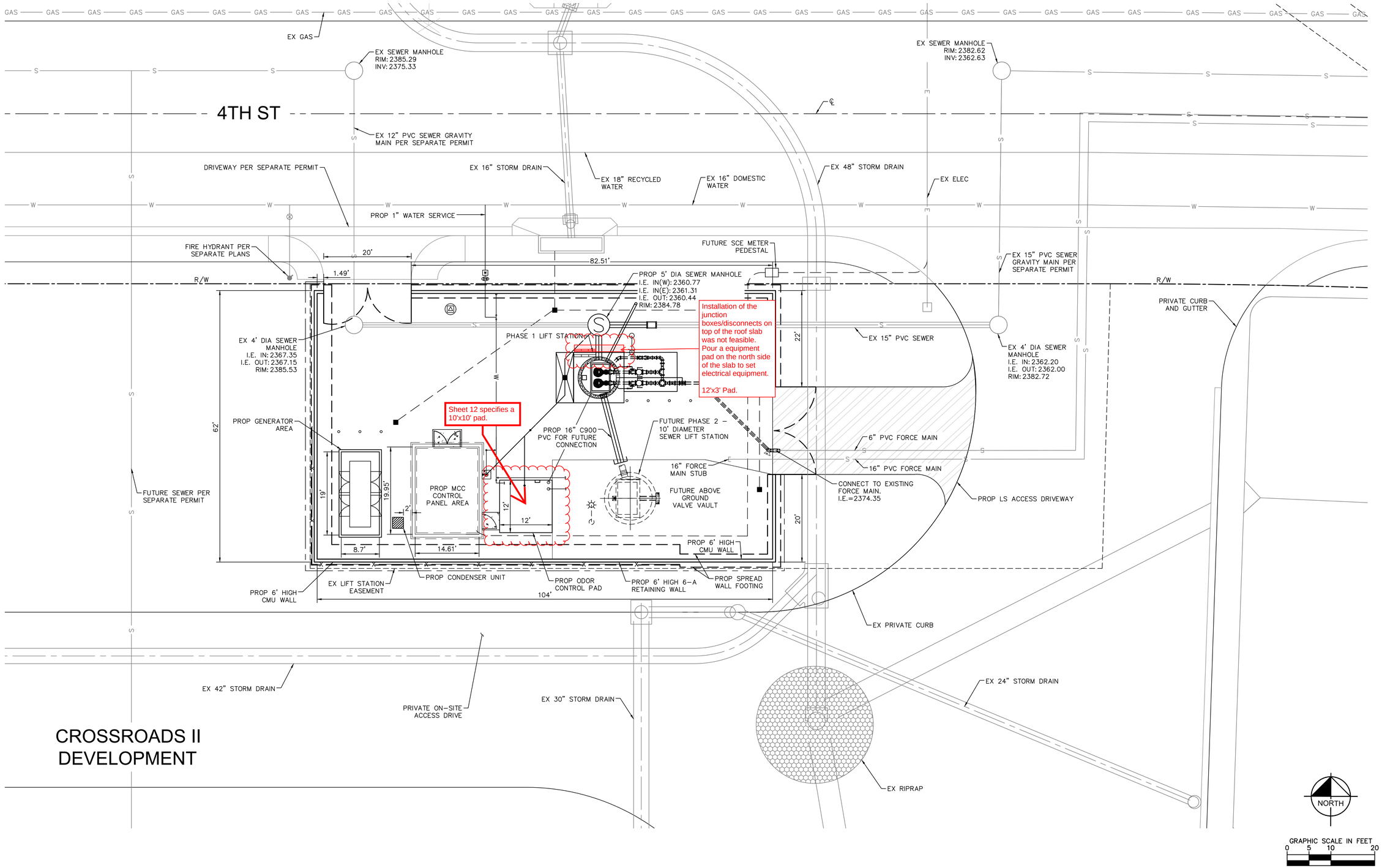
CITY of BEAUMONT — CALIFORNIA INC. NOV. 16 1912

Reviewed By: _____ Staff Engineer — Date: _____
Recommended for Approval By: _____ Administrative Engineer — Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works — Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769–8520 FAX: (951) 769–8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
INDEX MAP

SHEET 2 OF 38 SHEETS
FILE NO: 3387



DIGALERT
Call 2 Working Days Before You Dig!
811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER
R.C.E. 61788
8/23/2021

SEAL
REGISTERED PROFESSIONAL ENGINEER
SAM L. MCWHORTER
No. 61788
CIVIL
STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT
CALIFORNIA
INC. NOV. 18, 1912

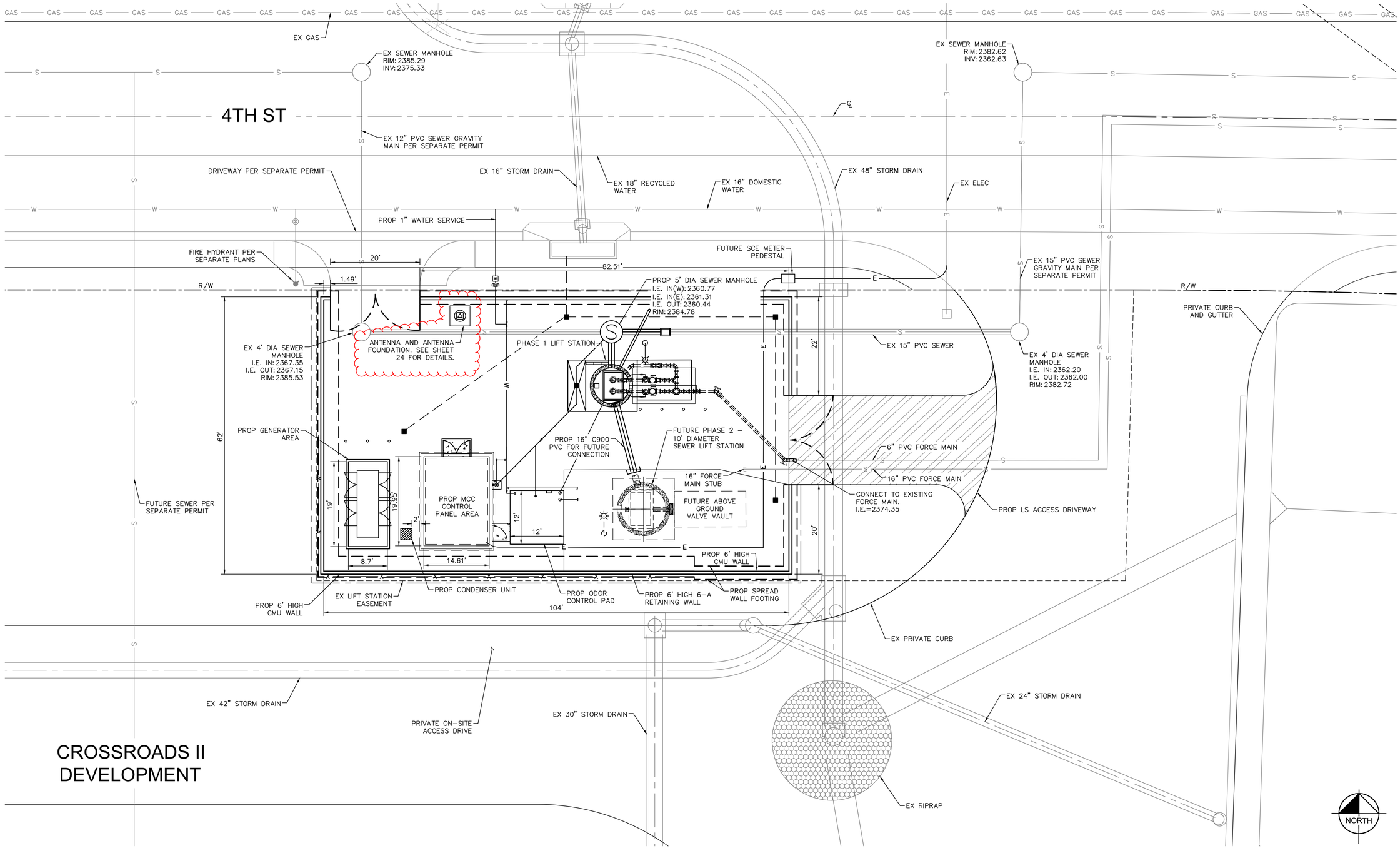
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
OVERALL SITE PLAN

SHEET 3 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuellner, Sam - Sheet Set:BEAUMONT LIFT STATION Layout: Layout1 October 20, 2021 10:54:57am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xSP-OVERALL.dwg



NOTES:
1. CONTRACTOR SHALL FOLLOW GOVERNMENT CODE 4216 PRIOR TO ANY EXCAVATION.

DIGALERT
Call 2 Working Days Before You Dig
811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAMUEL MCWHORTER R.C.E. 67788 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — SAM L. MCWHORTER — No. 61788 — CIVIL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT — CALIFORNIA — INC. NOV. 15, 1912

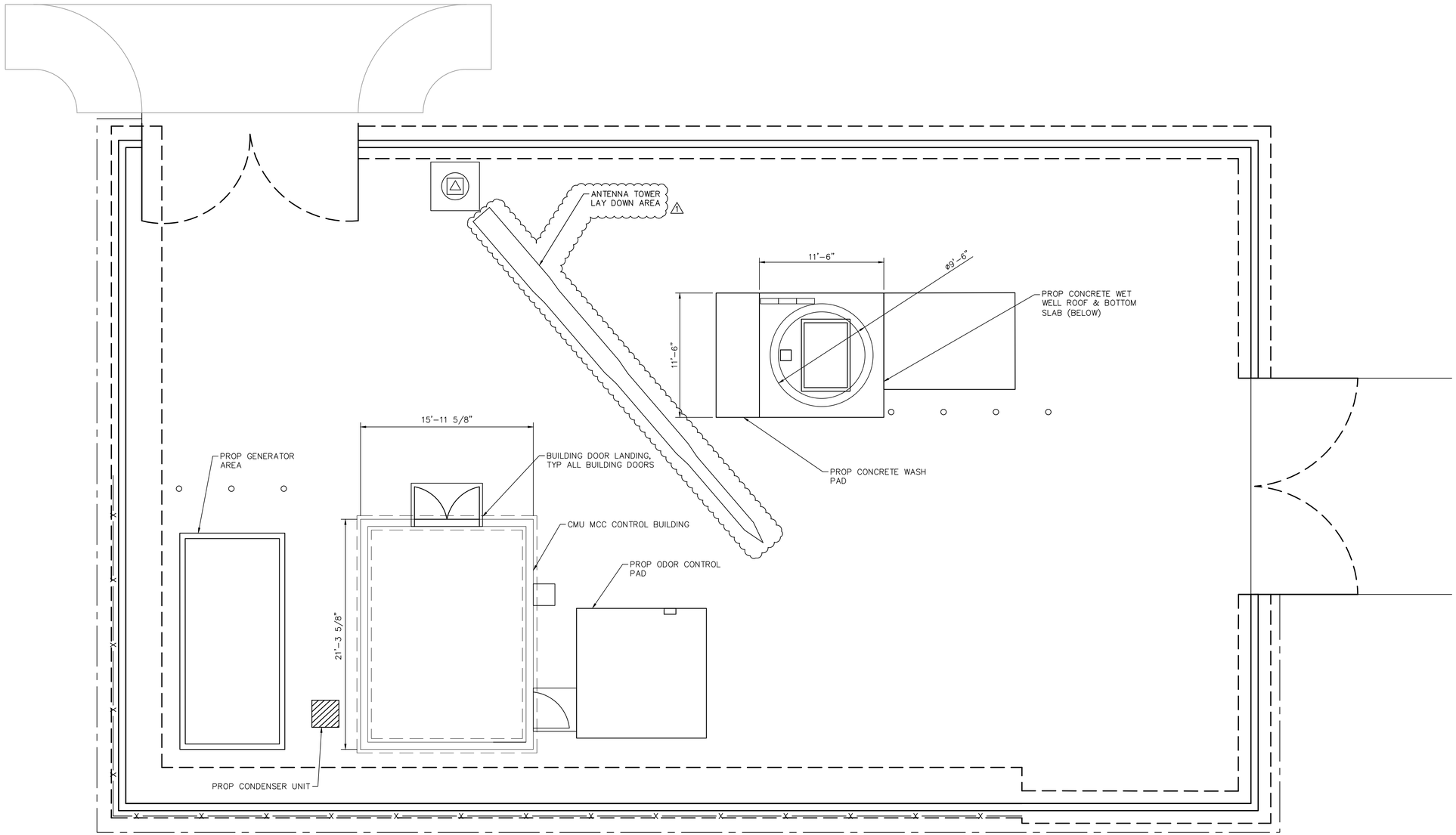
Reviewed By: _____ Staff Engineer — Date: _____
Recommended for Approval By: _____ Administrative Engineer — Date: _____
Approved By: _____ City Engineer/Director of Public Works — Date: _____

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
OVERALL SITE PLAN

SHEET 3 OF 38 SHEETS
FILE NO: 3387

Plotted By: Fisher, Jessica Sheet Set: BEAUMONT LIFT STATION Layout: Layout1 August 10, 2022 10:09:49am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020\195284001 - xSP-OVERALL.dwg



1/24 STRUCTURAL SITE PLAN

SCALE: 1" = 5'-0"

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:

NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311

1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.

ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn

401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JOSEPH NUNNELEY
R.S.E. 6777
08/09/2022

SEAL: REGISTERED PROFESSIONAL ENGINEER · JOSEPH NUNNELEY · S 6777 · STATE OF TEXAS · STRUCTURAL

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY of BEAUMONT CALIFORNIA INC. NOV. 18, 1912

Reviewed By: _____ Staff Engineer Date: _____

Recommended for Approval By: _____ Administrative Engineer Date: _____

Approved By: _____ City Engineer/Director of Public Works Date: _____

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:

BEAUMONT CROSSROADS LIFT STATION

STRUCTURAL SITE PLAN

SHEET 24 OF 38 SHEETS

FILE NO: 3387

Plotted By:Carson, Brandon - Sheet Set:BEAUMONT LIFT STATION - Layout: STRUCTURAL SITE PLAN - August 09, 2022 01:53:50pm - \\Snafp01\ca_and1\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 20201\195284001 - xST.dwg

1.00 DOCUMENTS AND LIMITATIONS

1.01 THESE STRUCTURAL DOCUMENTS, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, ARE INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

1.02 IT IS UNDERSTOOD THAT THE CONSULTANT MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE, EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH THE CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEER PRACTICES.

1.03 ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL TO THE RELATIONSHIP TO THE STRUCTURAL ELEMENTS ONLY. ACCORDINGLY, THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S), PLANS, AND SPECIFICATIONS.

1.04 NOTES ON THIS AND THE FOLLOWING SHEETS ARE PART OF THE PROJECT REQUIREMENTS BUT ARE NOT INTENDED TO REPLACE THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICTS BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS AND THESE NOTES, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

2.00 CONSTRUCTION SAFETY

2.01 IT IS UNDERSTOOD THAT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PERSONS AND PROTECT THEM AGAINST INJURY. LIKEWISE, THE CONTRACTOR SHALL PROTECT ALL PROPERTY AGAINST DAMAGE OR LOSS.

2.02 THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OF PROPERTY.

2.03 THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS THE WORK IS SATISFACTORILY COMPLETED, AND THE ENGINEER OF RECORD HAS ISSUED A NOTICE TO THAT EFFECT TO THE OWNER AND THE CONTRACTOR.

3.00 REINFORCED CONCRETE (CAST-IN-PLACE)

3.01 DETAILING OF REBAR SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI DETAILING MANUAL, AND CONCRETE REINFORCING INSTITUTE'S LATEST EDITION OF "MANUAL OF STANDARD PRACTICE". ALL SHOP DRAWINGS PERTAINING TO REBAR DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW.

3.02 CONCRETE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS:

DRILLED PIERS 3,000 PSI

3.03 REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. IF REINFORCEMENT WELDING IS REQUIRED, ASTM A706, GRADE 60 SHALL BE REQUIRED UNLESS MILL TEST REPORTS VERIFY THAT THE ASTM A615 STEEL PROVIDED IS AN ACCEPTABLE A706 EQUIVALENT. WELDED WIRE FABRIC OR WIRE MESH SHALL BE ASTM A185.

3.04 TOLERANCES FOR REINFORCEMENT FABRICATION, REINFORCEMENT PLACEMENT AND CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF ACI 117 “SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS.”

3.05 BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES AS SHOWN ON THE STRUCTURAL DRAWINGS.

3.06 CLEAR DISTANCE FROM FACE OF CONCRETE TO MAIN STEEL SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. WHERE CLEAR DISTANCE IS NOT SHOWN, ACI 301 SHALL CONTROL.

3.07 ALL REINFORCEMENT SHOWN IS INTENDED TO BE CONTINUOUS UNLESS NOTED OTHERWISE. REFER TO REINFORCEMENT STEEL CHART FOR TENSION LAP SPLICES.

3.08 PROVIDE 3/4 INCH CHAMFERS AT ALL EXPOSED EDGES UNO.

3.09 CORE DRILLING SHALL NOT BE ALLOWED THROUGH IN-PLACE CONCRETE ELEMENTS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. PENETRATIONS THROUGH CONCRETE ELEMENTS SHALL BE ILLUSTRATED ON SHOP DRAWINGS AND SHALL UTILIZE SCHEDULE 40 STEEL PIPE. CLEARANCE REQUIRED WITHIN PIPE SLEEVE SHALL BE CONFIRMED BY SUBCONTRACTOR RESPONSIBLE FOR THE MATERIAL PASSING THROUGH THE SLEEVE. REINFORCEMENT CLEAR COVER SHALL BE MAINTAINED AROUND THE SLEEVE PENETRATION.

3.10 EMBEDDED ITEMS THAT WILL SUPPORT STRUCTURAL STEEL CONSTRUCTION SHALL BE PLACED WITHIN THE TOLERANCES PRESCRIBED IN THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE". GENERAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EMBEDDED ITEMS PRIOR TO FABRICATION AND DELIVERY OF STRUCTURAL STEEL TO THE PROJECT SITE.

4.00 ALUMINUM

4.01 ALUMINUM CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM CONSTRUCTION MANUAL OF THE ALUMINUM ASSOCIATION.

4.02 UNLESS OTHERWISE INDICATED, STRUCTURAL ALUMINUM SHALL BE ALLOY 6061-T6 AS SPECIFIED IN ASTM B308.

4.03 CONTACT SURFACES SHALL BE COATED WITH HEAVY ALKALI-RESISTANT BITUMINOUS PAINT.

1

5.00 STRUCTURAL STEEL

5.01 DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC 360-16 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS".

5.02 ALL STRUCTURAL STEEL SHOWN ON PLANS SHALL CONFORM TO ASTM A36 WITH THE EXCEPTION OF STRUCTURAL TUBING WHICH SHALL CONFORM TO ASTM A500 GRADE C (50 KSI). STEEL AND HARDWARE SHALL BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE.

5.03 ALL WELDS SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO REQUIREMENTS OF AWS D1.2.

5.04 ALL EMBED PLATES SHALL BE OVER-SIZED TO ACCOUNT FOR PRECST AND STRUCTURAL STEEL FABRICATION AND ERECTION TOLERANCES. EMBEDS SHALL EXTEND A MINIMUM OF 3" BEYOND THE CONNECTION ELEMENT ON ALL SIDES, UNLESS EXPLICITLY DETAILED OTHERWISE.

6.00 DESIGN LOADS

6.01 2019 CALIFORNIA BUILDING CODE

6.02 BUILDING CATEGORY = II

6.03 ANTENNA TOWER LOADING:

A. DEAD: SELF WEIGHT OF MEMBERS

B. LIVE: N/A

C. SNOW: N/A

D. WIND: DESIGN LOAD BASED ON ASCE 7-16 CHAPTER 29 PART 4
- Iw = 1.0
- WIND SPEED = 95 MPH (3 SEC GUST)
- EXPOSURE CATEGORY = C

E. SEISMIC: DESIGN LOAD BASED ON ASCE 7-16 CHAPTER 15
- Ie = 1.00
- SITE CLASS = D (DEFAULT)
- Ss = 1.707 S1 = 0.667
- Sds = 1.366 Sd1 = 0.756
- SEISMIC DESIGN CATEGORY = D
- NON-BUILDING STRUCTURE TYPE: TRUSSED TOWERS
- R = 3.0
- Ω_o = 2.0
- C_d = 2.5
- BASE SHEAR:
- Cs = 0.455 V = 0.054 KIPS
- ANALYSIS METHOD = EQUIVALENT LATERAL FORCE PROCEDURE

F. SOIL: ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF
- LATERAL BEARING PRESSURE = 100 PSF/FT
- COEFFICIENT OF SOIL FRICTION = 0.25

1

SCHEDULE OF SPECIAL INSPECTION SERVICES

	ITEM	QUALIFICATIONS	SCOPE
STRUCTURAL STEEL	1. WELDING	AWS-CWI ASNT	• CONTINUOUS INSPECTION WELDING IN ACCORDANCE WITH CBC TABLE 1704.3 • COLLECT CERTIFICATION OF COMPLIANCE FOR WELD FILLER MATERIAL • COLLECT CERTIFICATION OF WELDERS • IDENTIFY USE OF APPROVED FILLED MATERIAL AND IN ACCORDANCE WITH AWS • D1.1, AWS D1.3, OR AWS D1.4, AS REQUIRED BY NCSBC TABLE 1704.3
CAST-IN-PLACE CONCRETE	1. MIX DESIGN / MATERIAL CERTIFICATION	ACI-CCI ICC-RCSI / SER	• PERIODIC INSPECTION, VERIFY USE OF REQUIRED DESIGN MIX
	2. REINFORCEMENT INSTALLATION	SER / ACI-CCI ICC-RCSI	• PERIODIC INSPECTION, PRIOR TO EACH POUR, OF REINFORCING STEEL AND WELDED WIRE FABRIC • COLLECTION AND REVIEW OF CERTIFIED MILL TEST REPORTS
	3. CONCRETE PLACEMENT/ MONITORING FRESH CONCRETE, SAMPLING & PREP OF TEST SAMPLES	ACI-CCI ICC-RCSI ACI-CFTT ACI-STT	• CONTINUOUS INSPECTION OF CAST-IN-PLACE CONCRETE PLACEMENT • CONTINUOUS MONITORING OF SAMPLING OF FRESH CONCRETE, SLUMP TEST, AIR CONTENT TEST, AND CREATION OF STRENGTH TEST SPECIMENS • PERIODIC INSPECTION OF MAINTAINING SPECIFIED CURING TEMPERATURE AND TECHNIQUES • CONTINUOUS INSPECTION OF BOLTS AND EMBEDS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT
	4. EVALUATION OF CONCRETE STRENGTH	PE/ SER	• COLLECT AND REVIEW CONCRETE STRENGTH TEST REPORTS AND NOTIFY SEOR OF FAILING TESTS

90 DEG STD HOOKS

	f'c = 4 KSI	f'c = 5 KSI	f'c = 7 KSI	f'c = 9 KSI
BAR SIZE	(IN)	(IN)	(IN)	(IN)
#3	8	7	6	6
#4	10	9	8	7
#5	12	11	9	8
#6	15	13	11	10
#7	17	15	13	12
#8	19	17	15	13
#9	22	20	17	15
#10	25	22	19	17
#11	27	24	21	18

NOTES:

1. VALUES ASSUME NO EPOXY-COATING IS USED AND NORMAL WEIGHT AGGREGATE CONCRETE.
2. NO REDUCTION FACTORS IN ACI 318, SECTION 12.5.3 ARE APPLIED TO THESE VALUES.
3. THE HOOK DEVELOPMENT LENGTH SHALL NOT BE LESS THAN 8*BAR DIA.
4. 90° STD HOOK SHALL BE BEND PLUS 12*BAR DIA EXTENSION AT FREE END.

1

A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
ALLOW	ALLOWANCE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
BC	BACK OF CURB
BF	BOTH FACES
BLDG	BUILDING
BM	BEAM; BENCHMARK
BOT	BOTTOM
BTWN	BETWEEN
BW	BOTH WAYS
C&G	CURB AND GUTTER
CANTIL	CANTILEVER
CCW	COUNTERCLOCKWISE
CD	CONSTRUCTION DOCUMENTS
CEM	CEMENT
CGS	CENTER OF GRAVITY OF STRAND
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLL	COLUMN LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUE; CONTINUOUS
COORD	COORDINATE
COV	COVER
CTC	CENTER TO CENTER
CTR	CENTER
CTRL JT	CONTROL JOINT
CW	CLOCKWISE
D	DEPTH
D-B	DESIGN-BUILD
DEFL	DEFLECTION
DEG	DEGREE
DEL	DELETE
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DIST	DISTANCE
DL	DEAD LOAD
DR	DRAIN; DRIVE
DSGN	DESIGN
DWG	DRAWING
DWL	DOWEL(S)
E	EAST
EA	EACH
EC	EDGE OF CURB
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	EACH LAYER; ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
ENTR	ENTRANCE
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
ESP	EXPANSION; EXPOSED
EST	ESTIMATE
EW	EACH WAY
EX / EXIST	EXISTING
EXP BT	EXPANSION BOLT
EXP JT	EXPANSION JOINT
EXST GR	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION
FD	FLOOR DRAIN
FDTN	FOUNDATION
FF	FINISH FACE
FF EL	FINISH FLOOR ELEVATION
FIN	FINISH
FIN FLR	FINISH FLOOR
FIN GR	FINISH GRADE
FLR	FLOOR
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOW	FACE OF WALL
FR	FRAME
FRMG	FRAMING
FT	FEET; FOOT
FTF	FACE TO FACE
FTG	FOOTING
FWRK	FORMWORK
G	GIRDER; GROUND
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GROUND LEVEL
GR BM	GRADE BEAM
GR FL	GROUND FLOOR
HDG	HOT-DIP GALVANIZING
HK	HOOK
HORIZ	HORIZONTAL
HS	HEADED STUD
HT	HEIGHT
ID	INSIDE DIAMETER (DIMENSION)
IF	INSIDE FACE
IN	INCH
INFO	INFORMATION
INSTL	INSTALL
INT	INTERIOR
ISO JT	ISOLATION JOINT
JST	JOIST

JT	JOINT
KIP	THOUSAND POUNDS
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
KWY	KEYWAY
L	ANGLE
LBS	POUNDS
LD	LONG DIRECTION
LF	LINEAR FEET (FOOT)
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LN	LANE
LTL	LINTEL
M	MOMENT
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBR	MEMBER
MEAS	MEASURE
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MULT	MULTIPLE
N	NORTH
NA	NOT APPLICABLE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NORM	NORMAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER (DIMENSION)
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OTO	OUT TO OUT
PAR	PARALLEL
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PL	PLATE; PROPERTY LINE
PRCST	PRECAST
PRELIM	PRELIMINARY
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PS CONC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST TENSIONED
PT CONC	POST TENSIONED CONCRETE
QTR	QUARTER
R	RADIUS
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REBAR	REINFORCING STEEL BAR
REF	REFERENCE
REINF	REINFORCEMENT
REP	REPAIR
REPL	REPLACE
REQD	REQUIRED
REV	REVISION
RFI	REQUEST FOR INFORMATION
RFP	REQUEST FOR PROPOSAL
RT/W	RETAINING WALL
S	SOUTH
SCHED	SCHEDULE
SD	SHOP DRAWINGS; SCHEMATIC DESIGN; SHORT DIRECTION
SEC	SECTION
SIM	SIMILAR
SL	SNOW LOAD
SOG	SLAB-ON-GRADE
SP EL	SPOT ELEVATION
SPA	SPACES
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
STL JST	STEEL JOIST
STOR	STORAGE
STRUCT	STRUCTURAL
T&B	TOP AND BOTTOM
TB	THROUGH BOLT
TE	TOP ELEVATION
TEMP	TEMPERATURE; TEMPORARY
TFF	TOP OF FINISH FLOOR
THK	THICKNESS
THRU	THROUGH
TO	TOP OF ___
TO FDN	TOP OF FOUNDATION
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE (CURB)
TOC FTG	TOP OF CONCRETE FOOTING
TOC WALL	TOP OF CONCRETE WALL
TOF	TOP OF FLOOR (FOOTING)
TOM	TOP OF MASONRY
TOS	TOP OF SLAB
TOW	TOP OF WALL
TYP	TYPICAL
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
V	SHEAR
VAR	VARIES
VEH	VEHICLE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WF	WIDE FLANGE
WL	WIND LOAD
WP	WATERPROOFING
WWF	WELDED WIRE FABRIC

Kimley»Horn

2022©

4637 CHABOT DR
SUITE 300
PLEASANTON, CA 94588
PHONE: 925.398.4840

SEALS

BEAUMONT LIFT STATION

OWNER/APPLICANT:
MCDONALD PROPERTY GROUP
1140 N. COAST HIGHWAY
LAGUNA BEACH, CA 92651

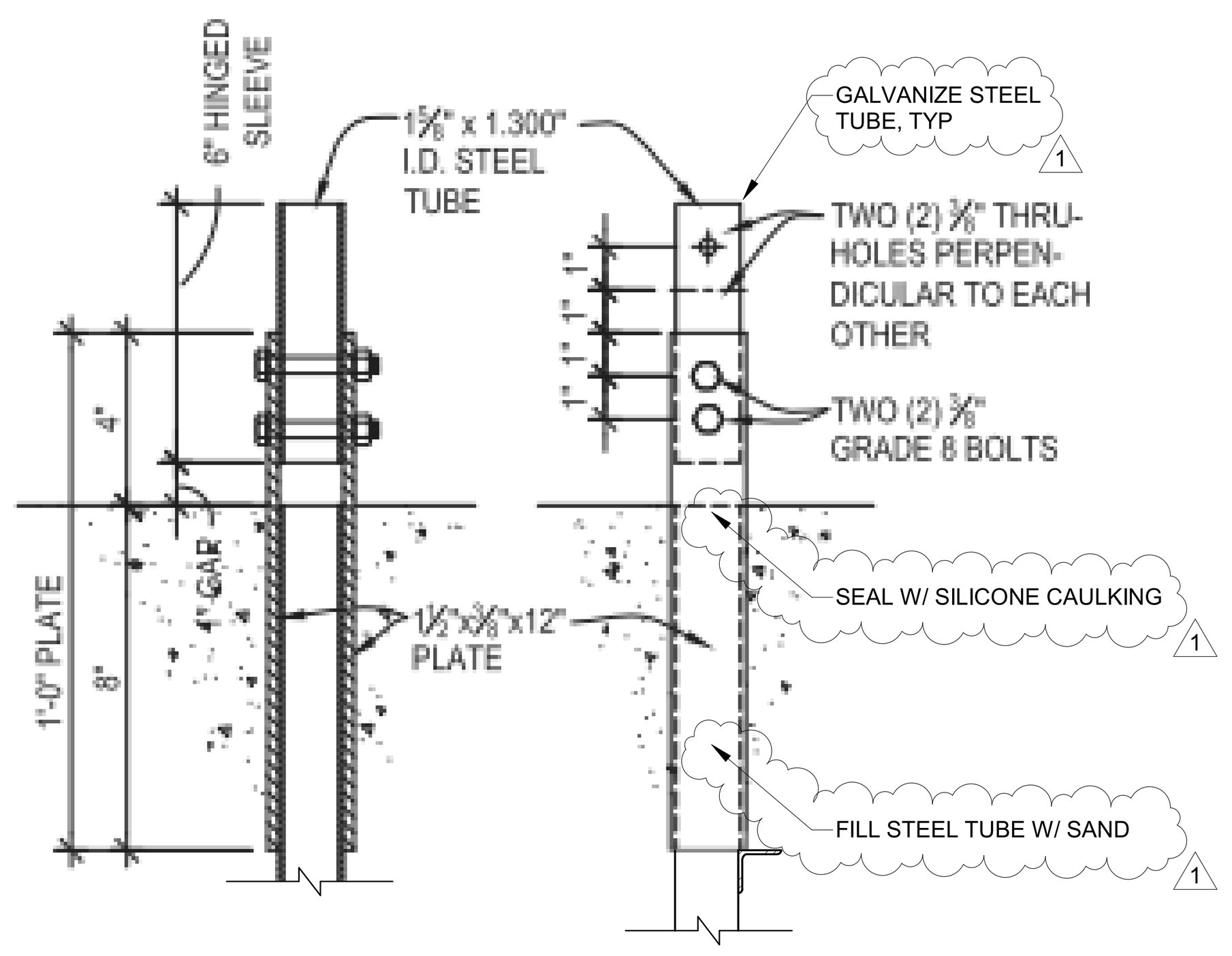
NO:	DATE	DRAWING ISSUE DESCRIPTION
1	08/09/22	PLAN CHECK COMMENTS
0	07/07/22	ISSUED FOR PERMIT

DESIGNED BY: BC
DRAWN BY: BC
CHECKED BY: BC
SCALE: None
DATE: 07/07/2022
PROJECT NO: 123456
FILENAME:

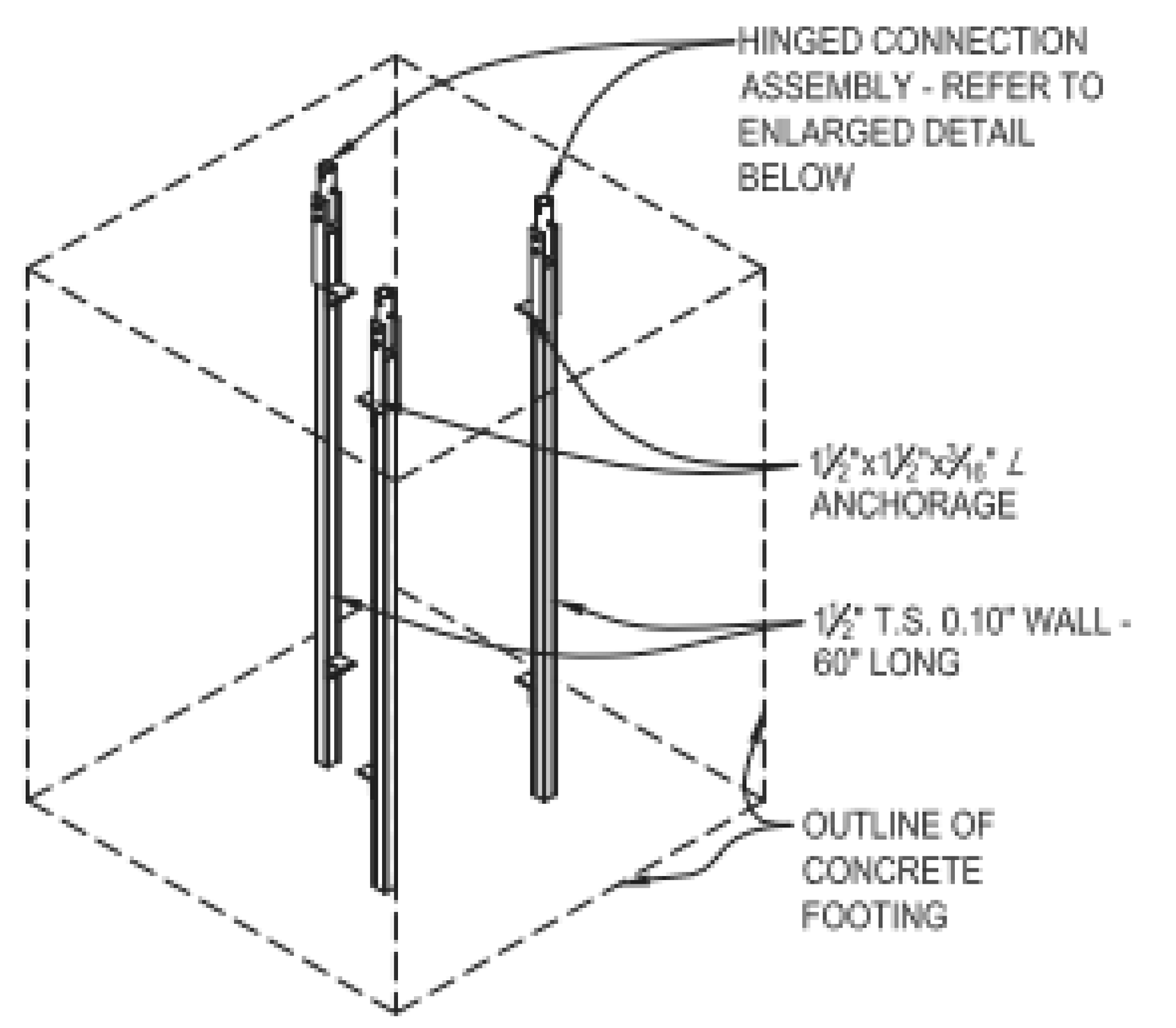
STRUCTURAL GENERAL NOTES

Project Status

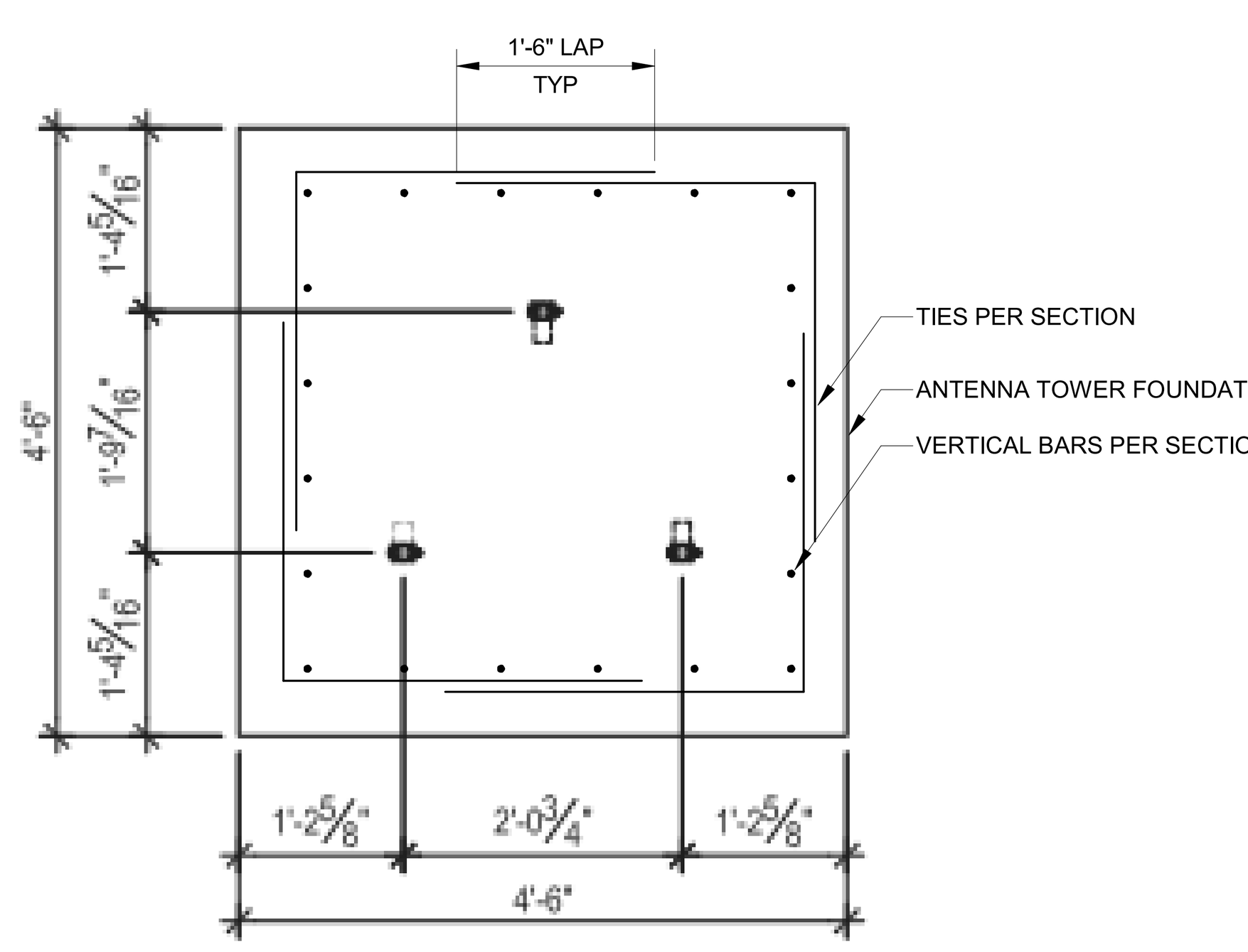
S001



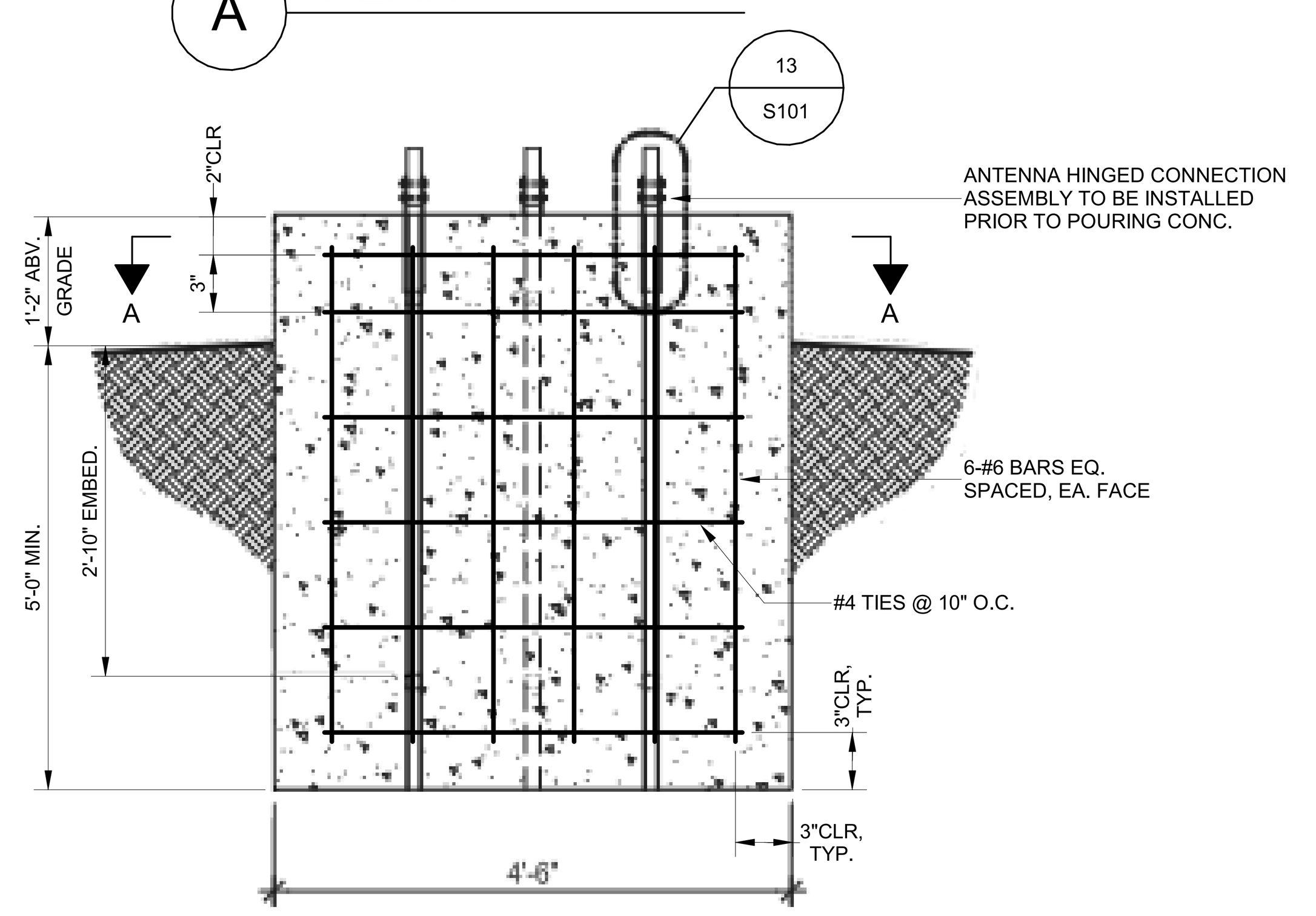
13 S101 BASE CONNNECTION DETAIL
SCALE: NTS



