

MARGIE R. IBARRA  
COUNTY CLERK  
FILED

**Construction Contract  
Welch Road Culvert Improvements**

2022 JUN 30 AM 10:48

STATE OF TEXAS §

WEBB COUNTY, TEXAS

**KNOW ALL MEN BY THESE PRESENTS:**

COUNTY OF WEBB §

BY  DEPUTY

This Agreement is made and entered into by and between **WEBB COUNTY, TEXAS**, a Political Subdivision of the State of Texas (hereinafter "Owner") and **Gil Mar Construction LTD**, (hereinafter "Contractor").

**WHEREAS** at the Webb County Commissioner's Court Meeting held on April 11, 2022, the Court, pursuant to Webb County's Invitation to Bid (I.T.B.) 2022-11 entitled "**Welch Road Culvert Improvements**", and Contractor's responsive bid proposal, attached hereto as Exhibit "A", awarded this Project to Gil Mar Construction LTD.

For and in consideration of the mutual covenants herein set forth, and other good and valuable consideration, the Parties do hereby agree as follows:

1. **DESCRIPTION OF PROJECT:** Construction of a multi-box culvert with headwalls, aprons and channel grading (and as further identified in the Construction/Plans/Drawings Exhibit "C").
2. **PREMISES DEFINED:** Welch road culvert is located approximately .52 miles north of the intersection of Hwy. 359 and Welch Road (Exhibit "B") and as further depicted on Sheet 3 of the Construction Plans. .
3. **SCOPE OF WORK:** Construction of a multi-box culvert with headwalls, aprons and channel grading (and as further identified in the Construction/Plans/Drawings Exhibit "C"). The work includes all appurtenances and all incidentals, including all labor and materials as shown and required by the construction documents. The Scope Of Work is all of the Work, including all appurtenances and all incidentals, all labor and materials, as shown and required by the construction documents, which are hereby incorporated by reference. Contractor agrees that all work shall be performed in a good and workmanlike manner and all materials incorporated into the work shall be new materials.
4. **CONTRACT SUM:** In exchange for Contractor's performance of services under this Agreement, Owner shall pay Contractor the following amount(s): Five Hundred Twenty-Eight Thousand Nine Hundred Dollars (**\$528,900.00**). Any and all payments/disbursements by Webb County shall be made payable to contractor based on an numbered and itemized payment application for percentage of completion of the various base bid item(s), less retainage, for the project as agreed to and made by Contractor to Owner, which shall be approved by **Luis Perez-Garcia, P.E., Webb County Engineer, and/or Guillermo Cuellar, P.E., Webb County Engineering Dept.**, after inspecting the progress of completed work and materials on site at the Premises. Said approvals shall not be unduly withheld or delayed.

5. Owner shall make final payment (including the costs and expenses incurred due to change order(s) completed during this project and completion of the Work and then release the **Five percent (5%) retainage** that OWNER previously retained) to Contractor on the day the Project is completed approved and accepted by OWNER. Said approvals shall not be unreasonably withheld or delayed.
6. **It is hereby expressly acknowledged, consented and agreed to by Contractor that the final payment due for the services rendered pursuant to this Agreement shall not be issued to Contractor until Contractor has submitted a signed and sworn "Final Bills Paid Affidavit" confirming payment to each of its subcontractors, laborers, suppliers, and materialmen in full for all labor and materials furnished to Contractor for or in connection with, renovation of, or repair of improvements on or relating to the subject project/property or any portion thereof, pursuant to and in accordance with Sections 53.085 and 53.259 of the Texas Property Code, and that the intentional, knowing, or reckless making of a false or misleading statement in the Affidavit constitutes a criminal offense under said sections cited herein-above and is a Class A Misdemeanor.**
7. **RETAINAGE:** OWNER shall withhold from each installment payment to CONTRACTOR a retainage of FIVE (5%) percent. The retainage shall be paid to CONTRACTOR upon final completion of the work. Completion of the work shall be considered final upon acceptance and written approval by OWNER or his designated representative of the project.
8. **CHANGE ORDERS:** In the event either party requests a change from the agreed Scope of Work or Quote in this Agreement, a written change order making such a request shall be prepared by Contractor in accordance with the proposed change. If the Owner or a Third-Party Inspector ("Inspector") requests a change be executed, Owner or Inspector shall, in a timely manner, inform Contractor (via email) of the request. Contractor shall then prepare a written change order in accordance with said request and submit to Owner for Owner's approval and signature. As soon as Owner signs the change order approving the proposed change, Owner shall submit, via email, the approved/signed order to Contractor. Contractor shall begin performance in accordance with the change order only after Contractor receives the written and approved/signed change order. If Contractor requests a change order, Contractor shall prepare a written change order, submit it to Owner for its approval and signature, and the resultant change will only begin on the approved change after Contractor receives the signed change order. Change orders may increase the payment the Owner must pay to Contractor. **IN NO EVENT SHALL THE TOTAL COST OF CHANGE ORDERS EXCEED TWENTY-FIVE PERCENT (25%) OF THE TOTAL AMOUNT OF THIS AGREEMENT.**
9. **NOTICES/CONTACT PERSONS:** Any notice or communication required or permitted to be given hereunder shall be sufficient if sent via electronic transmission to the contact persons for CONTRACTOR and/or OWNER as follows:

To Contractor at:                     Gil Mar Construction LTD  
Attn: Sergio Alberto Aradillas

9804 Starla Ct.  
Laredo, Texas 78045  
Phone: (956) 645-7379  
E-Mail: [gilmar5493@sbcglobal.net](mailto:gilmar5493@sbcglobal.net)

To Webb Engineer at: WEBB COUNTY, TEXAS  
Attn: Webb County Engineer  
Webb County Engineering Dept.  
(956) 523-4054  
Email: [lperezgarcia@webbcountytx.gov](mailto:lperezgarcia@webbcountytx.gov)

- 10. DATE OF COMMENCEMENT: Contractor shall commence construction on the date set forth in the Notice to Proceed which said Notice to Proceed shall not issue before July 15, 2022 unless a prior date is agreed to in writing by Contractor.**
- 11. SUBSTANTIAL COMPLETION:** Substantial Completion is the stage in the progress of the completion of the work covered by this Agreement where the work on the Premises is sufficiently complete in accordance with the work specified in "Scope of Work" as set forth in **3. SCOPE OF WORK**, above, including completion of all post-construction clean-up on and about the Premises, which shall be required to be confirmed in writing as being substantially completed, by the execution and issuance of a Certificate of Substantial Completion that is dated and signed by both the Webb County Project Engineer and Owner, so that the Owner (or Owner's tenant) can occupy and/or utilize the Premises for its intended use. Substantial Completion deadline is to be extended as provided in the General Conditions and/or because of things outside the control of Contractor such as: (a) acts of God; (b) flood, fire, earthquake or explosion; (c) war, invasion, hostilities (whether war is declared or not), terrorist threats or acts, riot or other civil unrest; (d) government order or law; (e) actions, embargoes or blockades in effect on or after the date of this Agreement; (f) action by any governmental authority; (g) national or regional emergency; (h) strikes, labor stoppages or slowdowns or other industrial disturbances; (i) epidemic, pandemic or similar influenza or bacterial infection (which is defined by the United States Center for Disease Control as virulent human influenza or infection that may cause global outbreak, or pandemic, or serious illness); (j) emergency state; and (k) other similar events beyond the reasonable control of the Contractor (the foregoing is referred to as "Force Majeure").
- 12. DATE FOR FINAL COMPLETION/LIQUIDATED DAMAGES:** The date of final completion of this construction project shall be **One Hundred Eighty (180) CALENDAR DAYS** after the date of commencement of construction as set forth in the written and dated Notice to Proceed issued by Owner to Contractor.
- 13.** The time set forth in the proposal for the completion of the Work is an essential element of the Agreement. For each working day under the conditions described in the preceding Paragraph that any work shall remain uncompleted after the expiration of the working days specified in the Agreement, together with any additional working days allowed, the amount per day given in Section 15., below, will be deducted from the money due or to become due the Contractor,



not as a penalty but as liquidated damages.

14. Said Contractor further agrees to **CONTINUOUSLY PURSUE AND COMPLETE THE WORK** within **ONE HUNDRED EIGHTY (180) CALENDAR DAYS** from date of commencement.
15. **Contractor and Owner do hereby acknowledge that "actual damages are uncertain and would be difficult to ascertain" and therefore both parties do hereby mutually agree that the following stipulated sum of per diem liquidated damages is a reasonable amount. The parties further express and acknowledge that the amount of liquidated damages is meant to be "compensatory" and not "punitive", and Contractor further agrees to pay, as liquidated damages, the sum of FOUR HUNDRED DOLLARS (\$400.00) per day for each consecutive calendar day there-in-after the date of Substantial Completion and after the date of Final Completion.**
16. **INSURANCE: Contractor and Subcontractor Insurance:** The financial integrity of Contractor is of interest to the Owner, therefore, subject to the right of Contractor to maintain reasonable insurance deductibles in such amounts as are approved by the Owner. Contractor shall obtain and maintain in full force and effect for the entire duration of this agreement, and any extension hereof, at Contractor's sole expense, insurance coverage written on an occurrence basis, by companies authorized and admitted to do business in the State of Texas and rated A- (VII) or better by A.M. Best Company (Best's Key Insurance Company Rating Guide, current edition and/or as amended) and/or otherwise acceptable to Webb County/Webb County Risk Manager, the following types and amounts:
  - a. The Contractor shall not commence work under this Agreement until it has obtained all the insurance required and such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work on its Subcontract until the insurance required of the Subcontractor has been so obtained and approved. The Contractor shall procure and shall maintain during the life of his Contract, insurance in the amounts required.
17. **PAYMENT AND PERFORMANCE BONDS: \*\*\*PLEASE BE ADVISED THAT THIS PROJECT REQUIRES BOTH A PAYMENT & PERFORMANCE BOND FROM THE CONTRACTOR.\*\*\***
18. **Contractor shall supply the required Performance/Payment bonds to the Webb County Purchasing Director within Seven (7) days of execution of this Agreement or not later than Two (2) working days prior the date of the scheduled pre-construction meeting which shall be the "DEADLINE" for compliance herewith and which both parties have mutually agreed to as an "Express Condition Precedent" to this contract.**
  - a. Bonds must be issued by companies authorized and admitted to do business in the State of Texas and rated A-:VII or better by A.M. Best Company (Best's Key Rating Guide, current Edition, and as amended) and/or otherwise acceptable to the Owner.



**19. NOTICE TO PROCEED SHALL NOT BE ISSUED TO THE CONTRACTOR BY WEBB COUNTY WITHOUT THE DELIVERY OF ALL STATUTORILY REQUIRED PERFORMANCE AND/OR PAYMENT BONDS AND PROOF OF ALL REQUIRED INSURANCE POLICIES TO WEBB COUNTY BY CONTRACTOR NOT LATER THAN TWO (2) WORKING DAYS PRIOR THE DATE OF THE SCHEDULED PRE-CONSTRUCTION MEETING "DEADLINE". FAILURE OF CONTRACTOR TO PROVIDE SAID BONDS AND/OR INSURANCE POLICIES BY THE DEADLINE SHALL CONSTITUTE A DEFAULT OF YOUR CONTRACT AND WEBB COUNTY SHALL AT THEIR SOLE OPTION AWARD THE CONTRACT TO THE NEXT LOWEST BIDDER OR RE-ADVERTISE THIS PROJECT FOR NEW BIDS/PROPOSALS.**

**20. RELATIONSHIP OF PARTIES:** Contractor is engaged under this Agreement as an "INDEPENDENT CONTRACTOR" and not as an agent or employee of Owner. Contractor is not entitled to benefits of any kind to which Owner's employees are entitled, including but not limited to unemployment compensation, workers' compensation, health insurance, or retirement benefits. Contractor assumes full responsibility for payment of all federal, state and local taxes or contributions, including but not limited to, unemployment insurance, social security, Medicare, and income taxes with respect to Contractor and Contractor's employees. This Agreement does not create a partnership or a joint venture between the parties hereto, nor does it authorize either party to serve as the legal representative or agent of the other. Neither party has any right or authority to assume, create, or incur any liability or any obligation of any kind, express or implied, against, or in the name of, or on behalf of the other party.

**21. SUCCESSORS AND ASSIGNS:** This Agreement may not be assigned or subcontracted, in full or in part, by either party without first obtaining written consent of the other party. The parties shall not be relieved of its full responsibility for completion of work because of subletting of any portion of the work. This Agreement shall be binding upon and shall ensue to the benefit of the parties hereto and their respective successors, transferees, and assigns.

**22. INDEMNITY:** CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD WEBB COUNTY, IT'S COMMISSIONERS COURT, DIRECTORS, EMPLOYEES, AND AGENTS HARMLESS FROM ANY AND ALL LOSS, EXPENSE, COST, OR LIABILITY (INCLUDING REASONABLE LEGAL FEES AND EXPENSES), DIRECTLY ARISING FROM ANY CLAIM OR CAUSE OF ACTION FOR ANY LOSS OR DAMAGE CAUSED BY OR ARISING FROM THE PERFORMANCE OF CONTRACTOR'S OBLIGATIONS UNDER THIS AGREEMENT, INCLUDING, BUT NOT LIMITED TO, THE CONDUCT OF CONTRACTOR'S EMPLOYEES AND/OR ANY ACTS PERFORMED UNDER THIS CONTRACT AND THAT RESULT FROM ANY NEGLIGENT ACT, ERROR, OR OMISSION OF THE CONTRACTOR OR OF ANY PERSON EMPLOYED BY THE CONTRACTOR. IN CASE OF ANY SUCH CLAIM, CONTRACTOR, UPON NOTICE FROM OWNER, COVENANTS TO DEFEND ANY SUCH ACTION OR PROCEEDING. THE CONTRACTOR SHALL ALSO SAVE AND HOLD HARMLESS THE OWNER FROM AND AGAINST ANY AND ALL EXPENSES, COURT COSTS, INCLUDING, BUT NOT LIMITED TO,

**ATTORNEY'S FEES THAT MIGHT BE INCURRED IN LITIGATION OR OTHERWISE DEFENDING OR PROSECUTING THE CLAIMS.**

23. **COMPLIANCE WITH LAWS:** Contractor agrees that it will, in its performance of its obligations hereunder, fully comply with all applicable laws, regulations and ordinances of all relevant authorities, including, but not limited to, those pertaining to safety, and shall obtain all licenses, registrations, or other approvals required in order to fully perform its obligations hereunder. Contractor represents and warrants that all improvements made to the property shall comply with the Americans with Disabilities Act (ADA) and all other applicable Federal/State Codes, regulations, and laws.
24. **SEVERABILITY:** Should any part of this Agreement be rendered or declared invalid by a court of competent jurisdiction of the State of Texas, such invalidation of such part or portion of this Agreement shall not invalidate the remaining portions thereof, and they shall remain in full force and effect.
25. **GOVERNING LAW/VENUE:** This agreement shall be governed by and construed and interpreted in accordance with the laws of the State of Texas, without regard to choice of law rules of any jurisdiction. The parties hereby further agree that for any litigation regarding this agreement that venue lies exclusively in the State Courts of Webb County, Texas.
26. **DEFAULT AND TERMINATION:** In the event either party interferes with the general progress of this Project intentionally, or by negligence, or intentional or negligent delay, the non-defaulting party may complete the same or cause the same to be completed and charge all sums of money so expended for the completion of this Agreement against the defaulting party, and the defaulting party shall reimburse the non-defaulting Party for any loss sustained thereby.
27. **ATTORNEY'S FEES:** In the event either party breaches any of the terms of this Agreement whereby the party not in default employs attorneys to protect or enforce its rights hereunder and prevails, then the defaulting party agrees to pay the other party reasonable attorney's fees incurred by such other party.
28. **ENTIRE AGREEMENT:** This Agreement and its Exhibits shall constitute the complete and exclusive written expression of the intentions of the parties hereto and shall supersede all previous communications, representations, agreements, promises or statements, either oral or written, by and between the parties. Any modifications to this Agreement must be in writing and signed by the party sought to be bound.
29. **EXHIBITS:** The following documents are attached hereto and fully incorporated herein by reference and made a part of this agreement as if fully set forth herein:
1. **Contractor's Bid Proposal** together attached hereto as **Exhibit "A"**.
  2. Description of Premises **Exhibit "B"**

3. Construction/Plans/Drawings **Exhibit "C"**.
  4. Webb County's General Conditions, **Exhibit "D"**.
  5. Payment Bond - See sample form: (To be provided by Contractor Prior to Issuance of Notice to Proceed). (See Section 14\*\*), **Exhibit "E"**.
  6. Performance Bond – See sample form: (To be provided by Contractor Prior to Issuance of Notice to Proceed). (See Section 14\*\*), **Exhibit "F"**.
  7. Insurance Coverages, Liability, Worker's Comp., Builder's Risk, etc. (To be provided by Contractor Prior to Issuance of Notice to Proceed), **Exhibit "G"**.
  8. Webb County's Notice to Proceed Letter - See sample form **Exhibit "H"**.
- 30. OMISSIONS:** If any punctuation, word, clause, sentence, or provision necessary to give meaning, validity, or effect to any portion of this Agreement shall be omitted here-from, then it is hereby declared that such omission was unintentional and that the omitted element shall be included in order to give meaning, validity, and/or effect to any portion of this Agreement.
- 31. MATERIALMEN/SUPPLIERS:** Contractor within 10 days from the date of the execution of this agreement shall provide an updated and current listing of all Subcontractors and/or Materialmen or Suppliers, and all laborers, used by the Contractor to Webb County and Contractor shall notify the Owner in writing whenever changes occur, and Contractor shall provide the Owner with an updated listing within FIVE (5) working days of upon request for an updated listing. Contractor will immediately notify the Owner in writing of any Subcontractors and/or Materialmen or Suppliers, and all laborers, independent contractors, and/or other such materialmen and/or suppliers services that are discontinued and/or that have been added to their workforce.
- 32. REQUEST FOR PAYMENT SUBMISSION:** All request for payments are to be made payable to Contractor by dated and signed invoice(s). Said invoice and/or request for progress payments shall be submitted in writing to **Luis Perez-Garcia, P.E., Webb County Engineer**, or its designated and authorized representative, on behalf of Owner for review and approval of same. Upon review and approval of the request for payment by **Luis Perez-Garcia, P.E., Webb County Engineer**, on behalf of Owner, the Webb County Engineer shall then forward the approved request for the payment amount **less Five percent (5%) retainage** to the Webb County Business Office to process the progress payment request. Payment will be mailed to Contractor or made available for pick up at the Webb County Business Office.
- 33. COMPLIANCE WITH APPLICABLE LAWS AND ORDINANCES:** Contractor agrees to comply at all times with all federal, state, county, and/or City of Laredo building, development codes, city building permits, rules, regulations, ordinances and laws, and Contractor shall not permit the Premises or any part thereof to be used for (a) any offensive, noisy, or dangerous activity that would pose a health or safety risk; (b) the creation or maintenance of a public nuisance, (c) anything which is against public regulations or rules of any public authority at any



time applicable to the Premises; or (d) any purpose or any manner which will obstruct, interfere with, or infringe on the rights of other tenants or adjoining properties.