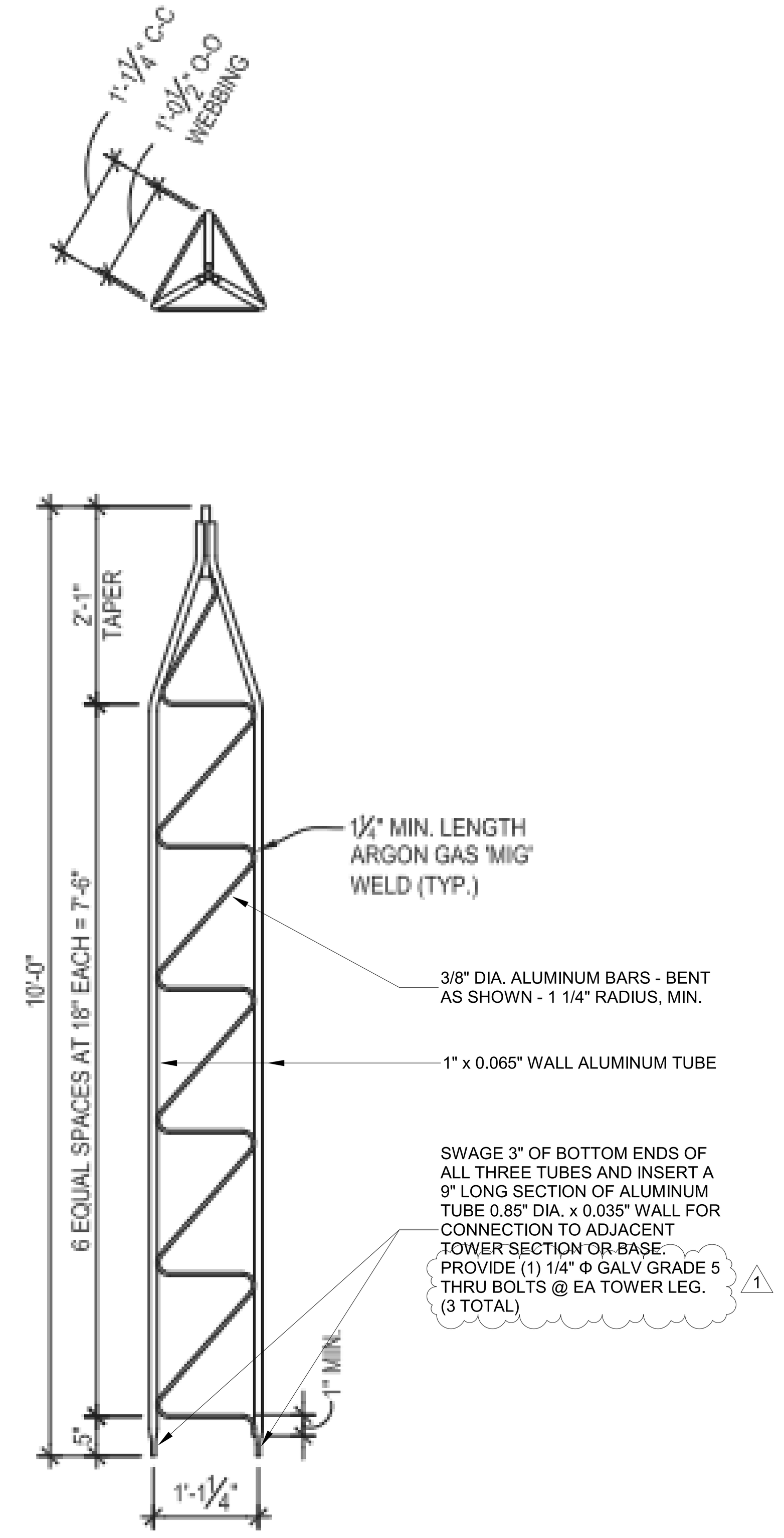
B ISOMETRIC



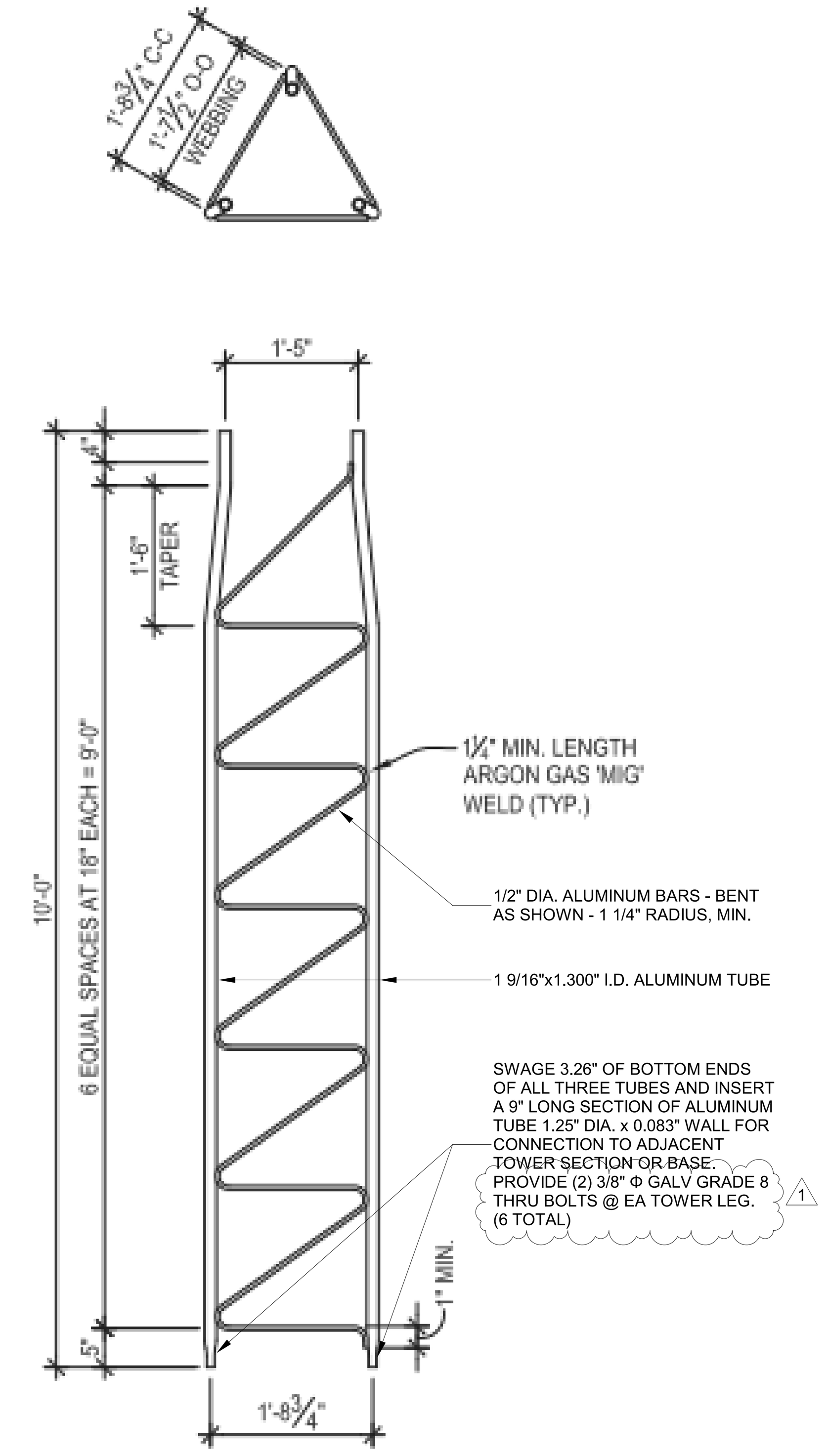
A PLAN



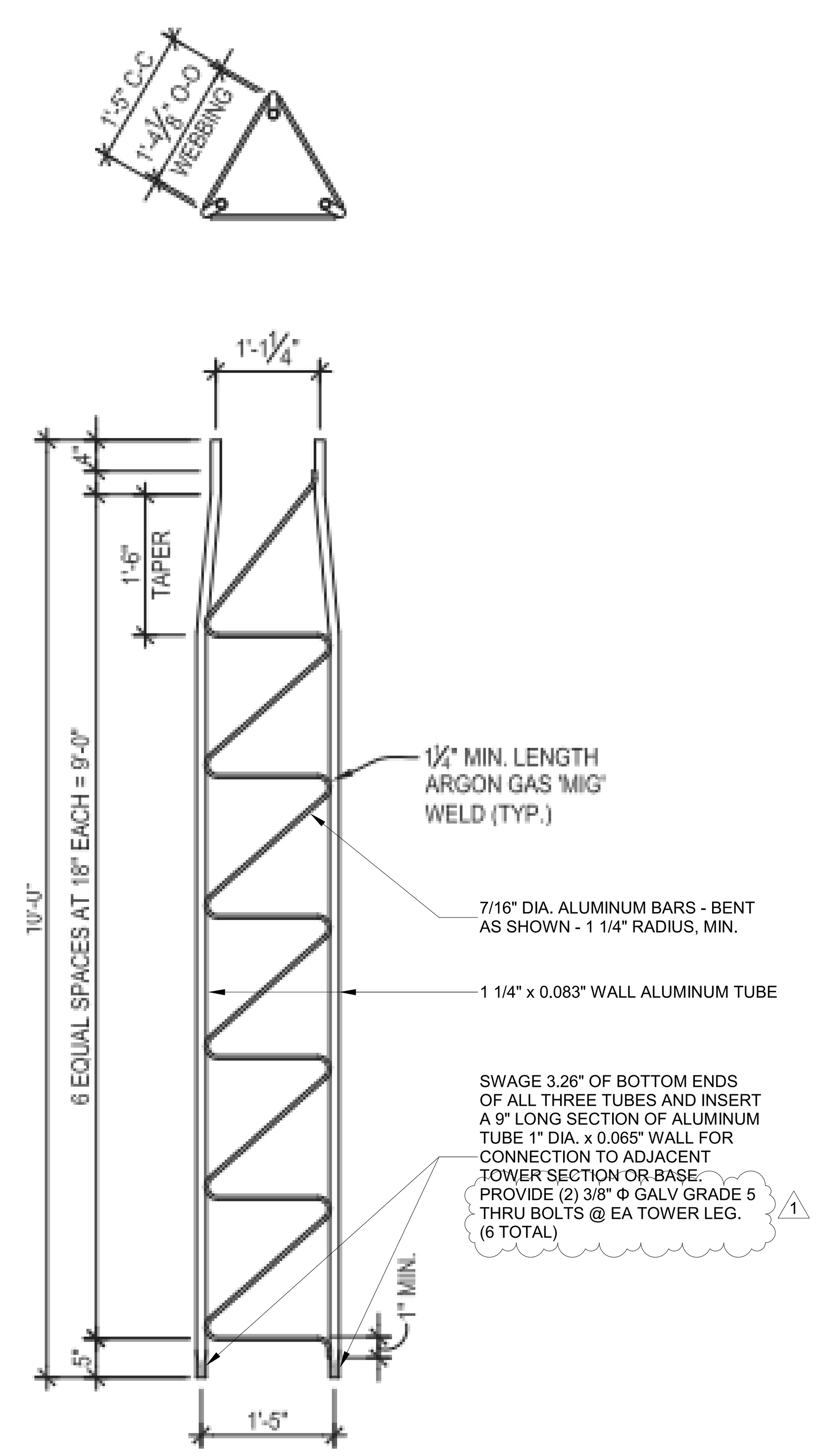
1 S101 FOUNDATION DETAIL
SCALE: NTS



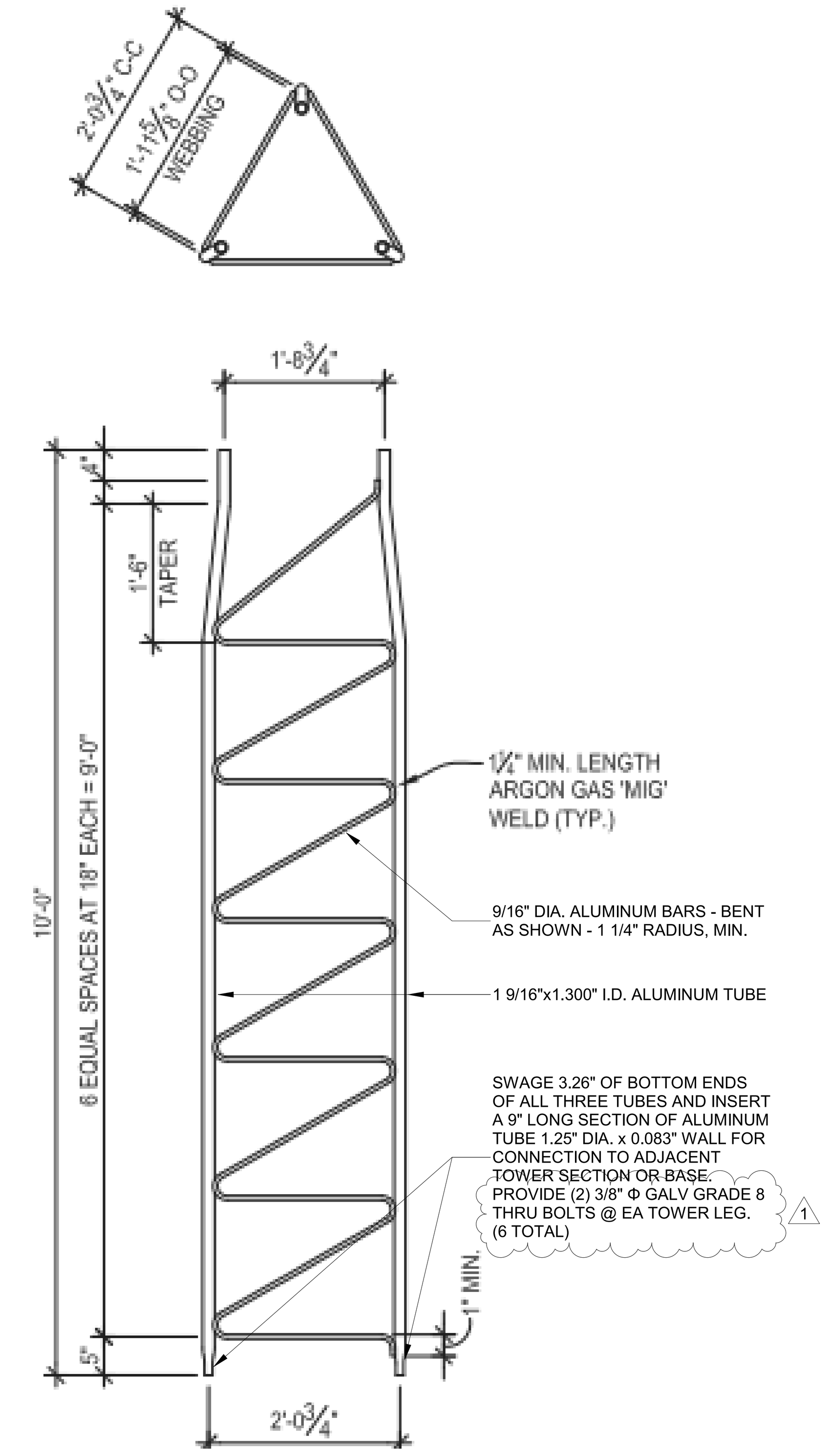
10 S101 ENLARGED TOWER SECTION - LEVEL 4
SCALE: NTS



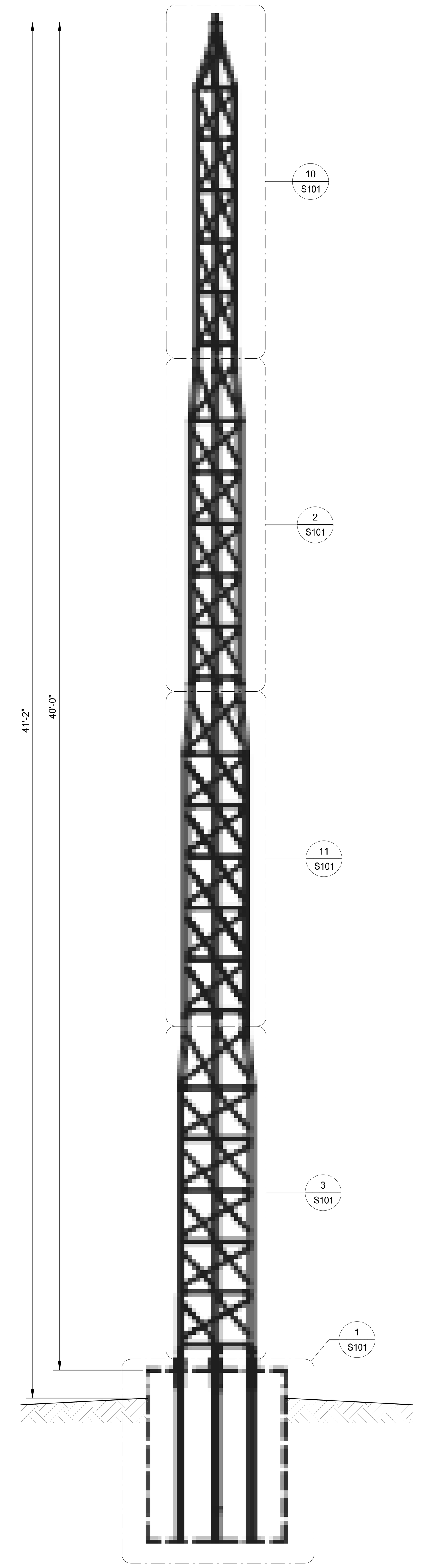
11 S101 ENLARGED TOWER SECTION - LEVEL 2
SCALE: NTS



2 S101 ENLARGED TOWER SECTION - LEVEL 3
SCALE: NTS



3 S101 ENLARGED TOWER SECTION - LEVEL 1
SCALE: NTS



4 S101 TOWER SECTION
SCALE: NTS

Kimley»Horn
2022©
4637 CHABOT DR
SUITE 300
PLEASANTON, CA 94588
PHONE: 925.398.4840

This document is an instrument of service prepared solely for Kimley-Horn's client and for a particular purpose. Any other use or reliance is without liability to Kimley-Horn.

SEALS

REGISTERED PROFESSIONAL ENGINEER JOSEPH NUNNELEY S 6777 STRUCTURAL STATE OF CALIFORNIA

BEAUMONT LIFT STATION

OWNER/APPLICANT:
MCDONALD PROPERTY GROUP
1140 N. COAST HIGHWAY
LAGUNA BEACH, CA 92651

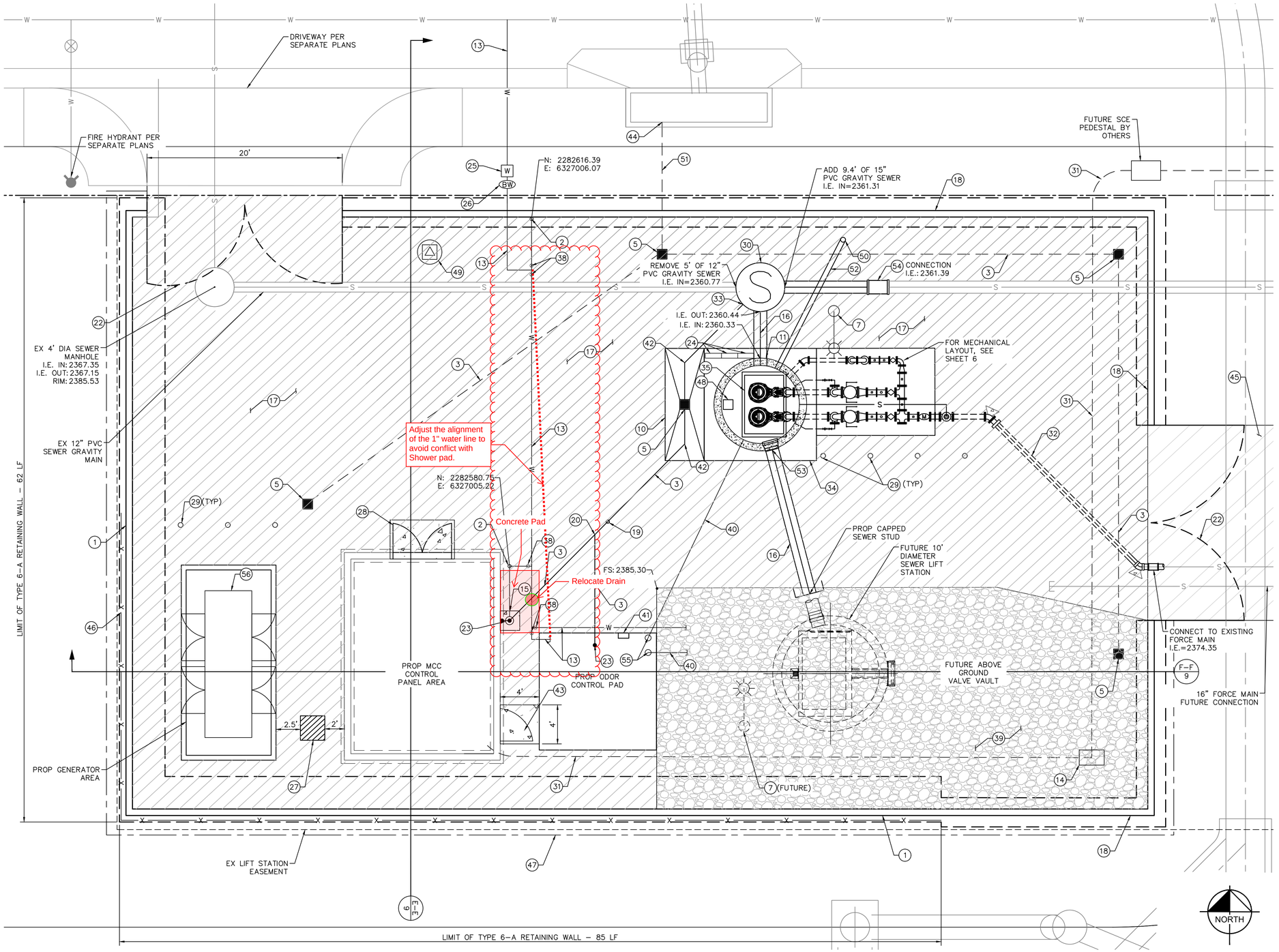
NO:	DATE	DRAWING ISSUE DESCRIPTION
1	08/09/22	PLAN CHECK COMMENTS
0	07/07/22	ISSUED FOR PERMIT

DESIGNED BY: BC
DRAWN BY: BC
CHECKED BY: BC
SCALE: NTS
DATE: 07/07/2022
PROJECT NO: 123456
FILENAME:

STRUCTURAL SECTIONS, PLANS, AND DETAILS

Project Status

S101



CONSTRUCTION NOTES

1. CONSTRUCT 6' HIGH TYPE-6A RETAINING WALL PER CALTRANS STD B3-7A.
2. INSTALL 1" HOSE BIB WITH ANTISIPHON DEVICE ATTACHED. SEE DETAIL E, SHEET 12.
3. INSTALL 4" PVC STORM DRAIN WITH TRENCHING AND BACKFILL PER EMWD SB-157 AND SB-158.
5. INSTALL 12" X 12" GRATE PRE-CAST CONCRETE AREA DRAIN-TRAFFIC RATED BROOKS BOX. DEPTH PER PLAN.
7. INSTALL SITE LIGHT. SEE DETAIL 5 SHEET 18.
10. CONSTRUCT 9' X 4' CONCRETE WASH PAD. SEE DETAIL D, SHEET 13.
11. INSTALL 8' DIAMETER SEWER LIFT STATION. SEE SHEETS 33 AND 34 FOR STRUCTURAL DETAILS.
13. INSTALL 1" PVC WATER SERVICE WITH TRENCHING AND BACKFILL PER EMWD SB-157 AND SB-158. CONNECTION PER EMWD B-590A.
14. INSTALL ELEC PULL BOX. FOR ELECTRICAL PLANS, SEE SHEETS 14-21.
15. INSTALL COMBINATION EMERGENCY EYEWASH AND SHOWER STATION. SEE DETAIL A, SHEET 11.
16. INSTALL 16" DR-14 C900 PVC PIPE WITH TRENCHING AND BEDDING PER EMWD SB-157 AND SB-158.
17. INSTALL 4" AC OVER 6" CRUSHED AB.
18. CONSTRUCT 6' HIGH SPREAD FOOTINGS CMU WALL PER CALTRANS STD B15-1
19. INSTALL 4" SCH-80 PVC CLEANOUT PER EMWD STD SB-52
20. INSTALL 4" SCH-80 PVC WYE
22. INSTALL 20' WIDE, 6' TALL STEEL SWING GATE PER APWA STD DWG 600-4.
23. INSTALL 4" DIA ROUND GRATE DRAIN
24. INSTALL JUNCTION BOX
25. INSTALL WATER METER PER EMWD STD B-342
26. INSTALL BACKFLOW PREVENTION DEVICE PER EMWD STD B-597A
27. INSTALL CONDENSER UNIT
28. INSTALL 6' WIDE BY 7.33' HIGH STEEL DOUBLE SWING DOOR. SEE ARCHITECTURAL PLANS PER SHEETS 37 AND 38 FOR DOOR SCHEDULE.
29. INSTALL BOLLARD. SEE DETAIL C, SHEET 11.
30. INSTALL 5' DIA SEWER MANHOLE RING AND COVER PER EMWD SA-87 AND SB-53. SEE DETAIL D, SHEET 11.
31. INSTALL ELECTRICAL CONDUIT. SEE ELECTRICAL PLANS FOR LAYOUT AND SIZES
32. DEMOLISH AND REPLACE EXISTING FORCE MAIN. SEE SHEET 6.
33. INSTALL 4" ABS DRAIN PIPING FROM PUMP WASH DOWN PAD TO WET WELL WITH P-TRAP
34. INSTALL 11.5' X 11.5' CONCRETE WET WELL ROOF. SEE SHEET 33 FOR DETAILS.
35. 72" X 48" DOUBLE HATCH OPENING WITH TWO PIECE ALUMINUM SAFETY GRATING BENEATH HATCH DOOR LEAFS. RATED FOR 200 LB/SF LIVE LOAD.
38. INSTALL 1" PVC BALL VALVE
39. INSTALL 3/4" ROCK OVER FABRIC LINER-2" DEEP
40. INSTALL 4" SCH 40 PVC SLEEVE FOR FUTURE CHEMICAL FEED LINE PER DETAIL C, SHEET 13.
41. 120V RECEPTABLE FOR FUTURE FURNISHED CHEMICAL FEED PUMP PROVIDED BY THE CITY OF BEAUMONT PER DETAIL C, SHEET 13.
42. INSTALL 4" ABS 45° BEND
43. INSTALL 40" X 80" SWING DOOR
44. BREAK OUT 8" DIAMETER HOLE FOR 6" PVC STORM DRAIN. GROUT ANNULAR SPACE TO SEAL.
45. CONSTRUCT 4.5" AC OVER 10" AB
46. INSTALL FENCE PER APWA STANDARD 600-3
47. CONSTRUCT DRAINAGE DITCH PER SEPARATE PERMIT. SEE ON-SITE GRADING PLANS.
48. 12" SQUARE OPENING IN CONCRETE TOP WITH CAST IRON RING AND BROOKS CB1212 FRAME AND SOLID COVER FOR FLOAT SWITCH AND LEVEL TRANSDUCER
49. ANTENNA PER ELECTRICAL PLANS
50. INSTALL 6" DI VENT. SEE DETAIL D, SHEET 12.
51. INSTALL 6" PVC STORM DRAIN WITH TRENCHING AND BACKFILL PER EMWD SB-157 AND SB-158.
52. 6" DI VENT PIPING. TRENCHING AND BACKFILL PER EMWD SB-157 AND SB-158.
53. TEMPORARY EXPANDABLE POLYURETHANE FOAM TO BE REMOVED AFTER FUTURE II LIFT STATION CONSTRUCTION
54. INSTALL 15" CALDER COUPLING. SEE DETAIL A, SHEET 13.
55. INSTALL CHEMICAL FEED PORT. SEE DETAIL C, SHEET 13.
56. PROPOSED 400KW/500 KVA, 480/277 V, 3PHASE, 4W, NEMA 3R DIESEL GENERATOR WITH 693 GALLON BELLY TANK AND LEVEL 2 ACOUSTIC ENCLOSURE.

NORTH

GRAPHIC SCALE IN FEET
0 2.5 5 10

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER
R.C.E. 61788
8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER SAM L. MCWHORTER No. 61788 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC.NOV.18, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA. 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
LIFT STATION SITE PLAN

SHEET 4 OF 38 SHEETS
FILE NO: 3387

DIGALERT
Call 2 Working Days Before You Dig!
811

BENCHMARK:

NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311

1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM* AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.

ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS		CITY

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER
R.C.E. 61788
8/23/2021

SEAL
REGISTERED PROFESSIONAL ENGINEER SAM L. MCWHORTER No. 61788 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC. NOV. 18, 1912

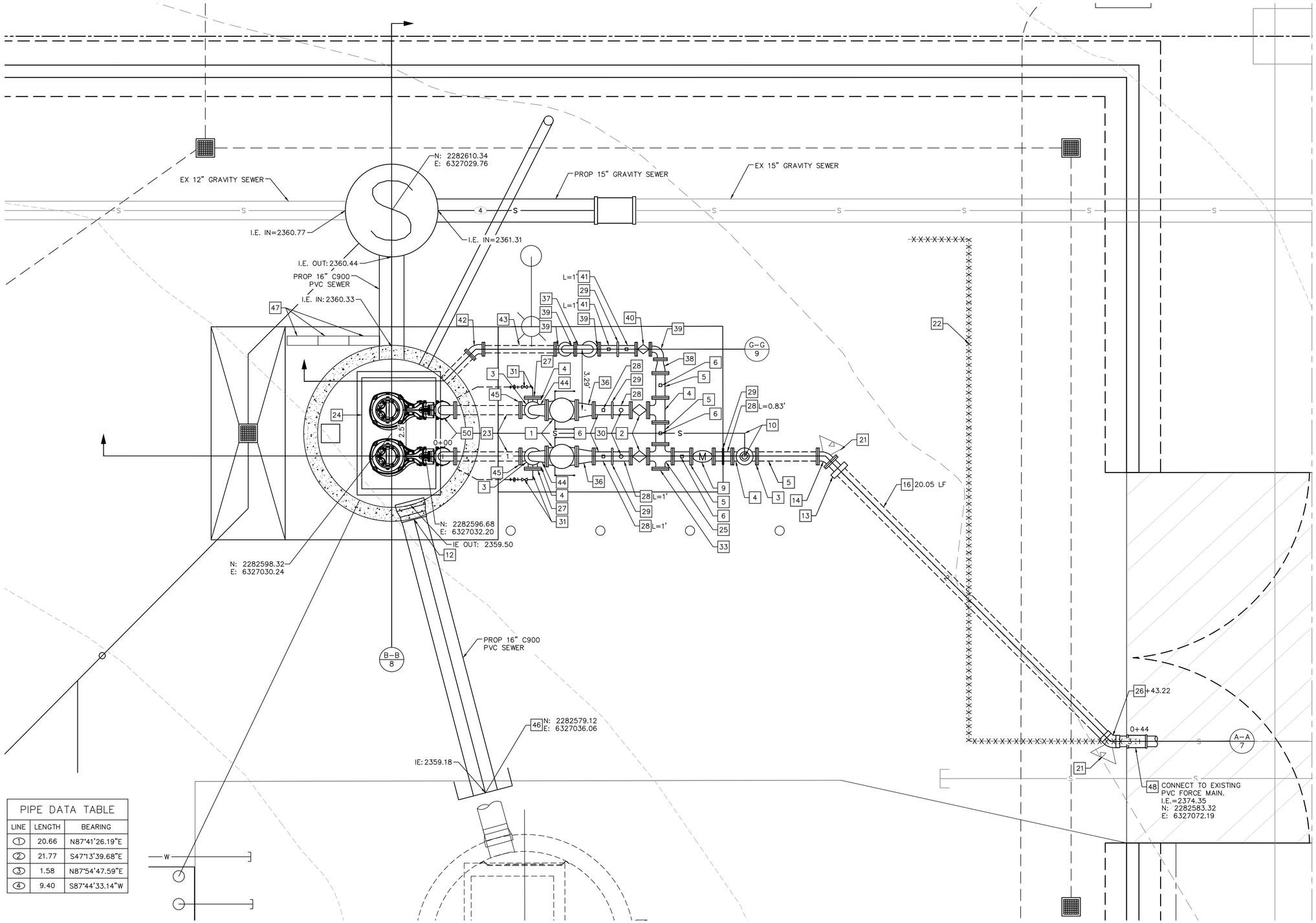
Reviewed By: Staff Engineer Date:
Recommended for Approval By: Administrative Engineer Date: 11/19/2021
Approved By: City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
GRADING PLAN

SHEET 5 OF 38 SHEETS
FILE NO: 3387

Plotted By: Wuellner, Sam Sheet Set: BEAUMONT LIFT STATION Layout: Grading Plan October 20, 2021 10:53:31am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xGR .dwg



PIPE DATA TABLE		
LINE	LENGTH	BEARING
①	20.66	N87°41'26.19"E
②	21.77	S47°13'39.68"E
③	1.58	N87°54'47.59"E
④	9.40	S87°44'33.14"W

MECHANICAL NOTES

1. 8" APCO SWING CHECK VALVE & OIL CONTROLLED BOTTOM MOUNTED BUFFER OR EQUAL
2. 6" PLUG VALVE FLANGED WITH HAND WHEEL ACTUATOR. PRATT OR APPROVED EQUAL.
3. 6" DI 90° BEND
4. 6" DI TEE, FLANGED
5. 6" DI SPOOL, FLANGED
6. PIPE SUPPORT WITH STRAP PER DETAIL A, SHEET 10.
9. 6" ELECTROMAGNETIC FLOW METER, FLANGED. FURNISH SPARE 6" FLANGED SPOOL (LENGTH TO MATCH LENGTH OF FLOW METER) TO BE INSTALLED WHEN METER IS REMOVED FOR SERVICE. CONTRACTOR TO SET PIPE SPOOL IN PLACE TO VERIFY FIT, THEN REPLACE WITH FLOW METER.
10. INSTALL 2" COMBINATION SEWAGE AIR AND VACUUM VALVE WITH 2" ISOLATION GATE VALVE AND 2" AIR DISCHARGE PIPING TO WET WELL.
12. TEMPORARY EXPANDABLE POLYURETHANE FOAM TO BE REMOVED AFTER FUTURE II LIFT STATION CONSTRUCTION
13. 6" DI TO PVC TRANSITION COUPLING. SEE DETAIL C, SHEET 10.
14. 6" DI 45° BEND
16. 6" C900, CLASS 235, DR 18 PVC
21. THRUST BLOCK PER EMWD STANDARD DWG B-407
22. REMOVE EXISTING 6" PVC FORCE MAIN
23. 6" SCH 40, 316 STAINLESS STEEL SPOOL, FLANGED
24. 72" X 48" STAINLESS STEEL DOUBLE LEAF HATCH WITH FALL PROTECTION GRATE
25. 6" DI CROSS, FLANGED
26. 6" PVC 45° BEND
27. 6" BLIND FLANGE. TAPPED FOR 1" FLUSHING LINE.
28. 6" DI SPOOL, FLANGE X GROOVED END
29. VICTAULIC COUPLING
30. PRESSURE GAUGE
31. 1" STAINLESS STEEL BALL VALVE, UNION, AND FITTINGS FOR RAW SEWAGE BACKFLUSH (RSB) TO WET WELL FOR MANUAL BREAK DOWN OF SCUM BLANKET. PIPING SHALL BE 1" SCH 40, 316 STAINLESS STEEL.
33. LIFT STATION TEMPORARY BYPASS CONNECTION. DI CROSS WITH BLIND FLANGE.
36. 8" x 6" DI REDUCER
37. INSTALL 4" APCO SURGE RELIEF ANGLE VALVE PRESSURE RANGE 100-200 PSI. SET TO 120 PSI.
38. 6" x 4" DI REDUCER
39. 4" DI 90° BEND
40. 4" PLUG VALVE FLANGED WITH HAND WHEEL ACTUATOR. PRATT OR APPROVED EQUAL.
41. 4" DI SPOOL, FLANGE X GROOVED END
42. 4" DI 45° BEND
43. 4" DI SPOOL, FLANGED
44. 8" X 6" DI REDUCING 90° BEND
45. DI TO SS INSULATING FLANGE KIT PER DETAIL E, SHEET 11.
46. GROOVE END PLUG
47. JUNCTION BOXES. SEE ELECTRICAL PLANS.
48. 6" PVC COUPLING. SEE DETAIL B, SHEET 13.
50. 6" SCHEDULE 40, 316 STAINLESS STEEL 90° BEND

NORTH

GRAPHIC SCALE IN FEET
0 1.25 2.5 5

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "O 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07), ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER R.C.E. 61788 8/23/2021

SEAL — REGISTERED PROFESSIONAL ENGINEER, SAM L. MCWHORTER, No. 61788, CIVIL, STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC NOV 15, 1912

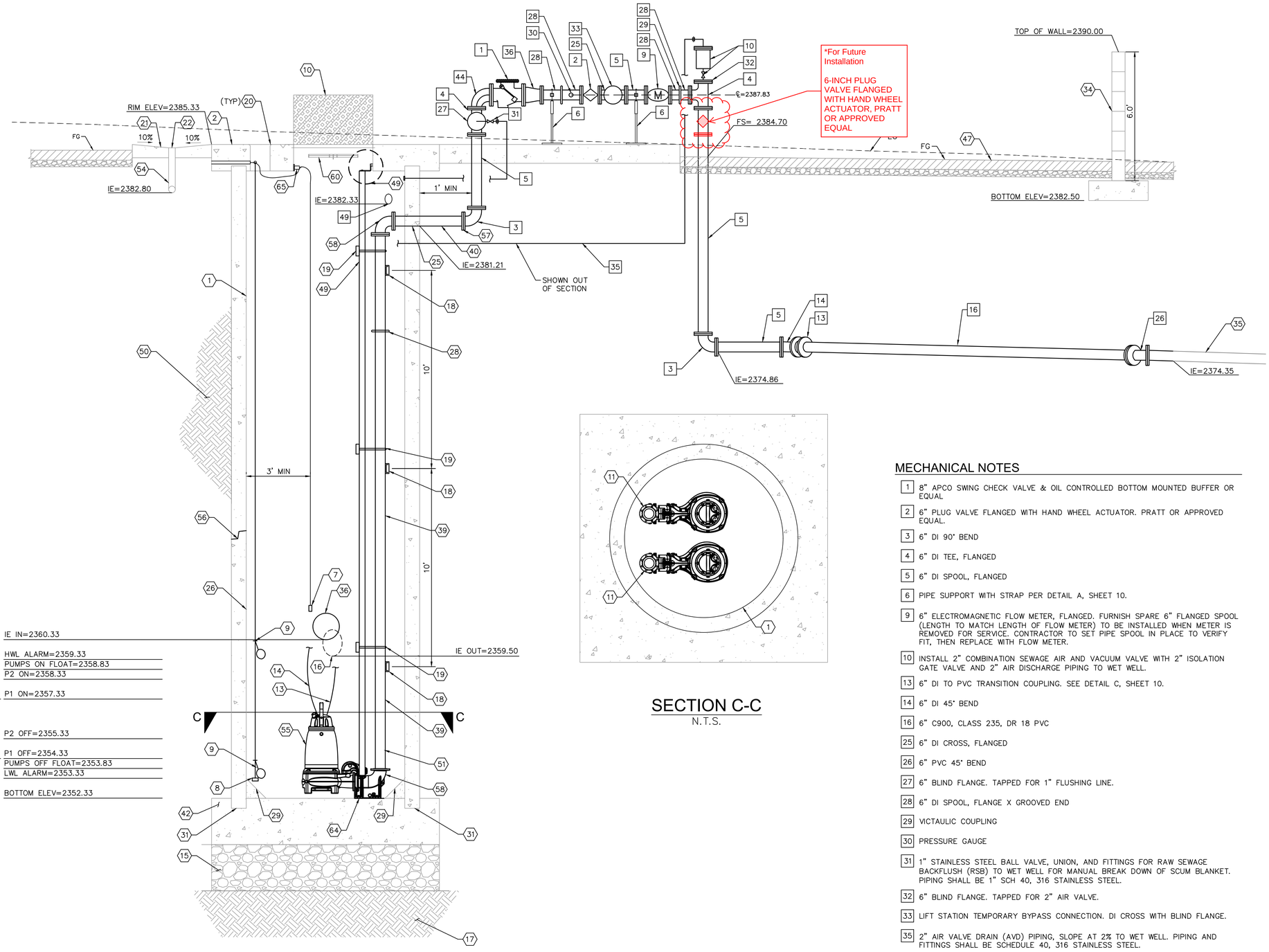
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
MECHANICAL PLAN

SHEET 6 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuether, Sam Sheet Set:BEAUMONT LIFT STATION Layout:MECHANICAL PLAN October 20, 2021 10:53:57am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - xMC.dwg



SECTION A-A

SCALE: 1" = 2.5'

SECTION C-C

N.T.S.

SEWER LIFT STATION NOTES

1. 8' DIAMETER CLASS IV RCP PER ASTM C78 W/ TWO CIRCULAR REINFORCEMENT CAGES AND FLUSH BELL AND SPIGOT JOINTS. BELL AND SPIGOT JOINTS SHALL BE PROVIDED W/ RUBBER GASKETS AND SHALL BE SUITABLE FOR A HYDROSTATIC HEAD OF 50' PER ASTM C361. INTERIOR CONCRETE SURFACES INCLUDING WALL AND ROOF SHALL BE COATED PER SPECIFICATIONS.
2. 11.5' X 11.5' CONCRETE WET WELL TOP SLAB
7. MILLITRONICS ECHOMAX XRS-5 ULTRASONIC LEVEL TRANSDUCER. SET ELEVATION TWO FEET ABOVE GRAVITY SEWER INVERT. INSTALL W/ RIGID CONDUIT AND SUBMERGENCE SHIELD.
8. SS WEIGHT ATTACHED TO SS CABLE ATTACHED TO 12" EMBEDDED HOOK. ATTACH FLOATS AND WEIGHT TO SS CABLE WITH NYLON TIES PER MANUFACTURERS RECOMMENDATIONS.
9. MERCURY FLOAT SWITCH
10. 72" X 48" STAINLESS STEEL DOUBLE LEAF HATCH WITH FALL PROTECTION GRATE
11. DISCHARGE CONNECTION, 6" SCH 40, 316 STAINLESS STEEL
13. SYNTHETIC RUBBER POWER AND CONTROL CABLE TO PUMP, HANG ON SUPPORT WITH STAINLESS STEEL KELLUM GRIPS AND LOOP CABLE OVER SUPPORT
14. LIFTING CABLE – TO FOLLOW THE SPECIFICATIONS FROM FLYGT LIFTING CABLE PART NUMBER 14-58 75 15. MIN LENGTH 50'.
15. MIN 2' CRUSHED AGGREGATE BASE
16. 16" C900 DR-25 PVC-EFFLUENT FOR FUTURE PHASE 2 WET WELL
17. COMPACTED SUBGRADE @ 95% R.C. PER GEOTECHNICAL RECOMMENDATIONS
18. STAINLESS STEEL SUPPORT FOR FORCE MAIN. SEE DETAIL B, SHEET 11. 10' SPACING BETWEEN SUPPORTS.
19. 6" INTERMEDIATE GUIDE RAIL SUPPORT BRACKET PER FLYGT. 10' SPACING BETWEEN BRACKETS.
20. 12" SQUARE OPENING IN CONCRETE TOP WITH CAST IRON RING AND BROOKS CB1212 FRAME AND SOLID COVER FOR FLOAT SWITCH AND LEVEL TRANSDUCER. SEE DETAIL E, SHEET 10.
21. PUMP WASH DOWN PAD. SEE DETAIL D, SHEET 13.
22. 4" DROP INLET WITH GRATE
25. PIPE PENETRATION. SEE DETAIL B, SHEET 10.
26. FIELD APPLY 125 ML OF SANCON 100 ON CONCRETE INTERIOR SURFACE
28. 6" VICTAULIC COUPLING
29. GROUT FILLET – SLOPE VARIES. 1.5' MAX HEIGHT. 1' MIN HEIGHT.
31. SLAB TO RCP. SEE DETAIL D, SHEET 10.
34. SPLIT FACE WALL PER CALTRANS STANDARD DRAWING B15-1, CASE 1
35. EXISTING 6" C900 PVC SEWER FM
36. 16" C900 DR-25 PVC-INFLUENT
39. 6" SCHEDULE 40, 316 STAINLESS STEEL FLANGED END SPOOL, LENGTH AS REQUIRED
40. 6" SCHEDULE 40, 316 STAINLESS STEEL FLANGED END SPOOL, LENGTH AS REQUIRED. SHIP ONE FLANGE LOOSE FOR FIELD WELDING AFTER INSTALLATION IN WET WELL.
42. FOR SLAB DIMENSIONS, SEE SHEETS 33 AND 34
47. 4" AC OVER 6" CRUSHED AB
49. MODIFIED GUIDE RAILS. SEE DETAIL A, SHEET 12.
50. COMPACT BACKFILL TO 90% RELATIVE COMPACTION (MIN.).
51. 6" X 4" SCHEDULE 40, 316 STAINLESS STEEL REDUCER
54. 4" PVC WYE
55. 2 FLYGT NON-CLOG SUBMERSIBLE PUMPS Q=300 GPM AT 280' EACH PUMP, NP 3301 HT 3~460
56. BELL-AND-SPIGOT JOINT (TYP.) PROVIDE MIN. 1' CLEARANCE BETWEEN WET WELL JOINTS AND PIPE PENETRATIONS.
57. INSTALL DI TO SS INSULATING FLANGE KIT PER DETAIL E, SHEET 11.
58. 6" SCHEDULE 40, 316 STAINLESS STEEL 90° BEND
60. TWO PIECE ALUMINUM SAFETY GRATING BENEATH HATCH DOOR LEAFS. RATED FOR 200 LB/SF LIVE LOAD.
64. PUMP STAND PER PUMP VENDOR
65. 4" X 4" X 1/2" SS PLATE WITH 2" X 3" SS CHANNEL, WELDED. PROVIDE SS HOOK FOR TRANSDUCER CABLE.

MECHANICAL NOTES

1. 8" APCO SWING CHECK VALVE & OIL CONTROLLED BOTTOM MOUNTED BUFFER OR EQUAL
2. 6" PLUG VALVE FLANGED WITH HAND WHEEL ACTUATOR. PRATT OR APPROVED EQUAL.
3. 6" DI 90° BEND
4. 6" DI TEE, FLANGED
5. 6" DI SPOOL, FLANGED
6. PIPE SUPPORT WITH STRAP PER DETAIL A, SHEET 10.
9. 6" ELECTROMAGNETIC FLOW METER, FLANGED. FURNISH SPARE 6" FLANGED SPOOL (LENGTH TO MATCH LENGTH OF FLOW METER) TO BE INSTALLED WHEN METER IS REMOVED FOR SERVICE. CONTRACTOR TO SET PIPE SPOOL IN PLACE TO VERIFY FIT, THEN REPLACE WITH FLOW METER.
10. INSTALL 2" COMBINATION SEWAGE AIR AND VACUUM VALVE WITH 2" ISOLATION GATE VALVE AND 2" AIR DISCHARGE PIPING TO WET WELL.
13. 6" DI TO PVC TRANSITION COUPLING. SEE DETAIL C, SHEET 10.
14. 6" DI 45° BEND
16. 6" C900, CLASS 235, DR 18 PVC
25. 6" DI CROSS, FLANGED
26. 6" PVC 45° BEND
27. 6" BLIND FLANGE. TAPPED FOR 1" FLUSHING LINE.
28. 6" DI SPOOL, FLANGE X GROOVED END
29. VICTAULIC COUPLING
30. PRESSURE GAUGE
31. 1" STAINLESS STEEL BALL VALVE, UNION, AND FITTINGS FOR RAW SEWAGE BACKFLUSH (RSB) TO WET WELL FOR MANUAL BREAK DOWN OF SCUM BLANKET. PIPING SHALL BE 1" SCH 40, 316 STAINLESS STEEL.
32. 6" BLIND FLANGE. TAPPED FOR 2" AIR VALVE.
33. LIFT STATION TEMPORARY BYPASS CONNECTION. DI CROSS WITH BLIND FLANGE.
35. 2" AIR VALVE DRAIN (AVD) PIPING, SLOPE AT 2% TO WET WELL. PIPING AND FITTINGS SHALL BE SCHEDULE 40, 316 STAINLESS STEEL.
36. 8" x 6" DI REDUCER
44. 8" X 6" DI REDUCING 90° BEND
49. 6" DI VENT PIPING

NOTES

1. DASHED PIPING AND FITTINGS INDICATE IT IS OUT OF SECTION BUT SHOWN FOR CLARITY.

GRAPHIC SCALE IN FEET
0 2.5 5 10

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "O 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER
R.C.E. 61788
8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER, SAM L. MCWHORTER, No. 61788, CIVIL, STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT, CALIFORNIA, INCORPORATED NOV. 15, 1912

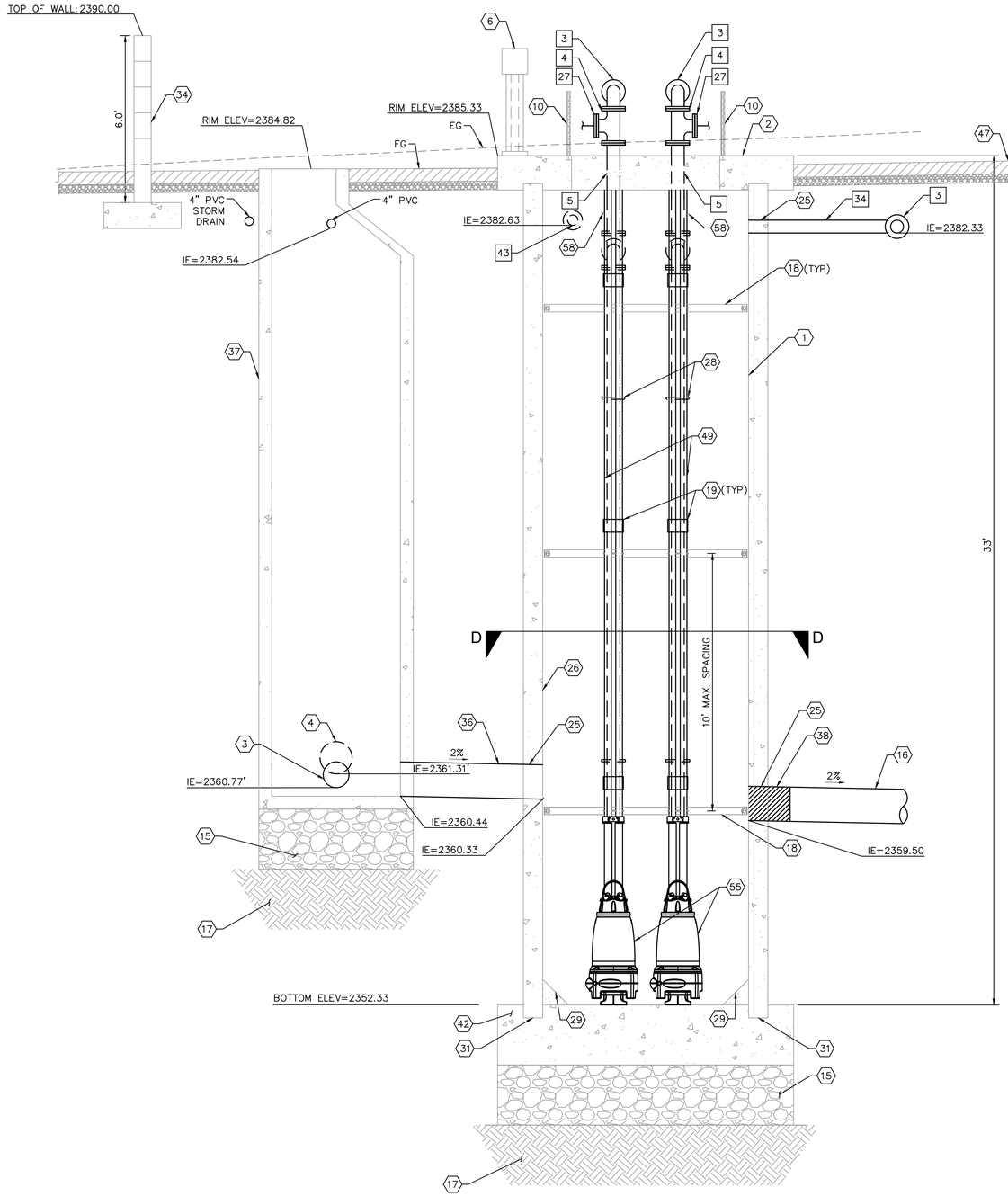
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: _____
Approved By: _____ City Engineer/Director of Public Works Date: _____

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
LIFT STATION SECTION A

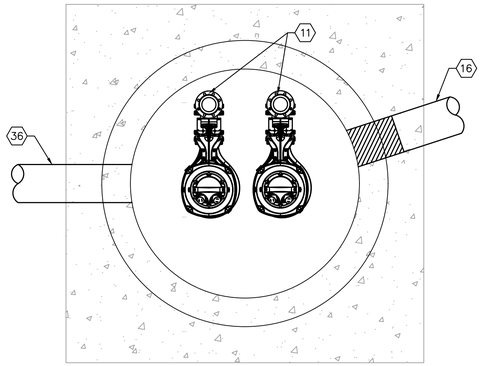
SHEET 7 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout:Section A-A October 20, 2021 10:51:45am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - SECTIONS.dwg



SECTION B-B

SCALE: 1" = 2.5'



SECTION D-D

N.T.S.

SEWER LIFT STATION NOTES

1. 8' DIAMETER CLASS IV RCP PER ASTM C78 W/ TWO CIRCULAR REINFORCEMENT CAGES AND FLUSH BELL AND SPIGOT JOINTS. BELL AND SPIGOT JOINTS SHALL BE PROVIDED W/ RUBBER GASKETS AND SHALL BE SUITABLE FOR A HYDROSTATIC HEAD OF 50' PER ASTM C361. INTERIOR CONCRETE SURFACES INCLUDING WALL AND ROOF SHALL BE COATED PER SPECIFICATIONS.
2. 11.5' X 11.5' CONCRETE WET WELL TOP SLAB
3. 12" SDR-26 PVC INFLUENT
4. 15" SDR-26 PVC INFLUENT
6. ELECTRIC JUNCTION BOX AND STANCHION FOR PUMP POWER/CONTROL CABLES, FLOATS, AND TRANDUCERS.
10. 72" X 48" STAINLESS STEEL DOUBLE LEAF HATCH WITH FALL PROTECTION GRATE
11. DISCHARGE CONNECTION, 6" SCH 40, 316 STAINLESS STEEL
15. MIN 2' CRUSHED AGGREGATE BASE
16. 16" C900 DR-25 PVC-EFFLUENT FOR FUTURE PHASE 2 WET WELL
17. COMPACTED SUBGRADE @ 95% R.C. PER GEOTECHNICAL RECOMMENDATIONS
18. STAINLESS STEEL SUPPORT FOR FORCE MAIN. SEE DETAIL B, SHEET 11. 10' SPACING BETWEEN SUPPORTS.
19. 6" INTERMEDIATE GUIDE RAIL SUPPORT BRACKET PER FLYGT. 10' SPACING BETWEEN BRACKETS.
25. PIPE PENETRATION. SEE DETAIL B, SHEET 10.
26. FIELD APPLY 125 ML OF SANCON 100 ON CONCRETE INTERIOR SURFACE
28. 6" VICTAULIC COUPLING
29. GROUT FILLET – SLOPE VARIES. 1.5' MAX HEIGHT. 1' MIN HEIGHT.
31. SLAB TO RCP. SEE DETAIL D, SHEET 10.
34. SPLIT FACE WALL PER CALTRANS STANDARD DRAWING B15-1, CASE 1
36. 16" C900 DR-25 PVC-INFLUENT
37. 5' DIA SEWER MANHOLE, RING AND COVER PER EMWD SA-87 AND SB-53.
38. TEMPORARY INFLATED NYLON PLUG TO BE REMOVED AFTER FUTURE PHASE II LIFT STATION CONSTRUCTION.
42. FOR SLAB DIMENSIONS, SEE SHEETS 33 AND 34
47. 4" AC OVER 6" CRUSHED AB
49. MODIFIED GUIDE RAILS. SEE DETAIL A, SHEET 12.
55. 2 FLYGT NON-CLOG SUBMERSIBLE PUMPS Q=300 GPM AT 280' EACH PUMP, NP 3301 HT 3~460
58. 6" SCHEDULE 40, 316 STAINLESS STEEL 90° BEND

MECHANICAL NOTES

3. 6" DI 90° BEND
4. 6" DI TEE, FLANGED
5. 6" DI SPOOL, FLANGED
27. 6" BLIND FLANGE. TAPPED FOR 1" FLUSHING LINE.
34. 6" DI VENT PER DETAIL D, SHEET 12.
43. 4" DI SPOOL, FLANGED

NOTES

1. DASHED PIPING AND FITTINGS INDICATE IT IS OUT OF SECTION BUT SHOWN FOR CLARITY.

GRAPHIC SCALE IN FEET
0 2.5 5 10

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

Sam McWhorter
SAM L. MCWHORTER
R.C.E. 61788
8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — SAM L. MCWHORTER — No. 61788 — CIVIL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

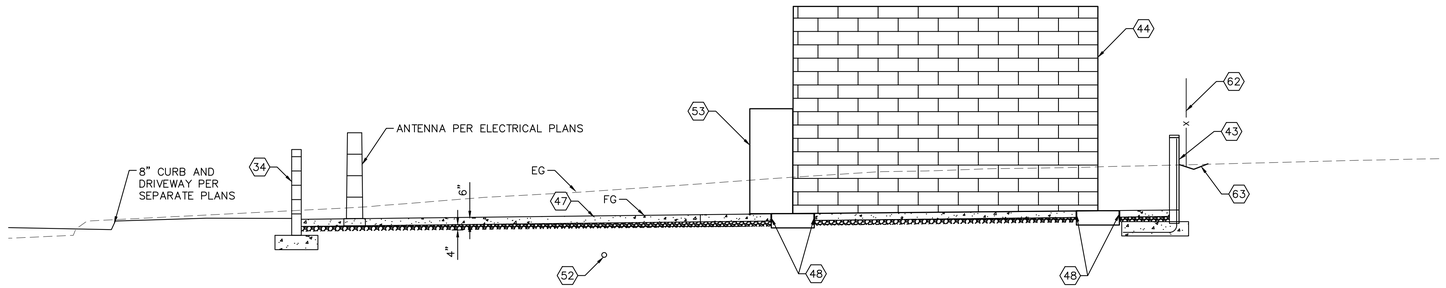
CITY of BEAUMONT — CALIFORNIA — INC.NOV.18, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

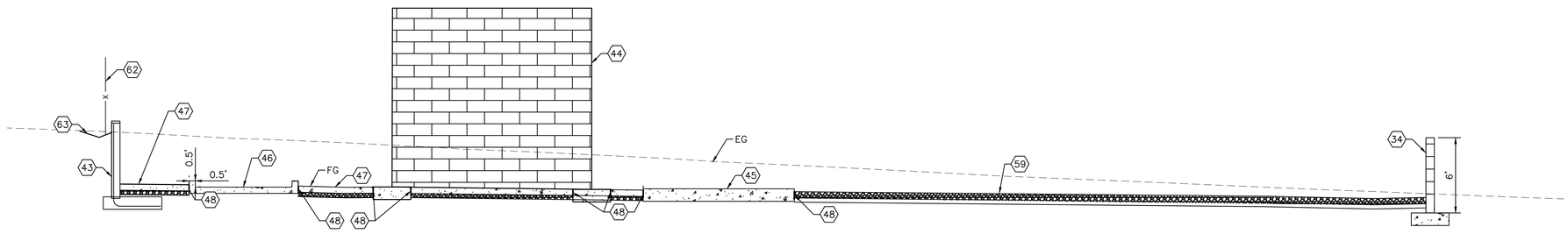
CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
LIFT STATION SECTION B

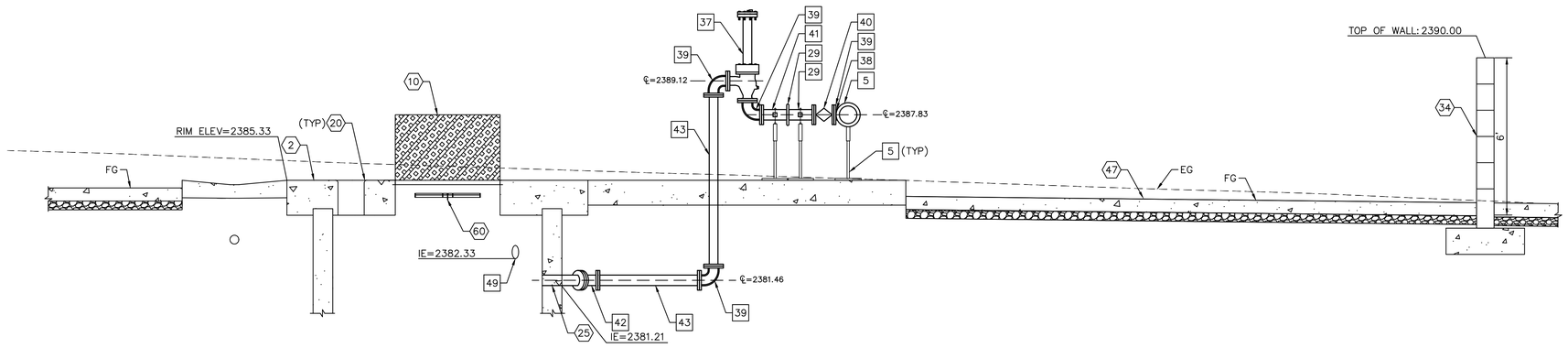
SHEET 8 OF 38 SHEETS
FILE NO: 3387



SECTION E-E
SCALE: 1" = 5'



SECTION F-F
SCALE: 1" = 5'



SECTION G-G
SCALE: 1" = 2.5'

SEWER LIFT STATION NOTES

2. 11.5' X 11.5' CONCRETE WET WELL TOP SLAB
10. INSTALL 72" X 48" STAINLESS STEEL DOUBLE LEAF HATCH WITH FALL PROTECTION GRATE
20. 12" SQUARE OPENING IN CONCRETE TOP WITH CAST IRON RING AND BROOKS CB1212 FRAME AND SOLID COVER FOR FLOAT SWITCH AND LEVEL TRANSDUCER. SEE DETAIL E, SHEET 10.
25. PIPE PENETRATION. SEE DETAIL B, SHEET 10.
34. SPLIT FACE WALL PER CALTRANS STANDARD DRAWING B15-1, CASE 1
43. CONSTRUCT 6' HIGH TYPE-6A RETAINING WALL PER CALTRANS STD B3-7A.
44. MCC BUILDING.
45. ODOR CONTROL PAD. SEE DETAIL B SHEET 12.
46. ELECTRIC GENERATOR PAD. SEE DETAIL C SHEET 12.
47. 4" AC OVER 6" CRUSHED AB
48. EXPANSION JOINT
52. INSTALL 4" PVC STORM DRAIN WITH TRENCHING AND BACKFILL PER EMWD SB-157 AND SB-158. INVERT PER GRADING PLAN
53. INSTALL 6' WIDE BY 7.33' HIGH STEEL DOUBLE SWING DOOR
59. INSTALL 3/4" ROCK OVER MIRAFI LINER
60. TWO PIECE ALUMINUM SAFETY GRATING BENEATH HATCH DOOR LEAFS. RATED FOR 200 LB/SF LIVE LOAD.
62. INSTALL FENCE PER APWA STANDARD 600-3
63. DRAINAGE DITCH PER SEPARATE PLANS. SEE ON-SITE GRADING PLANS (PERMIT NUMBER PW2019-0339).

MECHANICAL NOTES

5. 6" DI SPOOL, FLANGED
29. VICTAULIC COUPLING
37. INSTALL 4" APCO SURGE RELIEF ANGLE VALVE PRESSURE RANGE 100-200 PSI. SET TO 120 PSI.
38. 6" x 4" DI REDUCER
39. 4" DI 90° BEND
40. 4" PLUG VALVE FLANGED WITH HAND WHEEL ACTUATOR. PRATT OR APPROVED EQUAL.
41. 4" DI SPOOL, FLANGE X GROOVED END
42. 4" DI 45° BEND
43. 4" DI SPOOL, FLANGED
49. 6" DI VENT PIPING

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "O 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07), ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER
R.C.E. 61788 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — SAM L. MCWHORTER — No. 61788 — CIVIL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT — CALIFORNIA — INC. NOV. 15, 1912

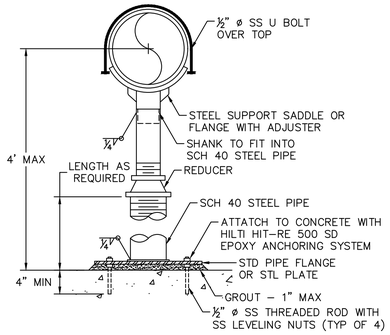
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

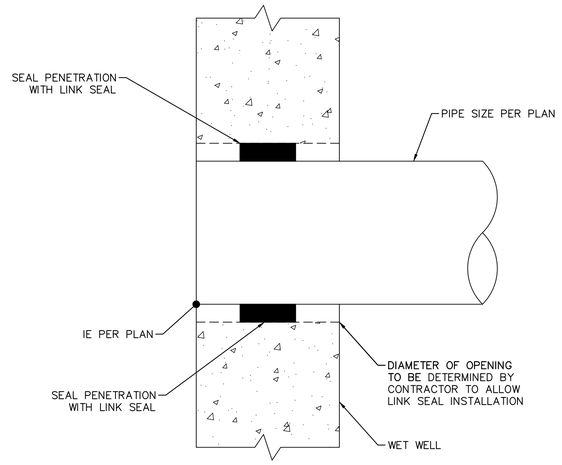
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
LIFT STATION SECTION C

SHEET 9 OF 38 SHEETS
FILE NO: 3387

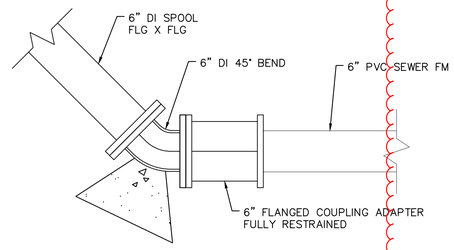
Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout:Section E-E F-F October 20, 2021 10:52:32am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - SECTIONS_2.dwg



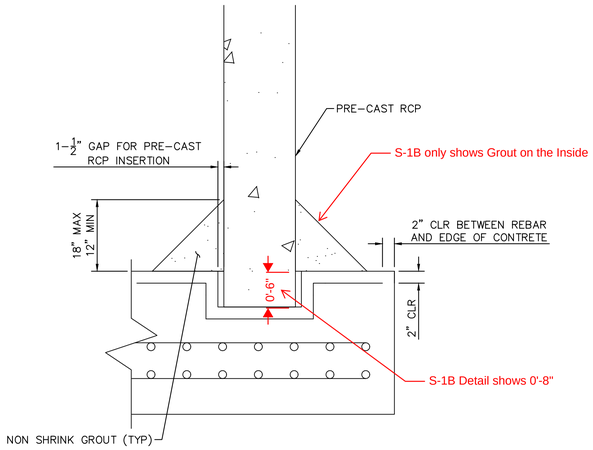
A PIPE SUPPORT
NOT TO SCALE



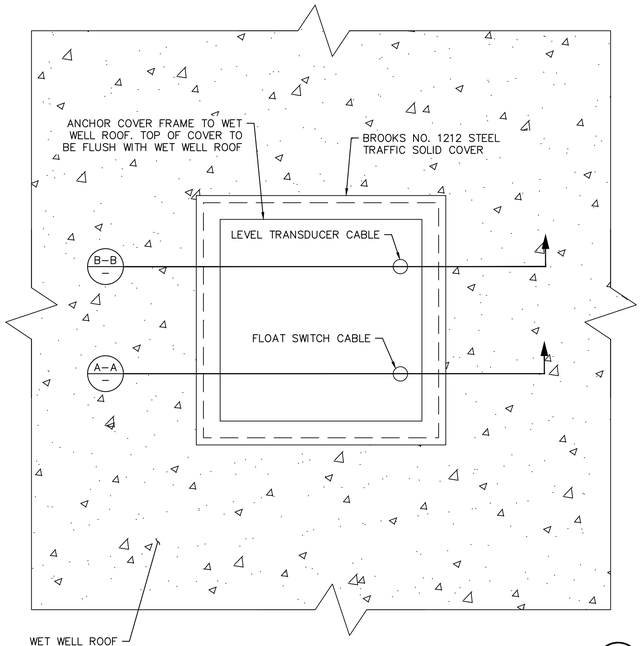
B PIPE PENETRATION
NOT TO SCALE



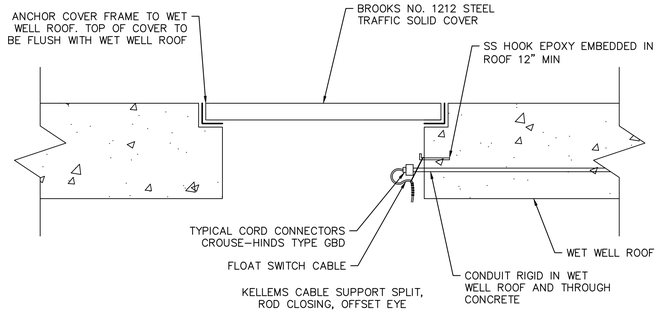
C DI TO PVC FORCE MAIN COUPLING DETAIL
NOT TO SCALE



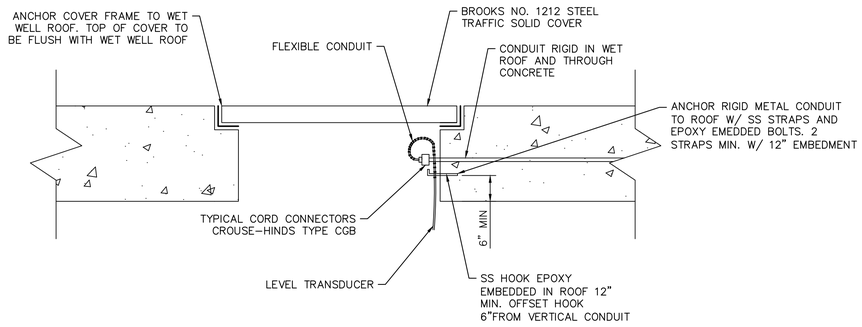
D SLAB TO RCP CONNECTION DETAIL
NOT TO SCALE



PLAN VIEW



SECTION A–A



SECTION B–B

E FLOAT SWITCH AND LEVEL TRANSDUCER ACCESS OPENING DETAIL
NOT TO SCALE

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER
R.C.E. 61788 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — SAM L. MCWHORTER — No. 61788 — CIVIL — STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY of BEAUMONT CALIFORNIA INC.NOV.18,1912

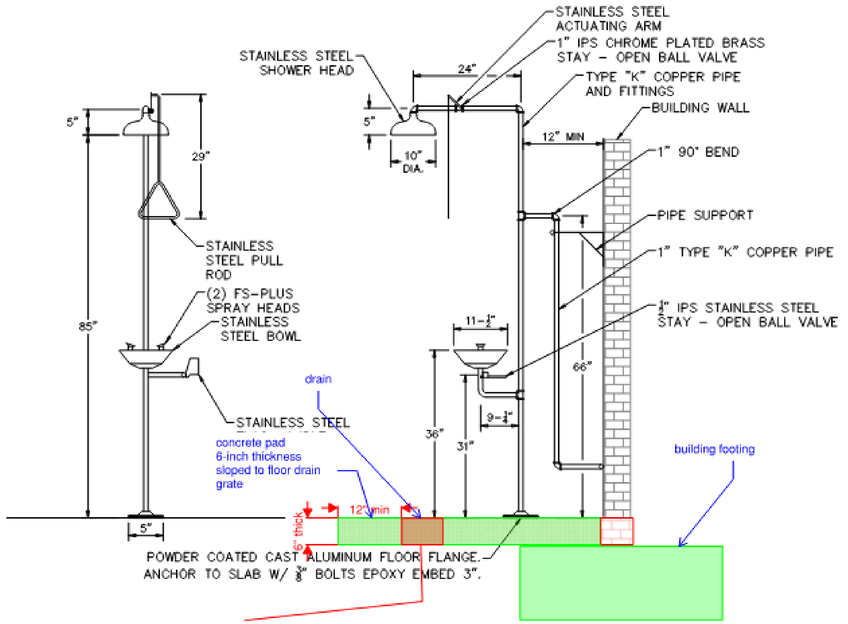
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

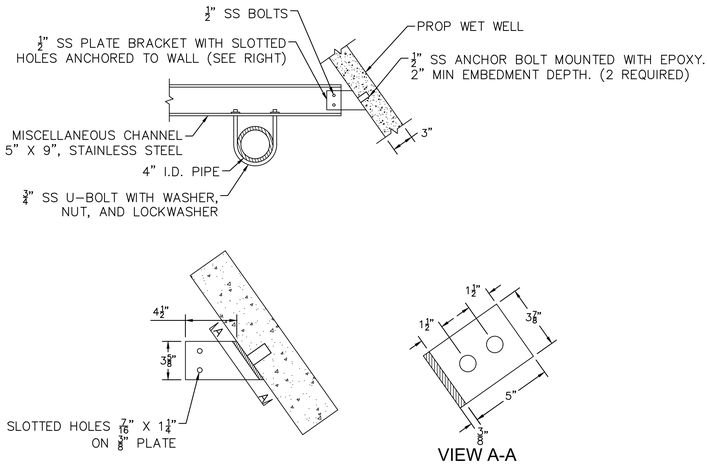
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
DETAILS

SHEET 10 OF 38 SHEETS
FILE NO: 3387

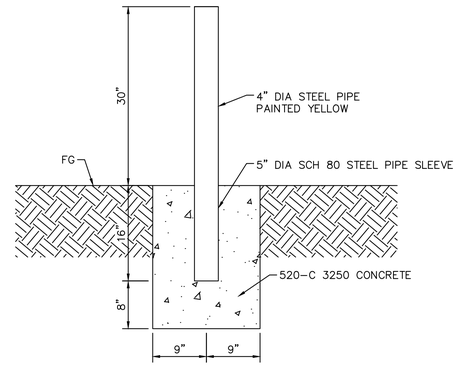
Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout: DT-01 October 20, 2021 10:52:54am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xDT.dwg



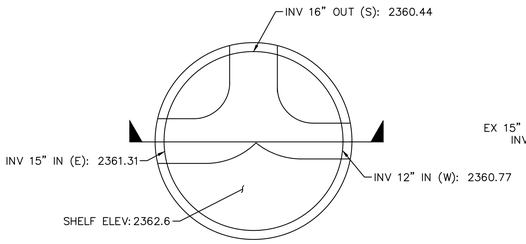
A COMBINATION EMERGENCY EYE WASH AND SHOWER STATION
NOT TO SCALE



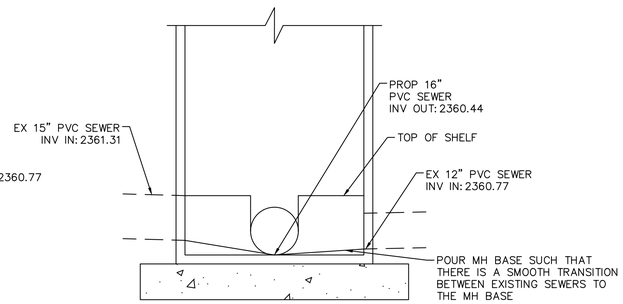
B STAINLESS STEEL SUPPORT
NOT TO SCALE



C BOLLARD SECTION DETAIL
NOT TO SCALE

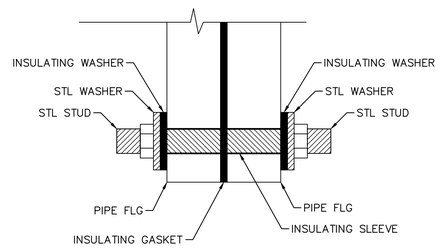


PLAN VIEW



SECTION VIEW

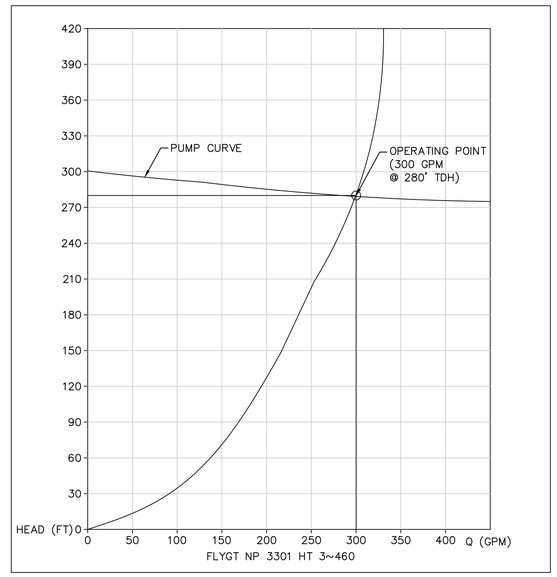
D PROPOSED MANHOLE SHELF
SCALE: 1" = 2'



NOTES:

1. FULL LENGTH INSULATING SLEEVES REQUIRED AT ALL THRU-FLANGE BOLTS OR STUDS. INSULATING SLEEVES MUST EXTEND THROUGH THE RESTRAINING FLANGE, BOTH PIPE FLANGES, THE INSULATING GASKET, AND TWO INSULATING WASHERS.

E INSULATING FLANGE KIT
NOT TO SCALE



F PUMP CURVE
NOT TO SCALE

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER
R.C.E. 61788
8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — SAM L. MCWHORTER — No. 61788 — CIVIL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

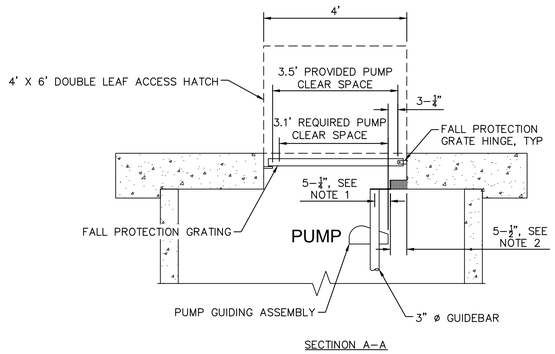
CITY of BEAUMONT CALIFORNIA INC. NOV. 18, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

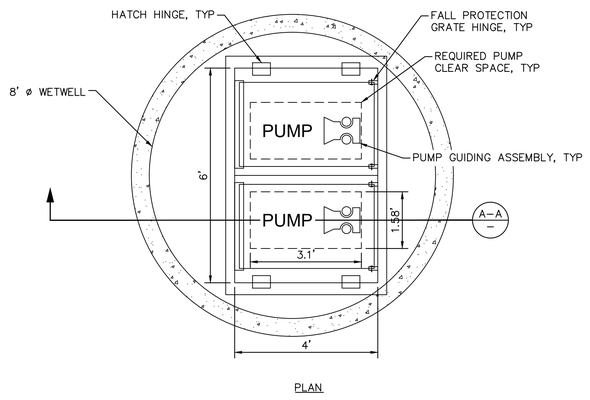
CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
DETAILS

SHEET 11 OF 38 SHEETS
FILE NO: 3387



SECTINON A-A

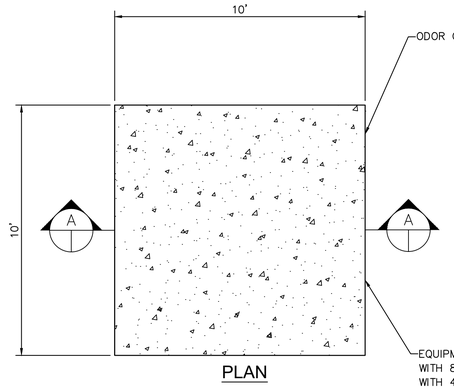


PLAN

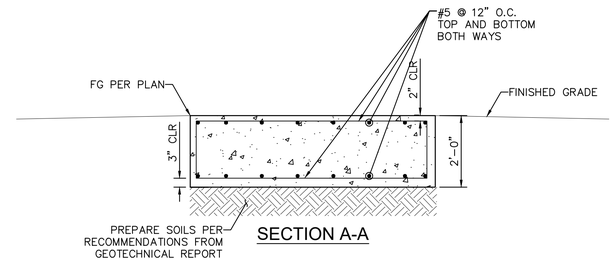
A MODIFIED PUMP GUIDERAIL
NOT TO SCALE

NOTES:

1. REFERENCE LINE TO CENTER OF GUIDEBAR PER FLYGT NP 3202 SH 3~273 DIMENSIONAL DRAWING.
2. PROVIDE 11 3/8" 316 STAINLESS STEEL SPACERS TO ACHIEVE A 3-1/4" CLEARANCE BETWEEN THE EDGE OF THE PUMP GUIDING ASSEMBLY AND THE EDGE OF THE FALL PROTECTION GRATE HINGE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION.



PLAN



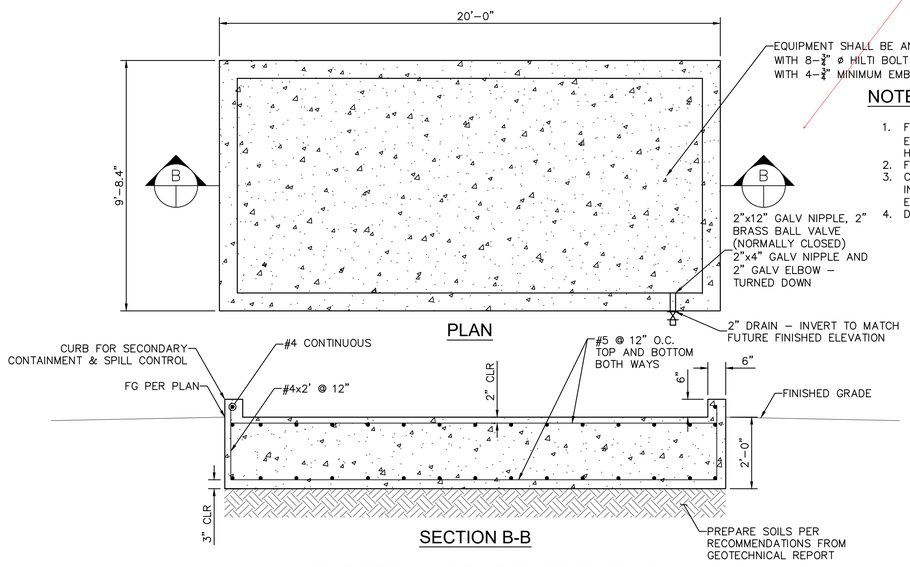
SECTION A-A

NOTE

1. FOR ODOR CONTROL PAD ANCHORAGE TO FOUNDATION USE 3/4"Ø HILTI BOLT TZ EXPANSION ANCHORS WITH 4-3/4" MINIMUM EMBEDMENT IN 5-3/4" DEEP HOLES.
2. FOLLOW MANUFACTURER'S RECOMMENDATION FOR INSTALLATION.
3. CONTRACTOR TO VERIFY GENERATOR WILL FIT WITHIN DIMENSIONS INDICATED WITH 12" MINIMUM CLEARANCE ON ALL SIDES. NOTIFY ENGINEER OF ANY CONFLICTS.
4. DESIGN SPECIFICATIONS:
   REINFORCED CONCRETE
   F'c = 3,000 psi
   Fy = 60,000 psi

B ODOR CONTROL PAD
NOT TO SCALE

Used Detail C on sheet 12 instead of Detail 4 on sheet



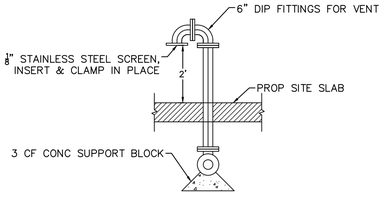
PLAN

NOTE

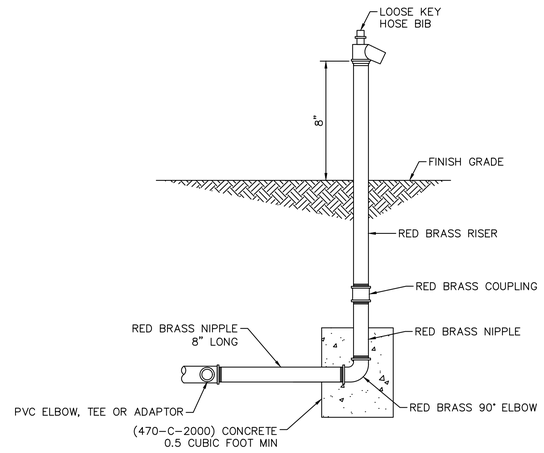
1. FOR GENERATOR ANCHORAGE TO FOUNDATION USE 3/4"Ø HILTI BOLT TZ EXPANSION ANCHORS WITH 4-3/4" MINIMUM EMBEDMENT IN 5-3/4" DEEP HOLES.
2. FOLLOW MANUFACTURERS RECOMMENDATION FOR INSTALLATION.
3. CONTRACTOR TO VERIFY GENERATOR WILL FIT WITHIN DIMENSIONS INDICATED WITHIN 12" MINIMUM CLEARANCE ON ALL SIDES. NOTIFY ENGINEER OF ANY CONFLICTS.
4. DESIGN SPECIFICATIONS:
   REINFORCED CONCRETE
   F'c = 3,000 psi
   Fy = 60,000 psi

SECTION B-B

C ELECTRIC GENERATOR PAD
NOT TO SCALE



D WET WELL VENT
NOT TO SCALE



E HOSE BIB
NOT TO SCALE

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREIN.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER
R.C.E. 61788
8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER, SAM L. MCWHORTER, No. 61788, CIVIL, STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY of BEAUMONT CALIFORNIA INC.NOV.18,1912

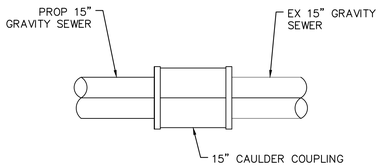
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA. 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

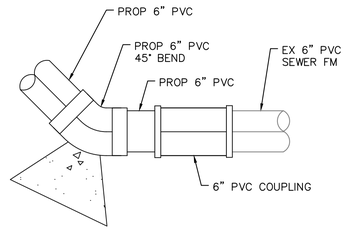
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
DETAILS

SHEET 12 OF 38 SHEETS
FILE NO: 3387

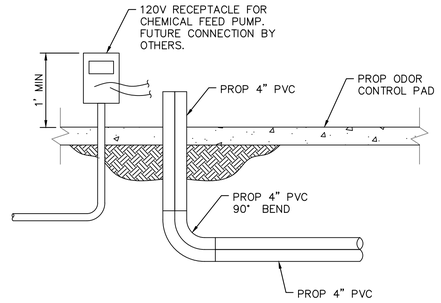
Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout: DT-03 October 20, 2021 10:52:59am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xDT.dwg



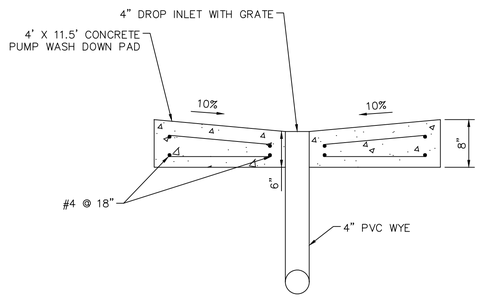
A CAULDER COUPLING
SCALE: 1" = 1'



B PVC COUPLING
SCALE: 1" = 1'



C CHEMICAL FEED PORT
SCALE: 1" = 1'



D PUMP WASH DOWN PAD
SCALE: 1" = 1'

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07), ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

SAM L. MCWHORTER R.C.E. 61788 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — SAM L. MCWHORTER — No. 61788 — CIVIL — STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY of BEAUMONT CALIFORNIA INC. NOV. 16, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
DETAILS

SHEET 13 OF 38 SHEETS
FILE NO: 3387

ELECTRICAL SYMBOLS

SINGLE LINE DIAGRAMS

- (A) AMMETER
- (V) VOLTMETER
- (M) METER
- (KWH) KILOWATT HOUR METER
- [AS] AMMETER SWITCH
- [VS] VOLTMETER SWITCH
- GFP — GROUND FAULT PROTECTION
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- POWER TRANSFORMER SEE NOTE 1.
- CONTROL TRANSFORMER SEE NOTE 2.
- DRAW OUT TYPE EQUIPMENT
- DRAW OUT TYPE HIGH VOLTAGE MOTOR STARTER
- PLUG–IN TYPE EQUIPMENT
- A–24 — CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE INDICATED
- DISCONNECT SWITCH, 3 POLE UNLESS OTHERWISE INDICATED
- OIL FUSE CUTOUTS
- FUSE SEE NOTE 3.
- TRANSFER SWITCH, AUTOMATIC
- RV SIZE 1 — MAGNETIC MOTOR STARTER."1" INDICATES SIZE 1. RV INDICATES REDUCED VOLTAGE. 2S INDICATES 2 SPEED. R INDICATES REVERSING.
- MAGNETIC CONTACTOR
- 12 — CONDUIT NUMBER 12. SEE CONDUIT AND WIRING SCHEDULE FOR SIZES AND QUANTITIES OF CONDUIT AND WIRES.
- GND — GROUND
- K — KIRK KEY INTERLOCKING OF EQUIPMENT
- 2 HP — EQUIPMENT FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER SECTION OF THE CONTRACT.
- PFR — PHASE FAILURE RELAY
- SA — SURGE ARRESTER
- (#) — EXISTING MOTOR (HP SHOWN)
- (#) — NEW MOTOR (ESTIMATED HP SHOWN)
- (#) — FUTURE MOTOR (ESTIMATED HP SHOWN)
- EYS SEAL

NOTES: (ELECTRICAL SYMBOLS)

1. POWER TRANSFORMERS SHALL BE DRY TYPE 480–208Y/120 VOLTS, 3 PHASE 4 WIRE UNLESS OTHERWISE INDICATED.
2. 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.
3. LOCATED IN OR ON MOTOR CONTROL CENTER UNLESS OTHERWISE INDICATED.