**34. LEGAL CONSTRUCTION:** In case any one or more of the provisions contained in the Agreement shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision thereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

**35. AMENDMENT:** No amendment, modification, or alteration of the terms of this Agreement hereof shall be binding unless the same be in writing, dated subsequent to the date hereof, and approved by the Webb County Commissioner's Court and duly executed by both of the parties hereto.

**36. TIME OF ESSENCE:** Time is of the essence of this Agreement and each and every covenant, condition, and provision herein contained.

**37. ADDITIONAL PROVISIONS:**

a. **Inconsistencies.** Where there exists any inconsistency between this Agreement and other provisions of collateral contractual agreements that are made a part hereof by reference or otherwise, the provisions of this Agreement shall control.

b. **Entire Agreement.** This Agreement incorporates all the agreements, covenants, and understandings between the parties hereto concerning the subject matter hereof, and all such covenants, agreements, and understandings have been merged into this written Agreement. No other prior agreement or understandings, verbal or otherwise, of the parties or their agents shall be valid or enforceable unless signed by both parties and attached hereto and/or embodied herein.

c. **No rights created.** This Agreement is not intended and does not create any rights or interest in persons not a party hereto.

d. **Confidentiality.** Any confidential information provided to or developed by Consultant in the performance of this Agreement shall be kept confidential, unless otherwise provided by law, and shall not be made available to any individual or organization without the prior approval of **WEBB COUNTY**.

e. **Headings.** The headings used herein are for convenience of reference only and shall not constitute a part hereof or affect the construction or interpretation hereof.

f. **Waiver.** The failure on the part of any party to exercise or to delay in exercising, and no course of dealing with respect to any right hereunder shall operate as a waiver thereof; nor shall any single or partial exercise of any right hereunder preclude any other or further exercise thereof or the exercise of any other right. The remedies provided herein are


cumulative and not exclusive of any remedies provided by law or in equity, except as expressly set forth herein.

- g. Consequential Damages.** Neither party shall be liable to the other for consequential damages, including, without limitation, loss of use or loss of profits, incurred by one another or their subsidiaries or successors, regardless of whether such damages are caused by breach of contract, will-full misconduct, negligent act or omission, or other wrongful act of either of them.
- h. Counterparts.** This Agreement may be executed in any number of and by the different parties hereto on separate counterparts, each of which when so executed shall be deemed to be an original, and such counterparts shall together constitute but one and the same document.
- i. Terminology and Definitions.** All personal pronouns used herein, whether used in the masculine, feminine, or neutral, shall include all other genders; the singular shall include the plural and the plural shall include the singular.
- j. Rule of Construction.** The parties hereto acknowledge that each party and its legal counsel have reviewed and revised this agreement, and the parties hereby agree that the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of this agreement or any amendments or exhibits hereto.
- k. Submission of Certificate of Interested Parties Form 1295.** Texas Ethics Commission Form 1295 must be submitted prior to the issuance of Notice to Proceed.

This Agreement becomes effective when signed by the last party whose signing makes the Agreement fully executed.

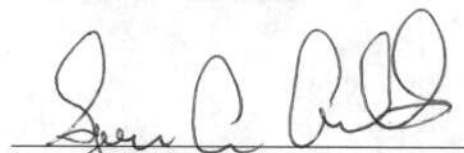
**IN WITNESS WHEREOF**, the parties aforesaid have duly executed the foregoing instrument, or caused the same to be executed in duplicate originals on the dates set forth below.

**WEBB COUNTY**

  
\_\_\_\_\_  
Tano E. Tijerina  
Webb County Judge

**CONTRACTOR**

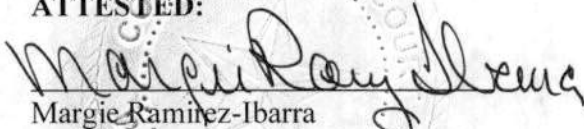
GIL MAR CONSTRUCTION LTD  
BY ARADILLAS & ARADILLAS, LC  
GENERAL PARTNER

  
\_\_\_\_\_  
By: Sergio Alberto Aradillas,  
Member  
Aradillas & Aradillas, L.C.

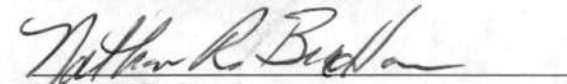
Date: 6-29, 2022

Date: 6-28 - \_\_, 2022

**ATTESTED:**

  
Margie Ramirez-Ibarra  
Webb County Clerk

**APPROVED AS TO FORM:**

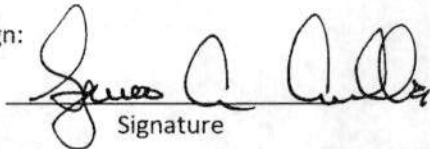
  
Nathan R. Bratton  
Webb County Civil Legal Division

\*By law, this office may only advise or approve contracts or legal documents on behalf of its clients. It may not advise or approve a contract or legal document on behalf of other parties. Our review of this document was conducted solely from the legal perspective of our client. Our approval of this document was offered solely for the benefit of our client. Other parties should not rely on this approval, and should seek review and approval of their own respective attorney(s).



Name of Company: GILMAR CONSTRUCTION LTD  
Address: 9804 STARLA CT  
City and State: LAREDO TEXAS  
Phone: 956 645-7379  
Email Address: gilmar5493@sbcglobal.net

Signature of Person Authorized to Sign:

  
Signature

SERGIO ALBERTO ARADILLAS  
Print Name

OWNER / MANAGER  
Title

Indicate status as to "Partnership", "Corporation", "Land Owner", etc.

\_\_\_\_\_  
3-31-22  
(Date)

Note:

All submissions relative to this ITB shall become the property of Webb County and are nonreturnable.


If any further information is required, please call the Webb County Contract Administrator, Juan Guerrero, at (956)523-4125.

**\*Please place this form as your cover page for this ITB package.**

**THIS FORM MUST BE INCLUDED WITH ITB PACKAGE; PLEASE CHECK OFF EACH  
ITEM INCLUDED WITH RFP PACKAGE AND SIGN BELOW TO CONFIRM  
SUBMITTAL OF EACH REQUIRED ITEM.**

*ITB 2022-011  
"Welch Road Culvert Improvements"*

- Bid Form Signed & Dated
- Bidder Information Form
- Welch Road Culvert Plans
- Conflict of Interest form (Form CIQ)
- Certification regarding Debarment (Form H2048)
- Certification regarding Federal lobbying (Form 2049)
- Proof of No Delinquent Tax Owed to Webb County
- Purchasing Ethics Affidavit Form
- General Conditions – Webb County

 3-31-22  
\_\_\_\_\_  
Signature of Bidder/Date

March 22, 2022

**ADDENDUM #1**

Ref: **Welch Road Culvert Improvements, ITB 2022-011**

Bidders are advised of the following changes and/or clarifications to the plans and specifications:

**Plans:**

**UPDATE VARIOUS CULVERT, GUARDRAIL, AND BARRICADE STANDARDS**

DELETE/Remove Existing Plan Sheets 12 – 22 and Plan Sheets 25 – 27.

ADD/Replace with Attached TxDOT Standard Detail Sheets

**Pre-Bid Meeting Notes:**

Per Technical Specification Sheet D-1: City of Laredo Technical Specification will apply to this project. TxDOT Technical Specifications will apply where referred by City specification and/or where City Specifications do not exist.

Contractor will be responsible for acquiring a marshalling area for materials storage.

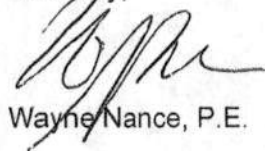
Box Culverts shall be precast meeting TxDOT standards.

Contractor shall maintain access to residents at all times.

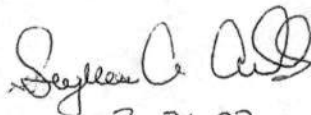
**BIDDERS MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM NO. 1 ON THEIR BID PROPOSAL TO HAVE THEIR BIDS RECOGNIZED.**

A copy of the today's Pre-Bid Conference Attendance Log is attached to this Addendum.

Sincerely,

  
Wayne Nance, P.E.



  
3-31-22



**WEBB COUNTY - WELCH ROAD CULVERT IMPROVEMENTS - BID SCHEDULE**

ITEM NO.	ITEM DESCRIPTION (1)	UNIT	EST. QTY.	UNIT PRICE	TOTAL AMOUNT BID
<b>Schedule of Unit Price Work - BASE BID</b>					
104	Furnish and Install 8" PVC C-900, DR-14, AWWA PR-305 Water Main, Complete in Place at <u>Sixty eight</u> Dollars and <u>Twenty five</u> Cents Per Linear Foot	LF	97	\$ 68. <sup>25</sup>	\$ 6620. <sup>25</sup>
116	Furnish and Provide All Incidentals Necessary for Interconnections to Existing (8") Water Main at <u>Eight hundred + twenty five</u> Dollars and <u>NO</u> Cents Per Each	EA	2	\$ 825. <sup>00</sup>	\$ 1650. <sup>00</sup>
120	Furnish and Install Concrete Encasement at <u>Two hundred + Nineteen</u> Dollars and <u>NO</u> Cents Per Cubic Yard	CY	10	\$ 219. <sup>00</sup>	\$ 2190. <sup>00</sup>
130	Furnish and Install Ductile Iron Compact Mechanical Joint Fittings Complete with Bolts, Glands, Joint Restraints and Polyethylene Wrapping (Restrained) at <u>Nine hundred + forty five</u> Dollars and <u>NO</u> Cents Per Each	EA	4	\$ 945. <sup>00</sup>	\$ 3780. <sup>00</sup>
310.1	Furnish and Install 10'x5' Reinforced Concrete Box Culvert (Precast Units), Complete in Place at <u>One thousand four hundred + sixty three</u> Dollars and <u>NO</u> Cents Per Linear Foot	LF	164	\$ 1,463. <sup>00</sup>	\$ 239,932. <sup>00</sup>
310.2	Furnish and Install Reinforced Concrete Culvert Wingwalls (PW)(Hw=7'), Complete in Place at <u>Twenty three thousand eight hundred</u> Dollars and <u>NO</u> Cents Per Each	EA	2	\$ 23,800. <sup>00</sup>	\$ 47,600. <sup>00</sup>

ITEM NO.	ITEM DESCRIPTION (1)	UNIT	EST. QTY.	UNIT PRICE	TOTAL AMOUNT BID
318	Channel Excavation, Embankment, Compact and Disposal at <u>Eighty five</u> Dollars and <u>NO</u> Cents Per Cubic Yard	CY	120	\$ 85 <sup>00</sup>	\$ 10,200 <sup>00</sup>
402.1	Site Clearing and Grubbing with Removal and Disposal at <u>Eleven thousand four hundred</u> Dollars and <u>NO</u> Cents Per Acre	AC	0.5	\$ 11,400 <sup>00</sup>	\$ 5,700 <sup>00</sup>
402.2	Furnish all Equipment, Labor and Incidentals for "Existing Concrete and Pavement Removal", Complete with Demolition, Removal and Proper Disposal at <u>Thirty five thousand</u> Dollars and <u>NO</u> Cents Per Lump Sum	L.S.	1	\$ 35,000 <sup>00</sup>	\$ 35,000 <sup>00</sup>
408	Furnish and Install 5" Thick Reinforced Concrete Riprap Aprons, Complete with Toewalls and Block Dissipators at <u>Seven dollars</u> Dollars and <u>Twenty five</u> Cents Per Square Foot	SF	6000	\$ 7.35	\$ 44,100 <sup>00</sup>
424	Remove and Replace Existing Barb Wire Fence 5-Strand (Type C), Complete at <u>Twenty six</u> Dollars and <u>NO</u> Cents Per Linear Foot	LF	70	\$ 36 <sup>00</sup>	\$ 2520 <sup>00</sup>
502.1	Street Excavation (Unclassified)(Density Control) at <u>Sixty two</u> Dollars and <u>Fifty</u> Cents Per Cubic Yard	CY	120	\$ 62.50	\$ 7,500 <sup>00</sup>
502.2	Street Embankment (Density Control) at <u>Sixty two</u> Dollars and <u>Fifty</u> Cents Per Cubic Yard	CY	120	\$ 62.50	\$ 7,500 <sup>00</sup>

ITEM NO.	ITEM DESCRIPTION (1)	UNIT	EST. QTY.	UNIT PRICE	TOTAL AMOUNT BID
502.3	Street Subgrade Preparation and Compaction at <u>Thirty four</u> Dollars and <u>Twenty</u> Cents Per Square Yard	SY	710	\$ 34.40	\$ 24,424. <sup>00</sup>
510	Furnish & Install Flexible Caliche Base (8" Compact Thick) at <u>Thirty five</u> Dollars and <u>Ninty five</u> Cents Per Square Yard	SY	710	\$ 35.95	\$ 25,524. <sup>50</sup>
516	Furnish & Install Prime Coat (MC-30) at <u>Five</u> Dollars and <u>Thirty</u> Cents Per Square Yard	SY	670	\$ 5.30	\$ 3551. <sup>00</sup>
520	Furnish and Install Hot Mix Asphalt Pavement 1.5" Compacted Thickness (Type D Surface)(PG 64-22) at <u>Twenty</u> Dollars and <u>Thirty five</u> Cents Per Square Yard	SY	670	\$ 20.35	\$ 13,634. <sup>50</sup>
602	Furnish, Install and Maintain Rock Berm (Type 3) at <u>Sixty five</u> Dollars and <u>NO</u> Cents Per Linear Foot	LF	55	\$ 65. <sup>00</sup>	\$ 3575. <sup>00</sup>
708.1	Furnish and Install Metal/Timber Post Guard Rail at <u>Fifty seven</u> Dollars and <u>Twenty</u> Cents Per Linear Foot	LF	400	\$ 57.40	\$ 22,960. <sup>00</sup>
708.2	Furnish and Install Guard Rail Dnstrm Anchor Terminal at <u>One thousand three hundred</u> Dollars and <u>NO</u> Cents Per Each	EA	2	\$ 1,300. <sup>00</sup>	\$ 2,600. <sup>00</sup>



ITEM NO.	ITEM DESCRIPTION (1)	UNIT	EST. QTY.	UNIT PRICE	TOTAL AMOUNT BID
708.3	Furnish and Install Guard Rail Terminal at <u>Two thousand nine hundred + fifty</u> Dollars and <u>NO</u> Cents Per Each	EA	2	\$ 2,950 <sup>00</sup>	\$ 5,900 <sup>00</sup>
712	Furnish, Install & Maintain Barricades and Traffic Control at <u>Twelve thousand four hundred + thirty eight</u> Dollars and <u>Seventy five</u> Cents Per Lump Sum	LS	1	\$ 12,438 <sup>75</sup>	\$ 12,438 <sup>75</sup>
<b>TOTAL BASE BID ITEMS</b>				\$ 528,900 <sup>00</sup>	

TOTAL BASE BID - PRICE IN WORDS: \$ Five hundred & twenty eight thousand nine hundred <sup>no</sup>/<sub>cent</sub>

Notes:

1. In the event of a discrepancy, unit pricing shall govern.
2. The Owner has the right to reject any or all bids, or otherwise award in its best interest.

PROJECT: Welch Road Culvert Improvements

Contractor: GIL MAR CONSTRUCTION LTD Bidder's Signature: [Signature]

Name: SERGIO ALBERTO ARADILLAS Title: OWNER / MANAGER

Address: 9804 STARLA CT

LAREDO (City) TEXAS (State) 78045 (Zip Code)

Telephone Number: 956-645-7379 Date: 3-31-22

**INFORMATION FROM BIDDERS  
MUST BE FULLY COMPLETED AND SUBMITTED WITH BID PROPOSAL**

**PROJECT:** "Welch Road Culvert Improvements"

Statement of Qualifications: (Similar **CULVERT & DRAINAGE** Projects Completed by Bidder)

1. Name of Project: PLASMA CENTER Date Completed: 11-31-2021  
Location: \_\_\_\_\_ Owner Name & Phone: DAVID CHRISTIE 337-319-1849  
Value of Contract: 9385,000 Engineer Name & Phone: \_\_\_\_\_
  
2. Name of Project: TEXDOT RAISED MEDIAN Date Completed: 9-31-21  
Location: WEBB COUNTY Owner Name & Phone: RAFAEL GUZMAN 956-712-7700  
Value of Contract: \$ 360,000 Engineer Name & Phone: \_\_\_\_\_
  
3. Name of Project: TEX MEX PARKING LOT Date Completed: 12-31-20  
Location: \_\_\_\_\_ Owner Name & Phone: WEBB COUNTY  
Value of Contract: 7312,000 Engineer Name & Phone: LUIS P GARCIA 956-5234125
  
4. Name of Project: TEXDOT EAGLE PASS Date Completed: 9-25-20  
Location: EAGLE PASS Owner Name & Phone: JERRY AVILA 956-744-9546  
Value of Contract: 189,000 Engineer Name & Phone: \_\_\_\_\_
  
5. Name of Project: BORDER PATROL NORTH Date Completed: 4-30-20  
Location: NORTH STATION Owner Name & Phone: JASON WALKER 210-426-0532  
Value of Contract: 729,900 Engineer Name & Phone: \_\_\_\_\_

*Bidders shall verify all References listed above are current Names and direct Phone No.*

Financial Status: A confidential financial statement will be submitted by the apparent successful low Bidder if the Owner deems it necessary.

**NOTE: Failure to provide the requested information shall be cause for bid rejection. "TO BE SUBMITTED UPON REQUEST", etc. is NOT an acceptable answer.**

AFFIDAVIT

PROJECT: "Welch Road Culvert Improvements"

Form of Non-Collusive Affidavit

STATE OF TEXAS {}  
COUNTY OF WEBB {}

SERGIO A ARADILAS  
being first duly sworn, deposes and says

That he is OWNER GilMAR CONSTRUCTION LTD  
(A Partner or Officer of the firm of, etc.)

the party making the foregoing proposal or bid, that such proposal or bid is genuine and not collusive or sham; that said Bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any Bidder or Person, to put in a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the bid price or affiant or of any other Bidder or to fix any overhead, profit or cost element of said bid price, or of that of any other Bidder, or to secure any advantage against the Webb County or any person interested in the proposed Contract; and that all statements in said proposal or bid are true.

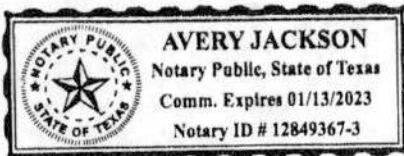
[Handwritten Signature]  
Signature of

Bidder, if the Bidder is an individual  
Partner, if the Bidder is a Partnership  
Officer, if the Bidder is a Corporation

Subscribed and sworn before me this 30<sup>th</sup> day of March, 2022.

[Handwritten Signature]  
Notary Public

My Commission expires 1/13/2023



**WEBB COUNTY PURCHASING DEPT.  
QUALIFIED PARTICIPATING VENDOR CODE OF ETHICS  
AFFIDAVIT FORM**

STATE OF TEXAS \*

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF WEBB \*

BEFORE ME the undersigned Notary Public, appeared SERGIO ALBERTO ARACILAS, the herein-named "Affiant", who is a resident of WEBB County, State of TEXAS, and upon his/her respective oath, either individually and/or behalf of their respective company/entity, do hereby state that I have personal knowledge of the following facts, statements, matters, and/or other matters set forth herein are true and correct to the best of my knowledge.

*I personally, and/or in my respective authority/capacity on behalf of my company/entity do hereby confirm that I have reviewed and agree to fully comply with all the terms, duties, ethical policy obligations and/or conditions as required to be a qualified participating vendor with Webb County, Texas as set forth in the Webb County Purchasing Code of Ethics Policy posted at the following address: <http://www.webbcountytexas.gov/PurchasingAgent/PurchasingEthicsPolicy.pdf>*

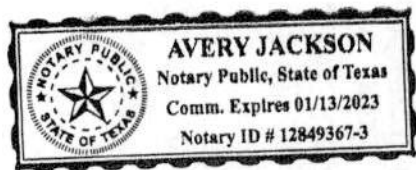
*I personally, and/or in my respective authority/capacity on behalf of my company/entity do hereby further acknowledge, agree and understand that as a participating vendor with Webb County, Texas on any active solicitation/proposal/qualification that I and/or my company/entity failure to comply with the Code of Ethics policy may result in my and/or my company/entity disqualification, debarment or make void my contract awarded to me, my company/entity by Webb County. I agree to communicate with the Purchasing Agent or his designees should I have questions or concerns regarding this policy to ensure full compliance by contacting the Webb County Purchasing Dept. via telephone at (956) 523-4125 or e-mail to the Webb County Purchasing Agent to [joel@webbcountytexas.gov](mailto:joel@webbcountytexas.gov).*

Executed and dated this 30 day of MARCH, 2022

*[Signature]*  
Signature of Affiant

GILMAR CONSTRUCTION LTD  
Printed Name of Affiant/Company/Entity

SWORN to and subscribed before me, this 30<sup>th</sup> day of March, 2022



*Avery Jackson*  
NOTARY PUBLIC, STATE OF TEXAS  
County of Webb



PROOF OF NO DELINQUENT TAXES OWED TO WEBB COUNTY

Name WEBB County owes no delinquent property taxes to Webb County.

GILMAR CONSTRUCTION LTD owes no property taxes as a business in Webb County.  
(Business Name)

SERGIO ALBERTO ARADILLAS owes no property taxes as a resident of Webb County.  
(Business Owner)

Person who can attest to the above information

**\* SIGNED NOTORIZED DOCUMENT AND PROOF OF NO DELINQUENT TAXES TO WEBB COUNTY.**

The State of Texas  
County of Webb

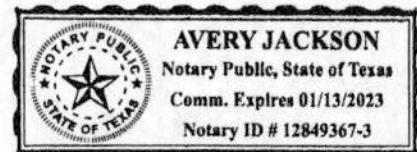
Before me, a Notary Public, on this day personally appeared Sergio Alberto Aradillas, know to me (or proved to me on the oath of \_\_\_\_\_) to be the person whose name is subscribed to the forgoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein expressed.

Given under my hand and seal of office this 30<sup>th</sup> day of March 2022.

Notary Public, State of Texas  
County of Webb

Avery Jackson  
Avery Jackson  
(Print name of Notary Public here)

My commission expires the 13 day of January 2023.



**CERTIFICATION REGARDING FEDERAL LOBBYING**  
**(Certification for Contracts, Grants, Loans, and Cooperative Agreements)**

**PART A. PREAMBLE**

Federal legislation, Section 319 of Public Law 101-121 generally prohibits entities from using federally appropriated funds to lobby the executive or legislative branches of the federal government. Section 319 specifically requires disclosure of certain lobbying activities. A federal government-wide rule, "New Restrictions on Lobbying", published in the Federal Register, February 26, 1990, requires certification and disclosure in specific instances.

**PART B. CERTIFICATION**

This certification applies only to the instant federal action for which the certification is being obtained and is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$100,000 for each such failure.

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No federally appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, or the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with these federally funded contract, subcontract, subgrant, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions. (If needed, contact the Texas Department of Agriculture to obtain a copy of Standard Form-LLL.)

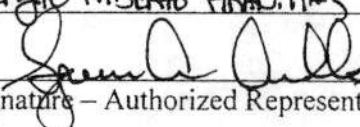
3. The undersigned shall require that the language of this certification be included in the award documents for all covered subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all covered subrecipients will certify and disclose accordingly.

Do you have or do you anticipate having covered subawards under this transaction?

- Yes  
 No

Name of Contractor/Potential Contractor	Vendor ID No. or Social Security No.	Program No.
GILMAR CONSTRUCTION LTD		

Name of Authorized Representative	Title
SEBASTIAN ALBERTO ARADILLA S	OWNER / MANAGER

  
Signature - Authorized Representative

3-31-27  
Date

**CERTIFICATION**  
REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY  
EXCLUSION FOR COVERED CONTRACTS

**PART A.**

Federal Executive Orders 12549 and 12689 require the Texas Department of Agriculture (TDA) to screen each covered potential contractor to determine whether each has a right to obtain a contract in accordance with federal regulations on debarment, suspension, ineligibility, and voluntary exclusion. Each covered contractor must also screen each of its covered subcontractors.

In this certification "contractor" refers to both contractor and subcontractor; "contract" refers to both contract and subcontract.

By signing and submitting this certification the potential contractor accepts the following terms:

1. The certification herein below is a material representation of fact upon which reliance was placed when this contract was entered into. If it is later determined that the potential contractor knowingly rendered an erroneous certification, in addition to other remedies available to the federal government, the Department of Health and Human Services, United States Department of Agriculture or other federal department or agency, or the TDA may pursue available remedies, including suspension and/or debarment.
2. The potential contractor will provide immediate written notice to the person to which this certification is submitted if at any time the potential contractor learns that the certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
3. The words "covered contract", "debarred", "suspended", "ineligible", "participant", "person", "principal", "proposal", and "voluntarily excluded", as used in this certification have meanings based upon materials in the Definitions and Coverage sections of federal rules implementing Executive Order 12549. Usage is as defined in the attachment.
4. The potential contractor agrees by submitting this certification that, should the proposed covered contract be entered into, it will not knowingly enter into any subcontract with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the Department of Health and Human Services, United States Department of Agriculture or other federal department or agency, and/or the TDA, as applicable.

Do you have or do you anticipate having subcontractors under this proposed contract?

Yes

No



5. The potential contractor further agrees by submitting this certification that it will include this certification titled "Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion for Covered Contracts" without modification, in all covered subcontracts and in solicitations for all covered subcontracts.
6. A contractor may rely upon a certification of a potential subcontractor that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered contract, unless it knows that the certification is erroneous. A contractor must, at a minimum, obtain certifications from its covered subcontractors upon each subcontract's initiation and upon each renewal.
7. Nothing contained in all the foregoing will be construed to require establishment of a system of records in order to render in good faith the certification required by this certification document. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
8. Except for contracts authorized under paragraph 4 of these terms, if a contractor in a covered contract knowingly enters into a covered subcontract with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the federal government, Department of Health and Human Services, United States Department of Agriculture, or other federal department or agency, as applicable, and/or the TDA may pursue available remedies, including suspension and/or debarment.

**PART B. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION FOR COVERED CONTRACTS**

Indicate in the appropriate box which statement applies to the covered potential contractor:

- The potential contractor certifies, by submission of this certification, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this contract by any federal department or agency or by the State of Texas.
- The potential contractor is unable to certify to one or more of the terms in this certification. In this instance, the potential contractor must attach an explanation for each of the above terms to which he is unable to make certification. Attach the explanation(s) to this certification.

Name of Contractor	Vendor ID No. or Social Security No.	Program No.
GILMAR CONSTRUCTION LTD		

Sergio C. Aradillas  
Signature of Authorized Representative

3-31-22  
Date

SERGIO ALBERTO ARADILLAS OWNER/MANAGER  
Printed/Typed Name and Title of Authorized Representative

**CONFLICT OF INTEREST QUESTIONNAIRE**  
**For vendor doing business with local governmental entity**

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

**Local Government Code § 176.001(1-a):** "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

**Local Government Code § 176.003(a)(2)(A) and (B):**

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

\*\*\*

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

**Local Government Code § 176.006(a) and (a-1)**

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.

**CONFLICT OF INTEREST QUESTIONNAIRE**  
For vendor doing business with local governmental entity

**FORM CIQ**

**OFFICE USE ONLY**

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.  
This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).  
By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.  
A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

NA

2  Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

NA

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

Yes  No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

Yes  No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6  Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7

\_\_\_\_\_  
Signature of vendor doing business with the governmental entity

\_\_\_\_\_  
Date



**BID BOND**

**KNOW ALL MEN BY THESE PRESENTS**, that we Gilmar Construction, Ltd. as principal, hereinafter called the "Principal," and **SURETEC INSURANCE COMPANY**, 1330 Post Oak Boulevard, Suite 1100, Houston, Tx 77056, as surety, hereinafter called the "Surety," are held and firmly bound unto Webb County Purchasing Department as obligee, hereinafter called the Obligee, in the sum of Five Percent of the Greatest Amount Bid Percent (5% GAB) of the Amount Bid by Principal for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, the principal has submitted a bid for ITB 2022-011, Welch Road Culvert Improvements, Webb County, TX

**NOW, THEREFORE**, if the contract be timely awarded to the Principal and the Principal shall within such time as specified in the bid, enter into a contract in writing or, in the event of the failure of the Principal to enter into such Contract, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

**PROVIDED, HOWEVER**, neither Principal nor Surety shall be bound hereunder unless Obligee prior to execution of the final contract shall furnish evidence of financing in a manner and form acceptable to Principal and Surety that financing has been firmly committed to cover the entire cost of the project.

SIGNED, sealed and dated this 31st day of March, 2022.

Gilmar Construction, Ltd.  
(Principal)

BY: Sergio A. Arellano

TITLE: OWNER / MANAGER

SureTec Insurance Company

BY: Sandra Lee Roney

Sandra Lee Roney, Attorney-in-Fact



# SureTec Insurance Company

## LIMITED POWER OF ATTORNEY

Know All Men by These Presents, That SURETEC INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

John William Newby, Troy Russell Key, Sandra Lee Roney, Debra Lee Moon, Andrea Rose Crawford,  
Joshua D. Tritt, Cheri Lynn Irby, Suzanne Elizabeth Niedzwiedz

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include waivers to the conditions of contracts and consents of surety for, providing the bond penalty does not exceed

Five Million and 00/100 Dollars (\$5,000,000.00)

and to bind the Company thereby as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolutions of the Board of Directors of the SureTec Insurance Company:

*Be it Resolved*, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

*Attorney-in-Fact* may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

*Be it Resolved*, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. (Adopted at a meeting held on 20<sup>th</sup> of April, 1999.)

In Witness Whereof, SURETEC INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 9th day of November A.D. 2020.

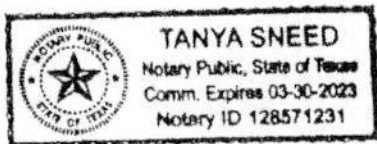


SURETEC INSURANCE COMPANY

By: *Michael C. Keimig*  
Michael C. Keimig, President

State of Texas ss:  
County of Harris

On this 9th day of November A.D. 2020 before me personally came Michael C. Keimig, to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of SURETEC INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.



*Tanya Sneed*  
Tanya Sneed, Notary Public  
My commission expires March 30, 2023

I, M. Brent Beaty, Assistant Secretary of SURETEC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; and furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

Given under my hand and the seal of said Company at Houston, Texas this 31st day of March 2022, A.D.

*M. Brent Beaty*  
M. Brent Beaty, Assistant Secretary

Any instrument issued in excess of the penalty stated above is totally void and without any validity. 4221756  
For verification of the authority of this power you may call (713) 812-0800 any business day between 8:30 am and 5:00 pm CST.

# SureTec Insurance Company

## IMPORTANT NOTICE Statutory Complaint Notice/Filing of Claims

To obtain information or make a complaint: You may call the Surety's toll free telephone number for information or to make a complaint or file a claim at: 1-866-732-0099. You may also write to the Surety at:

SureTec Insurance Company  
9737 Great Hills Trail, Suite 320  
Austin, TX 78759

You may contact the Texas Department of Insurance to obtain information on companies, coverage, rights or complaints at 1-800-252-3439. You may write the Texas Department of Insurance at:

PO Box 149104  
Austin, TX 78714-9104  
Fax#: 512-490-1007  
Web: <http://www.tdi.texas.gov>  
Email: [ConsumerProtection@tdi.texas.gov](mailto:ConsumerProtection@tdi.texas.gov)

PREMIUM OR CLAIMS DISPUTES: Should you have a dispute concerning your premium or about a claim, you should contact the Surety first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

---



Culvert Crossing

Ed auto parts

Emiliano Rd

Welch Rd

Emiliano Rd

Emiliano Rd

Amey Rd

Angel Yonke

Enlace Road

Bone's Custom Cycles

Pinzon Road

Laredo's Flea Market

Welch Rd

Services

Emiliano Rd

Patron Discount

Casita Rosa Fireworks

359

San Carlos

359

Exhibit "B"

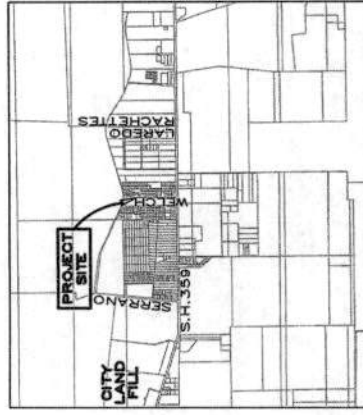
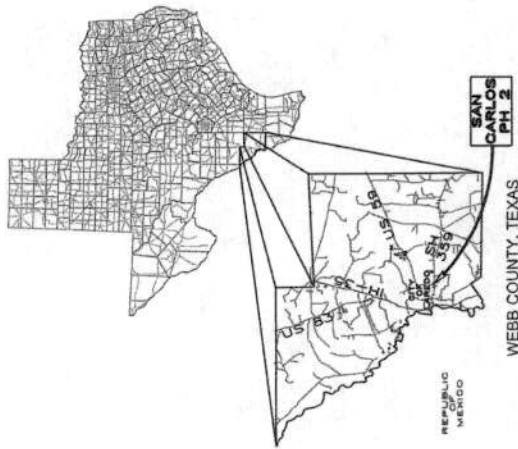
Bravo Auto Parts



# CONSTRUCTION PLANS FOR

# WELCH ROAD CULVERT IMPROVEMENTS

DRAINAGE & ROADWAY IMPROVEMENTS



PROJECT LOCATION



## WEBB COUNTY, TEXAS

HONORABLE TANO E. TIJERINA, COUNTY JUDGE

### WEBB COUNTY COMMISSIONERS

- JESSE GONZALEZ.....PRECINCT 1
- ROSAURA "WAWI" TIJERINA.....PRECINCT 2
- JOHN GALO .....PRECINCT 3
- CINDY LIENDO ..... PRECINCT 4

### INDEX OF SHEETS

SHEET	DESCRIPTION
1	TITLE SHEET
2	BASIS OF ESTIMATE & GENERAL NOTES
3	PROJECT LOCATION MAP
4	CULVERT PLAN & PROFILE
5	CULVERT RIPRAP GRADE PLAN
6	ROADWAY PLAN & PROFILE
7	EXISTING CONCRETE & PAVEMENT REMOVAL PLAN
8	WATER MAIN RELOCATION PLAN & PROFILE
9-10	TRAFFIC CONTROL & CONSTRUCTION SEQUENCE PLAN
11	TRAFFIC CONTROL PLAN STANDARD DETAIL
12-14	CULVERT STANDARD DETAILS
15-22	GUARDRAIL STANDARD DETAILS
23-24	FENCING AND EROSION CONTROL STANDARD DETAILS
25-27	BARRICADES & CONSTRUCTION STANDARD DETAILS



**WEBB COUNTY  
APPROVAL:**

*Luis Perez Garcia*  
 LUIS PEREZ GARCIA, P.E., CFM  
 COUNTY ENGINEER

2/15/2022  
 DATE





## BASIS OF ESTIMATE

ITEM	DESCRIPTION	QUANTITY	UNIT
310.1	10x5 Concrete Box Culvert (Precast)	164	LF
310.2	PW Parallel Wingwalls (HW-7)	2	EA
318	Channel/Excavation & Embankment	120	CY
402.1	Clearing & Grubbing	0.5	AC
402.2	Etaling Concrete, Pavement & Pipe Remove & Dispose	1	LS
408	Reinforced Concrete Riprap (5" Thick) w/ Reels & Blks	6,000	SF
424	Remove & Replace Barb-Wire Fence, 5-Strand (Type C)	70	LF
<b>STREET</b>			
502.1	Street Excavation (Underslotted) (Density Control)	120	CY
502.2	Street Excavation (Density Control)	120	CY
502.3	Subgrade Preparation	210	SY
516	8" Flexible Caliche Base (Compacted)	210	SY
520	Prime Coat (MC-30)	670	SY
	1.5" Thick Hot Mix Asphalt Pavement (Type D Surface)	670	SY
<b>ENVIRONMENTAL</b>			
602	Rock Berm (Type 3)	55	LF
<b>TRAFFIC MANAGEMENT</b>			
708.1	Metal Timber Post Guard Fence	400	LF
708.2	Guard Fence Downstream Anchor Terminal	2	EA
708.3	Guard Fence End Treatment	2	EA
712	Traffic Control, Regulation, Barricades & Detours	1	LS
<b>WATER</b>			
104	8" PVC C-900, DR-14 Water Main (Restrained)	97	LF
116	Interconnection to Existing Water Main (8")	2	EA
120	Concrete Encasement, Cradles & Saddles	10	CY
130	Ductile Iron Mechanical Joint Fittings (8" Bend/Restrained)	4	EA