CONTROL WIRING DIAGRAMS

NORMALLY OPEN	NORMALLY CLOSED	DEVICE
⊣⊢	⊣/⊢	CONTACT
		LIMIT SWITCH
		LIMIT SWITCH HELD CLOSED
		LIMIT SWITCH HELD OPEN
		PRESSURE OR VACUUM SWITCH
		LIQUID LEVEL SWITCH
		TEMPERATURE ACTUATED SWITCH
		FLOW SWITCH (AIR, WATER, ETC.)
		PUSH BUTTON SINGLE CIRCUIT MOMENTARY CONTACT.
		PUSH BUTTON SINGLE CIRCUIT LOCK–OUT(LOCATED AT MOTOR UNLESS OTHERWISE NOTED)
		TIMED CONTACT– CONTACT ACTION RELAY ON ENERGIZATION.
		TIMED CONTACT– CONTACT ACTION RELAY ON DE–ENERGIZATION.
		ON–OFF SWITCH.
ESB		EMERGENCY STOP PUSH BUTTON (MAINTAINED CONTACT)
STOP	START	STOP –START PUSH–BUTTON STATION (MAINTAINED CONTACTS).
H O A		HAND–OFF–AUTO SELECTOR SWITCH SEE NOTE 3. (THREE POSITION).
A		TWO POSITION SELECTOR SWITCH SEE NOTE 3.
R		PILOT LIGHT, Y=YELLOW, R=RED, A=AMBER, SEE NOTE 3. B=BLUE, W=WHITE, G=GREEN.
		BELL
		HORN OR SIREN
CR		CONTROL RELAY
M		STARTER COIL.
TDR		TIME DELAY RELAY. (0–30 SECONDS UNLESS OTHERWISE NOTED).
OL'S		MOTOR STARTER OVERLOAD RELAY CONTACTS
		CONTROL TRANSFORMER. SEE NOTES 2
		MANUAL MOTOR STARTER
		SOLENOID OPERATED CONTROL VALVE
1		120 VOLT, 1 PHASE, MOTOR (UNLESS OTHERWISE NOTED)
RTM		RUNNING TIME METER. (ELAPSED TIME METER)
		SPACE HEATERS. (LOCATED AT MOTOR UNLESS OTHERWISE NOTED).
		TERMINALS IN MOTOR CONTROL CENTER/MCP CONTACT OR DEVICE REMOTE FROM MOTOR CONTROL CENTER/MCP
		TERMINALS IN MOTOR CONTROL CENTER/MCP CONTACT IN MOTOR CONTROL CENTER FOR CONNECTION TO REMOTE DEVICE/MCP
		DEVICE SIGNAL OUTPUT
		DEVICE SIGNAL INPUT

PLANS

- CONDUIT RUN CONCEALED UNDER SLAB OR BELOW GRADE. (CONCEALED IN SLAB WHERE SO NOTED OR WHERE ALLOWED PER SPECIFICATIONS).
- CONDUIT RUN EXPOSED UNLESS OTHERWISE NOTED
- EXISTING CONDUIT RUN
- GROUND WIRE
- CONDUIT UP (OUT TOP OF EQUIPMENT)
- CONDUIT DOWN (OUT BOTTOM OF EQUIPMENT)
- CONDUIT STUBBED OUT AND CAPPED
- LIGHTING FIXTURE MOUNTED ON POLE OR POST OR ABOVE PLATFORM
- CEILING MOUNTED LIGHTING FIXTURE
- BRACKET MOUNTED LIGHTING FIXTURE
- FLOODLIGHT
- LED STRIP 4' LIGHTING FIXTURE
- POLE MOUNTED LIGHT FIXTURE
- EXIT LIGHT
- RECESSED INCANDESCENT OR MERCURY VAPOR LIGHTING FIXTURE
- LIGHTING FIXTURES CONNECTED TO EMERGENCY CIRCUITS
- A 1/100 — LIGHTING FIXTURE TYPE A, 100 WATTS, WITH 1 LAMP. SEE LIGHTING FIXTURE SCHEDULE
- $ — SINGLE POLE, SINGLE THROW TOGGLE SWITCH
- $_2$ — DOUBLE POLE, SINGLE THROW TOGGLE SWITCH
- $_3$ — THREE–WAY TOGGLE SWITCH
- $_4$ — FOUR–WAY TOGGLE SWITCH
- $_M$ — MANUAL MOTOR STARTER

  (AT +48" OR AS NOTED)
- $_a$ — OUTLETS SHOWN WITH SUBSCRIPT "a" ADJACENT TO THEM SHALL BE CONTROLLED BY S a
- DUPLEX CONVENIENCE RECEPTACLE AT +12" OR AS NOTED
- SINGLE CONVENIENCE RECEPTACLE AT +12" OR AS NOTED
- SPECIAL PURPOSE RECEPTACLE AT +12" OR AS NOTED, RATING AS INDICATED
- JUNCTION BOX, SIZE AS REQUIRED BY CODE
- THERMOSTAT OUTLET AT +54"
- CLOCK OUTLET AT +7'–6" OR AS NOTED
- TELEPHONE OUTLET AT +12" OR AS NOTED
- TELEPHONE FLOOR OUTLET
- HORN
- P — CONTROL DEVICE P = PRESSURE SWITCH ZS = LIMIT SWITCH L = LEVEL SWITCH V = CONTROL VALVE
- CONTROL STATION: PUSH–BUTTON STATION OR SELECTOR SWITCH. SEE CONTROL WIRING DIAGRAMS FOR REQUIREMENTS.
- (M) — EXISTING MOTOR
- (M) — NEW MOTOR
- (M) — FUTURE MOTOR
- GROUND WELL
- GROUND ROD
- DISCONNECT SWITCH. SEE SINGLE LINE DIAGRAM FOR SIZE.
- LIGHTING PANEL. SURFACE MOUNTED.
- SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- EQUIPMENT BY OTHERS
- 12 — CONDUIT NUMBER 12. SEE CONDUIT AND WIRING SCHEDULE FOR SIZES AND QUANTITIES OF CONDUIT AND WIRES.
- +12" — INDICATES HEIGHT FROM FINISHED FLOOR OR GRADE TO CENTERLINE OF DEVICE.
- (1) — INDICATES TO REFER TO NOTE (1) ON DRAWING
- W.P. — WEATHERPROOF. PROVIDE GASKETS AS REQUIRED
- C.O. — CONDUIT ONLY
- FE–184 — INSTRUMENTATION DEVICE. SEE PROCESS AND INSTRUMENTATION DRAWINGS FOR DESCRIPTIONS.
- E — PULL BOX (SIZE AS REQUIRED)
- OUTPUT TERMINAL
- INPUT TERMINAL

ABBREVIATIONS

AMP AMPERE	HZ HERTZ (CYCLES PER SECOND)	O & M OPERATIONS AND MAINTENANCE	V VOLTS
AL ALUMINUM	IC INTERRUPTING CAPACITY	P POLE	VAC VOLT ALTERNATING CURRENT
AT AMP TIP	JB JUNCTION BOX	PG&E PACIFIC GAS AND ELECTRIC	VFD VARIABLE FREQUENCY DRIVE
ATS AUTOMATIC TRANSFER SWITCH	KV KILOVOLTS	PLC PROGRAMMABLE LOGIC CONTROLLER	WP WEATHERPROOF
AWG AMERICAN WIRE GAUGE	LB ELBOW	PNL PANEL	XFMR TRANSFORMER
B.C. BARE COPPER	LCL LONG CONTINUOUS LOAD	PR PAIR	
BRK BREAKER	LSH LEVEL SWITCH HIGH	PVC POLYVINYL CHLORIDE	
CAT CATALOG	LSHH LEVEL SWITCH HIGH HIGH	R RADIUS	
CIRC.MIL CIRCULAR MILS (AWG)	LSL LEVEL SWITCH LOW	REC RECEPTACLE	
CLR CLEARANCE	LSLL LEVEL SWITCH LOW LOW	RGS RIGID GALVANIZED STEEL	
C.O. CONDUIT ONLY	LTG LIGHTING	RMS ROOT MEAN SQUARE	
CKT CIRCUIT	MA MILLIAMPERE	R/W RIGHT OF WAY	
CP CONTROL PANEL	MAX MAXIMUM	SCHED SCHEDULE	
CU CONDENSER UNIT	MCC MOTOR CONTROL CENTER	SES SERVICE ENTRANCE SECTION	
DIA DIAMETER	MCP MAIN CONTROL PANEL	SPECS SPECIFICATIONS	
DWG DRAWING	MCM THOUSAND CIRCULAR MIL (AWG)	SQ SQUARE	
EA EACH	MFR MANUFACTURER	SSS SOLID STATE STARTER	
ELECT ELECTRICAL	MIN MINIMUM	STD STANDARD	
ELEV ELEVATION	MIS MISCELLANEOUS	T THICK	
EXIST EXISTING	MPZ MINI POWER ZONE	TB TERMINAL BLOCK	
FLA FULL LOAD AMPS	MTG MOUNTING	TEL TELEPHONE	
FUT FUTURE	MV MERCURY VAPOR	TDR TIME DELAY RELAY	
GFCI GROUND FAULT CIRCUIT INTERRUPTER	N.C. NORMALLY CLOSED	TTB TELEPHONE TERMINAL BACKBOARD	
GND GROUND	NEC NATIONAL ELECTRICAL CODE	TYP TYPICAL	
HOA HANDS–OFF–AUTO	N.O. NORMALLY OPEN	UCP UNIT CONTROL PANEL	
HP HORSEPOWER	NO. NUMBER	UG UNDERGROUND	
HPS HIGH PRESSURE SODIUM	O.C. ON CENTER	U.L. UNDERWRITERS LABORATORY	

GENERAL ELECTRICAL REQUIREMENTS

1. 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).
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. UNDERGROUND CONDUITS TO BE SCHEDULE 40 PVC. MINIMUM DEPTH 30", 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.
8. 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 RGS 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.
9. ALL SAFETY SWITCHES AND OTHER DISTRIBUTION AND CONTROL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED AND RATED FOR HEAVY DUTY SERVICE.
10. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
11. 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.
12. 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.

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234–9411
WWW.KIMLEY–HORN.COM

MICHAEL A. COLOMBO R.C.E. 19280 — 8/23/2021

SEAL — REGISTERED PROFESSIONAL ENGINEER MICHAEL ANTHONY COLOMBO No. 19280 ELECTRICAL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

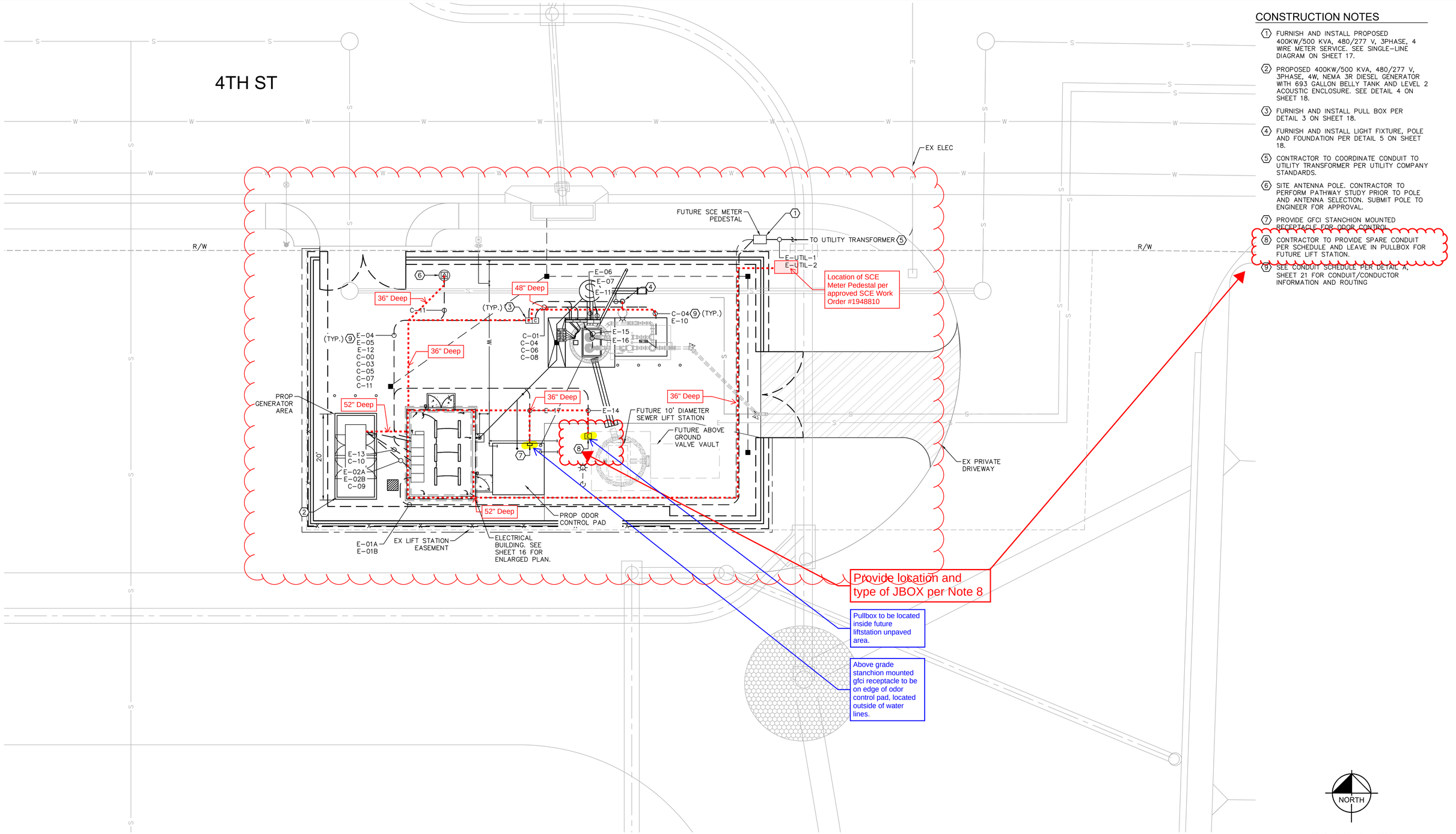
CITY OF BEAUMONT CALIFORNIA INC.NOV.18,1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769–8520 FAX: (951) 769–8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
GENERAL ELECTRICAL NOTES

SHEET 14 OF 38 SHEETS
FILE NO: 3387



CONSTRUCTION NOTES

1. FURNISH AND INSTALL PROPOSED 400KW/500 KVA, 480/277 V, 3PHASE, 4 WIRE METER SERVICE. SEE SINGLE-LINE DIAGRAM ON SHEET 17.
2. PROPOSED 400KW/500 KVA, 480/277 V, 3PHASE, 4W, NEMA 3R DIESEL GENERATOR WITH 693 GALLON BELLY TANK AND LEVEL 2 ACOUSTIC ENCLOSURE. SEE DETAIL 4 ON SHEET 18.
3. FURNISH AND INSTALL PULL BOX PER DETAIL 3 ON SHEET 18.
4. FURNISH AND INSTALL LIGHT FIXTURE, POLE AND FOUNDATION PER DETAIL 5 ON SHEET 18.
5. CONTRACTOR TO COORDINATE CONDUIT TO UTILITY TRANSFORMER PER UTILITY COMPANY STANDARDS.
6. SITE ANTENNA POLE. CONTRACTOR TO PERFORM PATHWAY STUDY PRIOR TO POLE AND ANTENNA SELECTION. SUBMIT POLE TO ENGINEER FOR APPROVAL.
7. PROVIDE GFCI STANCHION MOUNTED RECEPTACLE FOR ODOR CONTROL
8. CONTRACTOR TO PROVIDE SPARE CONDUIT PER SCHEDULE AND LEAVE IN PULLBOX FOR FUTURE LIFT STATION.
9. SEE CONDUIT SCHEDULE PER DETAIL A, SHEET 21 FOR CONDUIT/CONDUCTOR INFORMATION AND ROUTING

1/15 ELECTRICAL SITE PLAN
SCALE: 1" = 10'

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07), ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

MICHAEL A. COLOMBO R.C.E. 19280 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER MICHAEL ANTHONY COLOMBO No. 19280 ELECTRICAL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC. NOV. 15, 1912

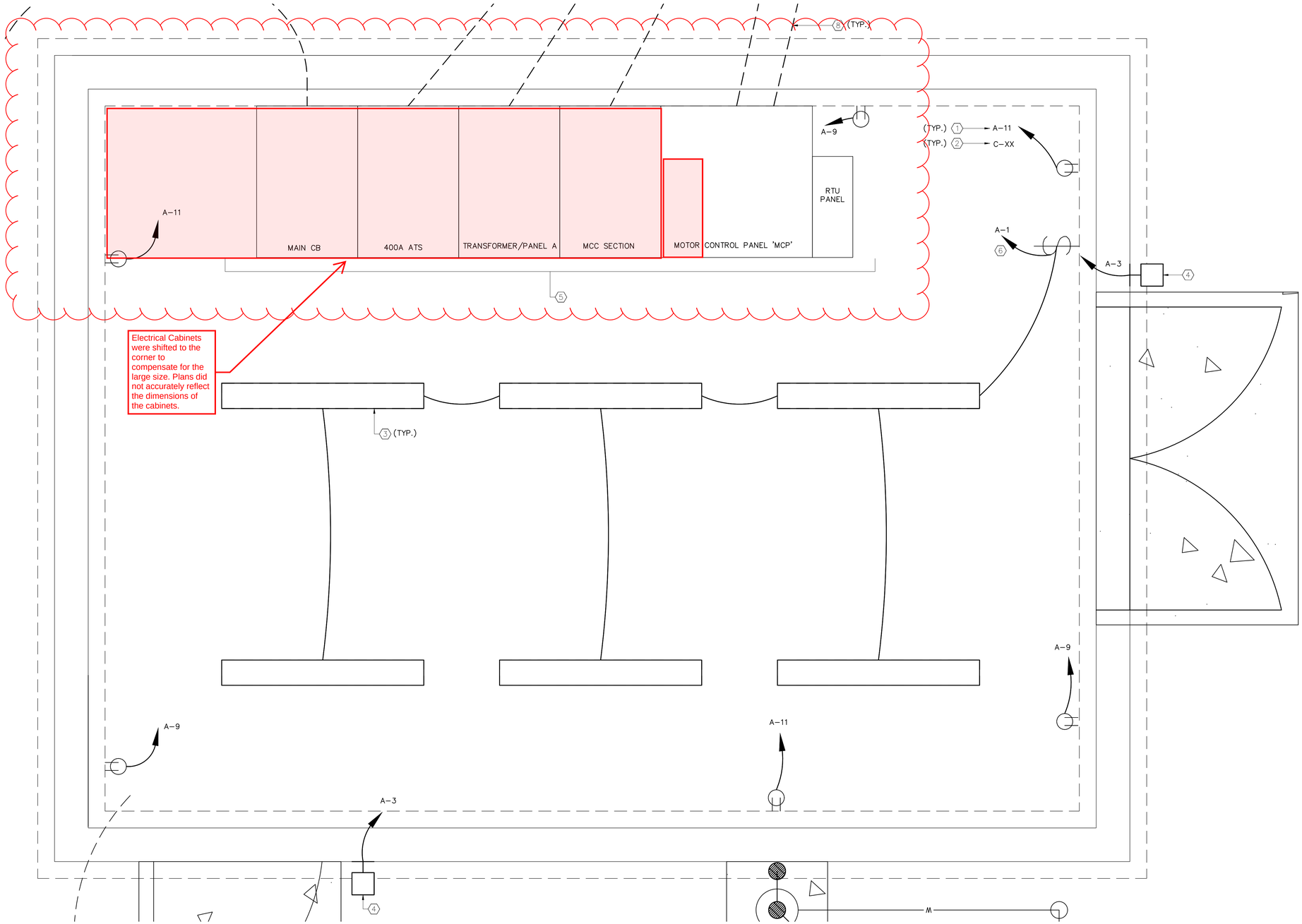
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
ELECTRICAL SITE PLAN

SHEET 15 OF 38 SHEETS
FILE NO: 3387

Plotted By:Walther, Sam Sheet Set:BEAUMONT LIFT STATION Layout: Electrical Site Plan October 20, 2021 10:50:32am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - EL DELTA.dwg



CONSTRUCTION NOTES

1. ELECTRICAL POWER HOMERUN LEADER SHOWS CIRCUIT TO PANEL CONNECTION. SEE PANELBOARD SCHEDULE FOR CIRCUIT AMPACITY DETAILS. PROVIDE RGS CONDUIT INSIDE BUILDING TO 30% MAXIMUM FILL VOLUME. PROVIDE STAINLESS STEEL JUNCTION BOX FOR CONDUIT TRANSITIONS CONSISTING OF MORE THAN 3 90 DEGREE TURNS.
2. COMMUNICATIONS CONDUIT SHOWN AS 'C-XXX'. SEE CONDUIT SCHEDULE ON SHEET 21 FOR DETAILS.
3. PROVIDE 4' STRIP LED LIGHT FIXTURE. SUBMIT FIXTURE TO ENGINEER FOR APPROVAL.
4. OUTSIDE OF BUILDING FLUSH MOUNTED EXTERIOR LIGHT FIXTURE. PROVIDE 60W MINIMUM LED FIXTURE RATED FOR OUTDOOR USE. SUBMIT FIXTURE TO ENGINEER FOR APPROVAL.
5. ELECTRICAL EQUIPMENT SHOWN ON SHEET 17 DETAILS 2, 3, 4
6. LIGHTING CONTROL SHOWN ON SHEET 20, DETAIL 6.
8. SEE SITE PLAN SHEET 15 FOR CONTINUATION OF CONDUITS OUTSIDE OF BUILDING. SEE CONDUIT SCHEDULE PER DETAIL A, SHEET 21 FOR CONDUIT/CONDUCTOR INFORMATION AND ROUTING.

NORTH

GRAPHIC SCALE IN FEET
0 0.5 1 2

1/16 MCC BUILDING – ELECTRICAL FLOOR PLAN
SCALE: 1" = 1'

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

MICHAEL A. COLOMBO R.C.E. 19280 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER MICHAEL ANTHONY COLOMBO No. 19280 ELECTRICAL STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY of BEAUMONT CALIFORNIA INC. NOV. 16, 1912

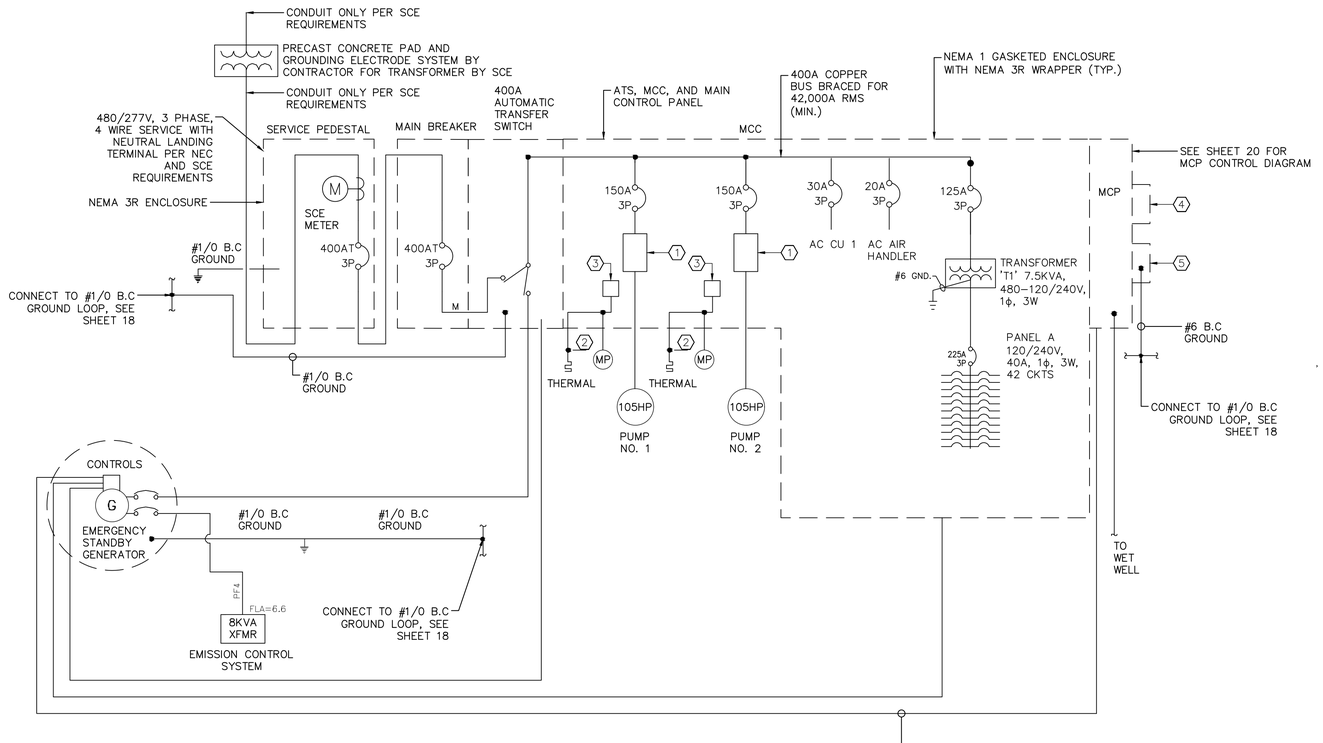
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

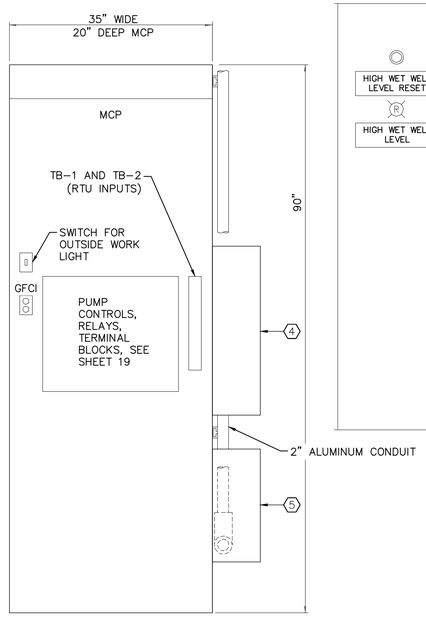
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
ELECTRICAL BUILDING FLOORPLAN

SHEET 16 OF 38 SHEETS
FILE NO: 3387

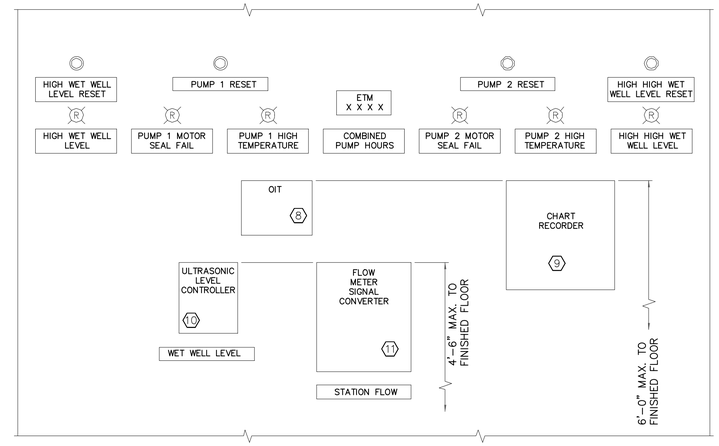
Plotted By: Wuellner, Sam Sheet Set: BEAUMONT LIFT STATION Layout: Building Floorplan October 20, 2021 10:50:37am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - EL DELTA.dwg



1/17 SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE



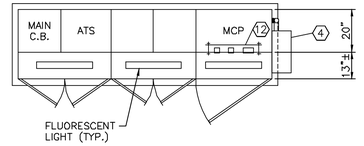
2/17 MCP LAYOUT
SCALE: NOT TO SCALE

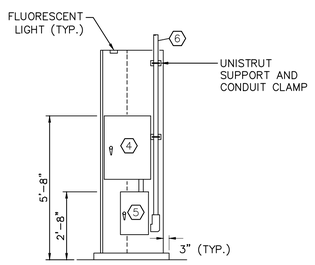


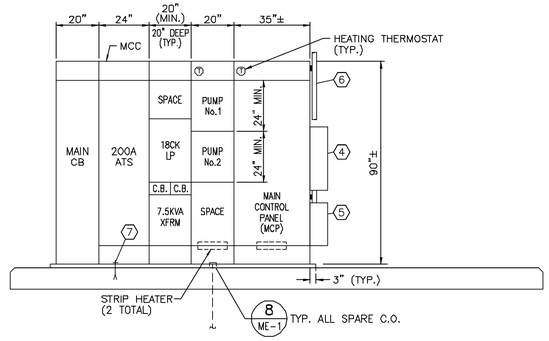
3/17 MCP DOOR LAYOUT
SCALE: NOT TO SCALE

SINGLE-LINE DIAGRAM AND MCC NOTES

1. PROVIDE 125HP RATED VFD IN MCC, SIZE OCPD AS SHOWN ON ONE–LINE DIAGRAM.
2. THERMAL SENSOR AND MOISTURE PROBES IN PUMPING UNIT.
3. MOTOR THERMAL AND MOISTURE PROTECTION CONTROL MODULE(S). IF REQUIRED, TO BE FURNISHED BY PUMP MANUFACTURER. MOUNT MODULE(S) IN MAIN CONTROL PANEL 'MCP'.
4. RTU PANEL. CONTRACTOR SHALL FURNISH AND INSTALL HOFFMAN PANEL, C–SD30248 WITH LOCKING HANDLE C–WHPTO, AND DATA POCKET A–DP2, DISTRICT WILL FURNISH BACK PANEL WITH RTU FOR CONTRACTOR TO INSTALL AND TERMINATE CONDUCTORS.
5. RADIO LIGHTNING ARRESTOR PANEL. CONTRACTOR SHALL FURNISH AND INSTALL HOFFMAN PANEL, C–SD20208 WITH CP2020 BACK PANEL AND LOCKING HANDLE C–WHPTO. RADIO LIGHTNING ARRESTOR WILL BE FURNISHED AND INSTALLED BY DISTRICT.
6. 2" LB and 2" RIGID ALUMINUM CONDUIT WITH WEATHER HEAD. ATTACH TO SIDE OF MCP WITH UNISTRUT SUPPORTS.
7. PANEL ANCHOR BOLTS SHALL BE 316 S.S. DEFERRED BOLTING DEVICES PER SPECIFICATION REQUIREMENTS. CONTRACTOR SHALL SUBMIT ANCHORAGE CALCULATIONS IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
8. OPERATOR INTERFACE TERMINAL (OIT) C–MORE TOUCH PANEL PART NO. EA7–T6CL–R (NO SUBSTITUTES). PROVIDE 2–#14, 1–#14 GRD., 24VDC POWER CONDUCTORS, AND 8–CONDUCTOR FLAT COMMUNICATIONS CABLE FROM OIT TO RTU CABINET (DISTRICT WILL CONNECT TO RTU).
9. PAPERLESS CHART RECORDER. EZTREND QXE, AS MANUFACTURED BY HONEYWELL MODEL TVEZQX–60–000–22 (NO SUBSTITUTES) CHART RECORDER SHALL BE FLUSH MOUNTED TO FACE OF MCP DOOR. CHART RECORDER SHALL ACCEPT A MINIMUM OF FOUR 4–20MA INPUTS AND OPERATE ON 120VAC POWER. CHART RECORDER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. SUPPLIER OR CONTACT TRENDVIEW RECORDERS 1–800–843–6307
10. FLUSH MOUNT ULTRASONIC CONTROLLER ON MCP DOOR.
11. FLUSH MOUNT REMOTE FLOW METER SIGNAL CONVERTER ON MCP DOOR. CONTRACTOR SHALL PROVIDE DOOR CUT–OUT, SUPPORT BRACKETS, AND BEZEL AS REQUIRED FOR FLUSH DOOR MOUNTING.
12. PLEXIGLASS SHIELD TO COVER BACK OF DOOR MOUNTED DEVICES (LIGHTS, SWITCHES, OIT, ETC.). 1/8" THICK PLEXIGLASS SHIELD WITH 1/4" DIA. S.S. BOLTS AT EACH CORNER OF SHIELD AND SPACERS BETWEEN MCP DOOR AND PLEXIGLASS SHIELD.







4/17 MCC PLAN AND SECTION VIEW
SCALE: NOT TO SCALE

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM (DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234–9411
WWW.KIMLEY–HORN.COM

MICHAEL A. COLOMBO R.C.E. 19280 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER MICHAEL ANTHONY COLOMBO No. 19280 ELECTRICAL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

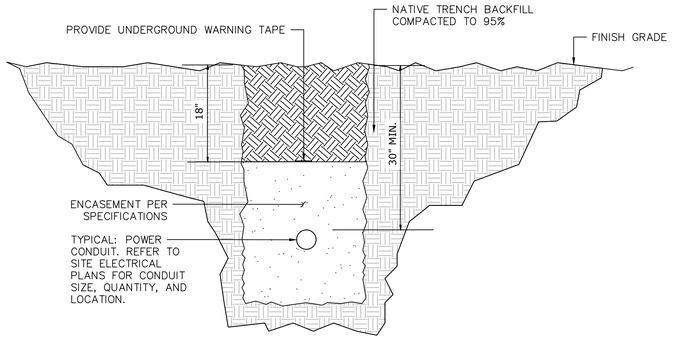
CITY OF BEAUMONT CALIFORNIA INC.NOV.18, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St Beaumont, CA 92223
TEL: (951) 769–8520 FAX: (951) 769–8526

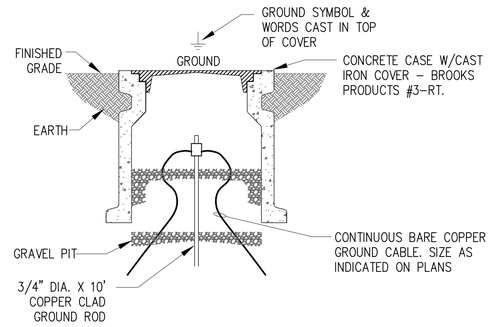
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
ELECTRICAL SINGLE LINE AND SCHEDULES

SHEET 17 OF 38 SHEETS
FILE NO: 3387



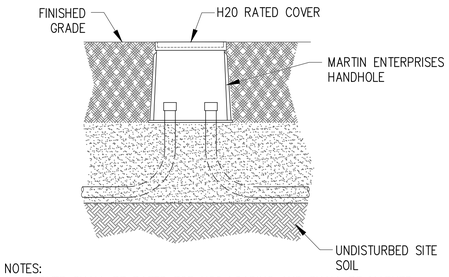
1/18 TRENCH DETAIL

NOT TO SCALE



2/18 GROUND ROD & WELL DETAIL

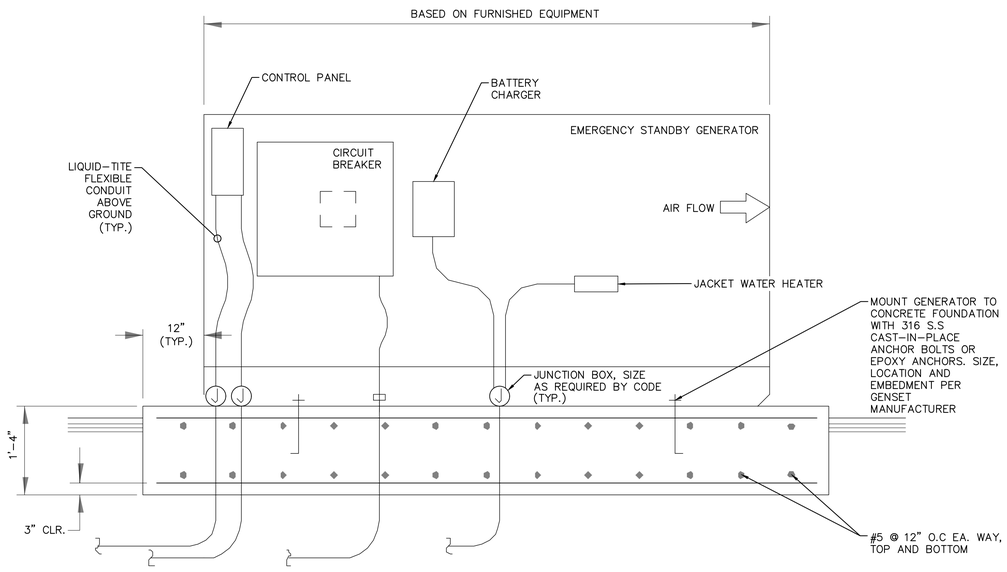
NOT TO SCALE



NOTES:
1. COVER SHALL BE RATED FOR H20 LOADING AND SHALL BE MARKED "DANGER – HIGH VOLTAGE – KEEP OUT". LETTERS SHALL BE BLOCK TYPE AND AT LEAST 1/2" IN HEIGHT. COVER SHALL HAVE BOLT DOWN PROVISIONS. BOLT DOWN HARDWARE SHALL BE STAINLESS STEEL.

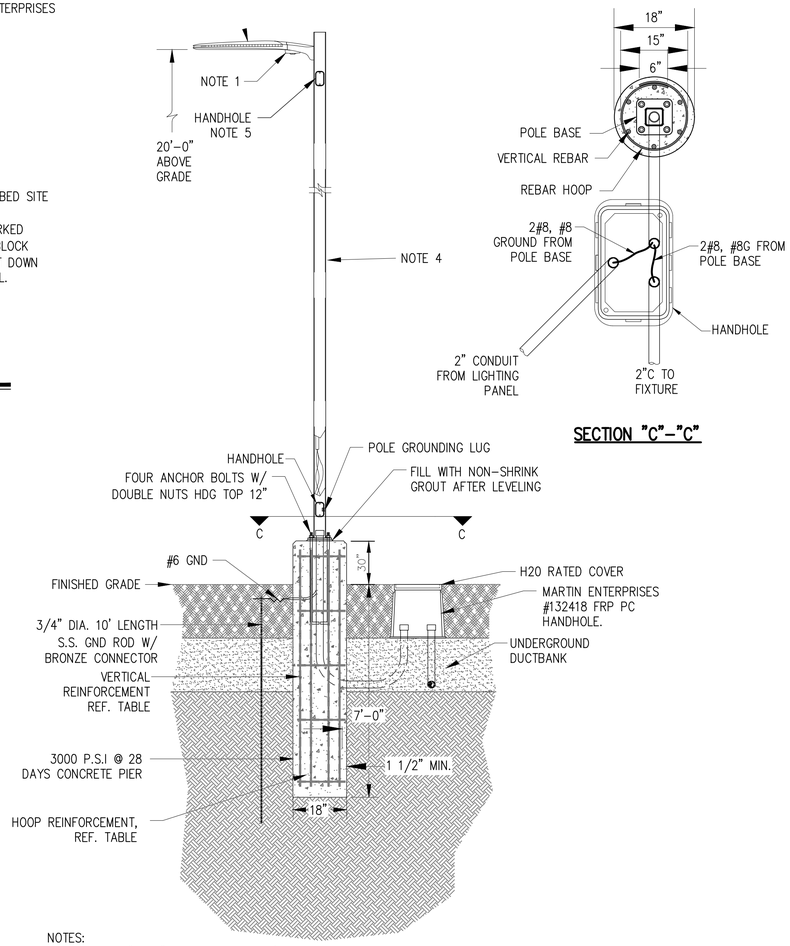
3/18 ELECTRICAL HANDHOLE DETAIL

SCALE: NOT TO SCALE



4/18 EMERGENCY STANDBY GENERATOR DETAIL

SCALE: NOT TO SCALE



NOTES:
1. LITHONIA "P1RH" BI–LEVEL MOTION/AMBIENT SENSOR ON EACH POLE.
2. MOTION/AMBIENT SENSOR SHALL UTILIZE 100% DIGITAL PASSIVE INFRARED TECHNOLOGY THAT IS TUNED FOR WALKING–SIZED MOTION WHILE PREVENTING FALSE TRIPPING FROM THE ENVIRONMENT.
3. MOTION/AMBIENT SENSOR SHALL BE PROGRAMMED TO BE FULL–ON AT DUSK AND SHALL RAMP DOWN TO 30% AT 10:00 PM. IF MOTION IS DETECTED, SENSOR SHALL RAMP UP TO FULL POWER IN 3 SECONDS. AFTER MOTION IS NO LONGER DETECTED A 5 MINUTE TIME DELAY BEGINS. WHEN TIME DELAY EXPIRES, LIGHTS RAMP DOWN TO 30% POWER AND WILL REMAIN AT LOW LEVEL SETTING UNTIL NEW MOTION IS DETECTED, AT WHICH POINT THE LUMINARIE RAMPS BACK UP TO 100% POWER. THIS CYCLE REPEATS ONCE THERE IS NO MOTION IN THE SPACE AGAIN. TEST % VERIFY OPERATION AFTER INSTALLATION.
4. POLE SHALL BE 4" SQUARE STRAIGHT STEEL RATED @ 100 MPH + 30% GUST FACTOR. POLE AND FIXTURE INSTALLATION SHALL UTILIZE THE SPECIFIED PRODUCTS. SHOULD A CONTRACTOR DESIRE TO SUBSTITUTE AN ALTERNATE LIGHT FIXTURE AND/OR POLE FOR THAT SPECIFIED, PRE–APPROVAL MUST BE GRANTED BY THE CITY AND THE ENGINEER AND A POINT–TO–POINT LIGHTING CALCULATION SHALL BE SUBMITTED FOR REVIEW. THIS DECISION TO ALLOW AN ALTERNATE WILL BE DETERMINED AFTER THE CONTRACT IS AWARDED.
5. PROVIDE HANDHOLE NEAR TOP OF POLE. MOUNT FUSE BLOCK NEAR UPPER HANDHOLE.

5/18 LIGHT FIXTURE & POLE INSTALLATION DETAIL

SCALE: NOT TO SCALE

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "O 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234–9411
WWW.KIMLEY–HORN.COM

MICHAEL A. COLOMBO R.C.E. 19280 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER MICHAEL ANTHONY COLOMBO No. 19280 ELECTRICAL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

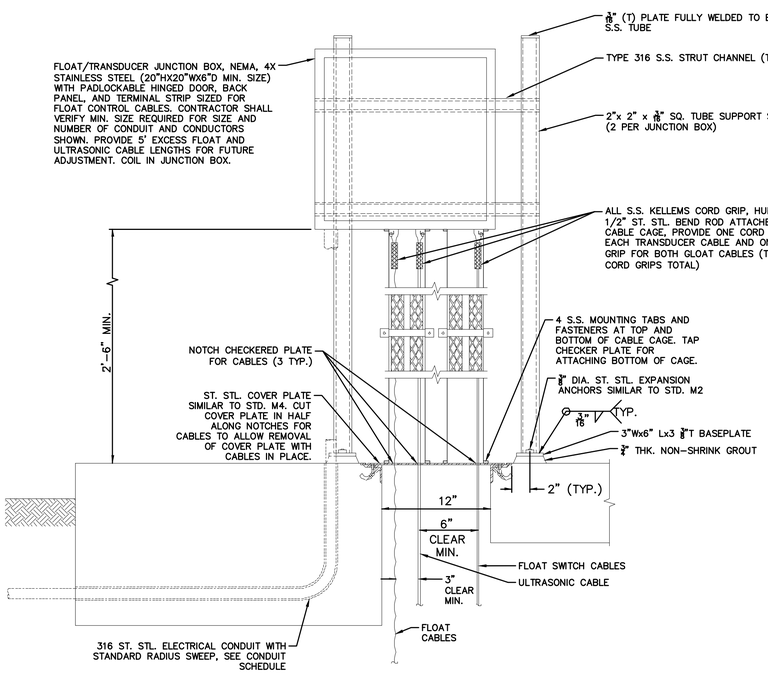
CITY OF BEAUMONT CALIFORNIA INC. NOV. 18, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769–8520 FAX: (951) 769–8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
ELECTRICAL DETAILS 1

SHEET 18 OF 38 SHEETS
FILE NO: 3387

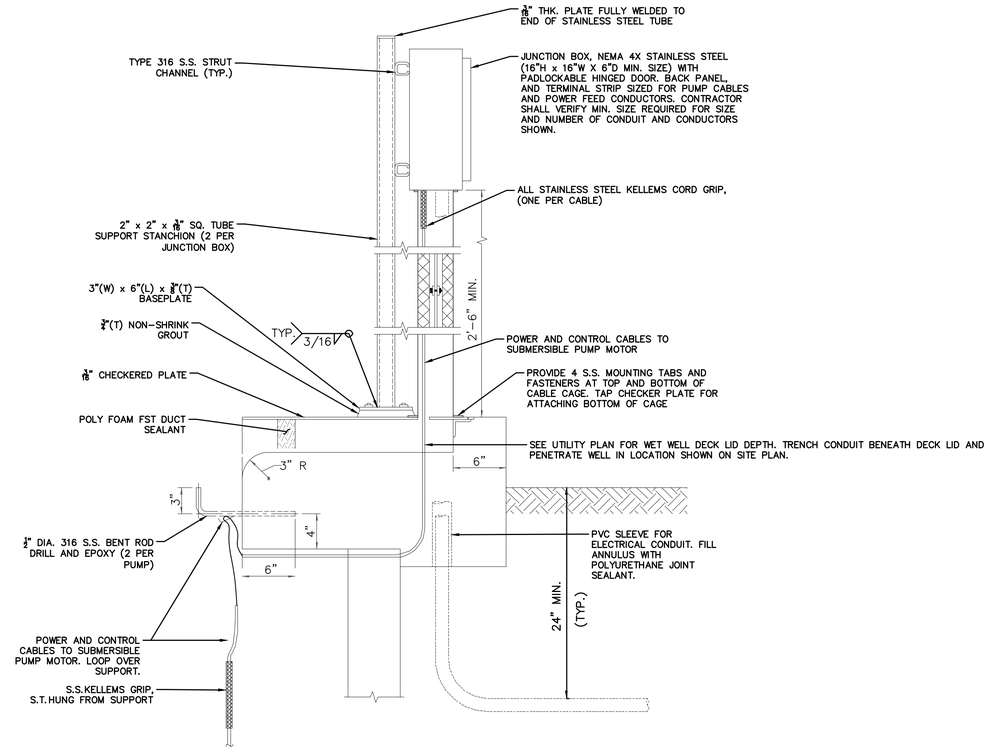


NOTES:

1. JUNCTION BOX SUPPORT STANCHIONS SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR CABLE CAGE TO THE CITY FOR APPROVAL PRIOR TO FABRICATION.
3. WET WELL SHAFT NOT SHOWN FOR CLARITY.
4. LEVEL TRANSDUCER CABLE CONTINUOUS TO LEVEL CONTROLLER IN MCP.
5. ELECTRICAL PULL BOX NOT SHOWN FOR CLARITY.

1/19 FLOAT SWITCH/LEVEL TRANSDUCER JUNCTION BOX DETAIL

NOT TO SCALE



NOTES:

1. JUNCTION BOX SUPPORT STANCHIONS SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR PUMP CABLE CAGE TO THE CITY FOR APPROVAL PRIOR TO FABRICATION.