## GENERAL NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT THE NOTICE OF INTENT (NOI) HAS BEEN FILED AND POSTED ON-SITE. CONTRACTOR SHALL INSTALL STORM WATER POLLUTION PREVENTION CONTROLS PRIOR TO ANY SITE PREPARATION WORK (DEMOLITION, EXCAVATION, GRUBBING, ETC.).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION AND THE PROPER REMOVAL/DISPOSAL OF SURPLUS EXCAVATED AND/OR DEMOLISHED MATERIAL AND ALL ABOVE-GROUND ITEMS INCLUDING BUT NOT LIMITED TO FENCES, IRRIGATION HARDWARE, TREES, TRASH AND OTHER MISCELLANEOUS DEBRIS.
3. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE THE EXISTING FACILITIES. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING SERVICE, WARNING UTILITIES ARE SHUT OFF OR DISCONNECTED, AND ALL POSSIBLE REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED.
4. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL THE PERMITTING AUTHORITIES.
5. NECESSARY BARRICADES, SUFFICIENT LANE, SPARK AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE MANUAL ON UNIFORM CONTROL DEVICES AND MAINTAINED AT ALL TIMES (24 HOURS PER DAY) DURING THE CONSTRUCTION PROCESS.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FACILITIES FROM DAMAGE AND COST TO REPAIR EXISTING FACILITIES AND IMPROVEMENTS AS A RESULT OF THE CONTRACTOR'S WORK. ANY EXISTING PAVEMENT, CURBS, BUILDING, SIDEWALKS, WALLS, FENCES, UTILITY INFRASTRUCTURE, TREES, ETC. DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS SOLE EXPENSE.
7. CONTRACTOR SHALL INCLUDE IN HIS BID THE REQUIRED ADJUSTMENT OF ALL VALVES, VALVE COVERS, MANHOLE LIDS, FIRE HYDRANTS, CLEANOUTS, AND ANY OTHER MISC. UTILITY ITEM WHETHER SHOWN ON THESE PLANS OR NOT.
8. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE AND HAS BEEN BASED UPON AVAILABLE RECORD INFORMATION AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS ENDEWERED IN THE FIELD. THE CONTRACTOR SHALL CONTACT EACH INDIVIDUAL UTILITY FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES FROM DAMAGE OR INTERFERENCE WITH PRESENT UTILITIES.
9. AN INCOMPLETE CONTACT LIST FOR SOME OF THE UTILITIES THAT MAY BE ENCOUNTERED ON THE PROJECT ARE LISTED BELOW.
  - TEXAS ONE CALL SYSTEM: 1-800-425-4345 OR C-425-8117
  - LORESTAR NOTIFICATION COMPANY AT 1-800-668-8344
  - TEXAS EXCAVATION SAFETY SYSTEM GROUP (DIGITESS) AT 1-800-344-8337
  - LAREDO WATER UTILITIES DEPARTMENT, HUNTER SPRING LANE (596) 721-7000
  - AT&T: MIKE FARAS (956) 229-2325, 1-800-545-6025 (LOCATED)
  - THE WARNER CABLE, JOSE VALENZUELA (596) 721-0600 or JAHUER ESCOBAR (948) 235-6318
  - CENTENNIAL ENERGY, ROEL ROMA (956) 723-6294
  - DDP - MIDSTREAM, RECTOR SANCHEZ (956) 724-7197, (956) 385-2741
10. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT BOTH OVERHEAD AND UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE CONSTRUCTION AREA. EXCAVATION OF UNDERGROUND UTILITIES IS NOT CERTAIN. THE CONTRACTOR SHALL CONDUCT A PRELIMINARY SURVEY TO DETERMINE THE LOCATION OF UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OR COMPLETION OF ANY WORK SO AS TO PRESENT ANY DAMAGE OR INTERFERENCE WITH PRESENT UTILITIES.
11. DURING THE EXECUTION OF THE WORK, UTILITY MARK SHALL BE EXPOSED TO PREVENT DAMAGE TO ALL UTILITIES, STRUCTURES OR RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES OR STRUCTURES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE REPAIRED PROMPTLY. IF IN THE COURSE OF THE WORK, UNDERGROUND UTILITIES ARE DISCOVERED AND ARE IN CONFLICT WITH THE WORK, THE CONTRACTOR SHALL CONTACT THE ENGINEER WHO WILL DIRECT THE NECESSARY ADJUSTMENTS.
12. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, PROJECT WORK AREA IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEMS THAT COMPLY WITH AS MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS, SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP WORKING IN AND AROUND TRENCH EXCAVATION.
13. NO BARRS HAVE NOT BEEN FILED FOR THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESEARCH AND VERIFY PRIORS TO BIDDING THE NEEDED FOR ANY ADDITIONAL INFORMATION AND CORRECT PAYMENT SHALL BE MADE FOR COSTS ASSOCIATED WITH OBTAINING SUCH INFORMATION. THERE WILL BE NO ADDITIONAL PAYMENT FOR TRENCH EXCAVATION OR TRENCH DEMATERING, IF ENCOUNTERED.
14. CONTRACTOR SHALL COORDINATE PROJECT CONSTRUCTION TESTING WITH THE COUNTY INSPECTOR. ALL FAILED TESTS SHALL BE PAID FOR BY THE CONTRACTOR.
15. CONTRACTOR SHALL ADJUST AND/OR SAW-CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH AND CONTINUOUS TRANSITION GRADE. CONSTRUCTION AREAS FROM DAMAGED EXISTING PAVEMENT SHALL BE REPAIRED TO THE ORIGINAL SURFACE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING PAVEMENT AS GOOD AS, OR BETTER THAN, THAT PRESENT PRIOR TO HIS CONTRACT. EXISTING STREET SIGNS SHALL RESET AS REQUIRED - NO SEP. PAY.
16. RIGHT-OF-WAY LINES SHOWN ARE SOLELY FOR REPRESENTATION. THESE PLANS DO NOT ATTEMPT TO REESTABLISH OR CONFIRM ANY PROPERTY OR EASEMENT LINES.
17. GPS COORDINATES (NAD 83, TEXAS STATE PLANE 4506, SOUTH ZONE) FOR FITTINGS, VALVES, ETC. LISTED IN THE PLANS ARE PROVIDED FOR GENERAL INFORMATION ONLY. THE FINAL POSITION MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER AND/OR CITY INSPECTOR TO ACCOMMODATE SPECIFIC FIELD CONDITIONS.
18. IF ANY OVERHEAD OR UNDERGROUND ELECTRICAL LINES NEEDED TO BE DE-ENERGIZED, THE CONTRACTOR SHALL CALL THE POWER COMPANY TO DO THIS WORK. ANY COST ASSOCIATED WITH DE-ENERGIZING THE ELECTRICAL LINES AND/OR ANY OTHER PROTECTIVE MEASURES REQUIRED SHALL BE AT THE CONTRACTOR'S EXPENSE.
19. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT WHERE NOT SPECIFICALLY COVERED ON THESE PLANS OR IN THE SPECIAL TECHNICAL SPECIFICATIONS SHALL CONFORM TO ALL APPLICABLE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATION MANUAL, DIVISION "D".

20. ALL WATER MAIN FITTINGS TO BE DUCTILE IRON, COMPACT MECHANICAL JOINT THAT CONFORM TO ANWA SPECIFICATIONS C110/C113, CLASS 50/250 AND SHALL BE WELDED IN POLYETHYLENE. ALL NUTS, BOLTS AND FASTENERS SHALL BE FABRICATED FROM TYPE 316 STAINLESS STEEL. FITTINGS WILL BE MEASURED AND PAID AT THE WEIGHT LISTED IN THE SPECIFICATIONS. ALL FITTINGS SHALL BE MANUFACTURED IN THE U.S.A. UNLESS SPECIFICALLY NOTED OTHERWISE. FITTINGS SHALL BE PROVIDED WITH THE STANDARD WRENCH (IRON) OR APPROVED EQUIVALENT PIPE SECTIONS LESS THAN 10 FEET IN LENGTH WILL NOT BE PERMITTED ADJACENT TO FITTINGS OR VALVES, UNLESS ACCEPTABLE BELL RESTRAINTS ARE PROVIDED AT NO COST TO THE CONTRACTOR.
21. WATER MAIN JOINTS (BELLS) SHALL BE RESTRAINED WITH FEMA RING, MECA-LUG BELL RESTRAINTS, OR APPROVED EQUIVALENT P-HIC PIPE SYSTEM. THERE IS NO SEPARATE MEASUREMENT OR PAY ITEM FOR JOINT AND/OR BELL RESTRAINT COSTS. BELLS AND BELL RESTRAINTS SHALL BE MANUFACTURED IN THE U.S.A. AND FINISHED WITH TYPE 316 STAINLESS STEEL BOLTS AND NUTS.
22. CONTRACTOR SHALL NOT CLOSE OR OPEN ANY GATE VALVES WITHOUT THE APPROVAL OF LAREDO WATER UTILITIES DEPT.
23. THE CONTRACTOR MAY BE REQUIRED TO INSTALL AN APPROVED SURFACE SADDLE, FOR BELL VALUE, AND FIRE RISER, OR ALTERNATE TEMPORARY BLOW-OFF ASSEMBLY ON THE PROPOSED WATER MAIN(S) FOR TEMPORARY AIR RELEASE AND SAMPLING DURING PRESSURE TESTING AND BACTERIOLOGICAL TESTS. THERE WILL BE NO ADDITIONAL PAY FOR THESE ITEMS, WHICH WILL BE CONSIDERED SUBORDINARY TO THE VARIOUS BID REQUIREMENTS WHEN TESTING COMPLETE.
24. MAINS SHALL BE INDIVIDUALLY GRADED AND TESTED TO CONFORM WITH HYDRANTS AND VALVES. AT LEAST EVERY 100 FEET, THERE WILL BE NO SEPARATE MEASUREMENT OR PAYMENT FOR WATER FLOWING OR TESTING PER CONTRACT SPECIFICATIONS. THESE COSTS SHALL BE INCLUDED WITH THE ASSOCIATED WATER MAIN FITTING OR VALVE MEASUREMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE WATER MAIN USED FOR BOTH LOADING FLOWING AT THE CONTRACTOR'S RISK. WATER RATE (\$12.00 PER THOUSAND U.S. GALLONS). THE CONTRACTOR SHALL INCLUDE THIS COST IN THE ASSOCIATED WATER MAIN UNIT BID PRICE.



**WEBB COUNTY, TEXAS**  
**WELCH ROAD**  
**CULVERT IMPROVEMENTS**

**PORRAS NANCE**  
**ENGINEERING**  
 3030 S. TEXAS AVE., SUITE 1500, LAREDO, TEXAS 77901  
 (956) 741-3800  
 www.porrasnancedesign.com

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PROPOSED  
CULVERT  
LOCATION

ADELITA RD

AMY RD

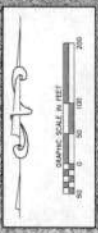
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BARRERA RD

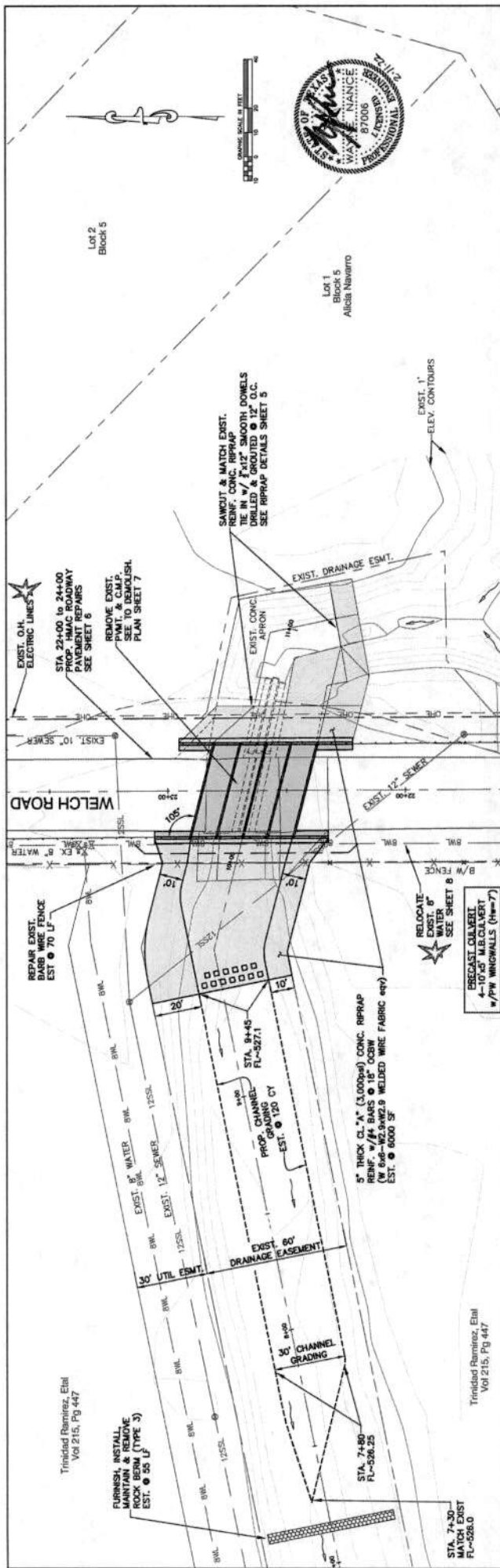
PINZON RD

EMILIANO RD

ST. HWY 359



DATE	REVISIONS	<p>VERTICAL SCALE: 1" = 10'</p> <p>HORIZONTAL SCALE: 1" = 40'</p> <p>This document is the property of PORRAS NANCE ENGINEERING. It is to be used only for the project and location specified herein. No other use or reproduction is permitted without the written permission of PORRAS NANCE ENGINEERING.</p>	<p>304 E CALDWELL LAREDO, TEXAS 78040 PH: 361-743-0000 OFFICE: 361-743-3387 WWW.PORRASNANCE.COM</p>	<p>WEBB COUNTY, TEXAS WELCH ROAD CULVERT IMPROVEMENTS</p>	<p>PROJECT LOCATION MAP</p>	<p>SHEET: 3</p>
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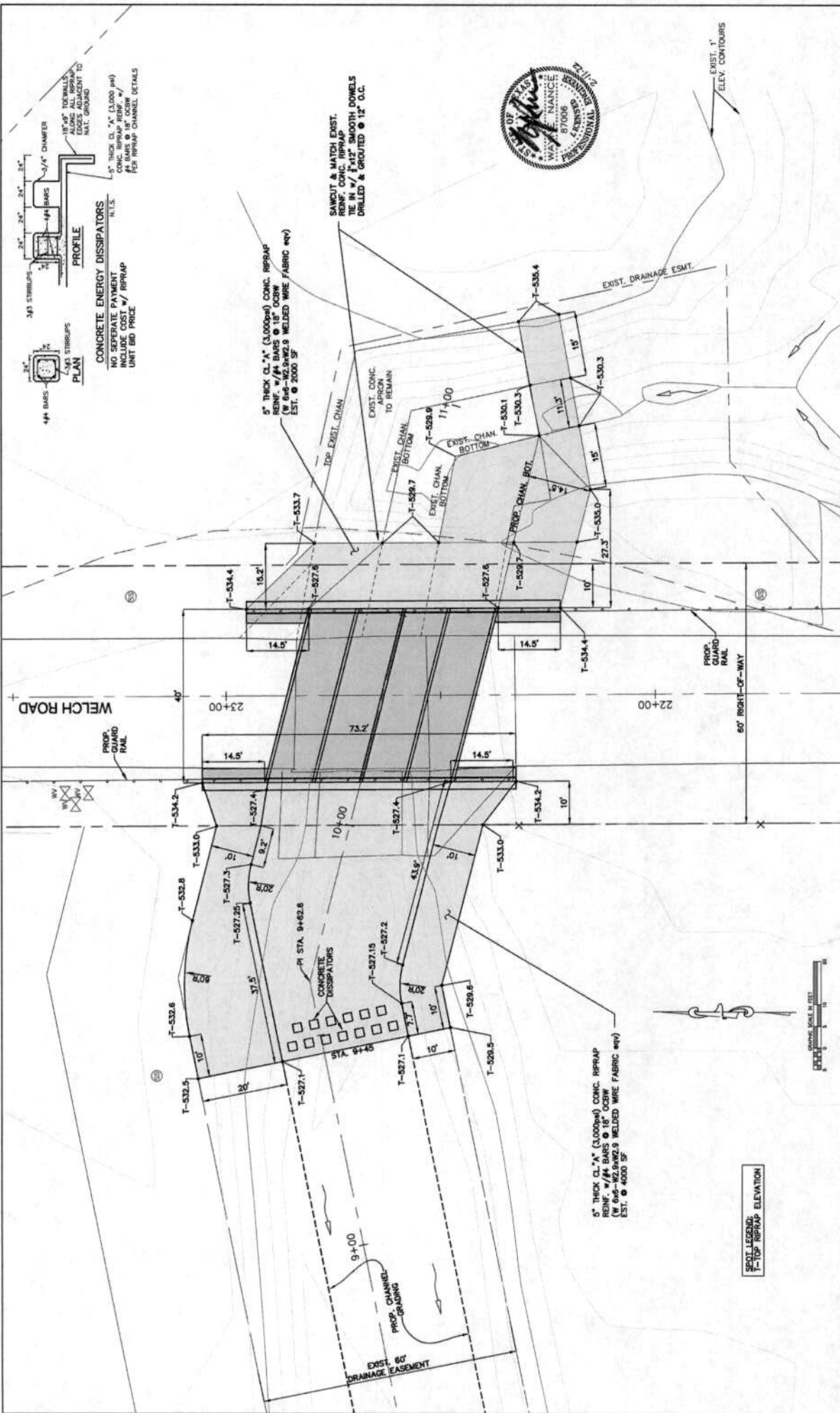
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540	10.3' 41.4' 20.7' 20.7'	534.456 533.443
535		
530		
525		

PORRAS NANCE ENGINEERING  
 1111 S. W. 24th St. Suite 100  
 Fort Worth, TX 76104  
 (817) 583-2822  
 www.porrasnance.com

WEBB COUNTY, TEXAS  
 WELCH ROAD  
 CULVERT IMPROVEMENTS

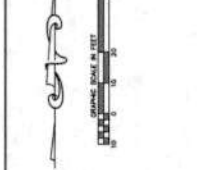
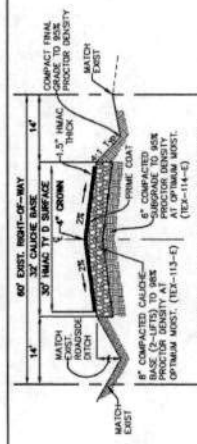
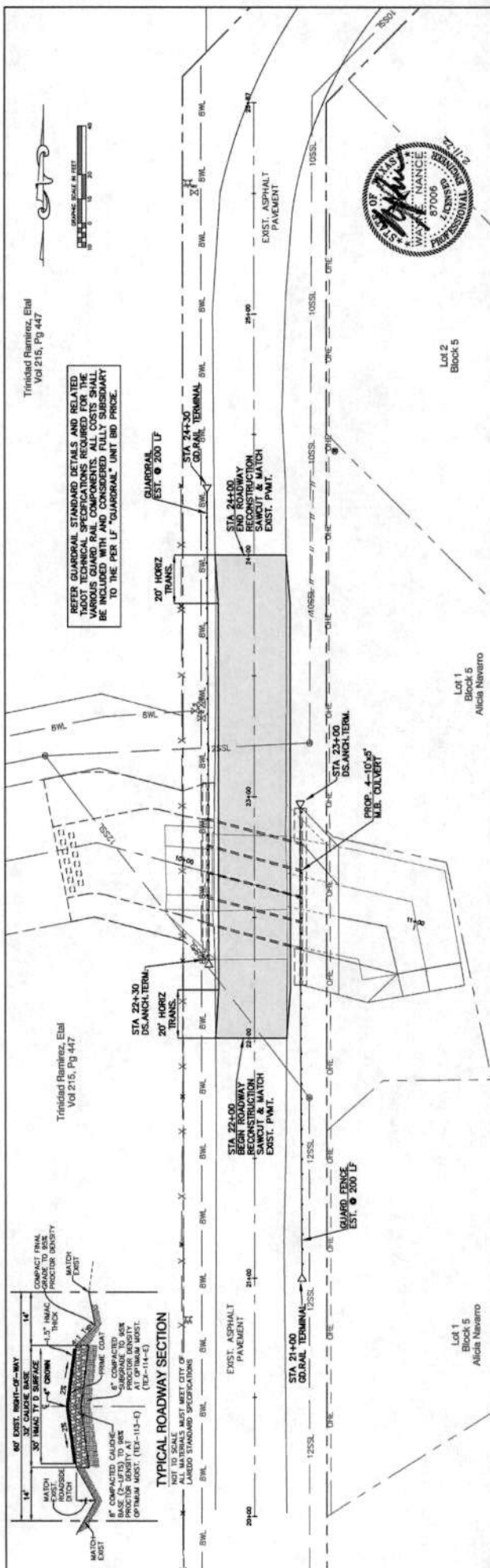
SHEET: 4  
 PLAN OF: CULVERT  
 PLAN & PROFILE





<p><b>PORRAS NANCE          ENGINEERING</b></p> <p>1425 W. WILSON ST.          SUITE 200          ARLING, TEXAS 76010          (817) 442-8800          WWW.PORRASNANCE.COM</p> <p>SCALE: VERTICAL SCALE: 1"=10'          HORIZONTAL SCALE: 1"=20'</p> <p>THIS DRAWING IS THE PROPERTY OF PORRAS NANCE ENGINEERING AND SHOULD BE KEPT IN THE OFFICE OF THE USER. IT IS TO BE USED ONLY FOR THE PROJECT AND LOCATION SPECIFIED HEREON.</p> <p>DATE: 12/11/14</p> <p>BY: JLM</p> <p>CHECKED: JLM</p> <p>PROJECT: WELCH ROAD</p> <p>CONTRACT NO. 2014-01-001</p> <p>PLAN NO. 5</p> <p>SHEET: 5</p>	<p><b>WEBB COUNTY, TEXAS          WELCH ROAD          CULVERT IMPROVEMENTS</b></p> <p>CULVERT          RIPRAP GRADE PLAN</p> <p>SEE SPECIFICATIONS ON THIS PROJECT FOR ALL MATERIALS AND CONSTRUCTION METHODS. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.</p> <p>CONTRACT NO. 2014-01-001</p> <p>PLAN NO. 5</p> <p>SHEET: 5</p>
--	--





Trinidad Ramirez, Etal  
Vol 215, Pg 447

REFER GUARDRAIL STANDARD DETAILS AND RELATED TAQOT TECHNICAL SPECIFICATIONS REQUIRED FOR THE VARIOUS GUARD RAIL COMPONENTS. ALL COSTS SHALL BE INCLUDED WITH AND CONSIDERED FULLY SUBSIDIARY TO THE PER LF "GUARDRAIL UNIT BID PRICE."

Trinidad Ramirez, Etal  
Vol 215, Pg 447



STATION	EXIST. GRADE	PROP. GRADE	VERTICAL CURVE DATA
540			
535			
530			
525			

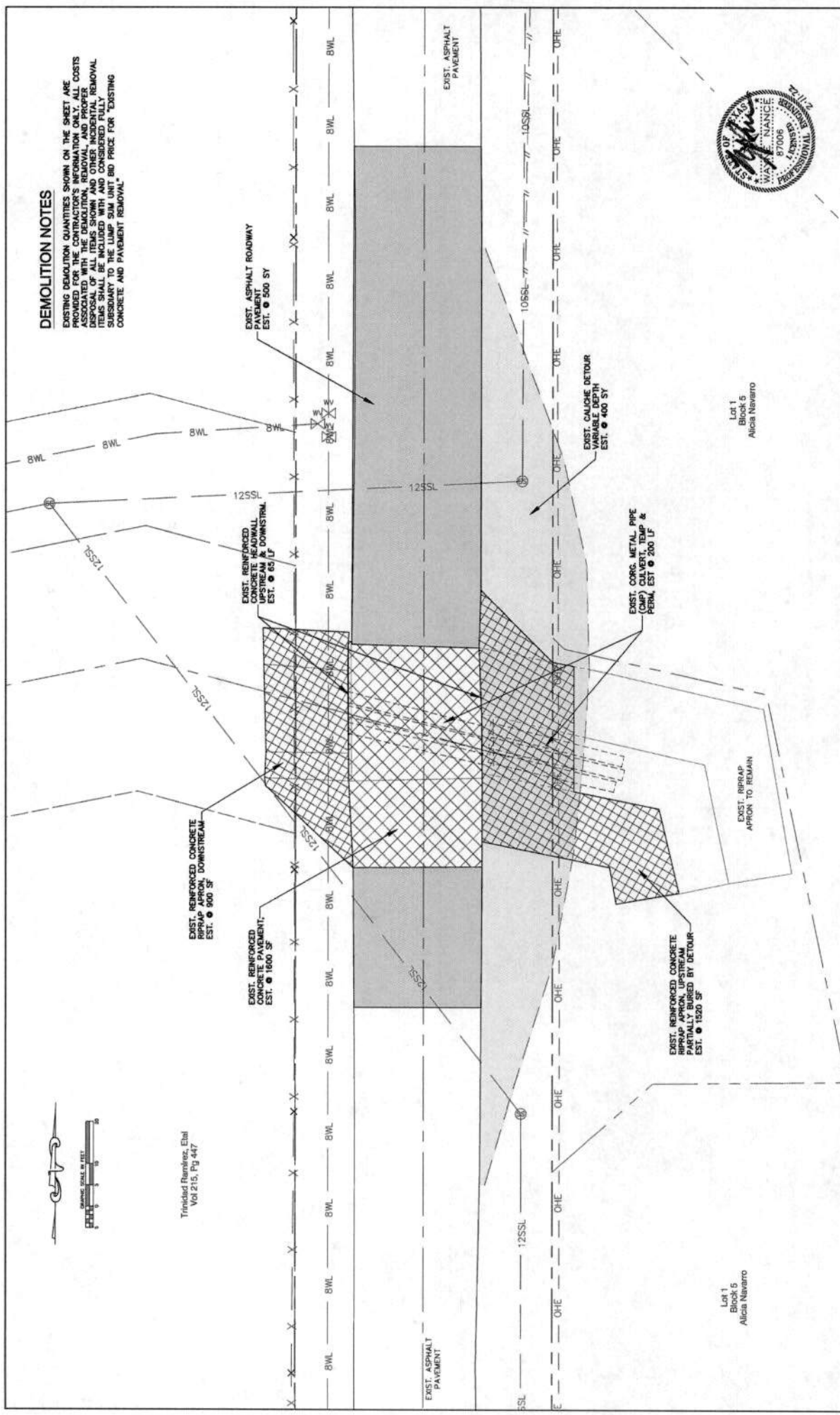
DATE: 11/12/2010  
 SHEET: 6  
 ROADWAY PLAN & PROFILE  
 WEBB COUNTY, TEXAS  
 WELCH ROAD  
 CULVERT IMPROVEMENTS  
 PORRAS NANCE ENGINEERING  
 306 CALLE B, LAREDO, TEXAS 78040  
 TEL: 361-74555  
 OFFICE: 361-744-9007  
 WWW.PORRASNANCE.COM  
 ENGINEER: TRINIDAD RAMIREZ  
 PROJECT NO: 215-447  
 SCALE: 1"=40'

**DEMOLITION NOTES**

EXISTING DEMOLITION QUANTITIES SHOWN ON THE SHEET ARE PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY. ALL COSTS ASSOCIATED WITH THE DEMOLITION, REMOVAL, AND PROPER DISPOSAL OF ALL ITEMS SHOWN AND OTHER INCIDENTAL ITEMS SHALL BE INCLUDED WITH AND CONSIDERED FULLY PAID TO THE CONTRACTOR. THE UNIT PRICE FOR "EXISTING CONCRETE AND PAVEMENT REMOVAL"



Trinidad Ramirez, Etal  
Vol 215, Pg 447



DATE: _____	VERTICAL SCALE: 1" = 10'	3416 CANTON (B)	<b>PORRAS NANCE</b>	ENGINEERING	3416 CANTON (B) LAREDO, TEXAS 78044	<b>WEBB COUNTY, TEXAS WELCH ROAD CULVERT IMPROVEMENTS</b>	PLAN NO. <b>EXISTING CONCRETE &amp; PAVEMENT REMOVAL PLAN</b>	SHEET: <b>7</b>
REVISIONS:	INTERNATIONAL SCALE: 1" = 10'	BY: F-1000			DATE: 11/11/22			
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CONTRACTOR AND/OR CONTRACTOR'S INDIVIDUALLY REMAINS EMPLOYE  
 SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND  
 RECORDS TO BE MAINTAINED BY THE CONTRACTOR'S FIELD TO AVOID ANY  
 DAMAGE TO ANY UTILITIES OR RECORDS. THE CONTRACTOR SHALL BE  
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 TO BE MAINTAINED BY THE CONTRACTOR'S FIELD TO AVOID ANY  
 DAMAGE TO ANY UTILITIES OR RECORDS. THE CONTRACTOR SHALL  
 BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND  
 RECORDS TO BE MAINTAINED BY THE CONTRACTOR'S FIELD TO  
 AVOID ANY DAMAGE TO ANY UTILITIES OR RECORDS.

Trinidad Ramirez, Etal  
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PROF. 8" PVC C-800  
 FULLY RESTRAINED  
 EST. @ 87 LF

20 LF CONC. ENCASE  
 EXIST. 12" SWR  
 EST. @ 3 CY

PI STA. 22+24.26' LT.  
 1-8' 45' BEND, MA

PI STA. 22+20.92' LT.  
 1-8' 45' BEND, MA

1-8' INTERCONNECTION

PROF. REPRAP APRON

PI STA. 23+10.28' LT.  
 1-8' 45' BEND, MA

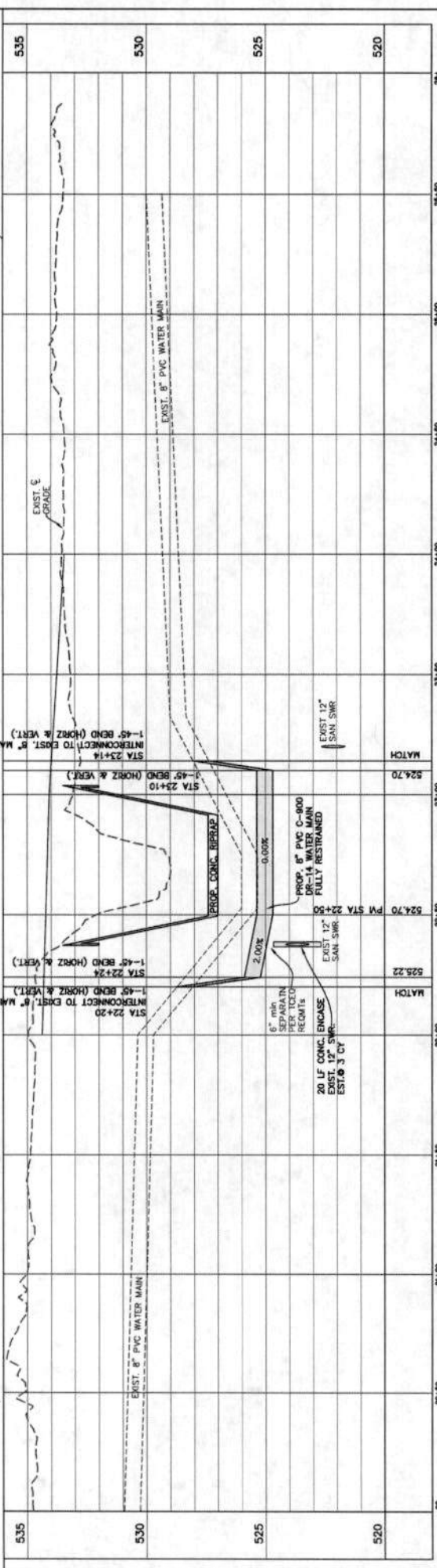
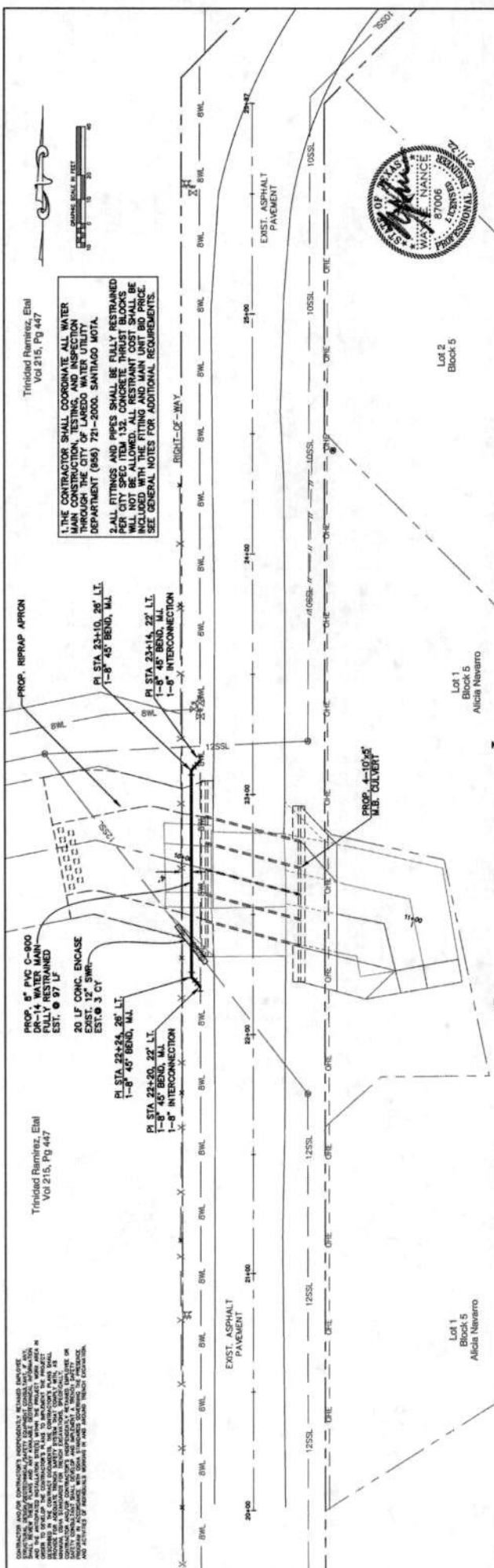
PI STA. 23+14.22' LT.  
 1-8' 45' BEND, MA

1-8' INTERCONNECTION

PROF. 4'-10" O.D.  
 M.B. CULVERT

Lot 1  
 Block 5  
 Alicia Navarro

Lot 1  
 Block 5  
 Alicia Navarro



DATE: \_\_\_\_\_ VERTICAL SCALE: 1" = 4'

ENCLOSURE: \_\_\_\_\_ HORIZONTAL SCALE: 1" = 40'