2/19 PUMP POWER JUNCTION BOX DETAIL

NOT TO SCALE

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:

NATIONAL GEODETIC SURVEY BENCHMARK NO "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM ID#3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

MICHAEL A. COLOMBO
R.C.E. 19280
8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — MICHAEL ANTHONY COLOMBO — No. 19280 — ELECTRICAL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

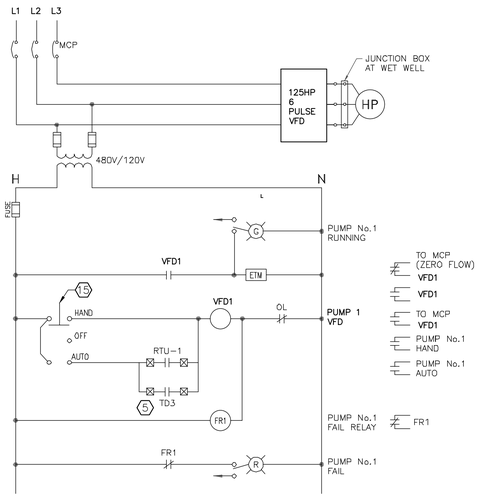
CITY OF BEAUMONT — CALIFORNIA — INC.NOV.18, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
ELECTRICAL DETAILS 2

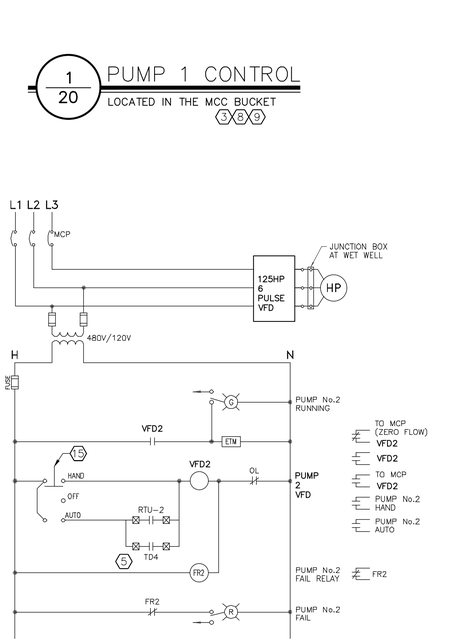
SHEET 19 OF 38 SHEETS
FILE NO: 3387



1/20 PUMP 1 CONTROL

LOCATED IN THE MCC BUCKET

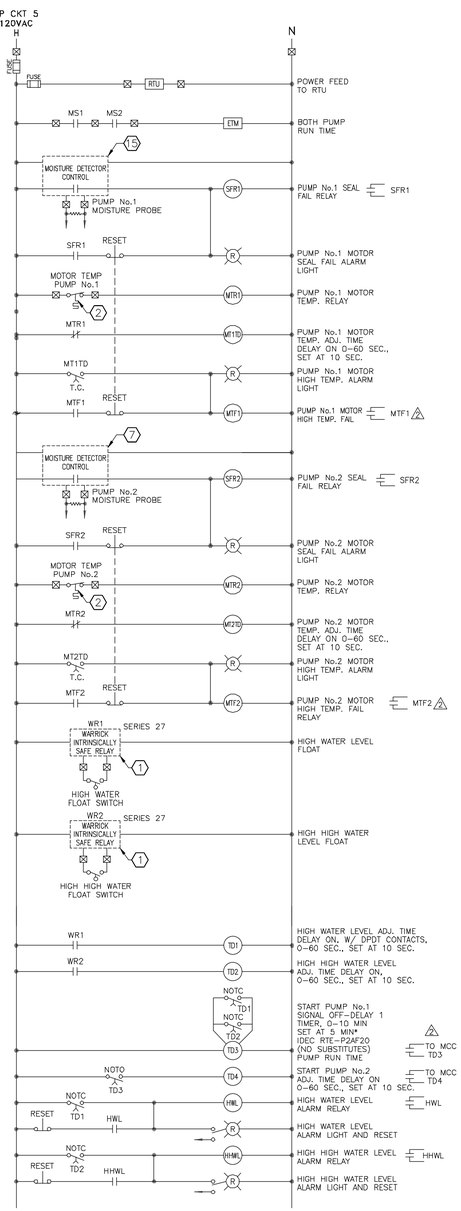
3 8 9



2/20 PUMP 2 CONTROL

LOCATED IN THE MCC BUCKET

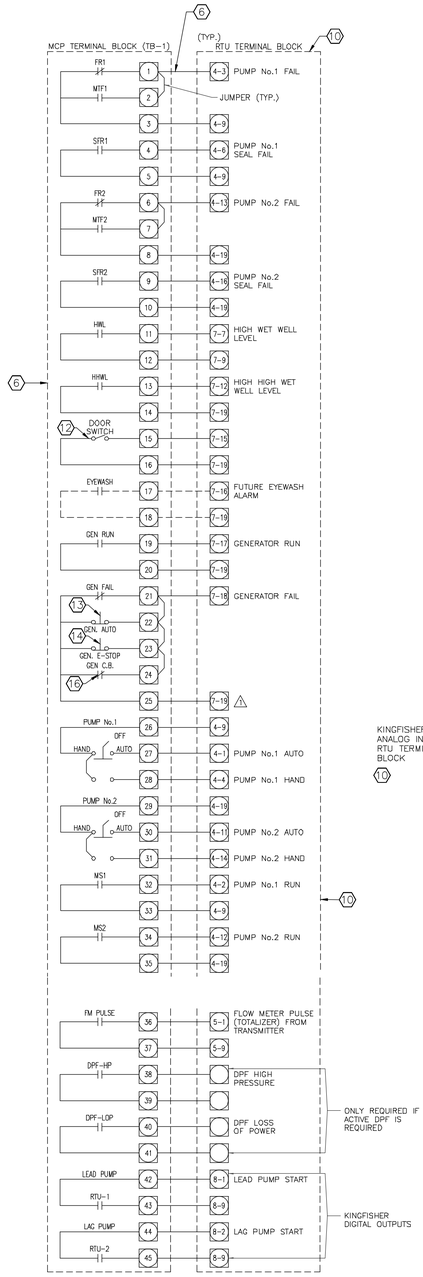
3 8 9



3/20 MCP CONTROL DIAGRAM

LOCATED IN THE MCP PANEL

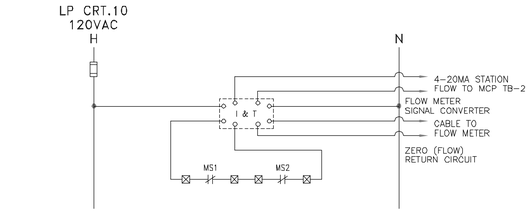
4 8 9



4/20 RTU DIGITAL I/O

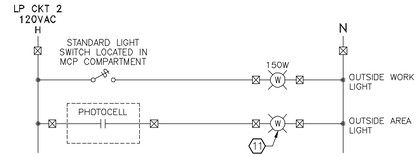
LOCATED IN THE MCP PANEL

4 8 9



7/20 FLOWMETER CONTROL

LOCATED IN THE MCP PANEL

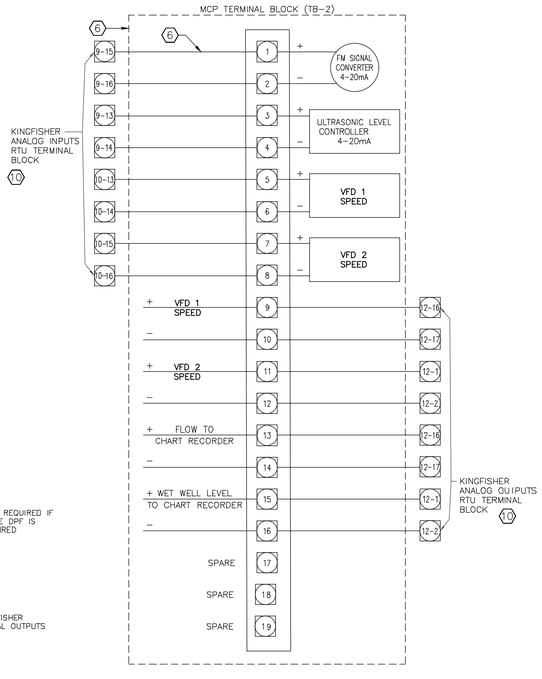


AREA/WORK LIGHT CONTROL DIAGRAM

LOCATED IN THE MCP PANEL

6/20 LIGHT CONTROL DIAGRAM

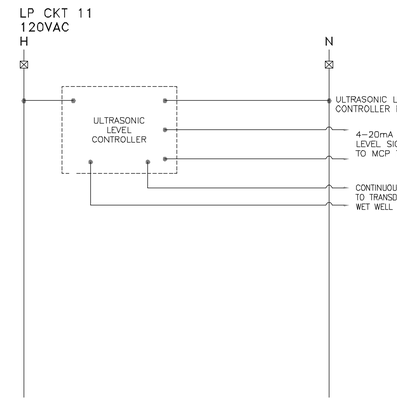
LOCATED IN THE MCP PANEL



5/20 RTU ANALOG I/O

LOCATED IN THE MCP PANEL

4 8 9



8/20 ULTRASONIC LEVEL CONTROL

LOCATED IN THE MCP PANEL

ELECTRICAL NOTES

1. WARRICK INTRINSICALLY SAFE RELAY (NO SUBSTITUTES)
2. NORMALLY CLOSED, OPENS ON HIGH TEMPERATURE
3. LIGHTS, STARTERS, ETM'S, OVERLOAD RELAYS, AND HOA SWITCHES SHALL BE LOCATED WITHIN MCC BUCKETS AS SHOWN HEREON
4. RELAYS, LIGHTS, SELECTOR SWITCHES, AND ETM SHALL BE LOCATED IN THE MAIN CONTROL PANEL AS SHOWN HEREON
5. USE CONTACT FROM TD3 FOR PUMP NO.1 AND TD4 FOR PUMP NO.2
6. CONTRACTOR TO PROVIDE TERMINAL BLOCKS TB-1 AND TB-2 IN MCP WIRED TO STATUS/ALARM SIGNALS AS SHOWN. CONTRACTOR SHALL CONNECT FROM MCP TERMINAL BLOCKS TO RTU TERMINAL BLOCK. CONTRACTOR SHALL TERMINATE CONDUCTORS ON RTU TERMINAL BLOCK AND LABEL CONDUCTORS USING WIRING NUMBER DESIGNATION SHOWN HEREON. (IE. 4-1, 4-4, ETC.)
7. MOISTURE DETECTION MODULE TO BE FURNISHED BY PUMP MANUFACTURER
8. ALL SELECTOR SWITCHES, PUSH BUTTONS, AND LIGHTS SHALL BE HEAVY DUTY NEMA 4/13. LIGHTS SHALL BE PUSH-TO-TEST TYPE.
9. CONTRACTOR SHALL SUBMIT A CONTROL PANEL LAYOUT DRAWING SHOWING ALL ALARM LIGHTS, SWITCHES, AND NAME PLATES FOR THE CITY'S REVIEW AND APPROVAL.
10. RTU, INCLUDING RTU TERMINAL BLOCK SHALL BE CITY FURNISHED, CONTRACTOR INSTALLED.
11. AREA LIGHT SHALL MEET THE REQUIREMENT OF THE COUNTY OF RIVERSIDE ORDINANCE NO.655.
12. DOOR SWITCH LOCATED ON RTU PANEL, TO BE CONNECTED TO RTU INPUT BY THE CITY.
13. GENERATOR HOA SWITCH, CLOSED WHEN HOA SWITCH IS IN AUTO POSITION
14. NORMALLY CLOSED CONTACT FROM GENERATOR EMERGENCY STOP PUSHBUTTON. OPEN CONTACT WHEN EMERGENCY STOP PUSHBUTTON IS DEPRESSED.
15. MULTIPLE CONTACT HOA SWITCH FOR "AUTO" AND "HAND" POSITION SIGNAL TO RTU.
16. NORMALLY CLOSED CONTACT FROM GENERATOR CIRCUIT BREAKER, OPEN CONTACT WHEN GENERATOR CIRCUIT BREAKER IS OPEN.

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:

NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311

1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.

ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

MICHAEL A. COLOMBO R.C.E. 19280 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — MICHAEL ANTHONY COLOMBO — No. 19280 — ELECTRICAL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC.NOV.15,1912

Reviewed By: _____ Staff Engineer Date: _____

Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021

Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
MOTOR CONTROL

SHEET 20 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION_Layout: Motor Control October 20, 2021 10:50:48am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - EL DELTA.dwg

CONDUIT SCHEDULE

CONDUIT			WIRE		FROM	TO	REMARKS
NO.	SIZE	TYPE	POWER	GROUND			
E-UTIL-1	3"	SCHED 40 PVC UG			UTILITY METER	UTILITY TRANSFORMER	CONTRACTOR TO COORDINATE UTILITY TRANSFORMER LOCATION
E-UTIL-2	3"	SCHED 40 PVC UG			UTILITY METER	UTILITY TRANSFORMER	CONTRACTOR TO COORDINATE UTILITY TRANSFORMER LOCATION
E-01A	2"	SCHED 40 PVC UG	4-#3/0 AWG	1-#4 GND	UTILITY METER	MCC MAIN BREKAER	PARALLEL SET TO ATS
E-01B	2"	SCHED 40 PVC UG	4-#3/0 AWG	1-#4 GND	UTILITY METER	MCC MAIN BREKAER	PARALLEL SET TO ATS
E-02A	2"	SCHED 40 PVC UG	4-#3/0 AWG	1-#4 GND	GENERATOR	ATS	PARALLEL SET TO ATS
E-02B	2"	SCHED 40 PVC UG	4-#3/0 AWG	1-#4 GND	GENERATOR	ATS	PARALLEL SET TO ATS
E-03A		RUN IN WIREWAY	4-#3/0 AWG	1-#4 GND	MCC MAIN BREKAER	ATS	RUN IN WIREWAY
E-03B		RUN IN WIREWAY	4-#3/0 AWG	1-#4 GND	MCC MAIN BREKAER	ATS	RUN IN WIREWAY
E-04	2.5"	SCHED 40 PVC UG	4-#3/0 AWG	1-#6 GND	MCC DISTRIBUTION BOARD	SITE ELECTRICAL PULL BOX	PUMP #1 POWER
E-05	2.5"	SCHED 40 PVC UG	4-#3/0 AWG	1-#6 GND	MCC DISTRIBUTION BOARD	SITE ELECTRICAL PULL BOX	PUMP #2 POWER
E-06	2.5"	SCHED 40 PVC UG	4-#3/0 AWG	1-#6 GND	SITE ELECTRICAL PULL BOX	PUMP #1 200A DISCONNECT	
E-07	2.5"	SCHED 40 PVC UG	4-#3/0 AWG	1-#6 GND	SITE ELECTRICAL PULL BOX	PUMP #2 200A DISCONNECT	
E-08	-	-	-	-	-	-	NOT USED
E-09	-	-	-	-	-	-	NOT USED
E-10	1"	SCHED 40 PVC UG	2-#12 AWG	1-#12 GND	SITE ELECTRICAL PULL BOX	FLOW METER	FLOW METER POWER
E-11	1"	SCHED 40 PVC UG	2-#12 AWG	1-#12 GND	SITE ELECTRICAL PULL BOX	SITE LIGHT	SITE LIGHTING
E-12	1"	RGS AG/SCHED 40 PVC UG	2-#10 AWG	1-#10 GND	PANEL A	SITE ELECTRICAL PULL BOX	FLOW METER POWER
			2-#10 AWG				SITE LIGHTING
E-13	1"	RGS AG/SCHED 40 PVC UG	2-#10 AWG	1-#10 GND	PANEL A	GENERATOR	GENERATOR BATTERY CHARGER
			2-#10 AWG				GENERATOR BLOCK HEATER
E-14	2"	RGS AG/SCHED 40 PVC UG	-	-	MCC DISTRIBUTION BOARD	FUTURE LIFT STATION PULL BOX	SPARE FOR FUTURE USE
E-15	3"	PVC COATED RGS	MFR CABLE		NEMA 4X POWER JB	PUMP #1	PENETRATE WET WELL PER DETAIL 2, SHEET 16.
E-16	3"	PVC COATED RGS	MFR CABLE		NEMA 4X POWER JB	PUMP #2	PENETRATE WET WELL PER DETAIL 2, SHEET 16.
E-17	1"	SCHED 40 PVC UG	2-#12 AWG	1-#12 GND	PANEL A	ODOR CONTROL PAD GFI RECEPTACLE	
C-00	1"	SCHED 40 PVC UG	4-PR #16 AWG		MCP	SITE COMMUNICATIONS PULL BOX	PUMP #1, PUMP #2 LEAK/OVERTEMP
C-01	1"	SCHED 40 PVC UG	4-PR #16 AWG		SITE COMMUNICATIONS PULL BOX	NEMA 4X FLOAT SWITCH JB	PUMP #1, PUMP #2 LEAK/OVERTEMP
C-02	1"	PVC COATED RGS	4-PR #16 AWG		NEMA 4X FLOAT SWITCH JB	NEMA 4X POWER JB	SPLICE MFTR PUMP POWER CABLE
C-03	1"	RGS AG/SCHED 40 PVC UG	MFR CABLE		MCP	SITE COMMUNICATIONS PULL BOX	FLOW METER 4-20Ma INSTANTANEOUS FLOW, TOTAL FLOW PULSE
C-04	1"	SCHED 40 PVC UG/ PVC COATED RGS	MFR CABLE		SITE COMMUNICATIONS PULL BOX	FLOW METER FM-100	FLOW METER 4-20Ma INSTANTANEOUS FLOW, TOTAL FLOW PULSE
C-05	1"	SCHED 40 PVC UG	MFR CABLE		MCP	SITE COMMUNICATIONS PULL BOX	US LEVEL SENSOR LE-100
C-06	1"	SCHED 40 PVC UG	MFR CABLE		SITE COMMUNICATIONS PULL BOX	NEMA 4X US SENSOR JB	US LEVEL SENSOR LE-100
C-07	1"	SCHED 40 PVC UG	8-PR #16 AWG		MCP	SITE COMMUNICATIONS PULL BOX	FLOAT SWITCHES LSLL, LSL, LSH, LSHH
C-08	1"	SCHED 40 PVC UG	8-PR #16 AWG		SITE COMMUNICATIONS PULL BOX	NEMA 4X FLOAT JB	FLOAT SWITCHES LSLL, LSL, LSH, LSHH
C-09	1"	SCHED 40 PVC UG	2-PR #16 AWG		ATS	GENERATOR	2-WIRE GENERATOR START/STOP SIGNAL
C-10	1"	SCHED 40 PVC UG	4-PR #16 AWG		MCP	GENERATOR	GENERATOR RUN, FAIL ALARMS, SPARES

1/21 CONDUIT SCHEDULE
SCALE: NOT TO SCALE

PANEL: PANEL A

VOLTAGE: 120/240
PHASE, WIRES: 1ø, 3W
SCCR (AMPS): 10,000
SOURCE: T-1

PANEL BUS: 40 AMPS
MAIN: 40A BREAKER

DESCRIPTION	VA	CB	CKT	A	B	CKT	CB	VA	DESCRIPTION
BUILDING INTERIOR LIGHTING	240	20/1	1	3.0		2	20/1	120	FLOW METER
BUILDING EXTERIOR LIGHTING	180	20/1	3		13.2	4	20/1	1400	RTU CABINET
LIGHTING CONTROL CABINET	180	20/1	5	3.5		6	20/1	240	GENERATOR BATTERY CHARGER
SITE LIGHTING	240	20/1	7		7.0	8	20/1	600	GENERATOR BLOCK HEATER
BUILDING RECEPTACLES	720	20/1	9	6.0		10			SPACE
BUILDING RECEPTACLES	720	20/1	11		6.0	12			
SITE RECEPTACLES	720	20/1	13	6.0		14			
BIOXIDE/ODOR CONTROL PUMP	600	20/1	15		5.0	16			
SPARE		20/1	17	0.0		18			
			19		0.0	20			
			21	0.0		22			
			23		0.0	24			
			TOTALS	18.5	31.2	AMPS			

LOAD CALCULATIONS:
SUBTOTAL (VA): 5960
+25% PER NEC (VA): 1490
TOTAL (VA): 7450 @ 240V, 1Ø = 31.1 AMPS

2/21 PANEL SCHEDULE
SCALE: NOT TO SCALE

MANUFACTURER: SCHNEIDER
EQUIPMENT LOCATION: ELECTRICAL ROOM
FED FROM: UTILITY

VOLTS/PHASE/WIRE 480V/3 PHASE/4W
MAIN BUS RATING: 400A
MAIN BREAKER (AMPS): 400A
AIC RATING (AMPS): 45,000

SECTION NO.	BREAKER SIZE	STARTER SIZE	FEEDER CABLE SIZE	EQUIPMENT NAME	KVA	HP	FLA	BREAKER TRIP RATING
1	150A	VFD		PUMP 1		105	125.0	
2	150A	VFD		PUMP 2		105	125.0	
3				7.5KVA TRANSFORMER	6		7.2	
4				AC CU 1	15		18.0	
5				AC AIR HANDLER	2		2.4	
FLA FOR NON-MOTOR LOAD (AMPS):							27.6	
FLA FOR MOTOR LOAD (AMPS):							250.0	
PLUS 25% OF LARGEST MOTOR:							31.3	
TOTAL AMPS							308.9	
SERVICE SIZE							400.0	
% LOADED (NO LARGER THAN 80% OF SELECTED LOAD SERVICE SIZE):							77%	

3/21 LOAD SUMMARY
SCALE: NOT TO SCALE

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

MICHAEL A. COLOMBO R.C.E. 19280 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — MICHAEL ANTHONY COLOMBO — No. 19280 — ELECTRICAL — STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC NOV. 16, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
ELECTRICAL SCHEDULES

SHEET 21 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout: Electrical Schedules October 20, 2021 - 10:50:48am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - EL DELTA.dwg

STRUCTURAL GENERAL NOTES

1.00 DESIGN LOADS

1.01 2019 CALIFORNIA BUILDING CODE (CBC), ASCE 7–16, ACI 318–14, AISC 360–16, TMS 402–16)

1.02 BUILDING RISK CATEGORY = II

1.03 DEFLECTION CRITERIA: SEE CBC TABLE 1604.3 AND PROJECT SPECIFICATIONS FOR VERTICAL DEFLECTION AND LATERAL DIRFT REQUIREMENTS.

1.04 LOADING INFORMATION

A. DEAD:	SELF WEIGHT + 10 PSF (INCLUDING ROOFING ELEMENTS + MECHANICAL)		
B. LIVE:	ROOF	=	20 PSF
	SIDEWALKS	=	250 PSF
C. SNOW:	IMPORTANCE FACTOR, I_S	=	1.0
	GROUND SNOW LOAD, P_G	=	5 PSF
D. WIND:	IMPORTANCE FACTOR, I_W	=	1.0
	WIND SPEED, V (SITE SPECIFIC):	=	97 MPH
	EXPOSURE CATEGORY	=	C
	INTERNAL PRESSURE COEFFICIENT, GC_{PI}	=	±0.18
	COMPONENTS AND CLADDING:		
	ROOF	=	17.5 PSF, –32 PSF (UPLIFT)
E. SEISMIC:	IMPORTANCE FACTOR, I_E:	=	1.0
	MAPPED SHORT PERIOD SPECTRAL ACCELERATION, S_S	=	1.688 G
	MAPPED 1–S PERIOD SPECTRAL ACCELERATION, S_1	=	0.659 G
	SITE CLASS	=	D
	SITE COEFFICIENT, F_A	=	1.0
	SITE COEFFICIENT, F_V	=	1.7
	SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION, S_{DS}	=	1.351 G
	1–S PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION, S_{D1}	=	0.747 G
	SEISMIC DESIGN CATEGORY	=	D
	MAIN SEISMIC FORCE RESISTING SYSTEM		
	CMU MCC BUILDING:		
	SPECIAL REINFORCED MASONRY SHEAR WALLS – EQUIVALENT LATERAL FORCE PROCEDURE		
	BASE SHEAR IN N–S DIRECTION, V_{NS}	=	7.32 KIPS
	BASE SHEAR IN E–W DIRECTION, V_{EW}	=	7.08 KIPS
	SEISMIC RESPONSE COEFFICIENT, C_S	=	0.27
	RESPONSE MODIFICATION FACTOR, R	=	5
	OVERSTRENGTH FACTOR, Ω_0	=	2.5
	DEFLECTION AMPLIFICATION FACTOR, C_D	=	3.5
	REDUNDANCY FACTOR, P	=	1.3

F. GEOTECHNICAL:

FOUNDATIONS, RETAINING AND BASEMENT WALLS, FOUNDATION DRAINAGE, SLABS ON GRADE AND OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED AND SHALL BE IN ACCORDANCE TO WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT "FINAL GEOTECHNICAL REPORT ON THE OBSERVATION AND TESTING OF REMEDIAL AND ROUGH GRADING, HIDDEN CANYON INDUSTRIAL PARK, BEAUMONT, CALIFORNIA.", PREPARED BY KLING CONSULTING GROUP, INC, DATED OCTOBER 1, 2019 AND THE CITY OF BEAUMONT DESIGN CRITERIA, BASED ON THE 2019 CBC VALUES

ALLOWABLE SOIL DESIGN PARAMETERS:

BEARING PRESSURE:	=	2000 PSF
SOIL LATERAL BEARING CAPACITY;	=	100 PCF
SOIL SLIDING COEFFICIENT;	=	0.25

2.00 DOCUMENTS AND LIMITATIONS

2.01 THESE STRUCTURAL DOCUMENTS, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, ARE INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF, AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY–HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY–HORN AND ASSOCIATES, INC.

2.02 IT IS UNDERSTOOD THAT THE STRUCTURAL ENGINEER OF RECORD MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE, EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH CURRENT, GENERALLY ACCEPTED PROFESSIONAL ENGINEER PRACTICES.

2.03 ALL NON–STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL TO THEIR RELATIONSHIPS TO STRUCTURAL ELEMENTS. THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) AND SPECIFICATIONS.

3.00 CONSTRUCTION SAFETY

3.01 IT IS UNDERSTOOD THAT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF ALL PERSONS AND PROTECT THEM FROM INJURY. LIKEWISE, THE CONTRACTOR SHALL PROTECT ALL PROPERTY AGAINST DAMAGE AND LOSS.

3.02 THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS. ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY.

3.03 THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS THE WORK IS SATISFACTORILY COMPLETED, AND THE ENGINEER HAS ISSUED A NOTICE TO THAT EFFECT TO THE OWNER AND THE CONTRACTOR.

4.00 FORMWORK AND SHORING

4.01 THE CONTRACTOR SHALL EMPLOY AT HIS EXPENSE, A FORMWORK/SHORING ENGINEER REGISTERED IN CALIFORNIA TO CONTROL ALL OPERATIONS RELATING TO DESIGN, INSTALLATION AND REMOVAL OF ALL FORMWORK AND SHORING.

4.02 CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FABRICATION, ERECTION, SUPPORT, AND BRACING OF FORMWORK AND SHORING PROCEDURES FOR THE ENGINEER'S RECORDS.

4.03 PRIOR TO THE PLACEMENT OF CONCRETE, THE FORMWORK/SHORING ENGINEER NEEDS TO INSPECT THE SHORING AFTER THE FIRST POUR (AND AGAIN IF THERE IS ANY CHANGE IN THE METHOD OF SHORING), TO VERIFY THAT THE SHORING INSTALLATION IS IN CONFORMANCE WITH THE SHORING SHOP DRAWINGS. A WRITTEN STATEMENT OF COMPLIANCE SIGNED BY THE SHORING ENGINEER SHALL BE SUBMITTED TO THE OWNER.

5.00 DIMENSIONS

5.01 BEFORE STARTING WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE SITE, AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

5.02 THE CONTRACTOR, BEFORE STARTING ANY WORK, SHALL CHECK ALL DIMENSIONS GIVEN ON THE STRUCTURAL DRAWINGS, RELATING TO GRID LINES, COLUMN AND WALL LOCATIONS, STRUCTURAL AND FINISHED FLOOR ELEVATIONS, MEMBER SIZES, ETC., WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS. IF ANY DISCREPANCY IS NOTICED, IT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER, AND WORK SHALL NOT COMMENCE UNTIL INSTRUCTIONS ARE RECEIVED FROM THE ENGINEER.

5.03 THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR HIS INSTRUCTIONS FOR ANY DIMENSION NOT GIVEN ON OR OBTAINABLE FROM THE DRAWINGS. THE CONTRACTOR SHALL NOT USE SCALE TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THESE DRAWINGS.

6.00 SHOP DRAWINGS

6.01 REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS LIMITED TO COMPLIANCE OF THE COMPLETED STRUCTURE WITH THE DESIGN CONCEPT AND INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS, QUANTITIES, PERFORMANCE, SAFETY, COORDINATION WITH OTHER WORKS, AND ALL OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS. REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT.

6.02 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR HIS REVIEW IN ACCORDANCE WITH A SCHEDULE OF SUBMITTALS ACCEPTABLE TO THE ENGINEER. THESE SHOP DRAWINGS SHALL HAVE BEEN CHECKED BY, AND STAMPED WITH THE APPROVAL OF, THE CONTRACTOR AND IDENTIFIED AS THE ENGINEER MAY REQUIRE. THE DATA SHOWN ON THE SHOP DRAWINGS SHALL BE COMPLETE WITH RESPECT TO DIMENSIONS, DESIGN CRITERIA, AND DULY SIGNED AND SEALED BY A PROFESSIONAL ENGINEER (WHERE APPLICABLE).

7.00 MASONRY

7.01 THE CONTRACTOR SHALL REFER TO FINISHES AND DOORS & ROOF DRAWINGS FOR ADDITIONAL DETAILS RELATING TO MASONRY WORK. CONTRACTOR SHALL FURTHER CHECK ANY DETAILS SHOWN ON STRUCTURAL DRAWINGS WITH THE FINISHES AND DOORS & ROOF DRAWINGS AND NOTIFY ENGINEER AND ARCHITECT OF ANY NOTED DISCREPANCIES.

7.02 CONCRETE MASONRY UNITS (CMU) SHALL BE ERECTED AS LOAD BEARING CONCRETE MASONRY. COMPLY WITH ACI 530.1 "SPECIFICATION FOR MASONRY STRUCTURES" FOR MATERIALS, METHODS, AND WORKMANSHIP AND ERECTION TOLERANCES.

7.03 PROVIDE CONCRETE MASONRY UNIT ASSEMBLIES (CMUS) AS INDICATED ON THE DRAWINGS THAT AS FOLLOWS:

A. CMUS SHALL CONFORM TO ASTM C90 WITH A MINIMUM AVERAGE NET–AREA COMPRESSIVE STRENGTH OF 1900 PSI.

B. WEIGHT CLASSIFICATION: MEDIUM WEIGHT, UNLESS OTHERWISE NOTED

C. SIZE: MANUFACTURED TO DIMENSIONS 3/8" LESS THAN NOMINAL DIMENSIONS

7.04 PROVIDE MORTAR AND GROUT MATERIALS AS INDICATED ON THE DRAWINGS AND CONFORMING TO THE REQUIREMENTS LISTED BELOW. ALL CELLS CONTAINING REINFORCEMENT, CELLS BELOW GRADE, AND ANY LOCATIONS NOTED ON THE DRAWINGS SHALL BE GROUTED SOLID. DO NOT USE ADMIXTURES, INCLUDING AIR–ENTRAINING AGENTS, ACCELERATORS, RETARDERS, WATER–REPELLENT AGENT, ANTIFREEZE COMPOUNDS, OR OTHER ADMIXTURES UNLESS OTHERWISE NOTED. DO NOT USE CALCIUM CHLORIDE IN MORTAR OR GROUT.

A. MORTAR FOR MASONRY ASSEMBLIES SHALL BE TYPE S, PCL MORTAR, CONFORMING TO ASTM C270.

B. GROUT FOR UNIT MASONRY SHALL BE FINE GROUT CONFORMING TO ASTM C476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (FM) OF 2000 PSI. GROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES AS MEASURED ACCORDING TO ASTM C143. COMPLY WITH TABLE 1.15.1 IN ACI 530.1 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHT.

7.05 LAY HOLLOW CONCRETE MASONRY UNITS IN A BOND PATTERN COMPLYING WITH THE ARCHITECTURAL DRAWINGS AND AS FOLLOWS:

A. WITH FACE SHELLS FULLY BEDDED IN MORTAR AND WITH HEAD JOINTS OF DEPTH EQUAL TO BED JOINTS.

B. WITH WEBS FULLY BEDDED IN MORTAR IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS.

C. WITH WEBS FULLY BEDDED IN MORTAR IN GROUTED MASONRY, INCLUDING STARTING COURSE ON FOOTINGS.

D. WITH ENTIRE UNITS, INCLUDING AREAS UNDER CELLS, FULLY BEDDED IN MORTAR AT STARTING COURSE ON FOOTINGS WHERE CELLS ARE NOT GROUTED.

7.06 PROVIDE VERTICAL REINFORCING AS NOTED PER THE CMU WALL REINFORCING SCHEDULE AND PER THE REQUIREMENTS BELOW. PROVIDE MATCHING DOWELS INTO THE FOOTING OR FOUNDATION CONSTRUCTION. PROVIDE TWO ADDITIONAL BARS AND DOWELS UNDER POINT LOADS, LINTELS AND BEAMS WHICH HAVE A REACTION EXCEEDING 10 KIPS, WHETHER OR NOT NOTED ON THE FRAMING PLANS.

A. ALL REBAR SHALL BE UNCOATED STEEL REINFORCING BARS: ASTM ASTM A615, GRADE 60

B. REINFORCING STEEL SHALL BE PLACED IN COMPLIANCE WITH ACI 530.1.

C. GROUT ALL CELLS CONTAINING REINFORCEMENT AND DO NOT PLACE GROUT UNTIL THE ENTIRE HEIGHT OF MASONRY TO BE GROUTED HAS ATTAINED ENOUGH STRENGTH TO RESIST GROUT PRESSURE. LIMIT HEIGHT OF VERTICAL GROUT POURS TO NOT MORE THAN 60".

D. PROVIDE AN OPEN BOTTOM BOND BEAM REINFORCED WITH (1) NO. 5 CONTINUOUS BARS AT THE FOLLOWING LOCATIONS AND AS NOTED ON THE DRAWINGS.

i. AT THE TOP OF ALL WALL ELEVATIONS.

ii. AT ALL JOIST AND FRAMING BEARING ELEVATIONS

iii. EQUALLY SPACED BETWEEN LATERAL SUPPORTS OR AT 10'–0" O.C. MAXIMUM VERTICALLY, IF THE DISTANCE BETWEEN LATERAL SUPPORTS EXCEEDS 10'–0"

7.07 PROVIDE MASONRY JOINT REINFORCING AT 16" O.C. VERTICALLY, IN ADDITION TO CONTINUOUS REINFORCEMENT, AND NOT MORE THAN 8" ABOVE AND BELOW OPENINGS IN MASONRY WALLS AND EXTENDING 12" BEYOND SAID OPENING. INTERRUPT JOINT REINFORCEMENT AT CONTROL AND EXPANSION JOINTS, UNLESS OTHERWISE INDICATED. CUT AND BEND REINFORCING UNITS AS DIRECTED BY MANUFACTURER FOR CONTINUITY AT CORNERS, RETURNS, OFFSETS, COLUMN FIREPROOFING, PIPE ENCLOSURES, AND OTHER SPECIAL CONDITIONS. JOINT REINFORCING SHALL CONSIST OF HOT–DIPPED GALVANIZED, CARBON STEEL CONFORMING TO ASTM A951 AND PER THE REQUIREMENTS BELOW:

A. JOINT REINFORCEMENT FOR SINGLE WYTHE WALLS SHALL CONSIST OF EITHER LADDER OR TRUSS TYPE WITH A SINGLE PAIR OF SIDE RODS. SIDE AND CROSS RODS SHALL BE W1.7" DIAMETER.

7.08 PROVIDE MASONRY LINTELS AS NOTED ON THE PLANS.

7.09 DURING CONSTRUCTION, COVER TOPS OF WALLS, PROJECTIONS, AND SILLS WITH WATERPROOF SHEETING AT END OF EACH DAY'S WORK. COVER PARTIALLY COMPLETED MASONRY WHEN CONSTRUCTION IS NOT IN PROGRESS.

7.10 DO NOT APPLY UNIFORM FLOOR OR ROOF LOADS FOR AT LEAST 12 HOURS AND CONCENTRATED LOADS FOR AT LEAST 3 DAYS AFTER BUILDING MASONRY WALLS OR COLUMNS.

7.11 DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST. DO NOT BUILD ON FROZEN SUBSTRATES. REMOVE AND REPLACE UNIT MASONRY DAMAGED BY FROST OR BY FREEZING CONDITIONS. COMPLY WITH COLD–WEATHER CONSTRUCTION REQUIREMENTS CONTAINED IN ACI 530.1.

7.12 COMPLY WITH HOT–WEATHER CONSTRUCTION REQUIREMENTS CONTAINED IN ACI 530.1.

7.13 ALL REINFORCEMENT SHALL BE DETAILED PER TMS 402

8.00 STRUCTURAL STEEL

8.01 DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS".

8.02 WIDE FLANGE MEMBERS SHALL CONFORM TO ASTM A992, GRADE 50.

8.03 ALL C CHANNELS, L ANGLES, STRUCTURAL PLATES AND BARS SHALL CONFORM TO ASTM A36, GRADE 36.

8.04 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 55. THE UPPER 1'–0" AND LOWER 6" SHALL BE THREADED. THE ENTIRE LENGTH OF BOLT SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A153.

8.05 ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1 STRUCTURAL WELDING CODE. RETURN ALL WELDS AT CORNERS A MINIMUM OF TWICE THE NORMAL SIZE OF THE WELD.

8.06 WELDING ELECTRODES SHALL BE E70XX UNLESS OTHERWISE NOTED.

8.07 NUTS SHALL BE HEAVY HEX NUTS CONFORMING TO ASTM A563.

8.08 WASHERS SHALL CONFORM TO ASTM F436.

8.09 ALL STEEL AND HARDWARE SHALL BE HOT–DIP GALVANIZED UNLESS OTHERWISE NOTED.

8.10 ALL CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA AND SHOP DRAWINGS SUBMITTED FOR REVIEW.

8.11 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL STEEL WORK, SHOWN IN CONTRACT DRAWINGS, TO THE ENGINEER FOR THEIR REVIEW.

8.12 OMIT PAINT ON CONTACT SURFACES WHERE BOLTS AND WELDS ARE USED TOGETHER IN A CONNECTION. BOLTS TO BE BEARING TYPE.

8.13 BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA A–325 BOLTS WITH THREADS INCLUDED IN THE SHEAR PLANE, UON. INSTALL BOLTS IN PROPERLY ALIGNED HOLES AND TIGHTEN USING ONE OF THE FOLLOWING METHODS: SNUG–TIGHT CONDITION, TURN–OF–THE–NUT METHOD, A DIRECT TENSION INDICATOR, OR CALIBRATED WRENCH AS DEFINED BY THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A–325 OR A490 BOLTS, 2014 EDITION".

8.14 THE BOLT SUPPLIER SHALL USE PAINT TO COLOR AND IDENTIFY UNIQUE BOLT SIZES AND GRADES. A MATCHING PAINT STRIPE SHALL BE MADE NEAR THE END OF EACH MEMBER THAT IS TO ACCEPT A UNIQUE BOLT SIZE OR GRADE.

8.15 HEADED–STUD TYPE CONNECTORS SHALL BE ASTM A–108, GRADES 1010 THRU 1020, COLD FINISHED CARBON STEEL; AWS D1.1, TYPE B.

8.16 ALL COPES, BLOCKS AND CUTS IN STRUCTURAL MEMBERS SHALL BE MADE FREE OF NOTCHES, OR OTHER AREAS THAT COULD CREATE STRESS CONCENTRATIONS. THE MINIMUM RADIUS AT CORNERS SHALL BE 1/2".

8.17 ALL FIELD SPLICES OF CONTINUOUS BEAMS AND COLUMNS SHALL BE COMPLETE JOINT PENETRATION WELDS, NO BOTTLED FIELD SPLICES WILL BE PERMITTED.

8.18 FABRICATOR SHALL PROVIDE A FIELD–WELD SCHEDULE SUMMARIZING MINIMUM PREHEAT, THE WELD FILLER MATERIAL, THE PROPER WELD DEPOSITION RATE AND WELDING MACHINE SETTINGS FOR EACH WELD THAT WILL BE UTILIZED IN THE FIELD.

9.00 POST-INSTALLED ANCHORS

9.01 UNLESS NOTED OTHERWISE INDICATED ON PLANS, POST–INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	
HILTI RE 500 SD	HILTI KWIK HUS EZ
HILTI HY 200 SAFE SET SYSTEM	HILTI KWIK BOLT TZ
GROUTED MASONRY	
HILTI HY 270	HILTI KWIK BOLT 3

9.02 SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.

9.03 INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

9.04 THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

9.05 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

9.06 EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS.

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234–9411
WWW.KIMLEY–HORN.COM

JUSTIN L. BRUE P.E. 87614 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY of BEAUMONT CALIFORNIA INC. NOV. 18, 1912

Reviewed By: _____ Staff Engineer Date: _____

Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021

Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769–8520 FAX: (951) 769–8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
GENERAL STRUCTURAL NOTES I

SHEET 22 OF 38 SHEETS
FILE NO: 3387

STRUCTURAL GENERAL NOTES

10.00 REINFORCED CONCRETE (CAST-IN-PLACE)

10.01 THE GENERAL CONTRACTOR SHALL ASSIST AND COOPERATE WITH AN INDEPENDENT TESTING LABORATORY (TO BE RETAINED BY THE OWNER) WHICH SHALL CONDUCT ALL OF THE SPECIFIED TESTS REQUIRED FOR THE CONCRETE WORK AND REPORT THE RESULTS OF THESE TESTS DIRECTLY AND PROMPTLY TO THE ENGINEER FOR HIS REVIEW.

10.02 DETAILING OF REBAR SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI DETAILING MANUAL, AND CONCRETE REINFORCING INSTITUTE'S LATEST EDITION OF "MANUAL OF STANDARD PRACTICE". ALL SHOP DRAWINGS PERTAINING TO REBAR DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW.

10.03 CONCRETE MIX DESIGN FOR ALL CONCRETE WORK IS REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW. IT IS TO BE NOTED THAT THE CONCRETE SUPPLIER SHALL HAVE A QUALITY CONTROL PROCEDURE FOR THE PRODUCTION OF ALL CONCRETE, WHICH MUST BE ACCEPTABLE TO THE ENGINEER AND MEETS CURRENT ACI STANDARDS.

10.04 CONSTRUCTION JOINTS SHALL BE AS APPROVED BY THE ENGINEER. ENGINEER SHALL BE INFORMED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONCRETE WORK.

10.05 COPY OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI SP 15 "FIELD REFERENCE MANUAL" SHALL BE KEPT IN THE PROJECT FIELD OFFICE AT ALL TIMES.

10.06 CONCRETE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS: CONCRETE EXPOSURE CLASS F1 FOR SPREAD FOOTINGS, WALL FOOTINGS, AND SLAB-ON-GRADE, SEE ACI 318-14 TABLE 19.3.1.1 AND TABLE 19.3.2.1.

SPREAD FOOTINGS: 4,000 PSI MAX	W/C RATIO:	0.45
WALL FOOTINGS: 4,000 PSI		0.45
SLAB-ON-GRADE: 4,000 PSI		0.45

10.07 CLEAR DISTANCE FROM FACE OF CONCRETE TO MAIN STEEL SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. WHERE CLEAR DISTANCE IS NOT SHOWN, ACI 301 SHALL CONTROL

10.08 PROVIDE 3/4 INCH CHAMFERS AT ALL EXPOSED EDGES UNO.

10.09 EMBEDDED ITEMS THAT WILL SUPPORT STRUCTURAL STEEL CONSTRUCTION SHALL BE PLACED WITHIN THE TOLERANCES PRESCRIBED IN THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE". GENERAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EMBEDDED ITEMS PRIOR TO FABRICATION AND DELIVERY OF STRUCTURAL STEEL TO THE PROJECT SITE.

10.10 BAR SUPPORTS, DESIGN, DETAILING, FABRICATION, AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318-14 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND THE LATEST EDITION OF THE ACI DETAILING MANUAL.

10.11 WHERE SHOWN OR SPECIFIED ON PLANS, PROVIDE STANDARD ACI 90-DEGREE OR 180-DEGREE HOOK, AS APPLICABLE.

10.12 REINFORCING: ASTM A615, GRADE 60, FOR SLABS, RETAINING / STAIR WALLS, AND FOUNDATIONS IS ACCEPTABLE. ALL REINFORCING TO BE A706 GRADE WHERE WELDING IS REQUIRED.

10.13 BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES AS SHOWN ON THE STRUCTURAL DRAWINGS.

10.14 CLEAR DISTANCE FROM FACE OF CONCRETE TO REINFORCING STEEL SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. WHERE CLEAR DISTANCE IS NOT ILLUSTRATED, ACI 301 REQUIREMENTS SHALL CONTROL.

10.15 ALL REINFORCEMENT SHOWN IS INTENDED TO BE CONTINUOUS UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE 40 BAR DIAMETERS FOR #5 AND SMALLER, 48 BAR DIAMETERS FOR #6 AND LARGER.

10.16 CORE DRILLING SHALL NOT BE ALLOWED THROUGH IN-PLACE CONCRETE ELEMENTS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. PENETRATIONS THROUGH CONCRETE ELEMENTS SHALL BE ILLUSTRATED ON SHOP DRAWINGS AND SHALL UTILIZE SCHEDULE 40 STEEL PIPE. CLEARANCE REQUIRED WITHIN PIPE SLEEVE SHALL BE CONFIRMED BY SUBCONTRACTOR RESPONSIBLE FOR THE MATERIAL PASSING THROUGH THE SLEEVE. REINFORCEMENT CLEAR COVER SHALL BE MAINTAINED AROUND THE SLEEVE PENETRATION.