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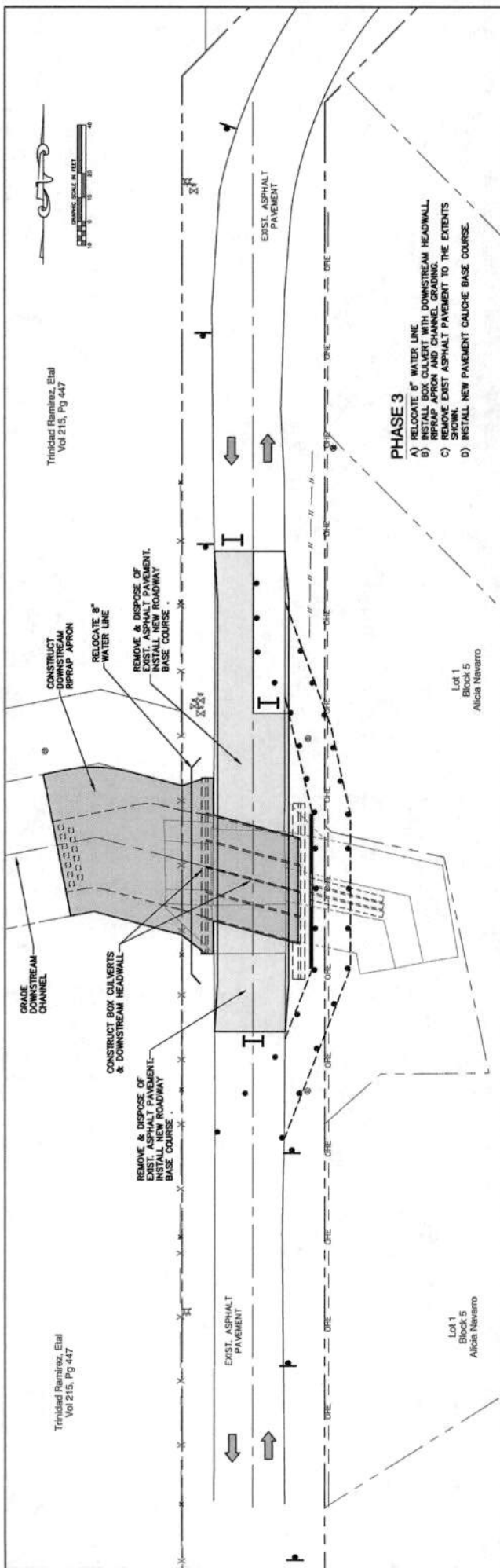
WEBB COUNTY, TEXAS  
**WELCH ROAD**  
**CULVERT IMPROVEMENTS**

PLAN NO: 8" WATER MAIN RELOCATION  
 PLAN & PROFILE

SHEET: 8







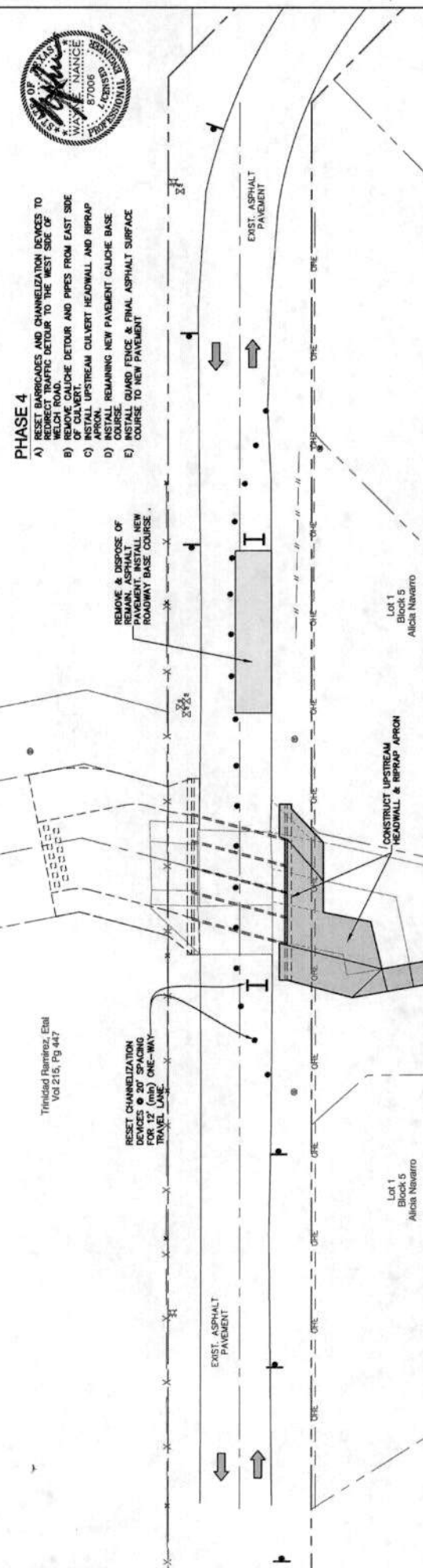
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Trinidad Ramirez, Etal  
Vol 215, Pg 447

- PHASE 3**
- RELOCATE 8" WATER LINE
  - REMOVE & DISPOSE OF EXIST. ASPHALT PAVEMENT & CHANNEL GRADING. INSTALL NEW ROADWAY BASE COURSE.
  - CONSTRUCT DOWNSTREAM RIPRAP APRON
  - RELOCATE 8" WATER LINE
  - REMOVE & DISPOSE OF EXIST. ASPHALT PAVEMENT. INSTALL NEW ROADWAY BASE COURSE.

Lot 1  
Block 5  
Alicia Navarro

Lot 1  
Block 5  
Alicia Navarro



Trinidad Ramirez, Etal  
Vol 215, Pg 447

Trinidad Ramirez, Etal  
Vol 215, Pg 447

- PHASE 4**
- RESET CHANNELIZATION DEVICES TO WEST SIDE OF WELCH ROAD.
  - REMOVE & DISPOSE OF EXIST. ASPHALT PAVEMENT & CHANNEL GRADING. INSTALL NEW ROADWAY BASE COURSE.
  - CONSTRUCT UPSTREAM HEADWALL AND RIPRAP APRON.
  - INSTALL REMAINING NEW PAVEMENT CALICHE BASE COURSE.
  - INSTALL GROUND FENCE & FINAL ASPHALT SURFACE COURSE TO NEW PAVEMENT.

Lot 1  
Block 5  
Alicia Navarro

Lot 1  
Block 5  
Alicia Navarro



DATE: _____	VERTICAL SCALE: 1" = 10'	<b>PORRAS NANCE ENGINEERING</b> 1000 W. CALIFORNIA LAREDO, TEXAS 78040 TEL: 361-7433 FAX: 361-7433 OFFICE 361-241-3001 WWW.PORRASNANCE.COM	<b>WEBB COUNTY, TEXAS WELCH ROAD CULVERT IMPROVEMENTS</b>	PLAN OF: <b>TRAFFIC CONTROL &amp; CONSTRUCTION SEQUENCE PLAN PHASE 3 &amp; 4</b>	SHEET: <b>10</b>
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DATE: 10/11/2007  
 DRAWING NO: 102-2-18-001  
 SHEET NO: 11

LEGAL NOTICE: The use of this standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by the Board of Engineers and Surveyors for the use of this standard in connection with any project.

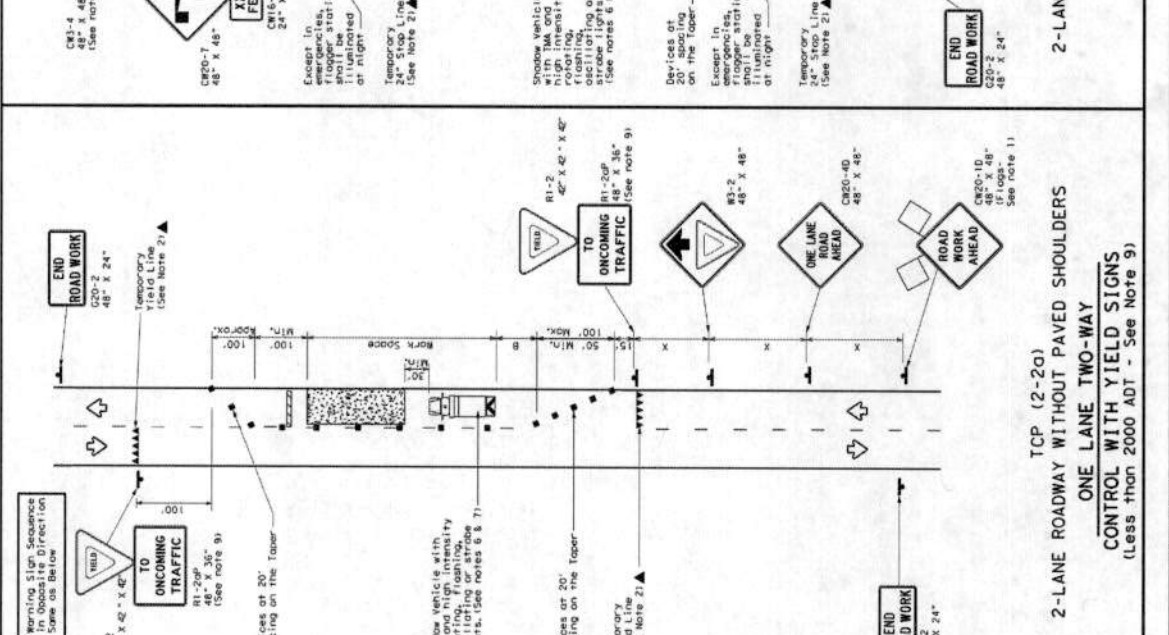
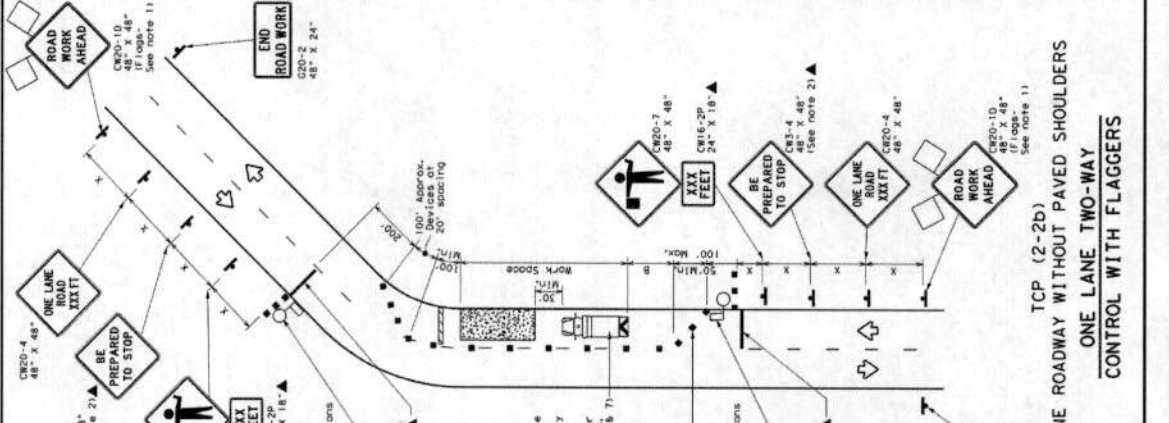
DISCLAIMER: The user of this standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by the Board of Engineers and Surveyors for the use of this standard in connection with any project.

**LEGEND**

Symbol	Type	3	Barriercode	4	5
	Heavy Work Vehicle	Truck Mounted Attenuator (TMA)	Flashing Arrow Board	Flashing Arrow Board	Traffic Flow
	Flag	Flagger			

**Minimum Spacing of Sign**

Distance from Taper to Sign	Minimum Spacing	Minimum Spacing	Minimum Spacing	Minimum Spacing
0-50'	10'	11'	12'	15'
50-100'	15'	16'	17'	20'
100-150'	20'	21'	22'	25'
150-200'	25'	26'	27'	30'
200-250'	30'	31'	32'	35'
250-300'	35'	36'	37'	40'
300-350'	40'	41'	42'	45'
350-400'	45'	46'	47'	50'
400-450'	50'	51'	52'	55'
450-500'	55'	56'	57'	60'
500-550'	60'	61'	62'	65'
550-600'	65'	66'	67'	70'
600-650'	70'	71'	72'	75'
650-700'	75'	76'	77'	80'
700-750'	80'	81'	82'	85'
750-800'	85'	86'	87'	90'
800-850'	90'	91'	92'	95'
850-900'	95'	96'	97'	100'



**TYPICAL USAGE**

Model	Short Duration	Intermediate	Long Term
WBLL	✓	✓	✓
WBLL	✓	✓	✓

**GENERAL NOTES**

- Flagger stations shall be established at 100' intervals, except those denoted with the triangle symbol.
- Flagger stations shall be established at 100' intervals, except those denoted with the triangle symbol.
- The CB-4 "BE PREPARED TO STOP" sign may be installed after the CB-2 "ONE LANE ROAD AHEAD" sign.
- Shadow vehicles shall be used to simulate the presence of traffic in the work zone.
- Shadow vehicles shall be used to simulate the presence of traffic in the work zone.
- Shadow vehicles shall be used to simulate the presence of traffic in the work zone.
- Shadow vehicles shall be used to simulate the presence of traffic in the work zone.
- Shadow vehicles shall be used to simulate the presence of traffic in the work zone.
- Shadow vehicles shall be used to simulate the presence of traffic in the work zone.
- Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

**TCP (2-20)**

1. Flagger stations shall be established at 100' intervals, except those denoted with the triangle symbol.

2. Flagger stations shall be established at 100' intervals, except those denoted with the triangle symbol.

3. The CB-4 "BE PREPARED TO STOP" sign may be installed after the CB-2 "ONE LANE ROAD AHEAD" sign.

4. Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

5. Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

6. Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

7. Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

**TCP (2-2b)**

1. Flagger stations shall be established at 100' intervals, except those denoted with the triangle symbol.

2. Flagger stations shall be established at 100' intervals, except those denoted with the triangle symbol.

3. The CB-4 "BE PREPARED TO STOP" sign may be installed after the CB-2 "ONE LANE ROAD AHEAD" sign.

4. Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

5. Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

6. Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

7. Shadow vehicles shall be used to simulate the presence of traffic in the work zone.

**Texas Department of Transportation**  
**TRAFFIC CONTROL PLAN**  
**ONE-LANE TWO-WAY**  
**TRAFFIC CONTROL**  
**TCP (2-2) - 18**

DATE: 10/11/2007  
 PROJECT: 102-2-18-001  
 SHEET NO: 11

**WEBB COUNTY, TEXAS**  
**WELCH ROAD**  
**CULVERT IMPROVEMENTS**

**PORRAS NANCE ENGINEERING**  
 4704 W. NANCE  
 WAXAHACH, TX 75165  
 (940) 938-7100  
 WWW.PORRASNANCE.COM

**Texas Department of Transportation**  
**TRAFFIC CONTROL PLAN**  
**ONE-LANE TWO-WAY**  
**TRAFFIC CONTROL**  
**TCP (2-2) - 18**

**TRAFFIC CONTROL STANDARD**

11

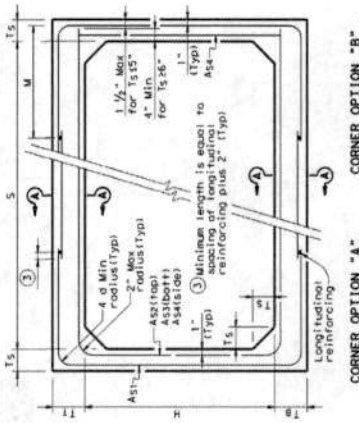
**BOX DATA**

SECTION DIMENSIONS		REINFORCING (in/ft)										Weight (lbs)					
S	H	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>	T <sub>5</sub>	M	Fill Height (ft)	A <sub>51</sub>	A <sub>52</sub>	A <sub>53</sub>	A <sub>54</sub>	A <sub>55</sub>	A <sub>56</sub>	A <sub>57</sub>	A <sub>58</sub>	Weight (lbs)
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
10	5	10	10	10	10	10	10	0	0.30	0.36	0.30	0.24	0.24	0.24	0.24	0.24	12.3
10	5	10	10	10	10	10	10	2.5	0.35	0.39	0.34	0.24	-	-	-	-	17.3
10	5	10	10	10	10	10	10	5	0.28	0.31	0.30	0.24	-	-	-	-	17.3
10	5	10	10	10	10	10	10	7.5	0.33	0.35	0.36	0.24	-	-	-	-	17.3
10	5	10	10	10	10	10	10	10	0.42	0.46	0.47	0.24	-	-	-	-	17.3
10	5	10	10	10	10	10	10	20	0.55	0.59	0.61	0.24	-	-	-	-	17.3
10	5	10	10	10	10	10	10	25	0.68	0.73	0.75	0.24	-	-	-	-	17.3
10	6	10	10	10	10	10	10	0	0.28	0.38	0.33	0.24	0.24	0.24	0.24	0.24	18.5
10	6	10	10	10	10	10	10	2.5	0.32	0.42	0.37	0.24	-	-	-	-	18.5
10	6	10	10	10	10	10	10	5	0.26	0.34	0.33	0.24	-	-	-	-	18.5
10	6	10	10	10	10	10	10	7.5	0.30	0.38	0.39	0.24	-	-	-	-	18.5
10	6	10	10	10	10	10	10	10	0.39	0.49	0.51	0.24	-	-	-	-	18.5
10	6	10	10	10	10	10	10	20	0.50	0.63	0.65	0.24	-	-	-	-	18.5
10	6	10	10	10	10	10	10	25	0.61	0.78	0.80	0.24	-	-	-	-	18.5
10	7	10	10	10	10	10	10	0	0.25	0.40	0.36	0.24	0.24	0.24	0.24	0.24	19.5
10	7	10	10	10	10	10	10	2.5	0.30	0.45	0.40	0.24	-	-	-	-	19.5
10	7	10	10	10	10	10	10	5	0.28	0.40	0.42	0.24	-	-	-	-	19.5
10	7	10	10	10	10	10	10	7.5	0.36	0.52	0.54	0.24	-	-	-	-	19.5
10	7	10	10	10	10	10	10	10	0.46	0.67	0.69	0.24	-	-	-	-	19.5
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10	8	10	10	10	10	10	10	0	0.24	0.41	0.38	0.24	0.24	0.24	0.24	0.24	20.5
10	8	10	10	10	10	10	10	2.5	0.27	0.47	0.43	0.24	-	-	-	-	20.5
10	8	10	10	10	10	10	10	5	0.24	0.38	0.36	0.24	-	-	-	-	20.5
10	8	10	10	10	10	10	10	7.5	0.26	0.42	0.44	0.24	-	-	-	-	20.5
10	8	10	10	10	10	10	10	10	0.34	0.54	0.57	0.24	-	-	-	-	20.5
10	8	10	10	10	10	10	10	20	0.43	0.69	0.72	0.24	-	-	-	-	20.5
10	9	10	10	10	10	10	10	0	0.24	0.42	0.41	0.24	0.24	0.24	0.24	0.24	21.5
10	9	10	10	10	10	10	10	2.5	0.26	0.50	0.46	0.24	-	-	-	-	21.5
10	9	10	10	10	10	10	10	5	0.24	0.40	0.40	0.24	-	-	-	-	21.5
10	9	10	10	10	10	10	10	7.5	0.25	0.43	0.45	0.24	-	-	-	-	21.5
10	9	10	10	10	10	10	10	10	0.32	0.56	0.59	0.24	-	-	-	-	21.5
10	9	10	10	10	10	10	10	20	0.40	0.71	0.75	0.24	-	-	-	-	21.5
10	10	10	10	10	10	10	10	0	0.24	0.44	0.44	0.24	0.24	0.24	0.24	0.24	22.5
10	10	10	10	10	10	10	10	2.5	0.25	0.52	0.48	0.24	-	-	-	-	22.5
10	10	10	10	10	10	10	10	5	0.24	0.42	0.43	0.24	-	-	-	-	22.5
10	10	10	10	10	10	10	10	7.5	0.24	0.44	0.48	0.24	-	-	-	-	22.5
10	10	10	10	10	10	10	10	10	0.30	0.57	0.61	0.24	-	-	-	-	22.5
10	10	10	10	10	10	10	10	20	0.38	0.73	0.77	0.24	-	-	-	-	22.5

- For Box Length = 8'-0"
- As<sub>1</sub>, As<sub>2</sub>, As<sub>3</sub> and As<sub>4</sub> are minimum required areas of reinforcement per linear foot of box length. As<sub>5</sub> and As<sub>8</sub> are minimum required areas of reinforcement per linear foot of box width.



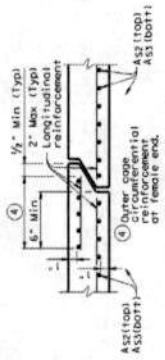
CORNER OPTION "A"



CORNER OPTION "B"

FILL HEIGHT LESS THAN 2 FT

FILL HEIGHT 2 FT AND GREATER



SECTION A-A

(TOP AND BOTTOM SLAB JOINT REINFORCEMENT)

**GENERAL NOTES:**  
 Refer to the drawings for information on details not shown.  
 Concrete shall be Class "M" concrete with a minimum compressive strength of 5,000 psi.  
 Reinforcing steel shall be A603 steel in lieu of furnishing the designs shown on the drawings. The design for the box and alternate design shall be subject to alternate design (fabrication).  
 Precast concrete structural members (fabrication).

HL 93 LOADING

Texas Department of Transportation

**SINGLE BOX CULVERTS**

**PRECAST**

**10'-0" SPAN**

SCP-10

DATE: 02/01/2010

BY: [Signature]

PROJECT: [Project Name]

SCALE: 1" = 1'-0"

DATE: 02/01/2010

BY: [Signature]

PROJECT: [Project Name]

SCALE: 1" = 1'-0"



- 1 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECC standard. For structures with traffic rail, other than 16", refer to RAC standard. For structures with traffic rail, other than 16", refer to RAC standard.
- 2 For curbs less than 1'-0" high, 1/2" Bars K may reduce bar height of Bars K to minimum cover. For curbs less than 3" high, Bars K may be omitted.
- 3 Curb, Wingwall or Safety End Treatment reinforcing shall extend into concrete closure. Any reinforcing that does not fit into the closure shall be bent or trimmed as necessary.
- 4 Cast-in-place concrete closure shall be 3'-0" min. Boxes shall be cast prior to broken back in the field. All reinforcing in box section shall be placed in the field. Except where shown otherwise, the cast-in-place closure shall be flush with the inside and outside faces of the precast box section.
- 5 For multiple unit placements the length of the closure for the interior walls may be adjusted as necessary. The length of the exterior walls shall be adjusted as necessary. The length of the cast full length. See Section B-B detail when interior walls are cast full length.
- 6 Precast box reinforcing shall extend a minimum of 1'-0" into concrete closure (Typ).
- 7 Bands of reinforcing matching the inside and outside face reinforcing shall be placed in the gaps of the top and bottom reinforcement. The bands shall be placed in the gaps of the outside face only. The bands shall be tack welded to the exposed reinforcing at each point of contact.
- 8 For vehicle safety, the following requirements must be met:
  - For structures with bridge rail, curbs shall project no more than 3" above finished grade.
  - For structures with bridge rail, curbs shall be flush with curb heights.
  - If necessary, to meet the above requirements, no changes will be made in quantities and no additional compensation will be allowed for this work.
- 9 Cement Stabilized Backfill between boxes is considered part of the Box Culvert for payment.
- 10 All curb concrete and reinforcing is considered part of the Box Culvert for payment.
- 11 Any additional concrete and reinforcing required for the closures shall be considered as subsidiary to the Concrete Box Culvert.
- 12 1'-0" typical, 2'-0" when RAC standard is referred to elsewhere in the plans.
- 13 For multiple unit placement with overlay, within 1 to 2 course surface shall be placed on the existing surface. The final riding surface, provide wall closure as shown in DETAIL 94.
- 14 This detail may be increased with approval of the Engineer to allow the precast boxes to be furnished or jacked in accordance with 11cm 476, "Jacking, Boring, or Tunneling Piles or Box". No payment will be made for any additional material in the gap between adjacent boxes.

**GENERAL NOTES:**

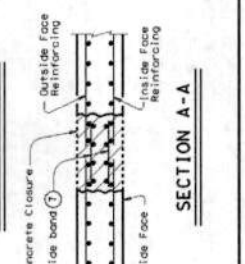
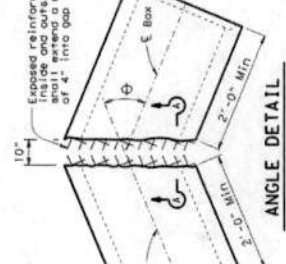
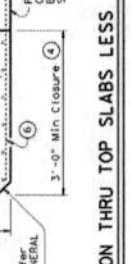
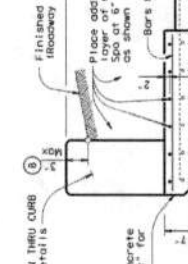
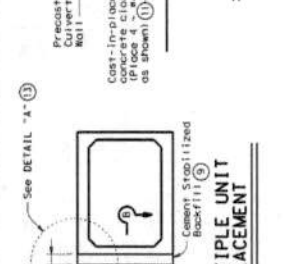
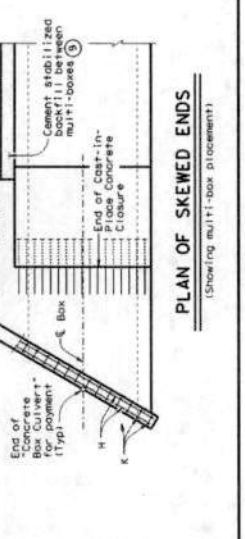
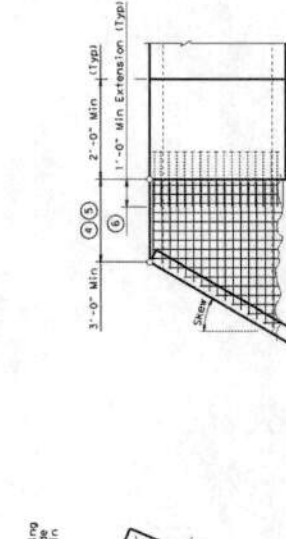
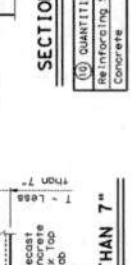
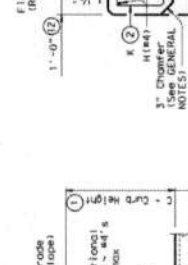
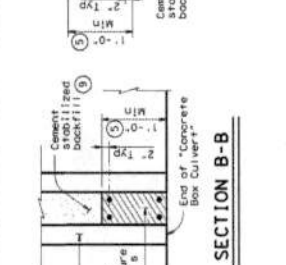
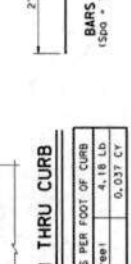
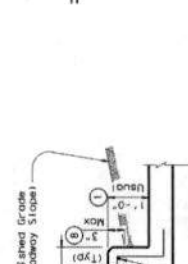
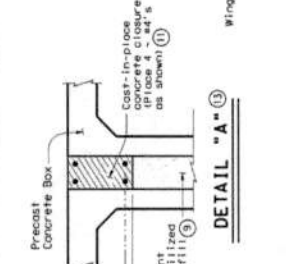
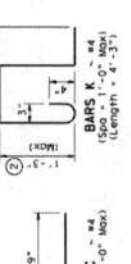
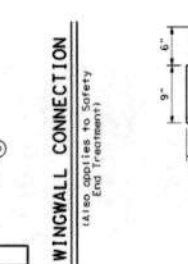
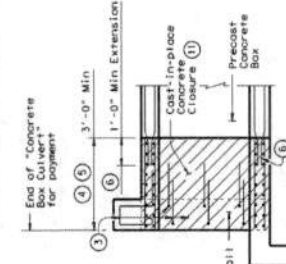
Designed according to ASTM A630 Specifications, minimum compressive strength of 3600 psi and shall be placed according to the Texas Concrete Structures Code. The closures shall be considered as subsidiary to the Concrete Box Culvert. Refer to the Single Box Culverts Precast standard for details. The bottom edge of the top slab closure shall be chamfered 3 inches at the entrance.

**HL93 LOADING**

Box Culvert  
Precast

MISCELLANEOUS DETAILS  
SCP-MD

DATE	DESCRIPTION	BY	CHECKED
10/10/07	REVISED	MD	MD
11/15/07	REVISED	MD	MD
11/15/07	REVISED	MD	MD



DISCLAIMER: The use of this Manual is governed by the Texas Engineering Practice Act. No warranty of any kind is made by EFCOR for the design or construction of any structure or for the consequences of the construction of any structure. The user of this Manual is responsible for the design and construction of any structure and for the consequences of the construction of any structure.

DATE: 11/15/07  
 SHEET NO.: 13  
 PROJECT: WEBB COUNTY, TEXAS WELCH ROAD CULVERT IMPROVEMENTS  
 DRAWING NO.: 7007-1-000  
 SCALE: AS SHOWN  
 DESIGNER: PORRAS NANCE ENGINEERING  
 CHECKED: [Signature]  
 APPROVED: [Signature]  
 TITLE: [Signature]





DATE: \_\_\_\_\_

REVISIONS:

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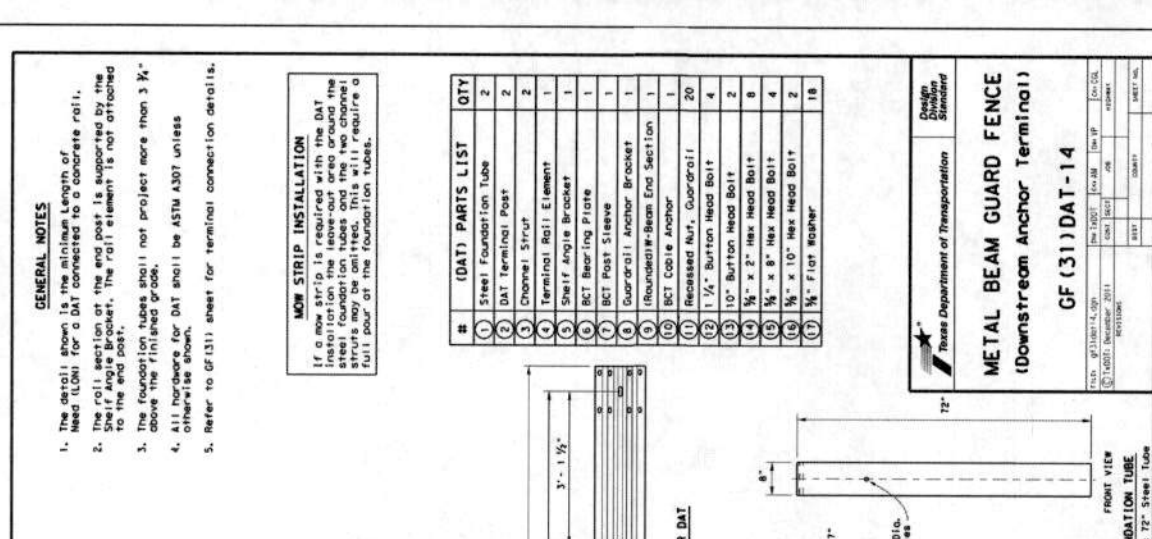
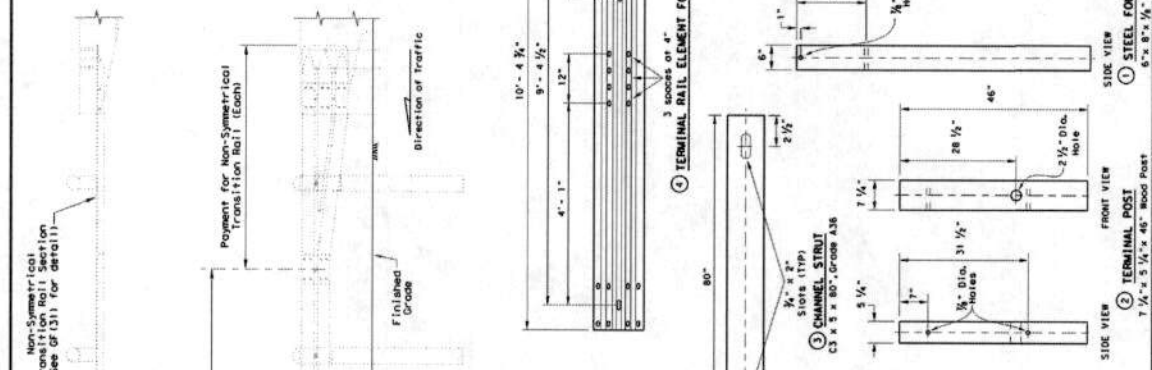
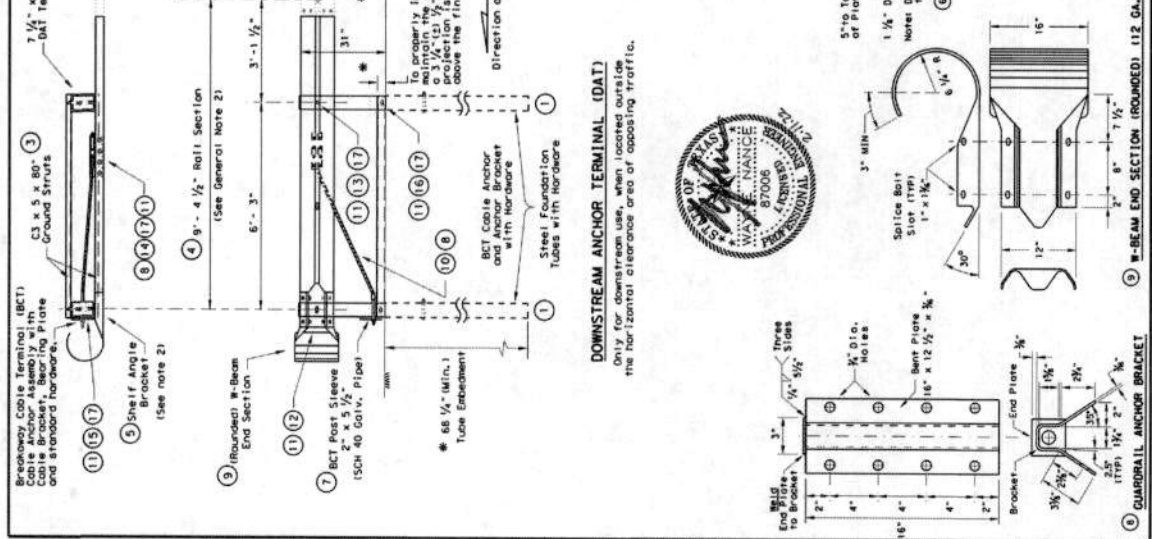
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DISCLAIMER: The use of this standard is governed by the Texas Engineering Practice Act. No warranty or liability is made by T&E for any purpose whatsoever. T&E assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



#	(DAT) PARTS LIST	QTY
1	Steel Foundation Tube	2
2	DAT Terminal Post	2
3	Channel Strut	2
4	Terminal Rail Element	1
5	Sheif Angle Bracket	1
6	BCT Bearing Plate	1
7	BCT Post Sleeve	1
8	Guardrail Anchor Bracket	1
9	Roundover-Beam End Section	1
10	BCT Cable Anchor	1
11	Recessed Nut, Guardrail	20
12	1 1/4\"/>	
13	10\"/>	
14	3/4\"/>	
15	3/8\"/>	
16	3/8\"/>	
17	1/4\"/>	
18		

**GENERAL NOTES**

- The detail shown is the minimum length of Need (LON) for a DAT connected to a concrete rail.
- The roll section at the end post is supported by the Sheif Angle Bracket. The roll element is not attached to the end post.
- The foundation tubes shall not project more than 3/4\"/>
- All hardware for DAT shall be ASTM A307 unless otherwise shown.
- Refer to GF (31) sheet for terminal connection details.

**HOW STRIP INSTALLATION**

If a how strip is required with the DAT installation the leave-out area around the foundation tubes shall be omitted. This will require a full pour at the foundation tubes.