10.17 FOLLOWING FOUNDATION PLACEMENT AND PRIOR TO STEEL ERECTION, THE CONCRETE CONTRACTOR SHALL PROVIDE THE STEEL ERECTOR WITH WRITTEN DOCUMENTATION STATING THAT COLUMN FOUNDATION ELEMENTS HAVE REACHED A MINIMUM OF 75% OF DESIGN COMPRESSIVE STRENGTH AND THAT ALL ANCHOR BOLT PLACEMENT IS IN CONFORMANCE WITH CONTRACT DOCUMENTS OR THAT REPAIRS WERE COMPLETED PER EOR DIRECTION. REFER TO 1926 OSHA REGULATIONS SUBPART R FOR ADDITIONAL DETAILS.

11.00 ELEVATED METAL DECK

11.01 ALL NOTES APPLY TO NONCOMPOSITE AND COMPOSITE METAL FLOOR DECKING WITH CONCRETE TOPPING AND UNTOPPED ROOF DECKING, UNLESS NOTED OTHERWISE.

11.02 REFER TO CONTRACT DRAWINGS FOR CONNECTION DETAILS AND DEFINITION OF PERIMETER AND CORNER AREAS.

11.03 METAL DECK SHALL BE PROVIDED IN LONGEST LENGTHS POSSIBLE, PROVIDED A MINIMUM OF 3-SPAN CONDITIONS IN ALL LOCATIONS.

11.04 STEEL DECK SHALL CONFORM TO ASTM A653 AND SDI DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS. STEEL DECK SHALL BE RECOGNIZED UNDER THE LATEST VERSION OF ICC-ES AC43 ACCEPTANCE CRITERIA FOR STEEL DECK, ROOF AND FLOOR SYSTEMS.

11.05 SHOP DRAWINGS INDICATING STEEL DECK LAYOUT, FASTENING METHOD AND PATTERN SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO STEEL DECK INSTALLATION.

11.06 CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE STEEL DECK IS NOT DAMAGED PRIOR TO INSTALLATION DURING STORAGE, HANDLING AND ERECTION. DAMAGED STEEL DECK SHALL BE REPLACED.

11.07 STEEL DECK SHALL BE STORED OFF THE GROUND WITH ONE END ELEVATED TO PROVIDE DRAINAGE AND SHOULD BE PROTECTED FROM THE ELEMENTS WITH A WATERPROOF COVERING VENTILATED TO PREVENT CONDENSATION.

11.08 STEEL DECK PANELS SHALL BE PLACED STRAIGHT AND TRUE WITH A MAXIMUM 1/4-INCH HORIZONTAL MISALIGNMENT IN 100 FEET LENGTH. STEEL DECK SHALL BE MARKED OVER JOIST CHORDS PRIOR TO FASTENING TO PREVENT WELD BURN THROUGH OR MECHANICAL FASTENER PUNCH THROUGH.

11.09 ENDLAPS OF STEEL DECK SHALL OVERLAP ADJACENT SHEETS A MINIMUM OF 2 INCHES UNLESS NOTED OTHERWISE.

11.10 FRAMING AROUND TYPICAL OPENINGS SHALL BE IN ACCORDANCE WITH STANDARD PRACTICE DETAILS PROVIDED IN SDI "MANUAL OF CONSTRUCTION WITH STEEL DECK."

11.11 NO MECHANICAL, ELECTRICAL, PLUMBING, ARCHITECTURAL OR MISCELLANEOUS ELEMENTS SHALL BE SUPPORTED FROM THE UNDERSIDE OF THE METAL DECK.

11.12 REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL ROOF OPENINGS, ROOF DRAIN DETAILS, SKYLIGHT AND ROOF HATCH DETAILS.

11.13 MECHANICAL FASTENERS:

A. INSTALL POWDER-ACTUATED FASTENERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

B. POWDER-ACTUATED FASTENERS SHALL BE MANUFACTURED FROM AISI 1070 MODIFIED STEEL, AUSTEMPERED TO A ROCKWELL C HARDNESS OF 52-58. FASTENERS SHALL HAVE MINIMUM TENSILE AND SHEAR STRENGTHS OF 285 KSI AND 182 KSI RESPECTIVELY.

C. POWDER-ACTUATED FASTENERS SHALL HAVE BALLISTIC POINTS AND KNURLED SHANKS AND MINIMUM 12-MILLIMETER DIAMETER STEEL WASHERS.

ABBREVIATIONS AND DEFINITIONS:

A	AREA
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BW	BOTTOM OF WALL
C/L	CENTERLINE
CBC	CALIFORNIA BUILDING CODE
CHP	CHAPTER
CIP	CAST-IN-PLACE
CL	CENTERLINE
CLR	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
CY	CUBIC YARD
DIA	DIAMETER
DTL	DETAIL
EA	EACH
EF	EACH FACE
EG	EXISTING GROUND
EL, ELEV	ELEVATION
EW	EACH WAY
EX	EXISTING
FG	FINISHED GROUND
FT	FEET, FOOT
H	HEIGHT, HIGH
IN	INCHES
KH, KHA	KIMLEY-HORN AND ASSOCIATES, INC.
KSI	KIPS PER SQUARE INCH
L	LENGTH, LONG
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PCC	PORTLAND CEMENT CONCRETE
PE	PROFESSIONAL ENGINEER
PL	PLATE
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
REINF	REINFORCEMENT
RT	RIGHT
SDI	STEEL DECK INSTITUTE
SE	STRUCTURAL ENGINEER
SEC	SECTION
SF	SQUARE FEET
SI	SPECIAL INSPECTION/INSPECTOR
SQ	SQUARE, SQUARED
STD	STANDARD
T	THICK
TW	TOP OF WALL
TYP	TYPICAL
T&B	TOP AND BOTTOM
UON	UNLESS OTHERWISE NOTED
W	WIDE
W/C	WATER TO CEMENT
&	AND
ø	DIAMETER
'	FEET
"	INCHES

STEEL SPECIAL INSPECTION TABLE

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCE	QUALIF.
1. REVIEW SHOP FABRICATION AND QUALITY CONTROL PROCEDURES.	X	–	IBC 1704.2.5.1	AWS/AISC –SSI ICC–SWSI
PRE–WELD INSPECTION				
2. VERIFY WELDER QUALIFICATION RECORDS, WELDER CONTINUITY RECORDS, AND MATERIAL IDENTIFICATION (TYPE/GRADE).	–	X	AISC 360: N3.2, N5.2 & N5.4	AWS/AISC –SSI ICC–SWSI
3. VERIFY AVAILABILITY OF WELDING PROCEDURE SPECIFICATION & MATERIAL CERTIFICATIONS OF WELDING CONSUMABLES.	X	–	AISC 360: N3.2, N5.2 & N5.4	AWS/AISC –SSI ICC–SWSI
4. INSPECT FIT–UP GROOVE WELDS, CJP GROOVE WELDS OF HSS T–, Y–, AND K–JOINTS WITHOUT BACKING, AND FILLET WELDS. INSPECT CONFIGURATION OF AND FINISH OF ACCESS HOLES.	–	X	AISC 360: N3.2, N5.2 & N5.4	AWS/AISC –SSI ICC–SWSI
DURING WELDING INSPECTION				
5. INSPECT PRE–HEAT, POST–HEAT, SURFACE PREPARATION. VERIFY PROPER ELECTRODE USE, CHARPY V–NOTCH TEST WELDS WHERE REQUIRED.	–	X	AISC 360: N3.2, N5.2 & N5.4	AWS/AISC –SSI ICC–SWSI
6. VERIFY WELDING PROCEDURE SPECIFICATIONS (WPS) ARE FOLLOWED AND VERIFY REQUIRED TECHNIQUES.	–	X	AISC 360: N3.2, N5.2 & N5.4	AWS/AISC –SSI ICC–SWSI
POST WELDING INSPECTION				
7. TEST 10% OF ALL COMPLETE AND PARTIAL PENETRATION WELDS 5/16" OR GREATER	–	X	–	AWS/AISC –SSI ICC–SWSI
BOLTING INSPECTION				
8. INSPECT INSTALLATION AND TIGHTENING OF HIGH–STRENGTH BOLTS. VERIFY THAT SPLINES HAVE SEPARATED FROM TENSION CONTROL BOLTS. VERIFY PROPER TIGHTENING SEQUENCE.	–	X	AISC 360: N5.6	AWS/AISC –SSI ICC–SWSI
9. INSTALLATION OF BOLTS IN SLIP–CRITICAL CONNECTIONS SHALL BE MONITORED CONTINUOUSLY EXCEPT AS ALLOWED PER AISC 360: N5.6	X	–	AISC 360: N5.6	AWS/AISC –SSI ICC–SWSI
MISC. STEEL INSPECTIONS				
10. VISUALLY INSPECT SIZE, NUMBER, POSITIONING AND WELDING OF SHEAR CONNECTORS. SOUND TEST ALL SHEAR CONNECTORS AND BEND TEST ALL QUESTIONABLE CONNECTORS. BEND TEST 15% OF SHEAR CONNECTORS TO 15 DEGREES FROM ORIGINAL AXIS.	–	X	AWS D1.1 SECTIONS 7.7 & 7.8	AWS–CWI ASNT
11. INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATION & CONNECTION DETAILS.	–	X	–	PE/SE
12. VERIFY WELDING CERTIFICATIONS. INSPECT WELDING AND SIDE–LAP FASTENING OF METAL ROOF AND FLOOR DECK.	–	X	IBC 1705.2.2, SDI–QA/QC	AWS–CWI

SOIL SPECIAL INSPECTION TABLE

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	–	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	X	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	–	X
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	–	X

CONCRETE SPECIAL INSPECTION TABLE

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	CBC REFERENCE
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	–	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1 – 26.6.3	1908.4
2. INSPECT ANCHORS CAST IN CONCRETE	–	X	ACI 318: 17.8.2	–
3. INSPECT AND TEST ANCHOR POST INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	X X		ACI 318: 17.8.2.4 ACI 318: 17.8.2	–
4. VERIFY USE OF REQUIRED DESIGN MIX.	–	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X	ACI 318: 26.5.3 –26.5.5	1908.9
6. VERIFY IN–SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF FORMS FROM STRUCTURAL SLABS.	–	X	ACI 318: 26.11.2	–
7. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	–	X	ACI 318: 26.11.1.2(B)	–

MASONRY SPECIAL INSPECTION TABLE

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	TMS 402/ ACI530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTAL.	–	X	–	ART. 1.5
BEFORE MASONRY CONSTRUCTION				
2. CONSTRUCTION MORTAR JOINTS	–	X	–	ART. 3.3 B
3. LOCATION OF REINFORCEMENT AND EMBEDS	–	X	–	ART. 3.4, 3.6 A
PRIOR TO GROUTING				
4. GROUT SPACE	–	X	–	ART. 3.2 D, 3.2 F
5. GRADE, TYPE, AND SIZE OF REINFORCEMENT	–	X	SECTION 6.1	ART. 2.4, 3.4
6. PLACEMENT OF REINFORCEMENT AND EMBEDS	–	X	SECTIONS 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2 E, 3.4, 3.6 A
7. PROPORTIONS OF SITE–PREPARED GROUT	–	X	–	ART. 2.6 B, 2.4 G.1.B
8. CONSTRUCTION OF MORTAR JOINTS	–	X	–	ART. 3.3 B
VERIFY DURING CONSTRUCTION				
9. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	–	X	–	ART. 3.3 F
10. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	–	X	–	ART. 1.8C, 1.8D
11. PLACEMENT OF GROUT	X	–	–	ART. 3.5, 3.6 C
12. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	–	X	–	ART. 1.4 B2.A.3, 1.4 B.2.B.3, 1.4 B.2.C.3, 1.4 B.3, 1.4 B.4

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01. (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE P.C.E. 87614 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC.NOV.18, 1912

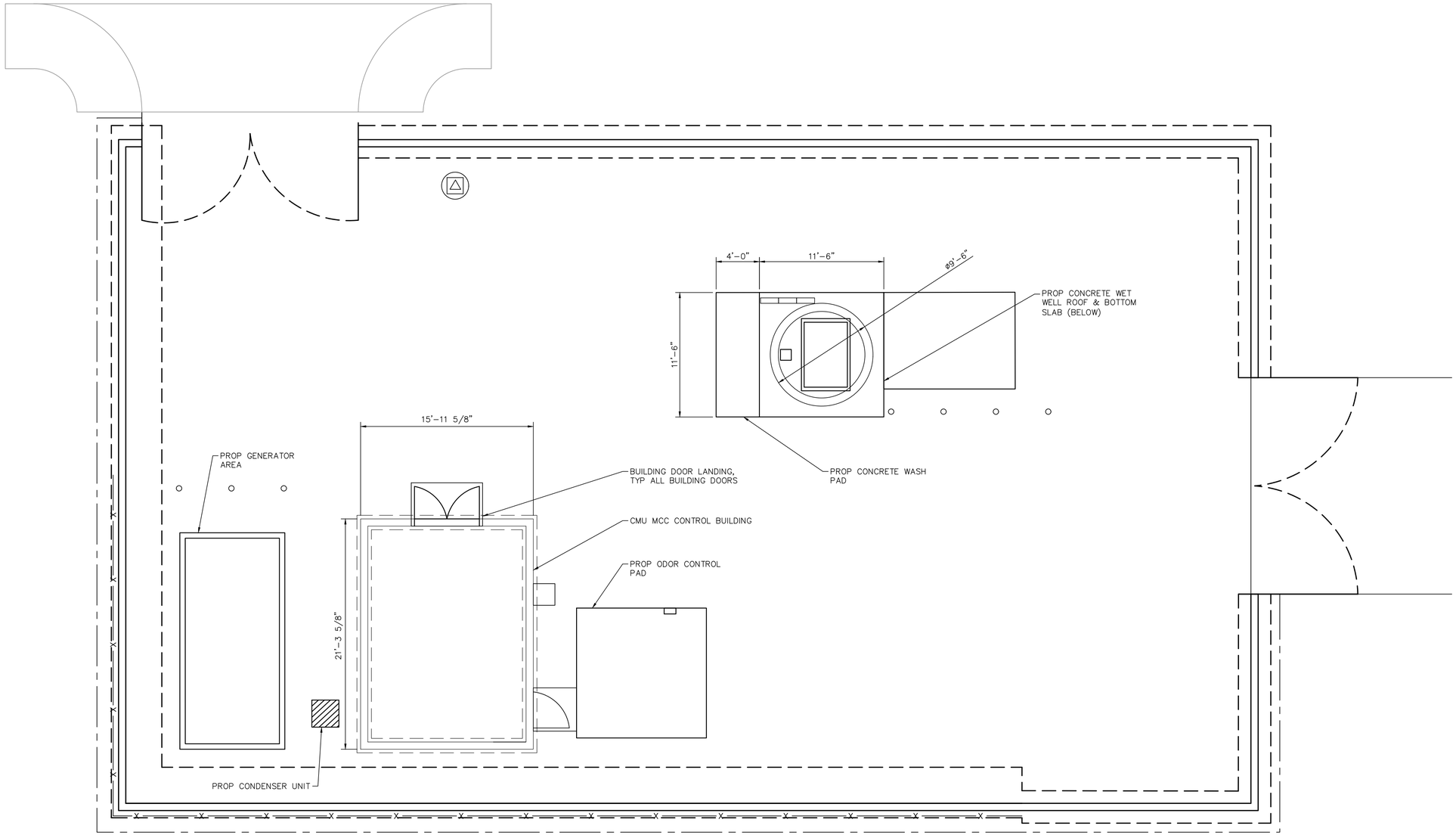
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
GENERAL STRUCTURAL NOTES II

SHEET 23 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout: S GEN NOTES II October 20, 2021 10:48:48am K:\ENG_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xST.dwg



1/24 STRUCTURAL SITE PLAN

SCALE: 1" = 5'-0"

NORTH

GRAPHIC SCALE IN FEET
0 2.5 5 10

Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout: STRUCTURAL SITE PLAN October 20, 2021 10:45:51am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xST.dwg

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 350B BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01", USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE
R.C.E. 87614
8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

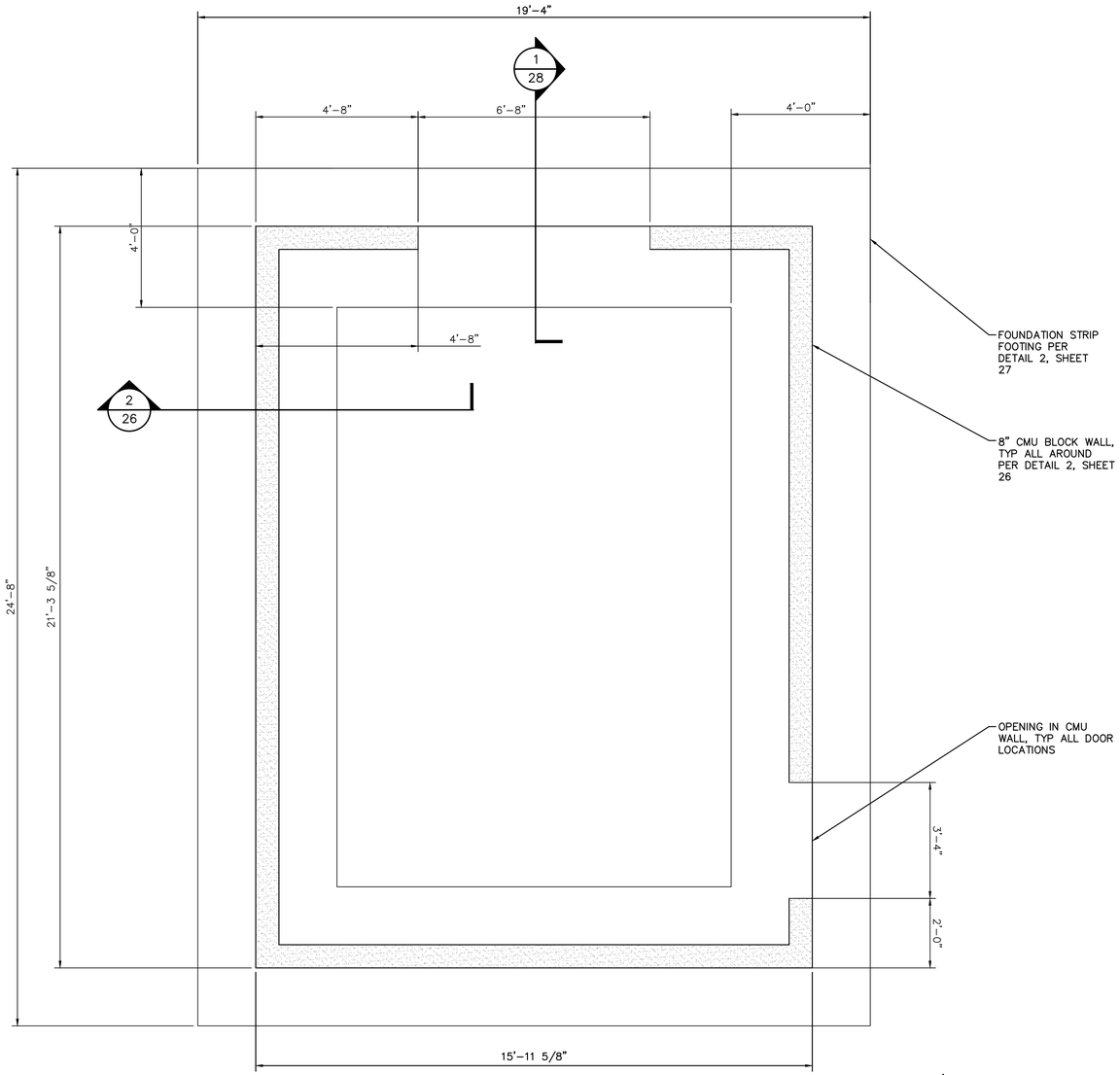
CITY of BEAUMONT CALIFORNIA INC.NOV.18,1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

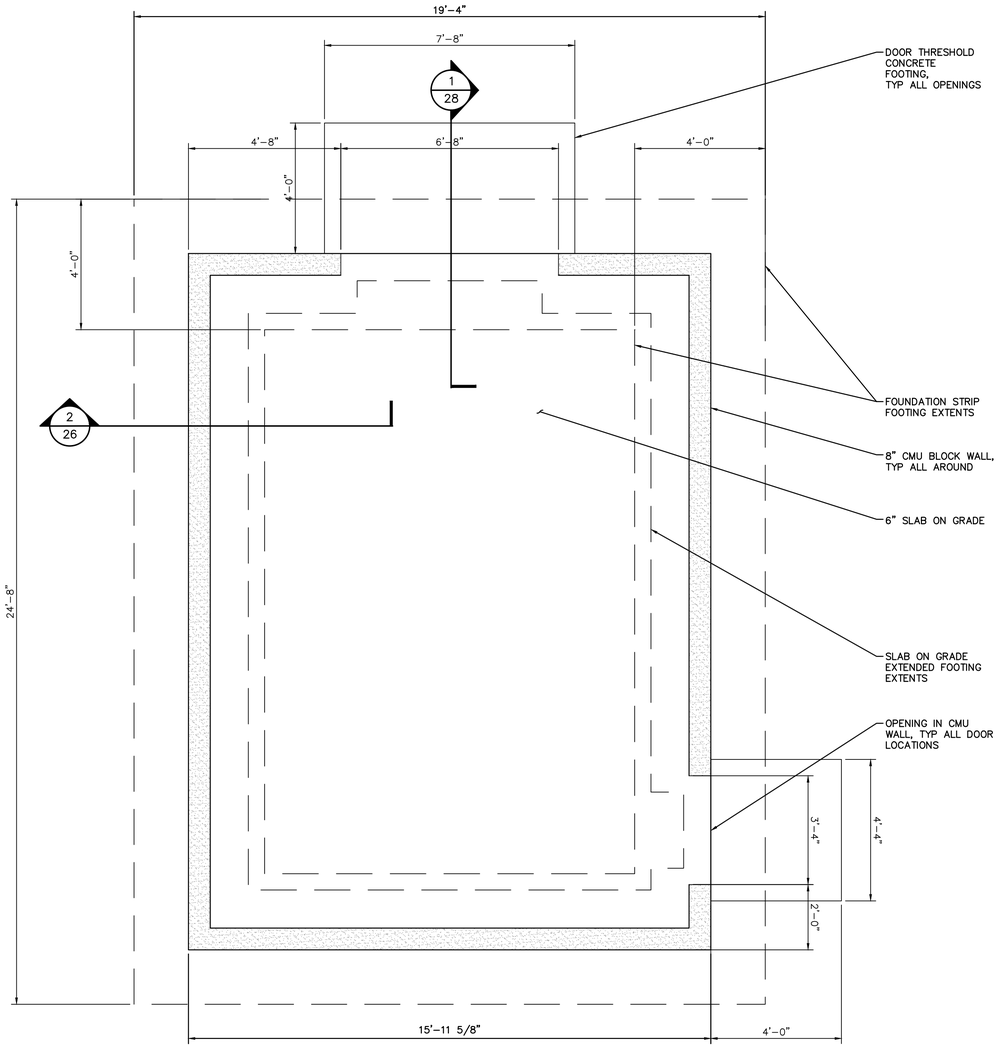
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
STRUCTURAL SITE PLAN

SHEET 24 OF 38 SHEETS
FILE NO: 3387



1/25 BUILDING FOUNDATION PLAN

SCALE: 1/2" = 1'-0"



2/25 BUILDING SLAB ON GRADE PLAN

SCALE: 1/2" = 1'-0"

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:

NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311

1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE. 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.

ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE P.E. 87614 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — JUSTIN L. BRUE — C87614 — CIVIL — STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY OF BEAUMONT CALIFORNIA INC.NOV.18,1912

Reviewed By: _____ Staff Engineer Date: _____

Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021

Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

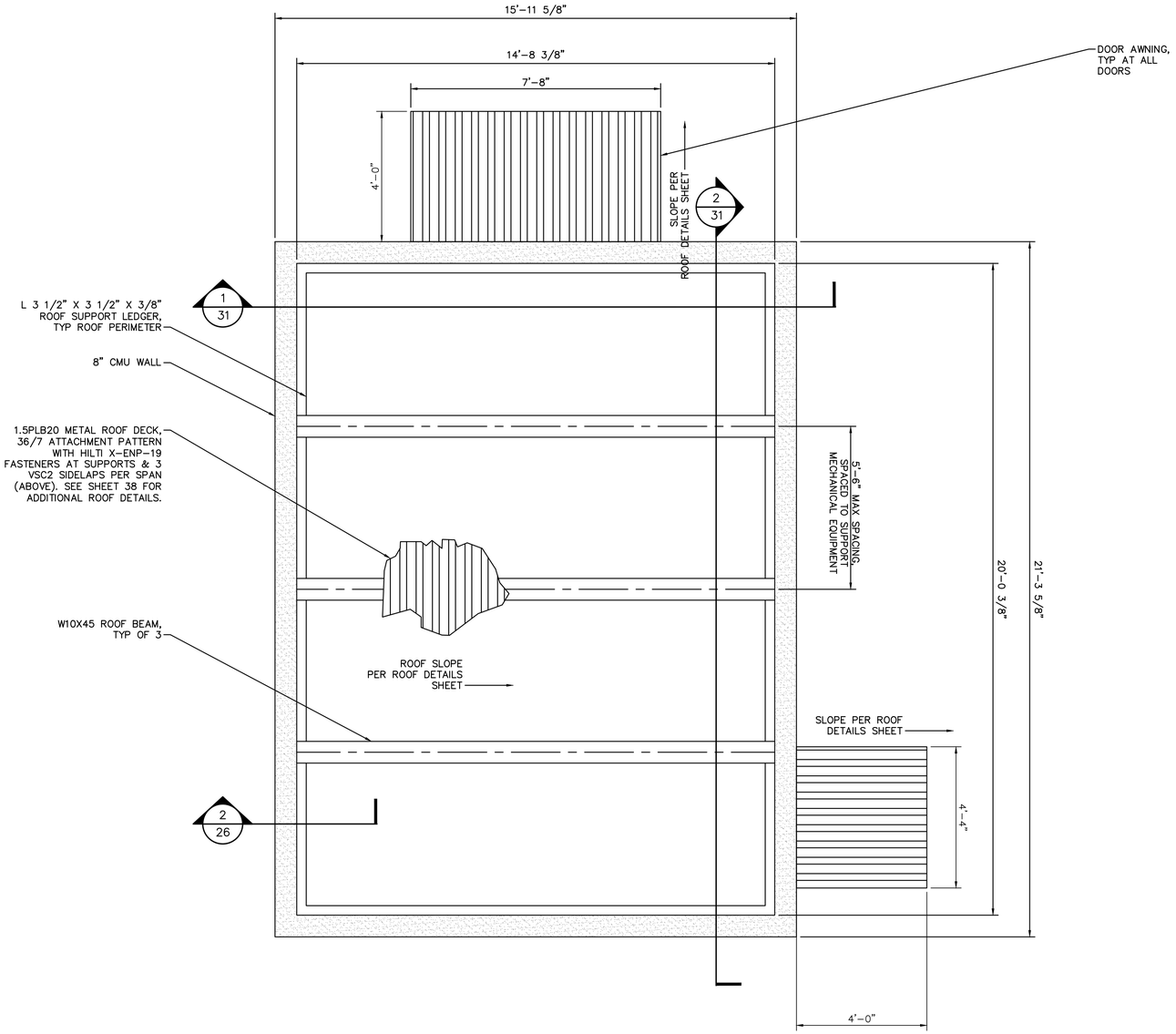
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:

BEAUMONT CROSSROADS LIFT STATION

MCC BUILDING FOUNDATION PLAN

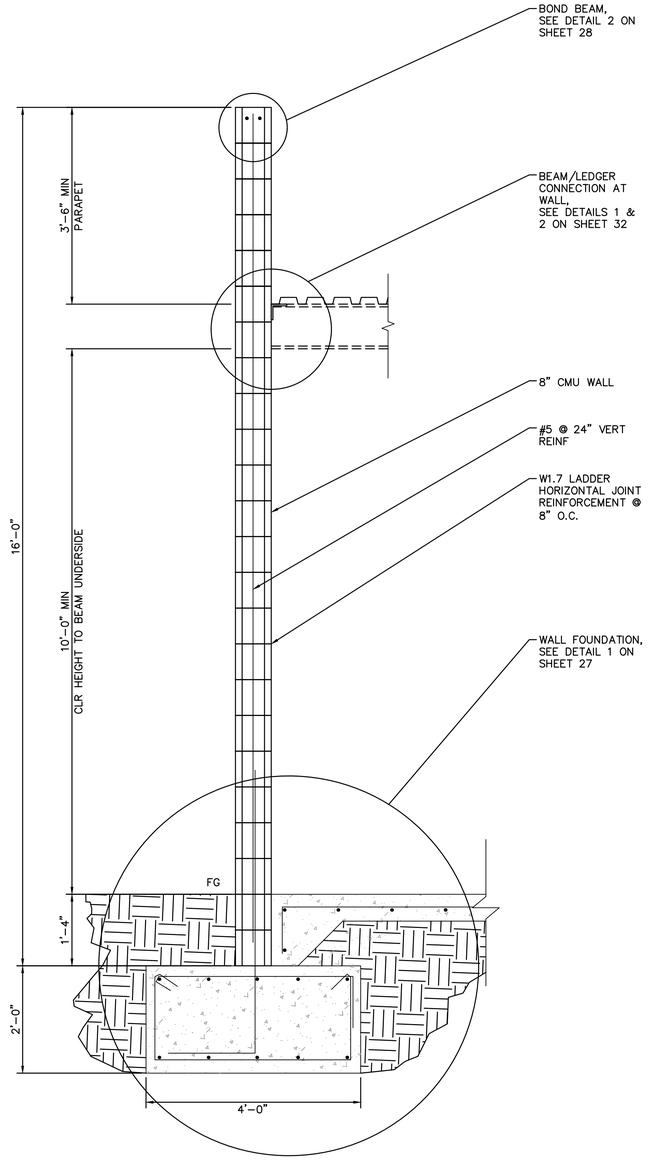
SHEET 25 OF 38 SHEETS

FILE NO: 3387



1/26 BUILDING ROOF PLAN

SCALE: 1/2" = 1'-0"



2/26 TYPICAL BUILDING WALL SECTION

SCALE: 3/4" = 1'-0"

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:

NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311

1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.

ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn

401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE P.E. 87614 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY OF BEAUMONT CALIFORNIA INC NOV 16, 1912

Reviewed By: _____ Staff Engineer Date: _____

Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021

Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

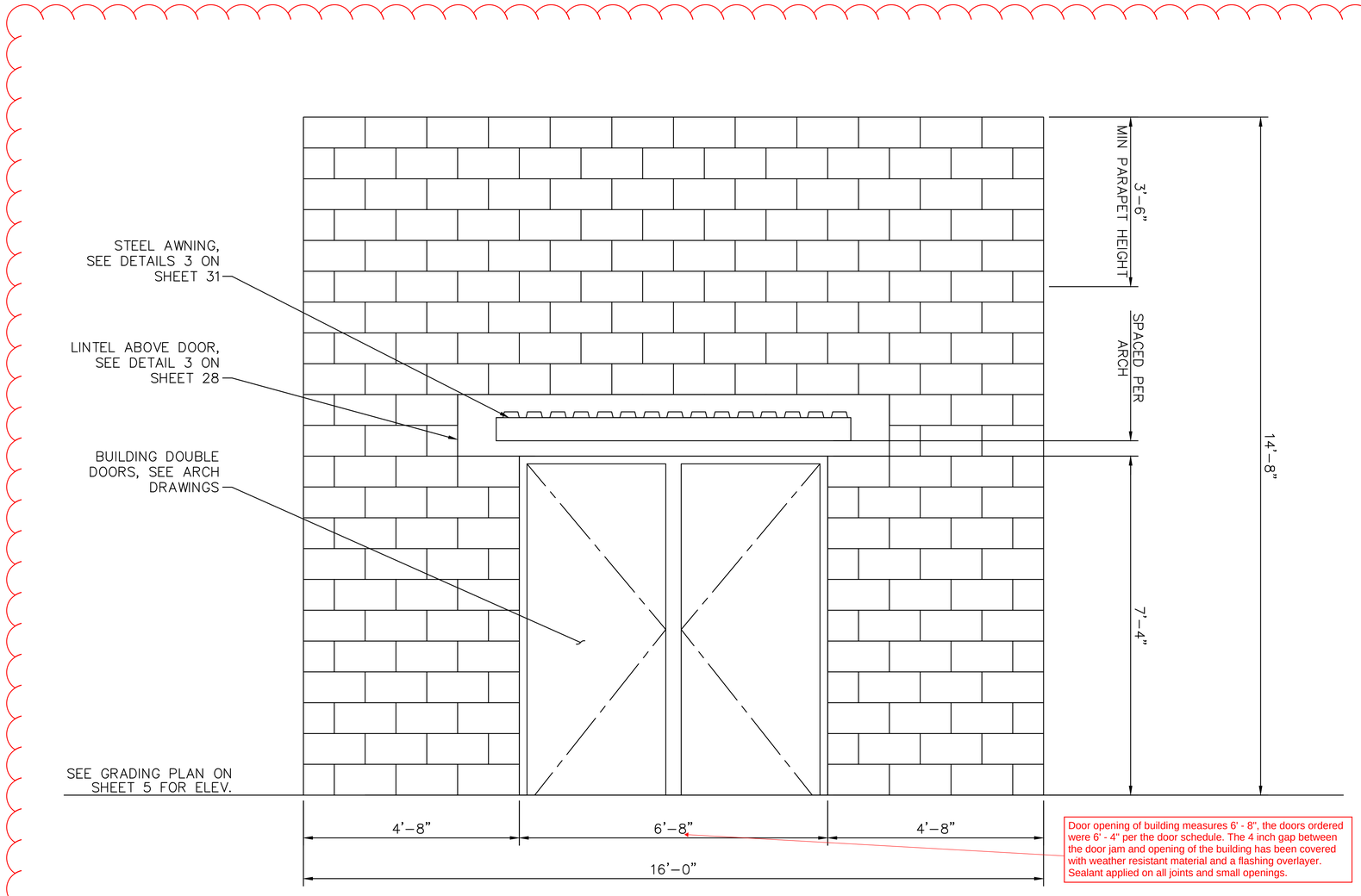
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:

BEAUMONT CROSSROADS LIFT STATION

MCC BUILDING ROOF PLAN

SHEET 26 OF 38 SHEETS

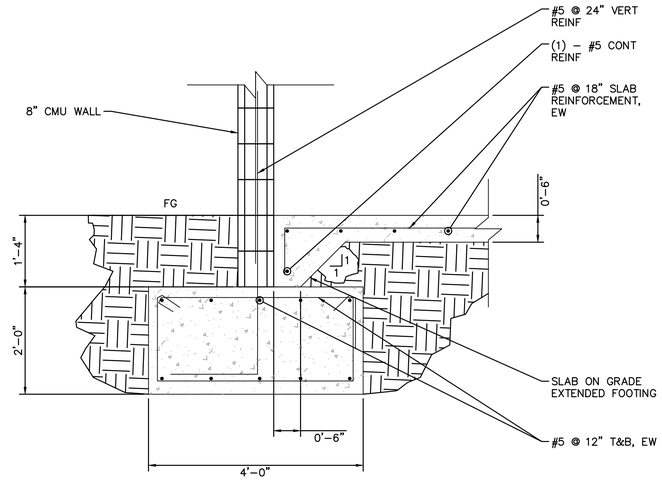
FILE NO: 3387



Door opening of building measures 6' - 8", the doors ordered were 6' - 4" per the door schedule. The 4 inch gap between the door jam and opening of the building has been covered with weather resistant material and a flashing overlayer. Sealant applied on all joints and small openings.

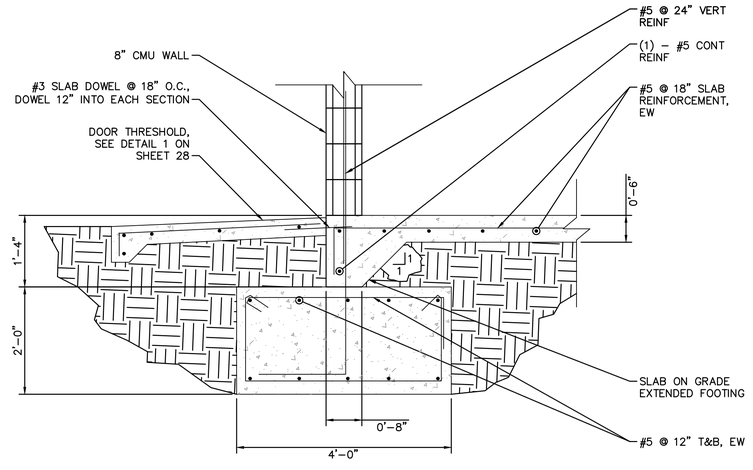
NORTH ELEVATION

SCALE: 3/4" = 1'-0"



1/27 WALL FOUNDATION

SCALE: 3/4" = 1'-0"



2/27 WALL FOUNDATION AT DOORWAY

SCALE: 3/4" = 1'-0"

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "O 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07), ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE P.E. 87614 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — JUSTIN L. BRUE — C87614 — CIVIL — STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

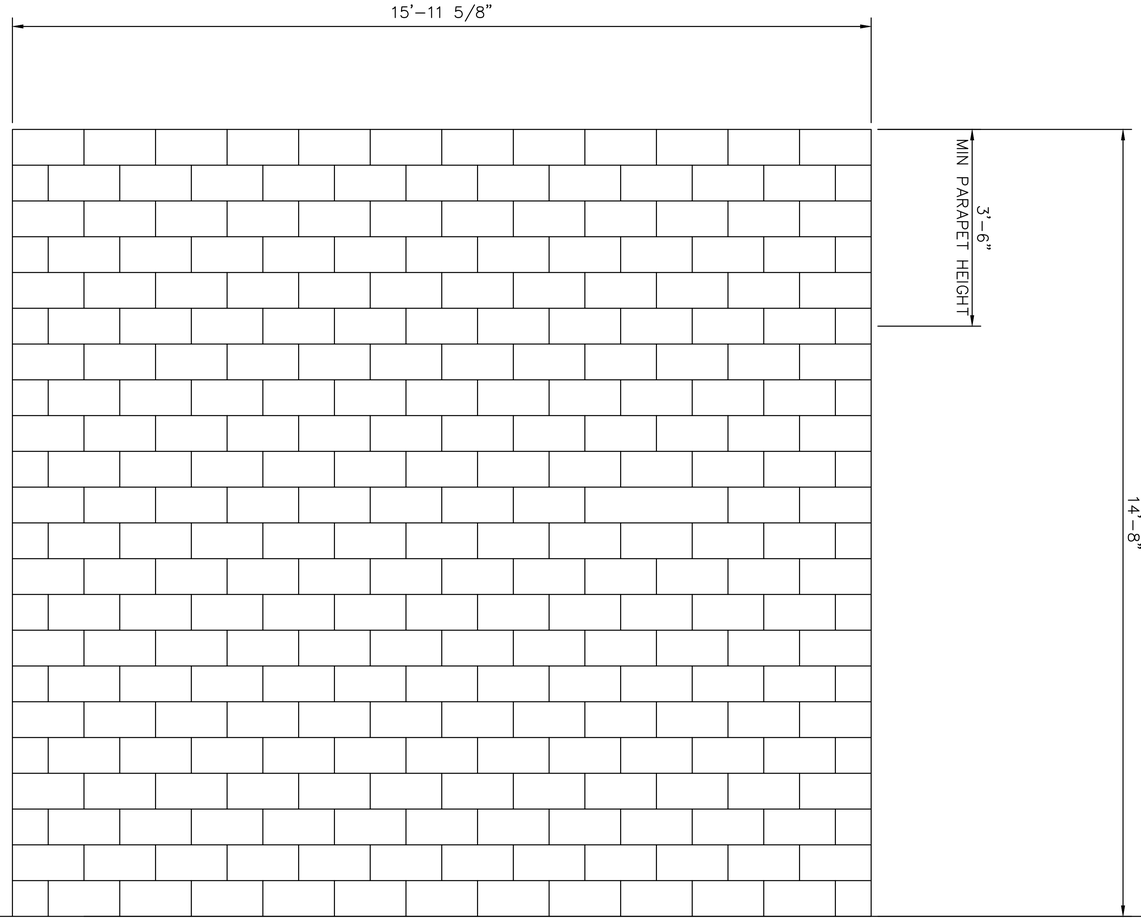
CITY of BEAUMONT CALIFORNIA INC NOV 15, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
MCC BUILDING ELEVATION I

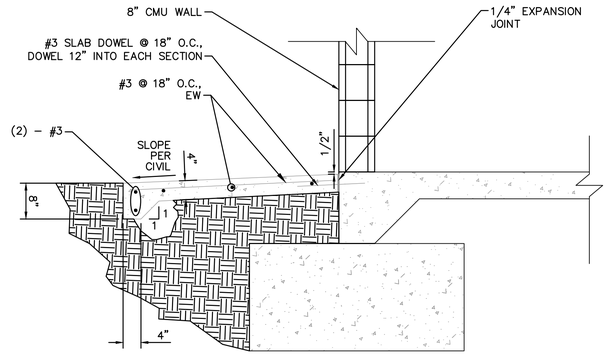
SHEET 27 OF 38 SHEETS
FILE NO: 3387



SEE GRADING PLAN ON SHEET 5 FOR ELEV.

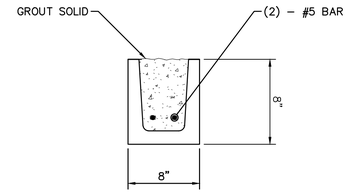
SOUTH ELEVATION

SCALE: 3/4" = 1'-0"



1/28 DOOR THRESHOLD FOOTING

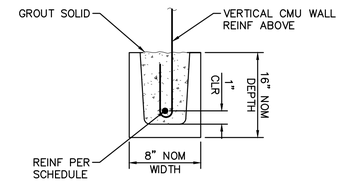
SCALE: 3/4" = 1'-0"



NOTES:
1. PROVIDE BOND BEAM AT THE TOP OF ALL WALLS.

2/28 MASONRY BOND BEAM

SCALE: 1" = 1'-0"



16 IN NOMINAL DEPTH LINTEL

CMU MASONRY LINTEL SCHEDULE
(EXTERIOR WALLS)

CLEAR OPENING WIDTH, W	BOND BEAM / LINTEL DEPTH	REINFORCING	MIN BEARING
W ≥ 6'-0"	16"	2 - #5	16"
W ≤ 6'-0"	16"	1 - #5	16"

NOTES:
1. EXTEND REINFORCING TO END OF BEARING AT EACH SIDE OF OPENING.
2. FILL ALL CELLS UNDER BEARING WITH GROUT AND (1) #5 VERT BARS CONT TO FOUNDATION, LOCATED DIRECTLY BELOW BEARING AT EACH SIDE OF LINTEL.
3. LINTELS SHALL BE SHORED UNTIL GROUT REACHES DESIGN COMPRESSIVE STRENGTH.
4. LINTEL SPANS BEYOND THE MAXIMUM INDICATED IN THE SCHEDULE REQUIRES SPECIAL DESIGN.

3/28 MASONRY LINTEL

SCALE: 1" = 1'-0"

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01'. USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE P.C.E. 87614 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

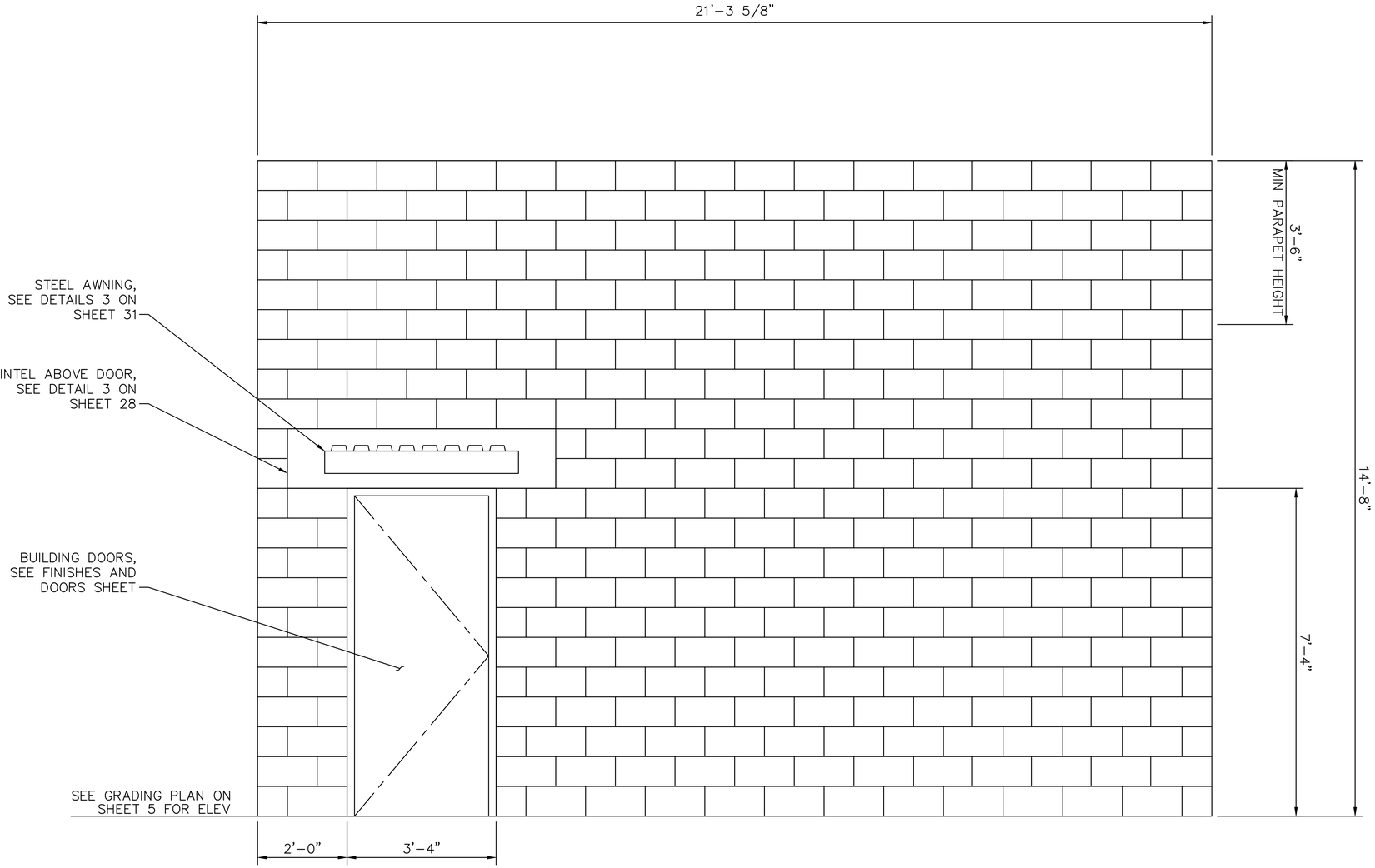
CITY of BEAUMONT CALIFORNIA INC. NOV. 18, 1912

Reviewed By: _____ Staff Engineer — Date: _____
Recommended for Approval By: _____ Administrative Engineer — Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works — Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
MCC BUILDING ELEVATION II

SHEET 28 OF 38 SHEETS
FILE NO: 3387



EAST ELEVATION

SCALE: 3/4" = 1'–0"

DIGALERT
Call 2 Working Days Before You Dig!
811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE
R.C.E. 87614
8/23/2021

SEAL
REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

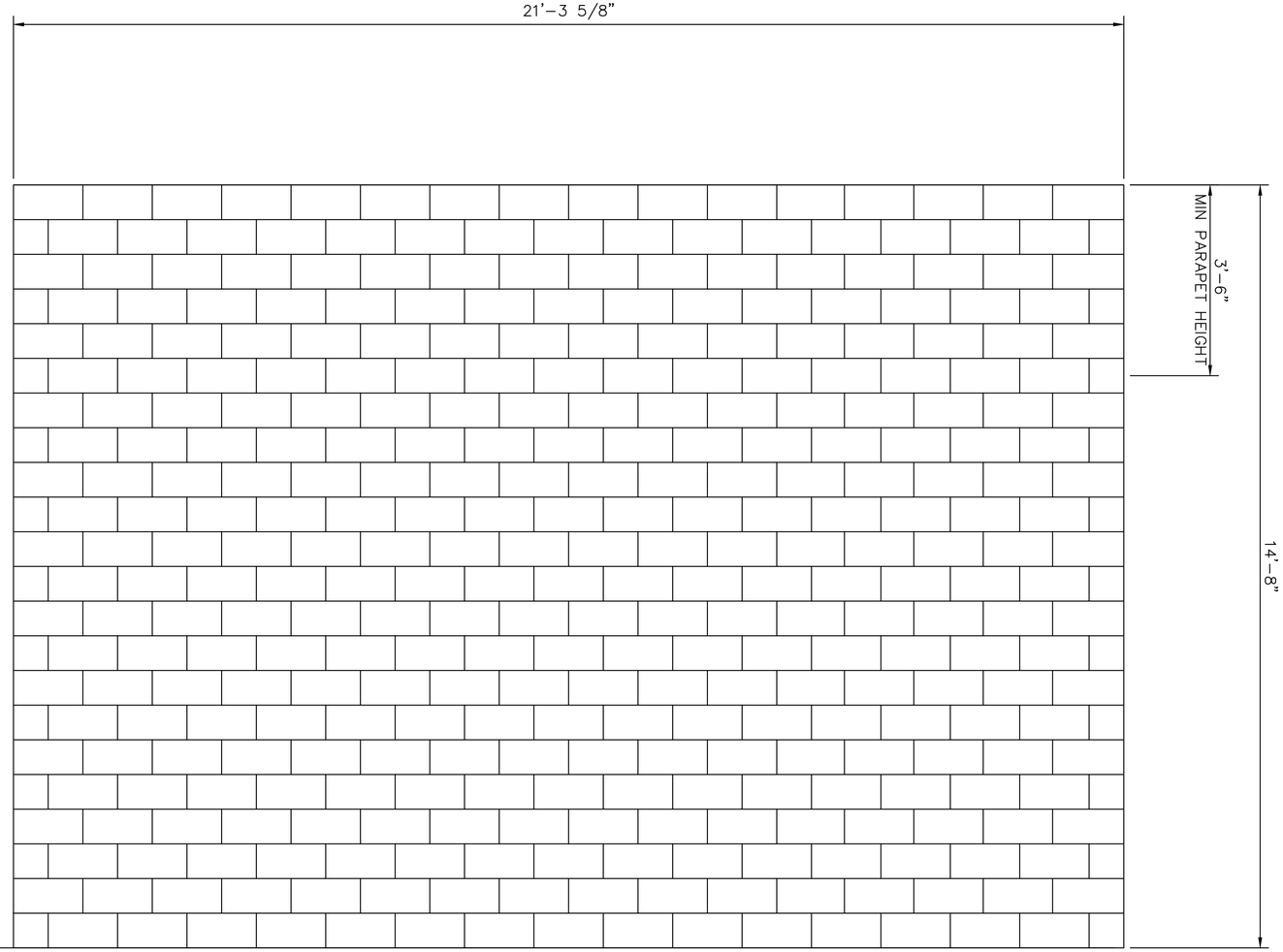
CITY of BEAUMONT CALIFORNIA INC.NOV.18.1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

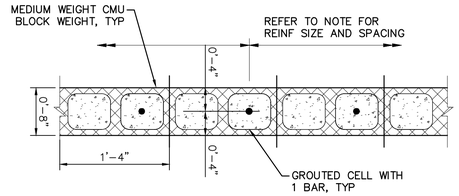
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
MCC BUILDING ELEVATION III

SHEET 29 OF 38 SHEETS
FILE NO: 3387



WEST ELEVATION

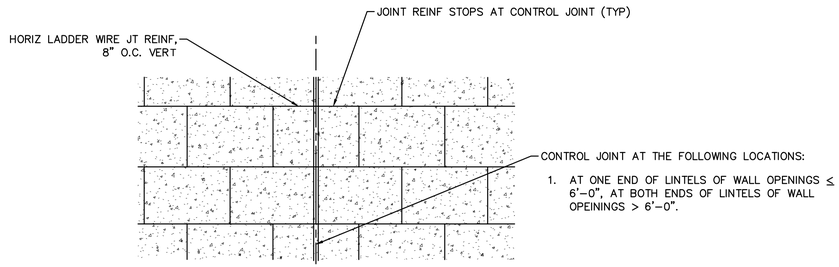
SCALE: 3/4" = 1'–0"



NOTES:
1. UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE ALL CMU WALL WITH (1) #5 BAR @ 24" O.C.
2. PROVIDE VERT REINF AND GROUT PER NOTE 1 IN THE ADJACENT 2 CELLS ON BOTH SIDES OF ALL OPENINGS & ENDINGS.
3. VERTICAL BARS ARE TO EXTEND A MIN OF 6" INTO THE BOND BEAM AT THE TOP OF WALL. BOND BEAMS SHALL BE REINFORCED WITH CONTINUOUS BARS ALONG BEAM PER TYPICAL DETAIL.
4. ALL CMU SHALL BE FULLY GROUTED.
5. PROVIDE AN OPEN BOTTOM BOND BEAM REINF WITH (1) #5 CONT BARS AT THE FOLLOWING LOCATIONS:
   a) AT THE TOP OF ALL WALL ELEVATIONS.

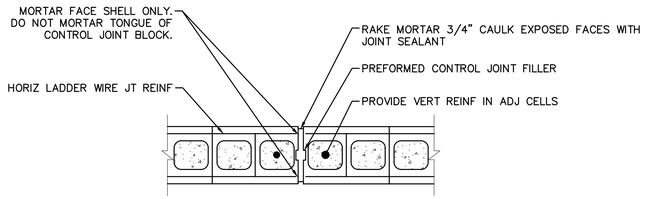
1/30 TYPICAL CMU WALL REINF

SCALE: 1" = 1'–0"



NOTES:
1. CONTROL JOINTS MAY BE OFFSET A MAXIMUM DISTANCE OF 8" CROSS WIRES WITHIN THIS OFFSET SHALL BE CUT.

ELEVATION



NOTES:
1. WIDE FLANGED PREFORMED CONTROL JOINT FILLER MAY BE USED IN LIEU OF DETAIL SHOWN.

PLAN

2/30 CMU WALL CONTROL JOINT

SCALE: 1" = 1'–0"

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01'. USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE
R.C.E. 87614 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC.NOV.15,1912

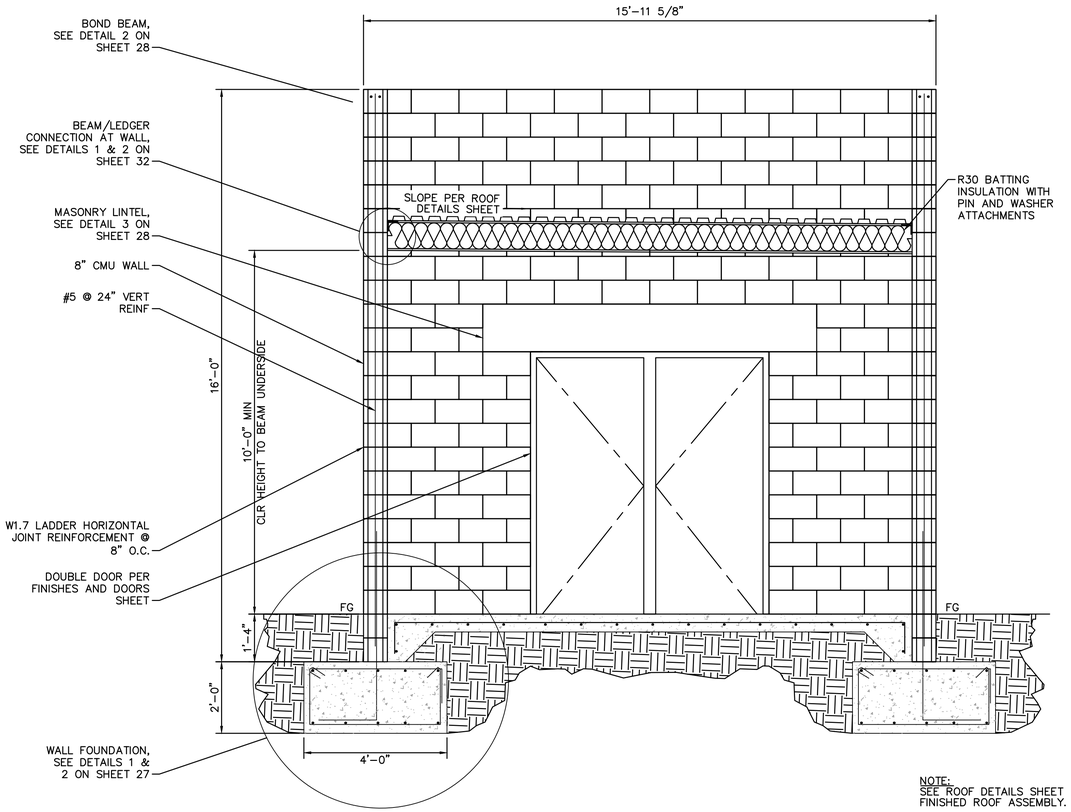
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
MCC BUILDING ELEVATION IV

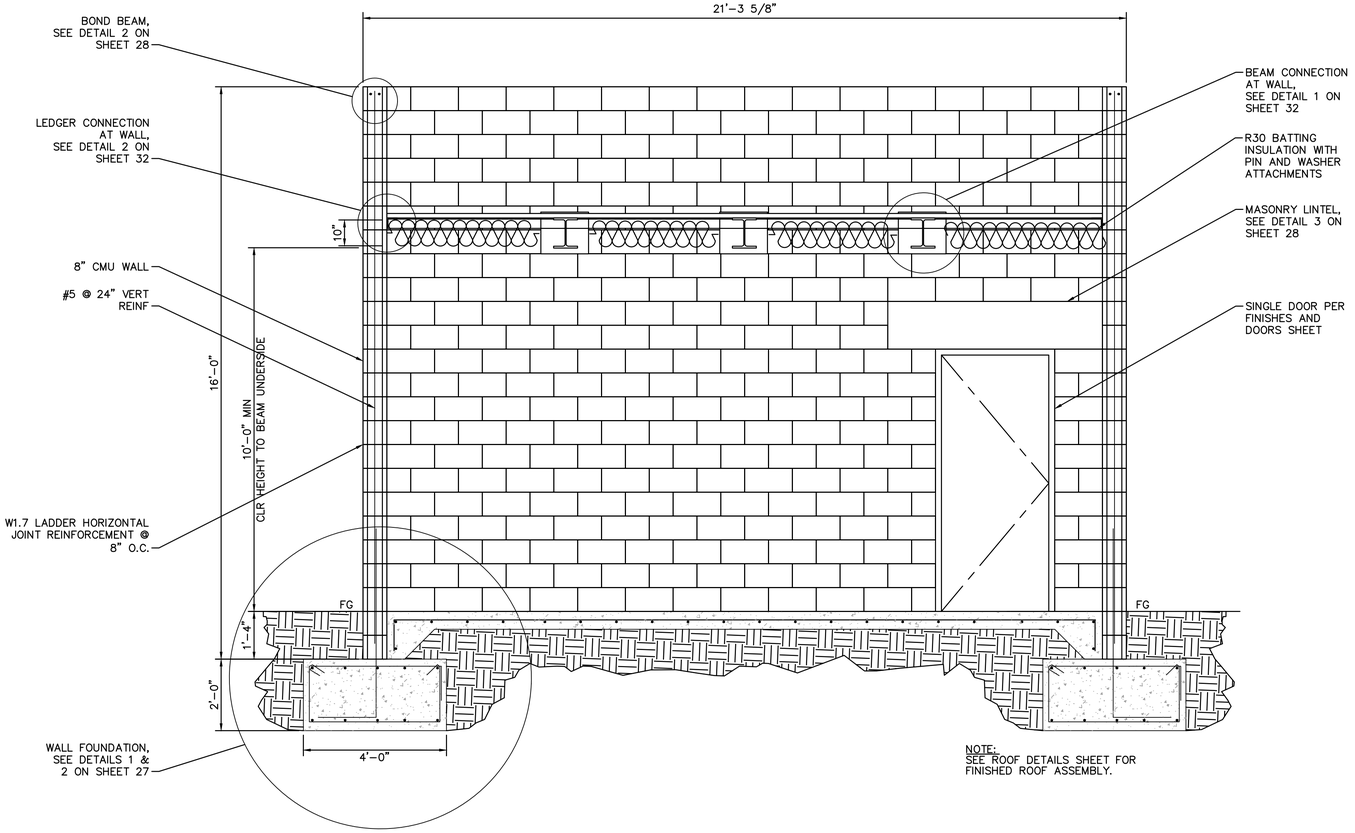
SHEET 30 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuellner, Sam - Sheet Set:BEAUMONT LIFT STATION_Layout: MCC BUILDING ELEVATION IV - October 20, 2021 - 10:49:11am - K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xST.dwg



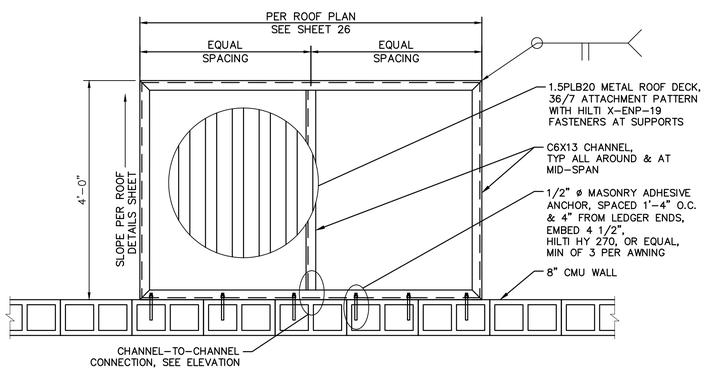
NOTE:
SEE ROOF DETAILS SHEET FINISHED ROOF ASSEMBLY.

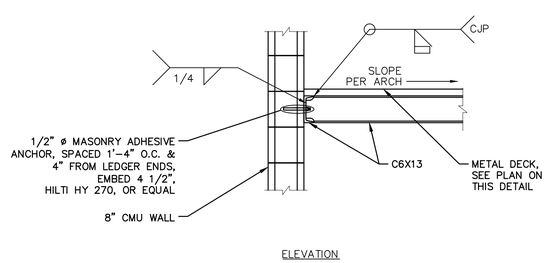
1/31 BUILDING WIDTH SECTION
SCALE: 1/2" = 1'-0"



NOTE:
SEE ROOF DETAILS SHEET FOR FINISHED ROOF ASSEMBLY.

2/31 BUILDING LENGTH SECTION
SCALE: 1/2" = 1'-0"





ELEVATION

3/31 STEEL AWNING AT DOORS
SCALE: 3/4" = 1'-0"

DIGALERT
Call 2 Working Days Before You Dig!
811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREIN.
ELEV. 2468.01, (NVD '88). (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE
R.C.E. 87614
8/23/2021

SEAL
REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

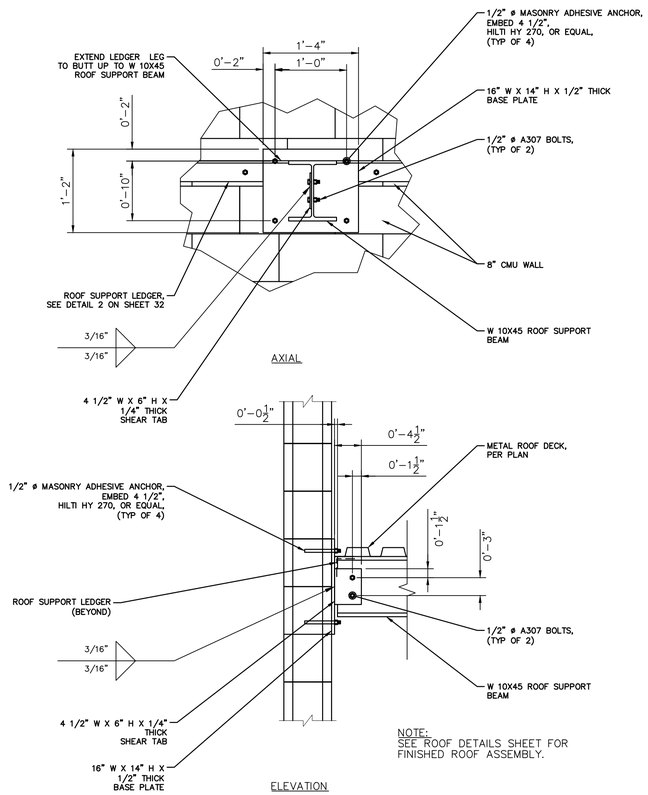
CITY of BEAUMONT CALIFORNIA INC.NOV.18, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

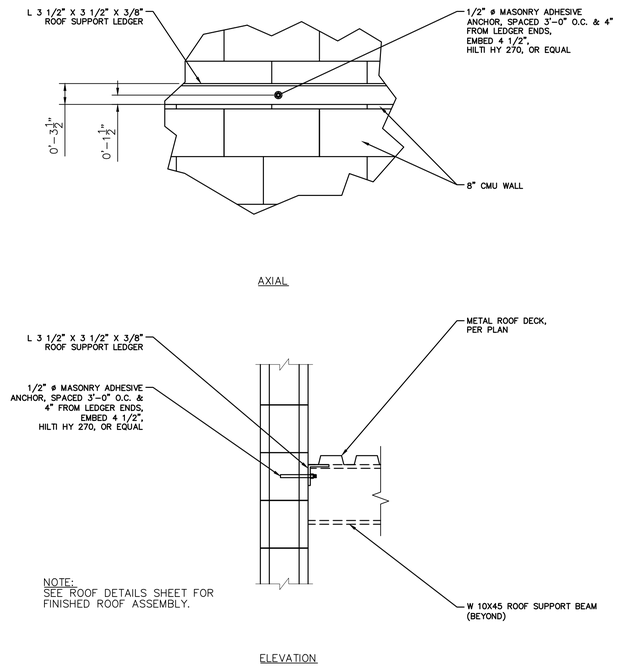
CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
STRUCTURAL DETAILS I

SHEET 31 OF 38 SHEETS
FILE NO: 3387



1/32 BEAM CONNECTION DETAIL

SCALE: 3/4" = 1'-0"



2/32 LEDGER CONNECTION DETAIL

SCALE: 3/4" = 1'-0"

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:

NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311

1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.

ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE P.C.E. 87614 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC.NOV.18,1912

Reviewed By: _____ Staff Engineer Date: _____

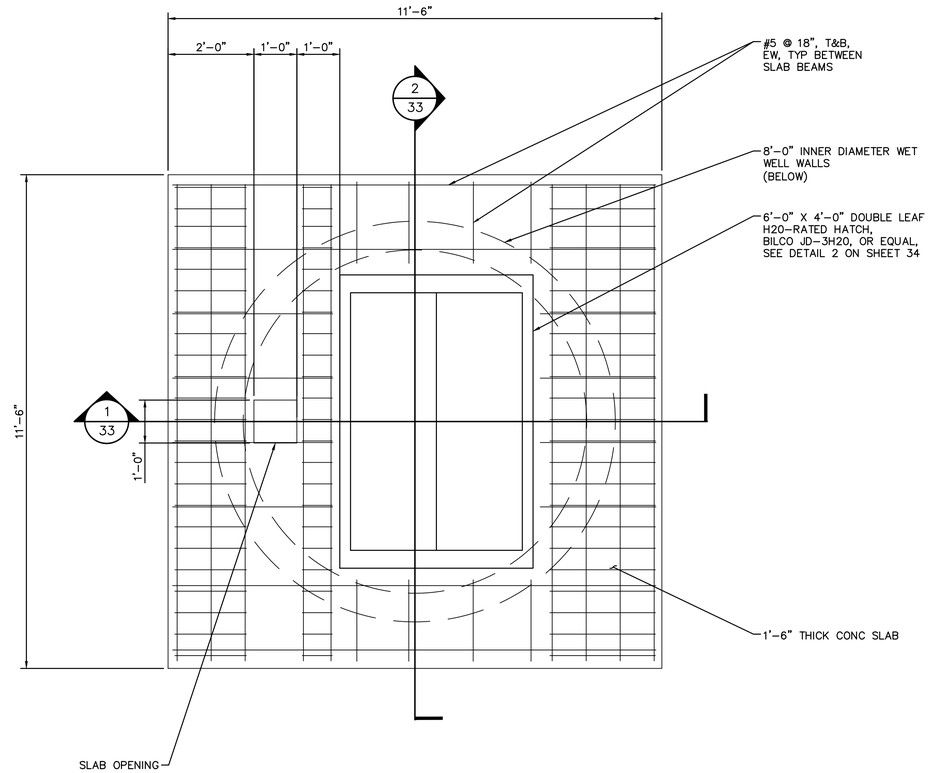
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021

Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
STRUCTURAL DETAILS II

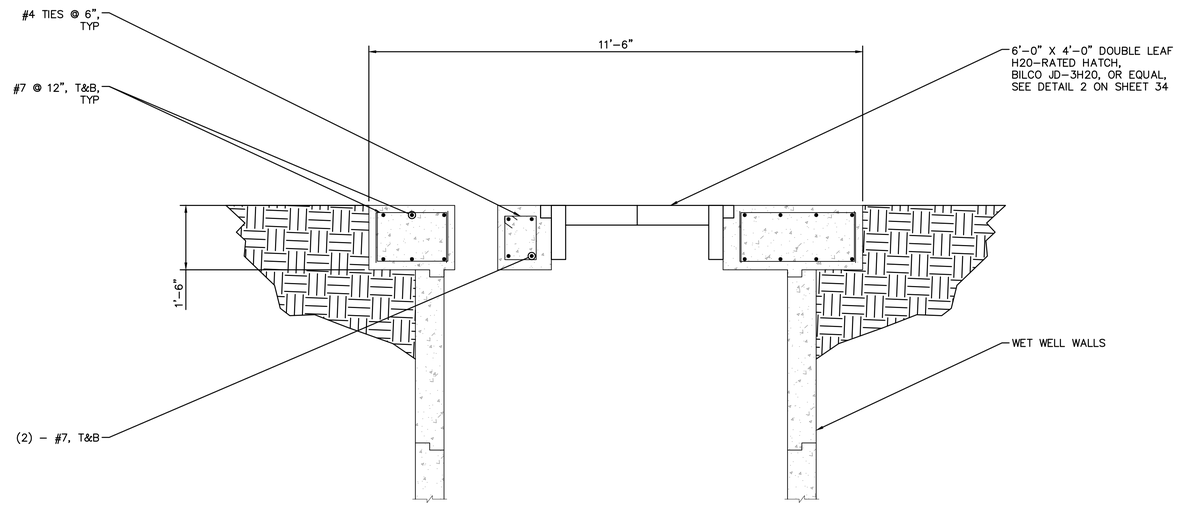
SHEET 32 OF 38 SHEETS
FILE NO: 3387



WET WELL ROOF SLAB

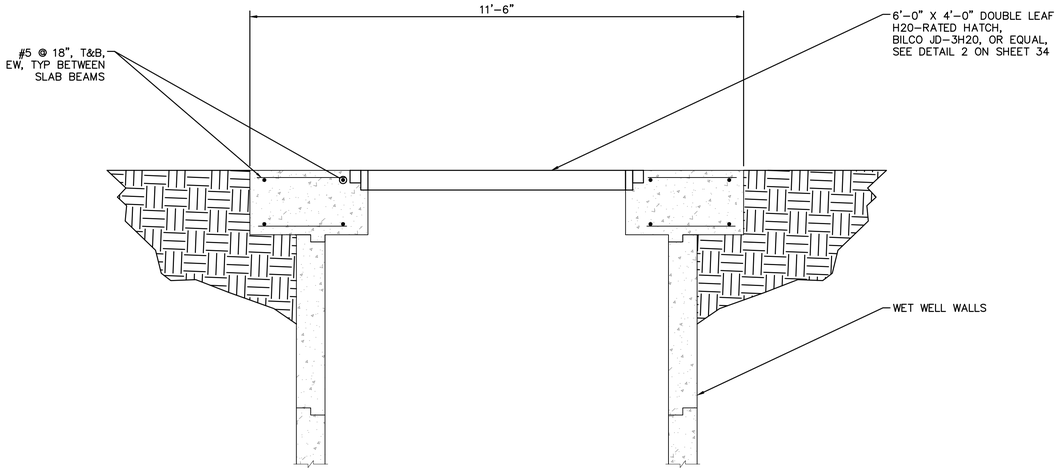
SCALE: 1" = 20'

NORTH



1/33 WET WELL ROOF SLAB SECTION

SCALE: 1" = 20'



2/33 WET WELL ROOF SLAB SECTION

SCALE: 1" = 20'

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234–9411
WWW.KIMLEY–HORN.COM

JUSTIN L. BRUE P.C.E. 87614 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC NOV. 15, 1912

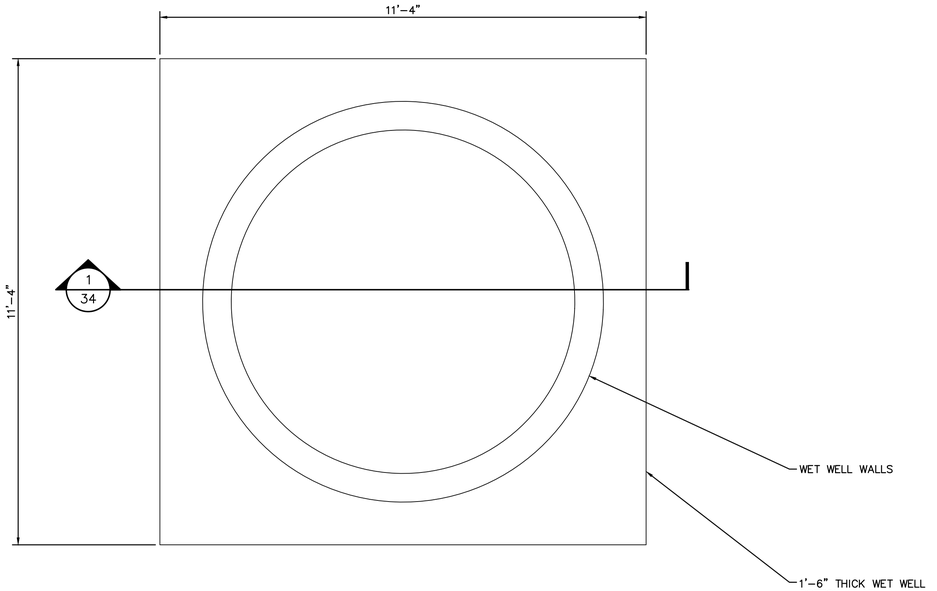
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769–8520 FAX: (951) 769–8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
WET WELL SLAB

SHEET 33 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout: WET WELL SLAB October 20, 2021 10:49:21am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - xST.dwg

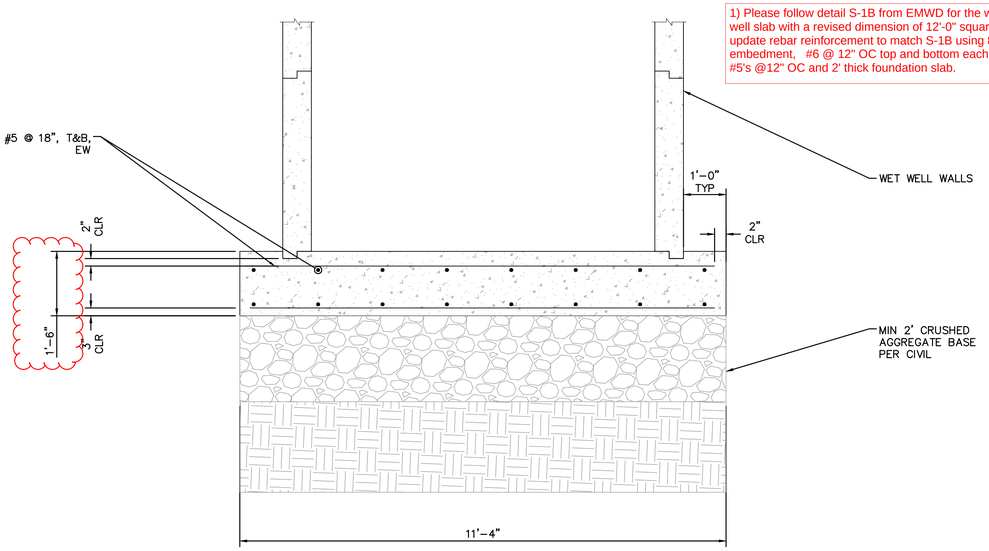


WET WELL BOTTOM SLAB

SCALE: 1" = 20'

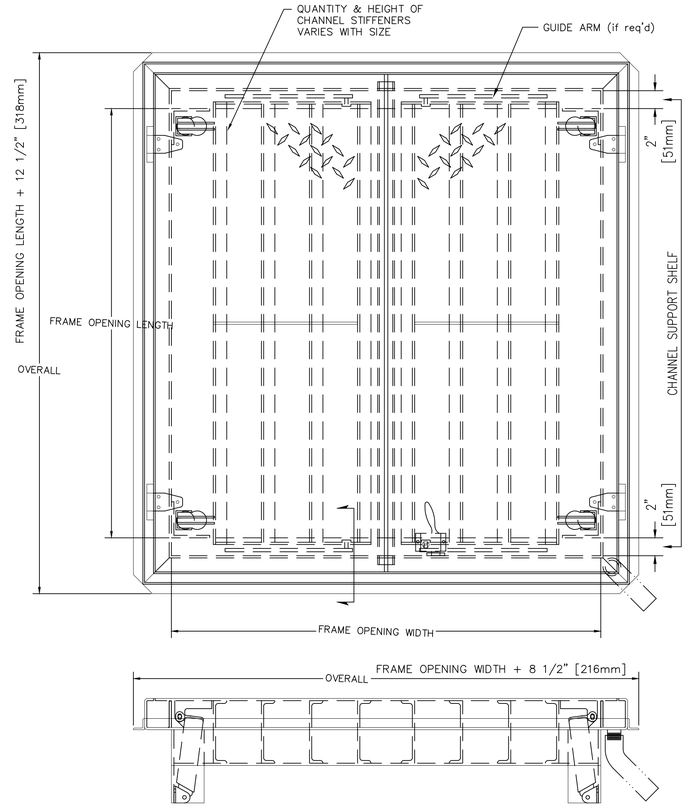
NORTH

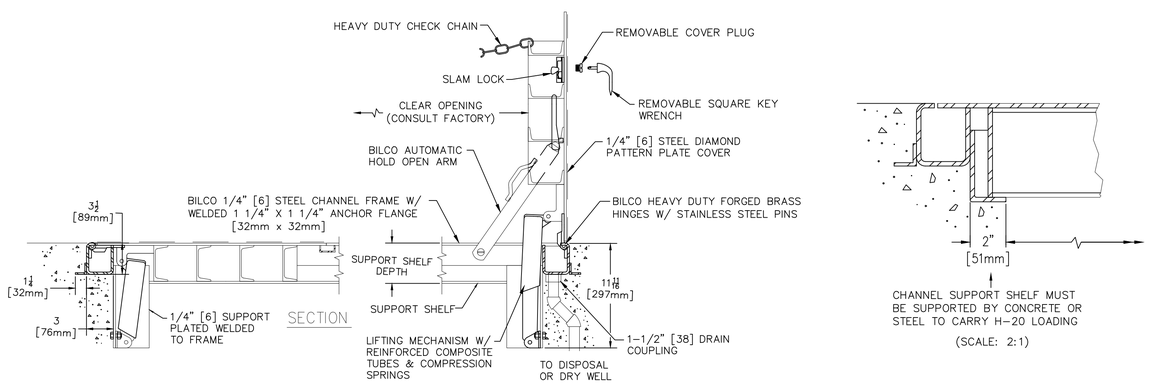
1) Please follow detail S-1B from EMWD for the wet well slab with a revised dimension of 12'-0" square and update rebar reinforcement to match S-1B using 8" embedment, #6 @ 12" OC top and bottom each way, #5's @12" OC and 2' thick foundation slab.



1/34 WET WELL BOTTOM SLAB SECTION

SCALE: 1" = 20'





2/34 WET WELL HATCH DETAILS

SCALE: 1-1/2" = 1'-0"

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. 'Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

JUSTIN L. BRUE
R.C.E. 87614
8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER JUSTIN L. BRUE C87614 CIVIL STATE OF CALIFORNIA

DESIGN BY:	SLM
DRAWN BY:	RC/SW
CHECKED BY:	TW/SS
SCALE:	
DATE:	
JOB NUMBER:	195284001

CITY OF BEAUMONT CALIFORNIA INC.NOV.18, 1912

Reviewed By: _____ Staff Engineer Date: _____

Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021

Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

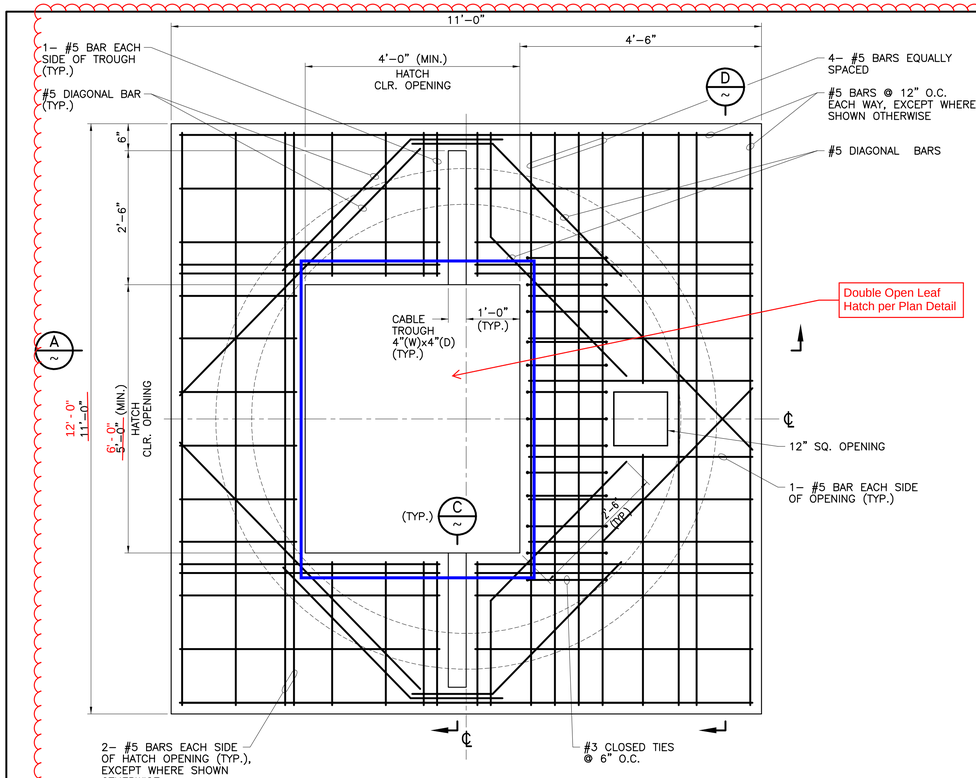
CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA. 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:

BEAUMONT CROSSROADS LIFT STATION

WET WELL SLAB II

SHEET 34 OF 38 SHEETS
FILE NO: 3387

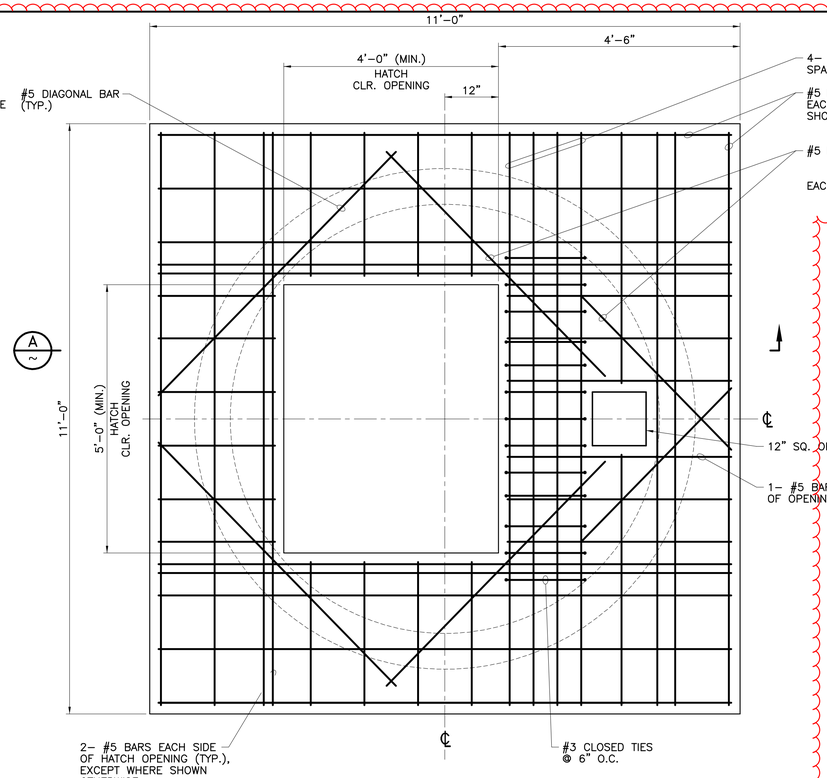


NOTES:

1. HATCH FRAME AND CABLE TROUGH FRAME NOT SHOWN FOR CLARITY.
2. WET WELL ROOF MAY BE CAST-IN-PLACE ON TOP OF WET WELL OR IT MAY BE PRECAST ONSITE AND LIFTED INTO PLACE. FOR PRECAST ROOF, CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF ALL NECESSARY LIFTING DEVICES/SYSTEMS.

WET WELL TOP MAT ROOF REINFORCING PLAN FOR 8'-0" WET WELL

SCALE: 3/4"=1'-0"

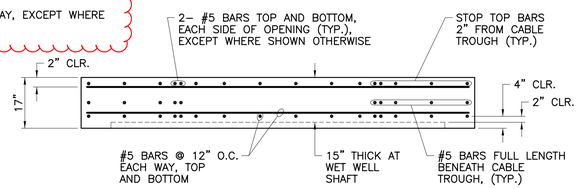


NOTES:

1. HATCH FRAME NOT SHOWN FOR CLARITY.
2. WET WELL ROOF MAY BE CAST-IN-PLACE ON TOP OF WET WELL OR IT MAY BE PRECAST ONSITE AND LIFTED INTO PLACE. FOR PRECAST ROOF, CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF ALL NECESSARY LIFTING DEVICES/SYSTEMS.

WET WELL BOTTOM MAT ROOF REINFORCING PLAN FOR 8'-0" WET WELL

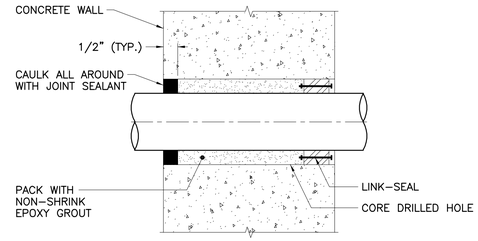
SCALE: 3/4"=1'-0"



SECTION

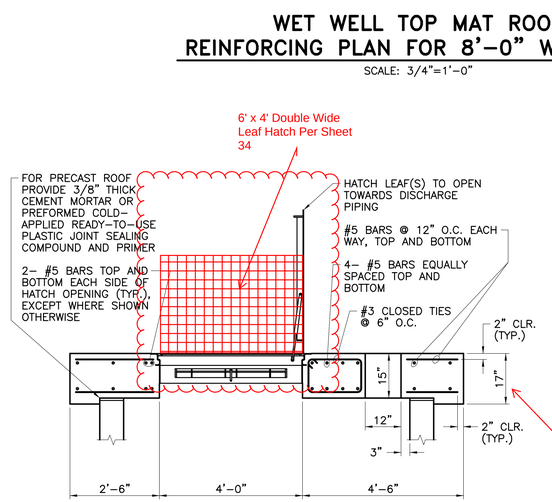
SCALE: 1/2"=1'-0"

D



NOTES:

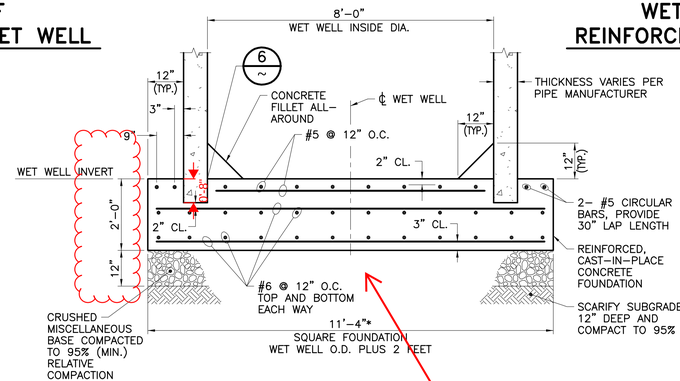
1. JOINT SEALANT SHALL BE TWO COMPONENT, POLYURETHANE ELASTOMERIC SEALANT, SIKAFLEX-2C NS, AS MANUFACTURED BY SIKA, OR EQUAL. PROVIDE BACKER ROD OR TAPE AT BACK OF JOINT SEALANT.
2. LINK-SEAL SHALL BE LOCATED ON SIDE OF WALL/SLAB THAT WILL BE PERMANENTLY ACCESSIBLE. LINK-SEAL SHALL BE FOR CORROSIVE SERVICE WITH EPDM RUBBER AND STAINLESS STEEL BOLTS AND NUTS, AS MANUFACTURED BY GPT INDUSTRIES., OR EQUAL. SLEEVE DIAMETER SHALL BE PER MANUFACTURERS RECOMMENDATION.



WET WELL ROOF SECTION

SCALE: 1/2"=1'-0"

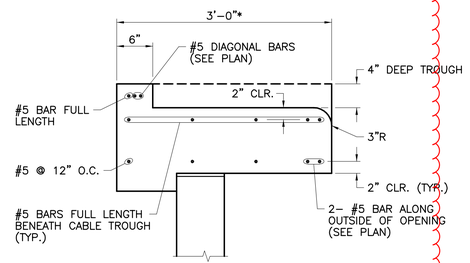
A



WET WELL FOUNDATION SECTION

SCALE: 1/2"=1'-0"

B



NOTE:

HATCH AND TROUGH FRAME NOT SHOWN FOR CLARITY.

SECTION

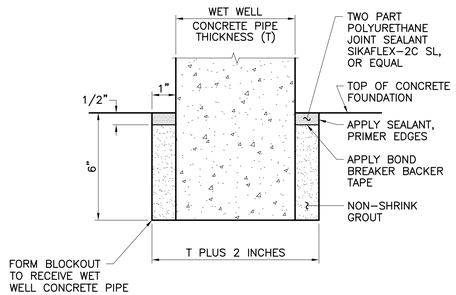
SCALE: 1"=1'-0"

C

TYPICAL PIPE PENETRATION DETAIL

N.T.S.

5 M-1B



FOUNDATION BLOCKOUT DETAIL

N.T.S.

6

New Proposed Pad Thickness

1) Please follow detail S-1B from EMWD for the wet well slab with a revised dimension of 12'-0" square and update rebar reinforcement to match S-1B using 8" embedment, #6 @ 12" OC top and bottom each way, #5's @12" OC and 2' thick foundation slab.

JPM – JOSH P. MACPEEK KRIEGER & STEWART

48 hours BEFORE excavation
811
CALL Underground Service Alert

KRIEGER & STEWART
Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900

APPROVED BY _____
REGISTERED ENGINEER No. 37263 DATE 05/10/21

REGISTERED PROFESSIONAL ENGINEER PHILIP EGAN STRAW No. 37263 CIVIL STATE OF CALIFORNIA

REVISIONS				
NO.	DATE	INITIAL	DESCRIPTION	APP'VD/DATE
1	05/10/21	JPM	SUPERSEDES PREVIOUSLY APPROVED	06/07/2001
			DWG. DATED 05/12/16	

APPROVED BY:
Corey F. Wallace 05/10/21
DIRECTOR OF DEVELOPMENT SERVICES DATE

REFERENCES
SMALL SEWAGE LIFT STATION GUIDELINES, STANDARD DRAWINGS, AND SPECIFICATIONS

EASTERN MUNICIPAL WATER DISTRICT
Armando G. Arroyo 05/10/21
PROJECT MANAGER DATE

APPROVALS	INITIAL	DATE
PROJECT ENGR.	JPM	05/10/21
CONST. ADMIN.		
INSPECTION	BAM	05/10/21
MAINTENANCE	DB	05/10/21

SCALE: N/A

		DATE
DESIGNED	PES	05/10/21
DRAWN	TMW	05/10/21
TRACED		
CHECKED	JPM	05/10/21
SUBMITTED		

EASTERN MUNICIPAL WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

SEWAGE LIFT STATION (TRACT _____)

WET WELL STRUCTURAL PLANS, SECTIONS, AND DETAILS (260 GPM TO 500 GPM CAPACITY)

I.D.
S.A.
W.O.
C.O.
COORD.
SHT. ____ OF ____
D-
S-1B
1

491-53

DWG. NO.: Dwg_Repl_491-53.dgn FILE NO.: 491-53 UPDATE BY: TMW PROJ. ENG.: JPM PLOT DATE: 07/16/21 PLOT TIME: 9:41AM PLOT SCALE: 1=1

MECHANICAL SPECIFICATIONS

A. GENERAL

1. THE INFORMATION INDICATED ON THESE DRAWINGS AS EXISTING IS BASED UPON INFORMATION TAKEN FROM AS-BUILT DRAWINGS, AND FIELD INVESTIGATION. THE PLANS DO NOT GUARANTEE ACCURACY BUT ARE ONLY AN INDICATION OF EXISTING CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT CONDITIONS SUCH AS EQUIPMENT PLACEMENT, DUCTWORK (SIZE, ROUTING, AND ELEVATION), PIPING (SIZE, ROUTING, AND ELEVATION), ETC. THE DRAWINGS ARE INTENDED TO PROVIDE THE CONTRACTOR AN INDICATION OF THE SYSTEM INSTALLED IN THE FACILITY TO DATE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ADJUSTMENTS TO THE DRAWING INFORMATION AS REQUIRED TO MATCH EXISTING FIELD CONDITIONS.
2. THE CONTRACTOR SHALL INSTALL THE NEW EQUIPMENT, ROOF CURB, AND PIPING AROUND ALL EXISTING OBSTACLES INCLUDING: ELECTRICAL CONDUIT, DOMESTIC WATER PIPING, WASTE AND VENT PIPING, ACID WASTE AND VENT PIPING, AND FIRE SPRINKLER PIPING. PROVIDE OFFSETS TO AVOID RELOCATION OF OTHER UTILITIES. RELOCATE UTILITIES IF THEY ARE IN CONFLICT WITH THE MECHANICAL SYSTEM INSTALLATION, CAUSE DEVIATIONS IN THE DESIGN INTENT, UNSATISFACTORY OPERATION, NOISY CONDITIONS, OR INTERFERE WITH MAINTENANCE. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY UTILITY RELOCATION WITH THE APPROPRIATE SUBCONTRACTOR.
3. PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, SERVICES AND INSURANCES TO COMPLETE THE HEATING AND AIR CONDITIONING WORK WITHIN THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREON AND TO THE ENTIRE SATISFACTION OF THE ENGINEER.
4. PROVIDE ALL PERMITS AND FEES AS REQUIRED FOR THE MECHANICAL WORK.
5. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT BEFORE BIDDING.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC), 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2018 INTERNATIONAL FIRE CODE (IFC), 2018 UNIFORM MECHANICAL CODE (UMC), 2018 UNIFORM PLUMBING CODE (UPC), 2017 NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS, AND ALL OTHER APPLICABLE CODES, RULES, AND LOCAL REQUIREMENTS.
7. GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR.
8 ALL DIMENSIONS AND MEASUREMENTS SHALL BE VERIFIED AT THE JOBSITE BEFORE FABRICATION AND/OR INSTALLATION OF THE EQUIPMENT.
9 PROVIDE AND INSTALL ALL EQUIPMENT, PIPING, AND CONTROLS AS SHOWN ON THE DRAWINGS.

B. SUBMITTALS

1. ELECTRONIC SUBMITTALS IN A PDF FORMAT, IN LIEU OF PAPER COPIES, WILL BE ACCEPTABLE.
2. SUBSTITUTED ITEMS SHALL BE SUBMITTED WITH MANUFACTURER'S DESCRIPTIVE DATA AND MUST SHOW EQUALITY TO EQUIPMENT SPECIFIED. INFORMATION ON SUBSTITUTED ITEMS MUST BE COMPLETE, INCLUDING, BUT NOT LIMITED TO: DESIGN, CONSTRUCTION MATERIALS, CONSTRUCTION QUALITY, AND SOUND LEVELS. ENGINEER WILL NOT RESEARCH INFORMATION REQUIRED TO COMPARE EQUIPMENT. ENGINEER RESERVES THE RIGHT TO REQUIRE SPECIFIED EQUIPMENT.
3. SUBMIT MANUFACTURER'S DESCRIPTIVE DATA WITHIN TEN (10) WORKING DAYS AFTER AWARD OF THE CONTRACT. MATERIALS AND EQUIPMENT SHALL NOT BE ORDERED PRIOR TO SUBMITTAL APPROVAL. ALLOW TEN (10) WORKING DAYS AFTER RECEIPT OF SUBMITTALS IN THE ENGINEER'S OFFICE BEFORE REVIEWED SUBMITTALS WILL BE RETURNED.
4. UPON COMPLETION OF THE PROJECT, AND PRIOR TO FINAL ACCEPTANCE PAYMENT, SUBMIT AS-BUILT DRAWINGS AND OPERATING AND MAINTENANCE INSTRUCTIONS.

C. WORKMANSHIP

1. ALL WORK TO BE PERFORMED BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.
2. PERFORM ALL WORK IN A MANNER NOT TO DISTURB THE NORMAL OPERATION OF THE BUILDING.
3. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE OTHER TRADES.
5. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

D. DEMOLITION

1. DEMOLITION WORK SHALL NOT CREATE ANY DUST PROBLEMS IN THE WORKING SPACES.

E. CUTTING, PATCHING, AND PAINTING

1. ALL CUTTING AND PATCHING TO BE PERFORMED BY THE GENERAL CONTRACTOR.
2. CUTTING OF ALL OPENINGS SHALL BE COORDINATED WITH THE OWNER'S ENGINEERING REPRESENTATIVE.
3. WALL SURFACES SHALL BE PRIMED AND PAINTED. PAINT TYPE AND COLOR SHALL BE AS SPECIFIED BY THE OWNER'S REPRESENTATIVE.

F. PRODUCT HANDLING

1. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS AND EQUIPMENT BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE MATERIALS AND WORK OF THE OTHER TRADES.
2. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

G. SEISMIC RESTRAINTS

1. ALL EQUIPMENT, PIPING, AND CONDUIT SHALL BE SEISMICALLY RESTRAINED PER THE 2018 IBC.
2. REFERENCES: INTERNATIONAL BUILDING CODE (IBC) SECTION 1613.1, AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7) SECTION 13.6, SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA) SEISMIC RESTRAINT MANUAL, AND AMERICAN SOCIETY OF PLUMBING ENGINEERS (ASPE) PLUMBING ENGINEERING DESIGN HANDBOOK.

H. EQUIPMENT

1. EQUIPMENT SHALL BE AS SPECIFIED IN THE EQUIPMENT SCHEDULE OR AN APPROVED EQUAL IF NOTED.
2. INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
3. CONTRACTOR SHALL PROVIDE ALL PENETRATION OPENINGS IN ROOF FOR ALL PIPING AND CONDUIT REQUIREMENTS.
4. ALL UNITS ON ROOF SHALL BE SET ON LEVEL CURBS OR SUPPORTS AT ROOF.
5. SECURELY FASTEN ALL EQUIPMENT TO PREVENT MOVEMENT DUE TO WIND OR SEISMIC FORCES.

N. PIPING

1. EQUIPMENT DRAIN PIPING TO BE TYPE 'M' HARD DRAWN COPPER WITH WROT COPPER FITTINGS. USE 95/5 SOLDER. SLOPE PIPING 1/8" PER FOOT TOWARDS DRAIN.

T. REFRIGERANT PIPING

1. REFRIGERANT PIPING SHALL BE ACR COPPER. LINESET INSULATION TO BE INCLUDED BY MANUFACTURER.
2. ALL JOINTS SHALL BE BRAZED WITH SIL-FOS OR EQUAL UNDER A NITROGEN PURGE.
3. CHARGING OF SYSTEM: TEST ALL REFRIGERANT PIPING WITH 150 PSI CHARGE OF NITROGEN AFTER FIRST ISOLATING ANY CONTROLS, ETC., THAT ARE NOT RATED FOR 150 PSI. TEST ALL JOINTS WITH A SOAP SOLUTION. EVACUATE SYSTEM AND CHARGE SYSTEM WITH REFRIGERANT. RETEST SYSTEM WITH AN ELECTRONIC GAS DETECTOR. MAKE ALL FINAL ADJUSTMENTS TO REFRIGERANT SYSTEM AS REQUIRED.
4. AFTER SYSTEM HAS BEEN LEAK TESTED AND CHARGED, INSULATE ALL SUCTION PIPING WITH RUBATEX R-180 FS OR EQUAL 1/2" THICK CLOSED CELL FOAM INSULATION MEETING ALL NFPA REQUIREMENTS FOR SMOKE DENSITY AND FLAME SPREAD.
5. ALL OUTDOOR SECTIONS SHALL BE COATED WITH AN ULTRAVIOLET AND WEATHER RESISTIVE COATING.

U. OTHER MATERIAL

1. ALL OTHER MATERIAL, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

W. IDENTIFICATION

1. PLASTIC NAMEPLATES: LAMINATED THREE LAYER WITH ENGRAVED BLACK LETTERS ON A LIGHT CONTRASTING BACKGROUND COLOR. INSTALL PLASTIC NAMEPLATES WITH CORROSION RESISTANT MECHANICAL FASTENERS OR ADHESIVE.

Y. RELATED WORK

1. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL POWER WIRING AND EQUIPMENT DISCONNECTS, UNLESS INCLUDED WITH EQUIPMENT, TO MAKE SYSTEM OPERATIONAL.

Z. CONTROLS

1. THERMOSTATS TO BE FURNISHED AND INSTALLED BY HVAC CONTRACTOR.

MECHANICAL SYMBOL LIST

(NOTE: ALL OF THE SYMBOLS INDICATED BELOW MAY NOT APPEAR ON THIS PROJECT)

RL	RL	REFRIGERANT LIQUID PIPING	CLG	CEILING
RS	RS	REFRIGERANT SUCTION PIPING	DB	DRY BULB TEMPERATURE
	U	UNION	DDC	DIRECT DIGITAL CONTROL
	P.D.	PIPING TEE DOWN	DL	DOOR LOUVER
	P.U.	PIPING TEE UP	DN	DOWN
	P.U.	PIPING ELBOW UP	(E)	EXISTING
	P.D.	PIPING ELBOW DOWN	EAT	ENTERING AIR TEMPERATURE
		BRANCH - TOP CONNECTION	EDB	ENTERING DRY BULB
		BRANCH - BOTTOM CONNECTION	°F	DEGREES FARENHEIT
OR		ARROW INDICATES DIRECTION OF FLOW	F.A.	FROM ABOVE
	P.O.C.	POINT OF CONNECTION - NEW ITEMS TO EXISTING ITEMS	F.B.	FROM BELOW
	S.A.	SUPPLY AIR DUCT DOWN	FT.	FEET
	S.A.	SUPPLY AIR DUCT UP	LAT	LEAVING AIR TEMPERATURE
	R.A.	RETURN AIR DUCT DOWN	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
	R.A.	RETURN AIR DUCT UP	MAX	MAXIMUM
	E.A.	EXHAUST AIR DUCT DOWN	MBH	BRITISH THERMAL UNITS PER HOUR (THOUSANDS)
	E.A.	EXHAUST AIR DUCT UP	MIN	MINIMUM
	S.A.D.	SUPPLY AIR DIFFUSER WITH FLEX CONNECTION	(N)	NEW
	R.A.G.	RETURN AIR GRILLE OPEN TO CEILING SPACE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
EQ #		MECHANICAL EQUIPMENT INDICATED (SEE SCHEDULE)	RL / RS	REFRIGERANT LIQUID LINE / REFRIGERANT SUCTION LINE
T	T.	THERMOSTAT	S.E.E.R.	SEASONAL ENERGY EFFICIENCY RATIO
R	R.	ROOM TEMPERATURE SENSOR	SP	STATIC PRESSURE
	ACR	AIR CONDITIONING AND REFRIGERATION	STD	STANDARD
	AFF	ABOVE FINISHED FLOOR	T	TEMPERATURE
	AFG	ABOVE FINISHED GRADE	T.A.	TO ABOVE
	BDD	BACKDRAFT DAMPER	T.B.	TO BELOW
	BTUH	BRITISH THERMAL UNITS PER HOUR	TYP	TYPICAL
	CFM	CUBIC FEET PER MINUTE	WB	WET BULB TEMPERATURE

SPLIT SYSTEM SCHEDULE

CU -	OUTDOOR UNIT MANUFACTURER	MODEL	AMBIENT DESIGN (°F DB/WB)	OPERATING WEIGHT (LBS)	SEER	HSPF	ELECTRICAL VOLTS/Ø/Hz	MCA	MOCP	FC -	INDOOR UNIT MANUFACTURER	MODEL	AIRFLOW (CFM)	OPERATING WEIGHT (LBS)	COOLING CAPACITY TOTAL CAPACITY (MAX MBH)	HEATING CAPACITY TOTAL CAPACITY (MAX MBH)	ELECTRICAL VOLTS/Ø/Hz	MCA	MOCP
1	TRANE	4TWA4	104/70	248	15	-	208/3/60	21	35	1	TRANE	TAM9A	1925	163	50.8	42	208/1/60	8	15

GENERAL NOTES:
1. ALL CAPACITIES LISTED ARE AT 0 FEET ELEVATION
2. PROVIDE AND INSTALL MANUFACTURER'S REFRIGERANT LINESET
3. SET FAN SPEED TO MEDIUM

STANDARD FEATURES:
1. REFRIGERANT SHALL BE R-410A
2. INVERTER VARIABLE SPEED COMPRESSOR
3. MINIMUM LINE LENGTH OF 9.8 FEET, MAX LINE LENGTH OF 49.2 FEET WITH NO ADDITIONAL REFRIGERANT REQUIRED, AND MAX ELEVATION OF 23 FEET

OPTIONS:
A. PROVIDE AND INSTALL MANUFACTURER'S PROGRAMMABLE T-STAT
B. -

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

MATTHEW C. MYRES R.C.E. 33152 — 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER — MATTHEW C. MYRES — 33152 — Exp. 6/30/23 — MECHANICAL — STATE OF CALIFORNIA

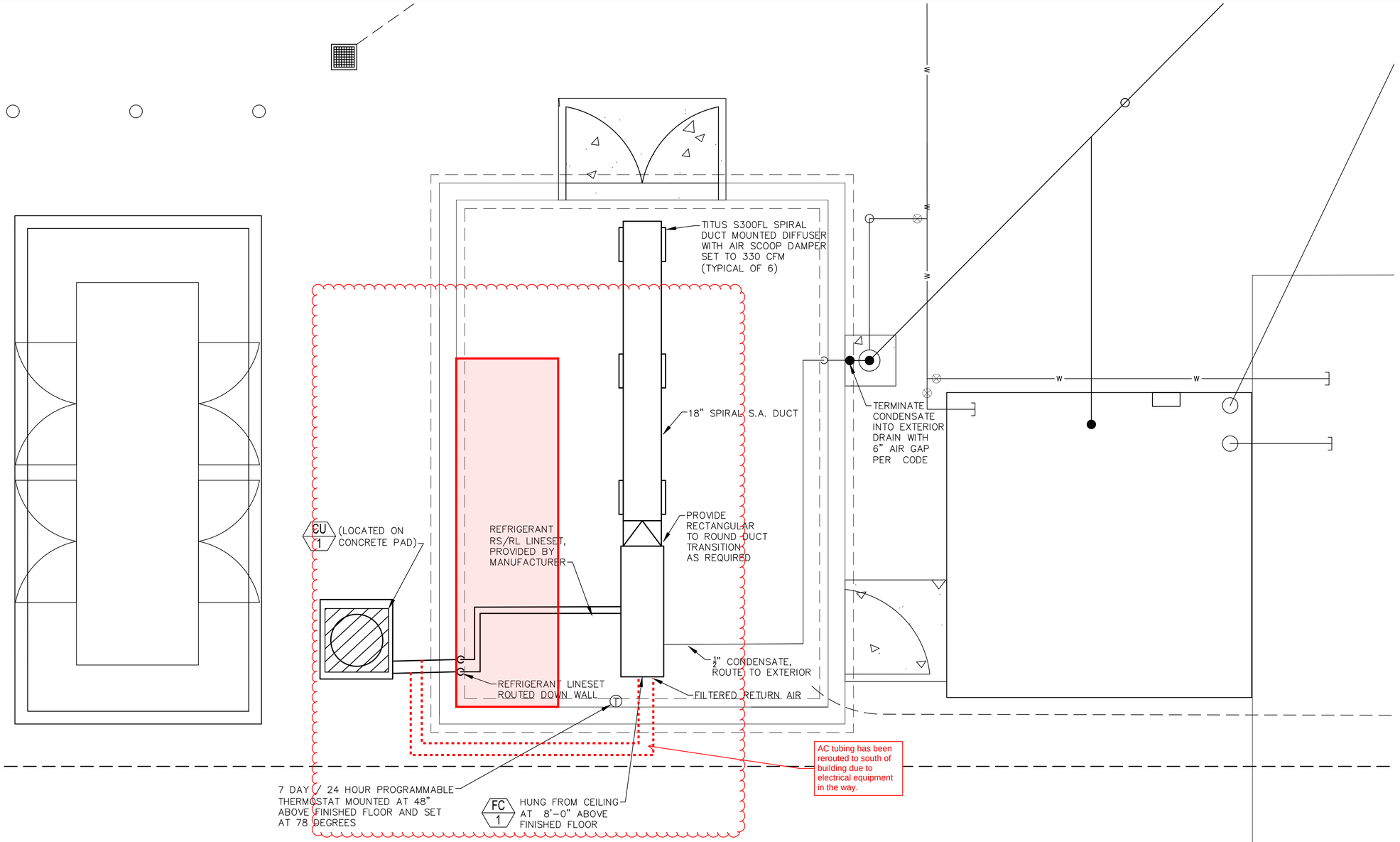
DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
MECHANICAL NOTES AND SCHEDULES

SHEET 35 OF 38 SHEETS
FILE NO: 3387



1/36 MCC BUILDING – MECHANICAL FLOOR PLAN

SCALE: 1/2" = 1'

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "O 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07), ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Kimley»Horn
401 B Street, Suite 600, San Diego, CA 92101
Phone: (619) 234-9411
WWW.KIMLEY-HORN.COM

MATTHEW C. MYRES
R.C.E. 33152 8/23/2021

SEAL: REGISTERED PROFESSIONAL ENGINEER MATTHEW C. MYRES 33152 Exp. 6/30/23 MECHANICAL STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY OF BEAUMONT CALIFORNIA INC NOV. 15, 1912

Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

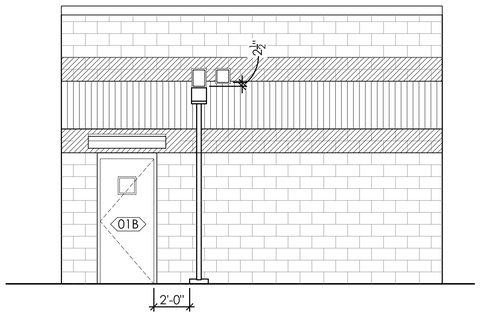
CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
MECHANICAL FLOORPLAN

SHEET 36 OF 38 SHEETS
FILE NO: 3387

Plotted By:Wuellner, Sam Sheet Set:BEAUMONT LIFT STATION Layout: Building Floorplan October 20, 2021 10:51:18am K:\SND_WATER\195284001 Beaumont Lift Station\Design\Plan Sheets - 2020_DELTA SET\195284001 - MP.dwg

NORTH ELEVATION



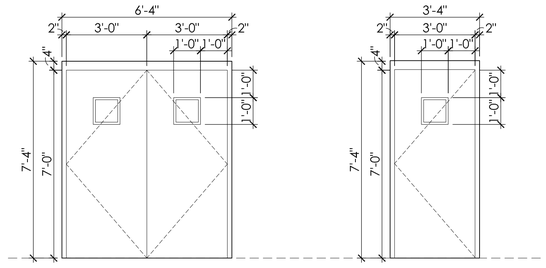
SOUTH ELEVATION

LEGEND

CMU-1 CMU-2 CMU-3

SCALE: 1/4" = 1'-0"

EXTERIOR FINISH ELEVATIONS 1

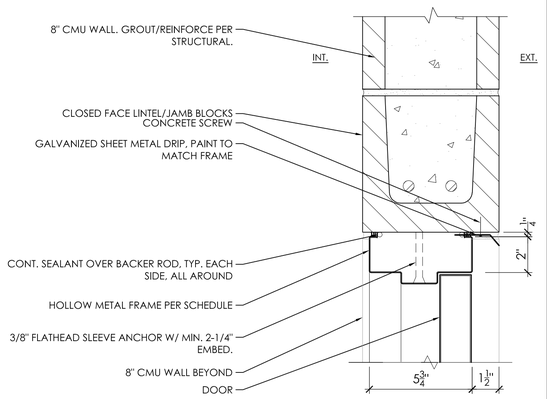


TYPE A
HM PAIR WITH 1/2" CLEAR INSULATED LITE

TYPE B
HM PAIR WITH 1/2" CLEAR INSULATED LITE

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

DOOR TYPES 2



SCALE: 3" = 1'-0"

DOOR HEAD 3

COLOR/MATERIAL LEGEND

CODE	MATERIAL NAME	MANUFACTURER	PRODUCT	COLOR	SIZE	NOTES
CMU-1	SPLIT FACE CMU	ANGELUS BLOCK CO, INC.	-	SANDSTONE	8X8X16	PROVIDE ANTI-GRAFFITI COATING
CMU-2	PRECISION CMU	ANGELUS BLOCK CO, INC.	-	SANDSTONE	8X8X16	PROVIDE ANTI-GRAFFITI COATING
CMU-3	SPLIT RIBBED CMU - 4 RIB	ANGELUS BLOCK CO, INC.	-	SANDSTONE	8X8X16	PROVIDE ANTI-GRAFFITI COATING
PT-1	PAINT	SHERWIN WILLIAMS	-	SW 7548 PORTICO		DOORS, FRAMES, FLASHING, OVERHANG FRAME

DOOR SCHEDULE

MARK	TYPE	DOOR SIZE (FT-IN) WIDTH	HEIGHT	THICKNESS	DOOR MAT.	DOOR FIN.	FRAME MAT.	FRAME FIN.	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	FIRE RATING LABEL	HARDWRE SET #	COMMENTS
01A	1	6'-0"PR	7'-0"	1-3/4"	HM	PT-1	HM	PT-1	3/THIS SHEET	5/THIS SHEET	4/THIS SHEET		1	
01B	2	3'-0"	7'-0"	1-3/4"	HM	PT-1	HM	PT-1	3/THIS SHEET	5/THIS SHEET	4/THIS SHEET		2	

MANUFACTURER'S ABBREVIATIONS

BE	BEST ACCESS SYSTEMS	LOCKS, CYLINDERS
NA	NATIONAL GUARD	GASKETS, THRESHOLDS
ST	STANLEY	HINGES
TR	TRIMCO	FLUSH BOLTS, FLAT GOODS

FINISH LIST

626/652	SATIN CHROME
630	SATIN STAINLESS STEEL
689	PAINTED ALUMINUM

OPTION LIST

B4E	BEVELED FOUR EDGES - KICK PLATES (TRIMCO)
CS	COUNTER SINKING - KICK PLATES (TRIMCO)
SSMS/EA	STAINLESS MACHINE SCREWS/EXPANSION ANCHORS (NGP)
SMS-TEKS	SELF-DRILLING MACHINE SCREWS (NGP)

DOOR HARDWARE SET 1 - EXTERIOR PAIR

6 HINGES	FBB199 4 1/2 X 4 1/2 NRP	630	ST
2 FLUSH BOLTS	3917-12	626	TR
1 LOCKSET	45H-7D15H PATD	626	BE
2 CLOSER/STOP	HD7016 SDS	689	BE
2 KICK PLATE	K0050 10" X 2" LDW B4E CS	630	TR
1 DRIP CAP	16 A FHW SMS-TEKS		NA
1 GASKETING	700 NA SMS-TEKS		NA
1 ASTRAGAL GASKET		5040 B	NA
2 DOOR SWEEP	200 NA SMS-TEKS		NA
1 SADDLE THRESHOLD		426 SSMS/EA	NA

DO NOT CUT WEATHERSTRIP - TEMPLATE HARDWARE ACCORDINGLY. ASTRAGAL ON INACTIVE LEAF BY DOOR MANUFACTURER. VERIFY THRESHOLD APPLICATION.

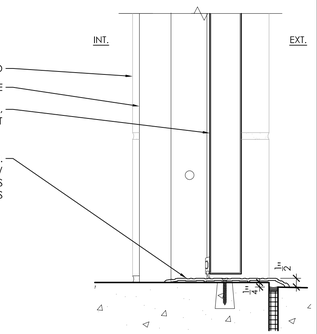
DOOR HARDWARE SET 2 - EXTERIOR SINGLE

3 HINGES	FBB199 4 1/2 X 4 1/2 NRP	630	ST
1 LOCKSET	45H-7D15H PATD	626	BE
1 CLOSER/STOP	HD7016 SDS	689	BE
1 KICK PLATE	K0050 10" X 2" LDW B4E CS	630	TR
1 DRIP CAP	16 A FHW SMS-TEKS		NA
1 GASKETING	700 NA SMS-TEKS		NA
1 DOOR SWEEP	200 NA SMS-TEKS		NA
1 SADDLE THRESHOLD		426 SSMS/EA	NA

DO NOT CUT WEATHERSTRIP - TEMPLATE HARDWARE ACCORDINGLY. VERIFY THRESHOLD APPLICATION.

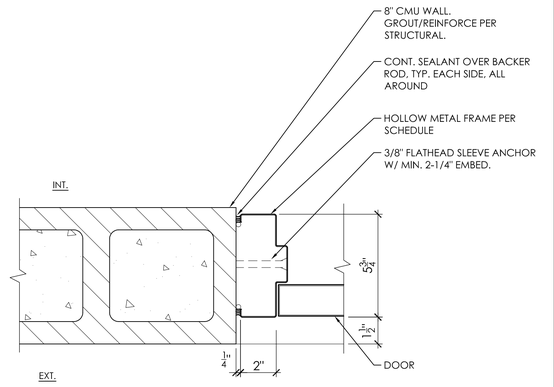
DOOR HARDWARE NOTES:

1. Provide hardware for all openings, whether specified or not, in compliance with NFPA Standard No. 80, proper operation and local building code requirements. Where required, provide only hardware which has been tested and listed by UL or FM for types and sizes of doors required and complies with requirements of door and door frame labels. Label hardware, as required, for compliance with pressure testing criteria as dictated in IBC.
2. Provide hardware which meets or exceeds handicap accessibility per local building code requirements. Conform to the Americans with Disabilities Act (ADA) of 1990 as amended by the D.O.J. September 15, 2010, as adopted by the Authority Having Jurisdiction (AHJ).
3. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI A156 series standard for each type hardware item and with ANSI A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.
4. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware which has been prepared for self tapping sheet metal screws, except as specifically indicated.
   - Screws: Furnish screws for installation, with each hardware item. Provide Phillips flat head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finishes of such other work as closely as possible, including "prepared for paint" in surfaces to receive painted finish.
   - Concealed Fasteners: Provide concealed fasteners for hardware units which are exposed when door is closed, except to extent no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work, except where it is not feasible to adequately reinforce the work. In such cases, provide sleeves for each thru-bolt or use sex screw fasteners.
5. Hinges: Manufacturer - Stanley; Substitutions - Hager, McKinney. Provide only template produced units. Furnish Phillips flat head or machine screws for installation of units. Finish screw heads to match surface of hinges.
6. Lock cylinders: Manufacturer - Best Cormax Patented; Approved Substitutions - Match existing system - coordinate with the City of Beaumont.All lock cylinders shall be equipped with 7-pin tumbler small format interchangeable core lock cylinders. The interchangeable core shall be removable by a special control key. The control key shall have no cuts in common with grandmaster keys which operate with a shear line completely independent from the shear line of the grandmaster, master, and operating keys. All cores shall have a special limited keyway and shall be removable without removing the cylinder, knob, or core housing of any type lock or lockset. The removable core shall be instantly interchangeable without modification for use in any lock throughout the system. Provide brass construction cores for the construction period. Plastic construction cores are not acceptable. Construction cores shall remain the property of the hardware supplier and will be returned upon incorporation of the permanent key system. Cylinders shall utilize the manufacturer's patented Cormax keyway. Construct lock cylinder parts from brass/bronze, stainless steel, or nickel silver.
7. Keys, keying, and key control: Provide keys of nickel silver only. Deliver keys to the Owner's representative: Send masterkeys to Owner via U.S. registered mail direct from hardware supplier. Comply with Owner's written instructions for masterkeying and, except as otherwise indicated, provide individual change keys for each lock which is not designated to be keyed alike with a group of related locks. Grandmaster key all cylinder items to coordinate with the Owner's new patented masterkey system. Permanently inscribe each key with the notation "DO NOT DUPLICATE". Provide cylinder units with concealed key control and keys with visual key control.
8. Locksets, latchsets, and privacy sets: Manufacturer - Best 45H; Substitutions - Dorma M9000. Provide manufacturer's standard wrought box strike for each latch or lock bolt. Provide dust-proof strikes for foot bolts, except where not available. At these locations, provide manufacturer's standard recessed strike. Provide roller type strikes where recommended by lock, latch or bolt manufacturer. Provide 3/4" minimum throw of mortise type latches and deadbolts used. Cylindrical latches will be 1/2" minimum. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings. Locks and latches shall be warranted for a period of five years.
9. Closers: Manufacturer - Best HD7016; Substitutions - Stanley QDC100. Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit, depending on the size of the door, exposure to weather and anticipated frequency of use. Provide manufacturer's standard through bolt attachment at all applications. Provide parallel arms for all overhead closers, except as otherwise indicated. Provide drop plates as needed to prevent glazing interference. Mount all closers to the maximum allowable degree of opening by the closer manufacturer's template. Where closer arms incorporate dead stop features, mount closers to the maximum degree of opening available before conflict with adjacent structures. If not apparent on the contract documents, verify the use of open space with the Architect or Owner's Representative to determine the maximum allowable degree of opening. Door closers and related hardware shall be warranted for a period of twenty-five years.
10. Protection plates: Manufacturers - Trimco; Substitutions - Hager, Tice. Provide manufacturer's standard exposed and countersunk Phillips head fasteners for door trim units; either machine screws or self tapping sheet metal type screws per manufacturer's recommendations for application to the specified door construction. Fabricate protection plates (armor, kick or mop) not more than 2" less than door width on stop side and not more than 1" less than door width on pull side, by the height indicated. Stainless Steel, 18 gauge (0.050) thick. Satin finish, US32D (630), beveled four edges (B4E).
11. Gaskets and sweeps: Manufacturer - National Guard; Substitutions - Pemko, Reese. Except as otherwise indicated, provide continuous weatherstripping at each edge of every exterior door leaf. Provide non-corrosive fasteners as recommended by the manufacturer for applications indicated. Replaceable seal strips: Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by the manufacturer. Perimeter weatherstripping: Flexible, hollow neoprene bulb or loop insert, conforming to MIL R 6055, Class II, Grade 40. Where two types of perimeter gaskets are specified, apply them not to conflict and per gasket manufacturer's recommendations. Weatherstripping at Door Bottoms: Provide door bottoms consisting of contact type resilient insert and metal housing of design and size indicated. Gaskets and sweeps shall be warranted for a period of three years.
12. Thresholds: Manufacturer - National Guard; Substitutions- Pemko, Reese. Except as otherwise indicated provide standard metal threshold unit of type, size and profile as detailed or scheduled. All thresholds will be supplied with the SIA abrasive finish unless noted otherwise. Where there is conflict between scheduled thresholds and details, details shall have precedence. Revise details only if necessary to comply with handicap accessibility requirements. Notify the Architect of such required modifications. Verify threshold details or conditions at all openings to ensure that the openings receive proper applications for weather seal or floor transition whether specified or not.Thresholds and related items shall be warranted for a period of three years, abrasive coatings shall be warranted for a period of ten years.



SCALE: 3" = 1'-0"

DOOR THRESHOLD 4



SCALE: 3" = 1'-0"

DOOR JAMB 5

DIGALERT Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "O 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMEOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST, INSIDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON.
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS	CITY	

Platt/Whitelaw Architects,Inc.
4034 30TH STREET
SAN DIEGO, CALIFORNIA
92104

NAVEEN WAHEY, AIA DATE

SEAL: REGISTERED ARCHITECT NAVEEN H. WAHEY C-33668 EXP. 08-31-23 STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC. NOV. 16, 1912

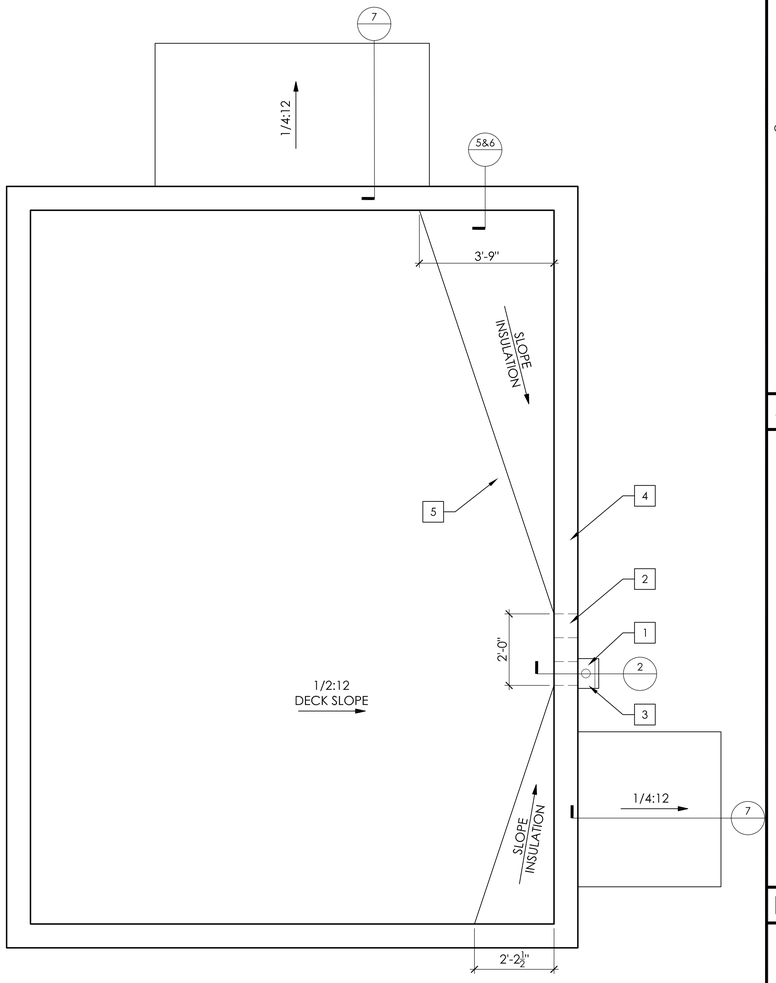
Reviewed By: _____ Staff Engineer Date: _____
Recommended for Approval By: _____ Administrative Engineer Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
FINISHES AND DOORS

SHEET 37 OF 38 SHEETS
FILE NO: 3387

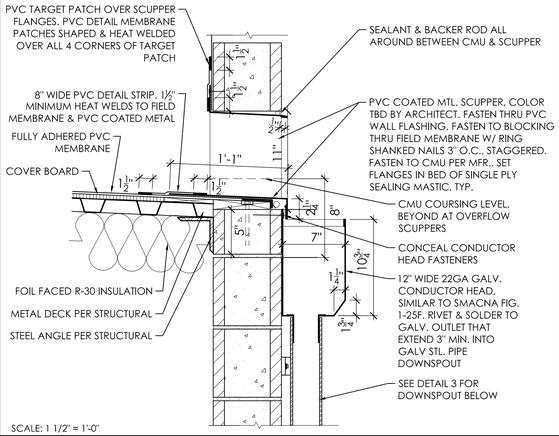
Plotted By:Kelkov Sheet Set:BEAUMONT LIFT STATION Layout:A1 Finishes and Doors August 12, 2021 12:29:59pm J:\0611 Beaumont Lift Station\03-Drawings\Beaumont Lift Station\Sheets\A1 Finishes and Doors.dwg



ROOF PLAN | 1

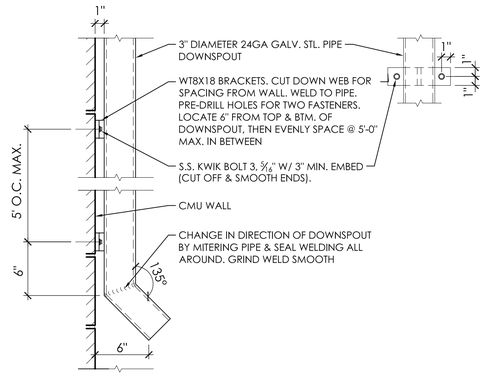
KEYNOTES

1. SCUPPER OPENING PER DETAIL 2 THIS SHEET
2. OVERFLOW OPENING PER DETAIL 2 THIS SHEET, SIMILAR
3. CONDUCTOR HEAD & DOWNSPOUT PER DETAILS 2,3,&4 THIS SHEET
4. ALUMINUM COPING SYSTEM PER DETAIL 5 THIS SHEET
5. CRICKET
6. OVERHANG



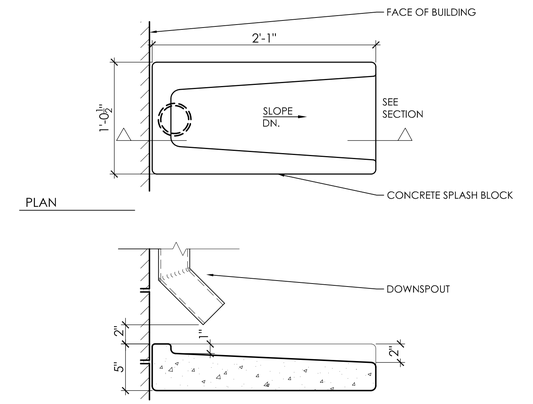
SCALE: 1 1/2" = 1'-0"

SCUPPER DETAIL (OVERFLOW SIMILAR) | 2



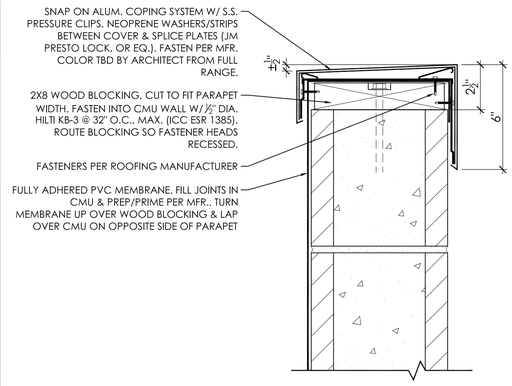
SCALE: 1 1/2" = 1'-0"

DOWNSPOUT DETAIL | 3



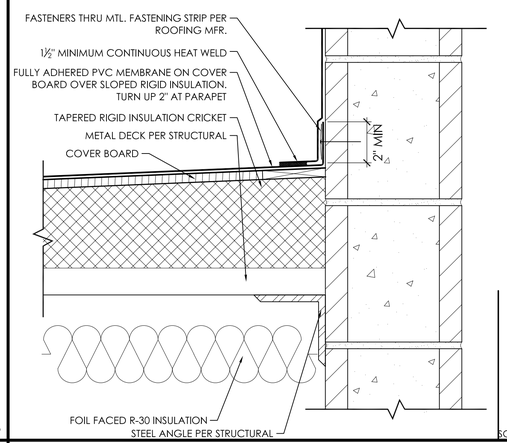
SCALE: 1 1/2" = 1'-0"

SPLASH BLOCK DETAIL | 4



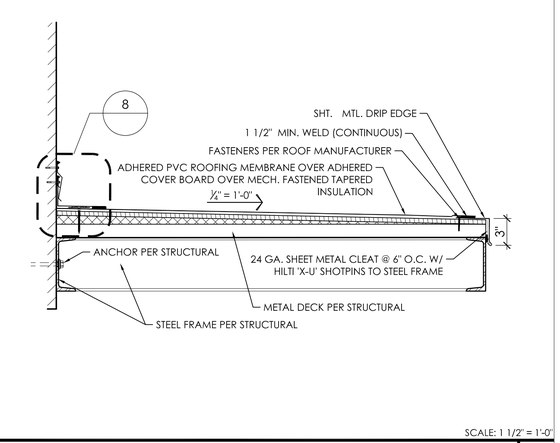
SCALE: 3" = 1'-0"

PARAPET COPING | 5



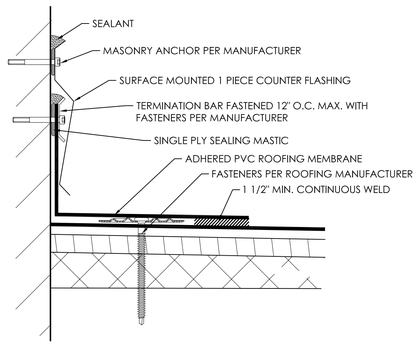
SCALE: 3" = 1'-0"

PARAPET BASE DETAIL | 6



SCALE: 1 1/2" = 1'-0"

OVERHANG DETAIL | 7



SCALE: 6" = 1'-0"

OVERHANG @ WALL | 8

DIGALERT — Call 2 Working Days Before You Dig! 811

BENCHMARK:
NATIONAL GEODETIC SURVEY BENCHMARK NO. "Q 1311
1.4 MILES WEST OF BEAUMONT ON INTERSTATE 10 TO SAN TIMOTEO CANYON NEAR FRONTAGE ROAD ON SOUTH(WEST) SIDE OF INTERSTATE 10, 0.1 MILES SOUTHEAST ALONG FRONTAGE ROAD, SOUTH ACROSS THE ROAD FROM A GUY POLE 25.9 FEET SOUTH OF THE CENTERLINE OF FRONTAGE ROAD, 1.8 FEET WEST OF POWERPOLE AND 1.5 FEET EAST OF A WITNESS POST; INSDE A 4 INCH PVC PIPE WITH SCREW PLUG 1 INCH ABOVE GROUND (ELEVATION = 2468.07). ALSO SHOWN ON "HIGHWAY 60 / POTRERO BLVD. INTERCHANGE STATIC GPS PROJECT CONTROL DIAGRAM" AND IDENTIFIED THEREON AS 3508 BM DX3474 WHEREIN THE PUBLISHED ELEVATION = 2468.07 IS CORRECTED WITH A MEASURED ELEVATION = 2468.01', USED HEREON..
ELEV. 2468.01, (NVD '88), (STAMPED Q 1311 1978)

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER	1	REVISIONS	CITY	

Platt/Whitelaw Architects,Inc.
4034 30TH STREET
SAN DIEGO, CALIFORNIA
92104

NAVEEN WAHEY, AIA — DATE

SEAL: REGISTERED ARCHITECT, NAVEEN H. WAHEY, C-33660, EXP. 08-31-23, STATE OF CALIFORNIA

DESIGN BY: SLM
DRAWN BY: RC/SW
CHECKED BY: TW/SS
SCALE:
DATE:
JOB NUMBER: 195284001

CITY of BEAUMONT CALIFORNIA INC:NOV:16:1912

Reviewed By: _____ Staff Engineer — Date: _____
Recommended for Approval By: _____ Administrative Engineer — Date: 11/19/2021
Approved By: _____ City Engineer/Director of Public Works — Date: 11/23/2021

CITY OF BEAUMONT, PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
550E. 6th St
Beaumont, CA 92223
TEL: (951) 769-8520 FAX: (951) 769-8526

CITY OF BEAUMONT, CALIFORNIA
IMPROVEMENT PLANS FOR:
BEAUMONT CROSSROADS LIFT STATION
ROOF DETAILS

SHEET 38 OF 38 SHEETS
FILE NO: 3387

Plotted By:Kvlkov Sheet Set:BEAUMONT LIFT STATION Layout: A2 Roof Details August 12, 2021 12:30:57pm J:\0611 Beaumont Lift Station\03-Drawings\Beaumont Lift Station\Sheets\A2 Roof Details.dwg