**Design Simms**  
Texas Department of Transportation

**METAL BEAM GUARD FENCE  
(Downstream Anchor Terminal)**

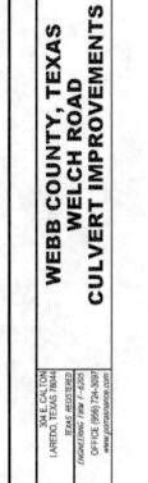
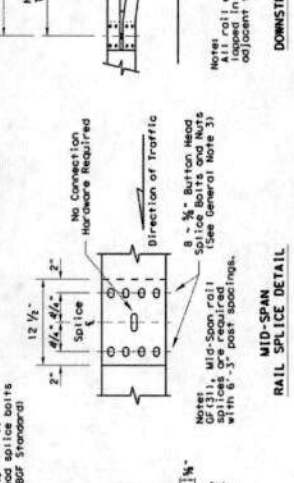
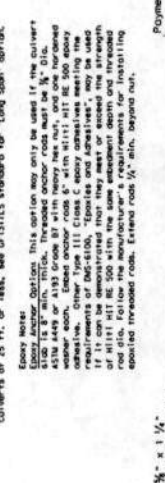
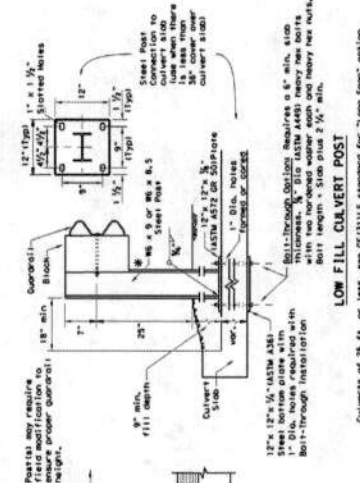
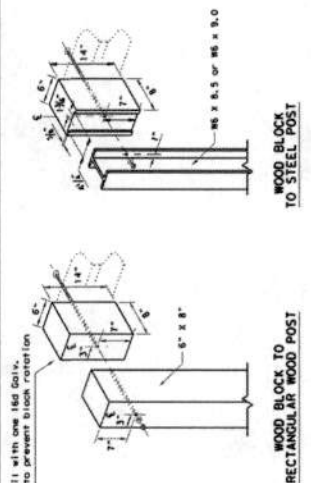
**GF (31) DAT-14**

DATE: 07/14/01 1:00 PM  
 DRAWN BY: J. L. COOPER  
 CHECKED BY: J. L. COOPER  
 REVISIONS:

SHEET NO.: 18  
 SHEET TOTAL: 18

# GENERAL NOTES

- The type of post (round wood post, rectangular wood post, or steel post) will be as shown in the plan view. The exact position of MBDF shall be shown in accordance with Item 445, "Galvanizing."
- Roll element shall meet the requirements of Item 540, "Metal Beam Guard Fence" 25'-0" or 12'-6" (nom.) lengths. Roll elements may have slotted noles of 3-1/2" C-C or 6'-3" C-C. A special length of roll may be manufactured to accommodate the downstream anchor terminal (DAT) and the transition sections of guardrail.
- Burton head "post" bolts (ASTM A307) shall be of sufficient length to extend through the full thickness of the nut (ASTM A563) and Type A (1 1/4" O.D.) washer (ASTM A562) with a minimum of 2" (nom.) lap. Splice bolts shall be galvanized (ASTM A563). Terite beam "connection" 1/2" dia. (ASTM A325) hex bolts shall be of sufficient length to extend through the full thickness of the roll, washers, and nuts.
- Fittings (bolts, nuts, and washers) shall be galvanized in accordance with Item 445, "Galvanizing." Fittings shall be subsidiary to the bid item.
- Crown shall be widened to accommodate the Metal Beam Guard Fence.
- The lateral approach to the guard fence, shall have a maximum slope of 1V:10H.
- If crown sleepers in the plans or as directed by the Engineer, the guard fence may be flared at a rate of 25:1 or flatter.
- Unless otherwise shown in the plans, guard fence placed in the vicinity of curbs shall be installed so that the face of the roll is placed over curbs and shall be installed so that the post bolt is located approximately 25 inches above the gutter pan or edge of shoulder.
- If solid rock is encountered within 0 to 18" of the finished grade, drill a 12" dia. hole or drill one 12" dia. front to back over the hole. Place 12" into the rock. If solid rock is encountered below 18", drill a 12" dia. hole, 12" into the rock or to the standard embedment depth, whichever may be less. Any excess post length, other than the standard embedment depth, may be field cut to ensure proper guardrail anchoring height. Bolt fit with a consistency material.
- Posts shall not be set in concrete, or any depth.
- Special fabrication will be required at installations having a curvature of less than 150 ft. radius.
- Unless otherwise shown in the plans, a composite material post and/or block shall be used for the roll element. The roll element may be substituted for blocks for Metal Beam Guard Fence. The Construction Division, TxDOT maintains a Material Producer List (MPL) for producers of materials conforming to MMS-7210. Only a producer on the MPL may furnish composite material posts and/or blocks.
- For posts located partially or wholly between precast box culvert units, the use of a cast-in-place concrete closure between boxes is required. See Detail "A" on Bridge Standard SCP-MB.



1. The type of post (round wood post, rectangular wood post, or steel post) will be as shown in the plan view. The exact position of MBDF shall be shown in accordance with Item 445, "Galvanizing."

2. Roll element shall meet the requirements of Item 540, "Metal Beam Guard Fence" 25'-0" or 12'-6" (nom.) lengths. Roll elements may have slotted noles of 3-1/2" C-C or 6'-3" C-C. A special length of roll may be manufactured to accommodate the downstream anchor terminal (DAT) and the transition sections of guardrail.

3. Burton head "post" bolts (ASTM A307) shall be of sufficient length to extend through the full thickness of the nut (ASTM A563) and Type A (1 1/4" O.D.) washer (ASTM A562) with a minimum of 2" (nom.) lap. Splice bolts shall be galvanized (ASTM A563). Terite beam "connection" 1/2" dia. (ASTM A325) hex bolts shall be of sufficient length to extend through the full thickness of the roll, washers, and nuts.

4. Fittings (bolts, nuts, and washers) shall be galvanized in accordance with Item 445, "Galvanizing." Fittings shall be subsidiary to the bid item.

5. Crown shall be widened to accommodate the Metal Beam Guard Fence.

6. The lateral approach to the guard fence, shall have a maximum slope of 1V:10H.

7. If crown sleepers in the plans or as directed by the Engineer, the guard fence may be flared at a rate of 25:1 or flatter.

8. Unless otherwise shown in the plans, guard fence placed in the vicinity of curbs shall be installed so that the face of the roll is placed over curbs and shall be installed so that the post bolt is located approximately 25 inches above the gutter pan or edge of shoulder.

9. If solid rock is encountered within 0 to 18" of the finished grade, drill a 12" dia. hole or drill one 12" dia. front to back over the hole. Place 12" into the rock. If solid rock is encountered below 18", drill a 12" dia. hole, 12" into the rock or to the standard embedment depth, whichever may be less. Any excess post length, other than the standard embedment depth, may be field cut to ensure proper guardrail anchoring height. Bolt fit with a consistency material.

10. Posts shall not be set in concrete, or any depth.

11. Special fabrication will be required at installations having a curvature of less than 150 ft. radius.

12. Unless otherwise shown in the plans, a composite material post and/or block shall be used for the roll element. The roll element may be substituted for blocks for Metal Beam Guard Fence. The Construction Division, TxDOT maintains a Material Producer List (MPL) for producers of materials conforming to MMS-7210. Only a producer on the MPL may furnish composite material posts and/or blocks.

13. For posts located partially or wholly between precast box culvert units, the use of a cast-in-place concrete closure between boxes is required. See Detail "A" on Bridge Standard SCP-MB.



TxDOT Department of Transportation			
DATE	PROJECT	DRAWING	SHEET NO.
12/15/2011	1000020	GF (31) - 14	16
DESIGNED	CHECKED	APPROVED	

METAL BEAM GUARD FENCE  
GF (31) - 14

PLANS ON

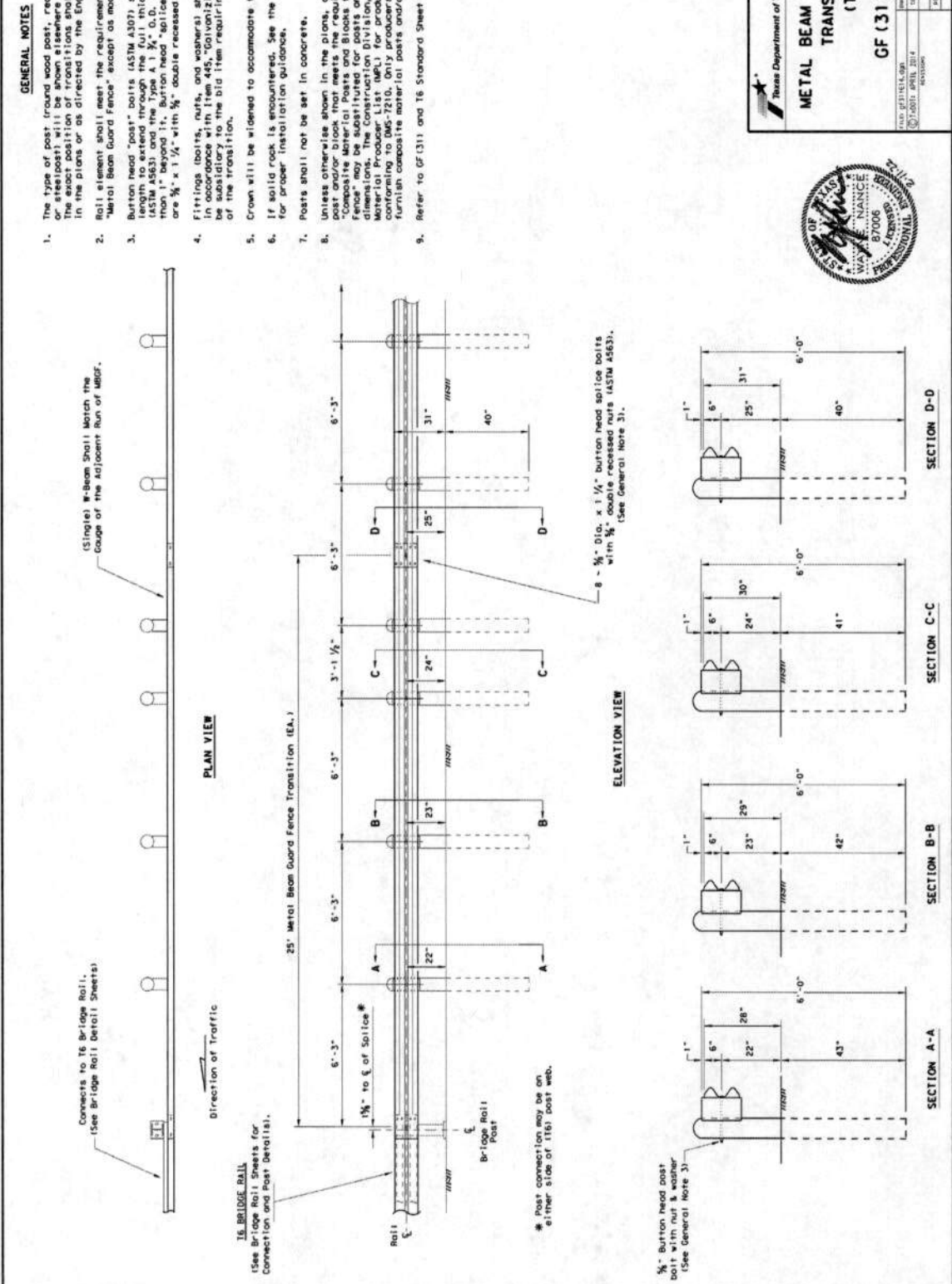
THE STATE ARCHITECTURE BOARD OF TEXAS HAS REVIEWED THIS DRAWING AND DETERMINED THAT IT CONFORMS WITH THE REQUIREMENTS OF THE ARCHITECTURAL PROFESSION ACT. THIS REVIEW IS LIMITED TO TECHNICAL ASPECTS AND DOES NOT CONSTITUTE AN ENDORSEMENT OF ANY PRODUCTS OR SERVICES SHOWN OR REFERRED TO IN THIS DRAWING.

WEBB COUNTY, TEXAS  
WELCH ROAD  
CULVERT IMPROVEMENTS

PORRAS NANCE  
ENGINEERING

DATE: 12/15/2011  
SHEET: 16 OF 21

DISCLAIMER  
 T&E assumes no responsibility for the conversion of this drawing to other format or for incorrect results or damages resulting from its use.  
 DATE: \_\_\_\_\_ FILE: \_\_\_\_\_



- GENERAL NOTES**
- The type of post (round wood post, rectangular wood post, or steelpost) will be shown elsewhere in the plans. The exact position of transitions shall be shown elsewhere in the plans or as directed by the Engineer.
  - "Metal Beam Guard Fence" except as modified on the plans.
  - Rail element shall meet the requirements of Item 540, "Metal Beam Guard Fence" (ASTM A307) shall be of sufficient length to extend through the full thickness of the nut (ASTM A563) and the Type A 1 1/2" O.D. washer and not more than 1" beyond it. Button head "splice" bolts (ASTM A307) are 1/2" x 1 1/2" with 3/8" double recessed nuts (ASTM A563).
  - Fittings, bolts, nuts, and washers shall be galvanized in accordance with Item 445, "Galvanizing." Fittings shall be subsidiary to the bid item requiring construction of the transition.
  - Crown will be welded to accommodate transitions.
  - If solid rock is encountered, see the GF (31) standard sheet for proper installation guidance.
  - Posts shall not be set in concrete.
  - Unless otherwise shown in the plans, a composite material post and/or block that meets the requirements of DMS-7210, Composite Material Post and Block shall be used. Posts and/or blocks shall be constructed for use with posts and/or blocks of similar dimensions. The Construction Division, TxDOT, maintains a Material Producer List (MPL) for producers of materials conforming to DMS-7210. Only producers on the MPL can furnish composite material posts and/or blocks.
  - Refer to GF (31) and T6 Standard Sheet for additional details.

Connects to T6 Bridge Rail.  
 (See Bridge Rail Detail Sheets)

(Single) W-Beam Shall Match the Gauge of the Adjacent Run of W-Beam.

16. BRIDGE RAIL  
 (See Bridge Rail Sheets for Connection and Post Details).

\* Post connection may be on either side of (16) post web.

8 - 1/2" dia. x 1 1/2" button head splice bolts with 1/4" double nut and washer (See General Note 3).

DATE: \_\_\_\_\_ FILE: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_

SCALE: 1" = 1'-0"

PROJ. NO.: \_\_\_\_\_

DATE: \_\_\_\_\_

REV. NO.: \_\_\_\_\_

REV. 1: \_\_\_\_\_

REV. 2: \_\_\_\_\_

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REV. 97: \_\_\_\_\_

REV. 98: \_\_\_\_\_

REV. 99: \_\_\_\_\_

REV. 100: \_\_\_\_\_

THE STATE ENGINEERING BOARD  
 HAS REVIEWED THIS DRAWING AND  
 HAS FOUND IT TO BE IN ACCORDANCE WITH  
 THE REQUIREMENTS OF THE PROFESSIONAL  
 ENGINEERING ACT.

STATE OF TEXAS  
 PROFESSIONAL ENGINEERING BOARD

NO. 12345  
 APRIL 2014

SECTION: \_\_\_\_\_

DATE: \_\_\_\_\_

FILE: \_\_\_\_\_

THE TEXAS DEPARTMENT OF TRANSPORTATION  
 METAL BEAM GUARD FENCE  
 TRANSITION  
 (T6)

GF (31) T6-14

WEBB COUNTY, TEXAS  
 WELCH ROAD  
 CULVERT IMPROVEMENTS

ENGINEERING

GUARDRAIL STANDARDS





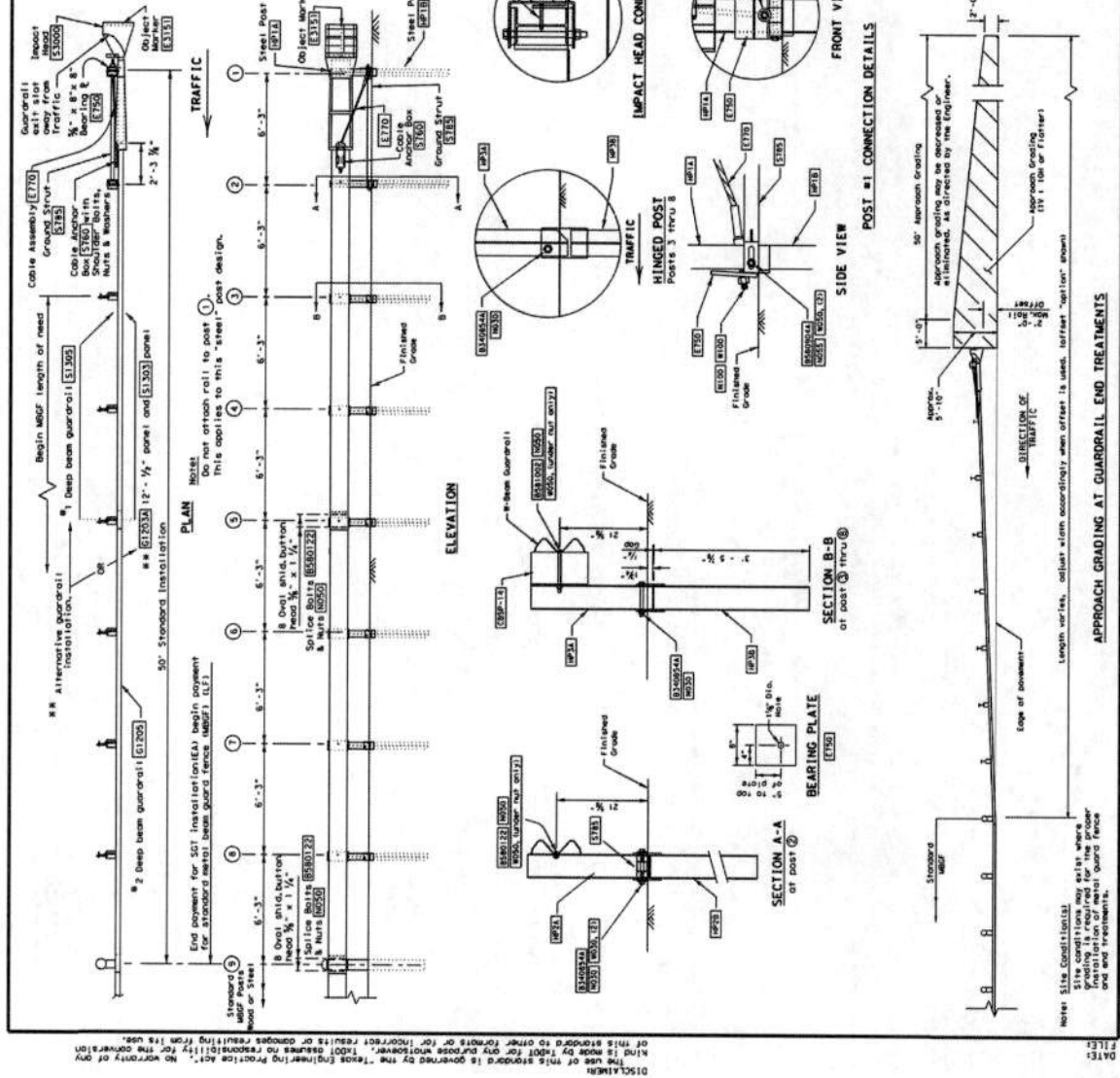
- GENERAL NOTES**
- For additional information contact: Intertec Steel, Inc. (432) 263-3725
  - All bolts, nuts cable assemblies, cable anchors, steel tubes & bearing plates shall be galvanized.
  - SGT's shall be installed with the following dimensions:
  - A flag rate of 25% may be used over the first 50 ft. of the system to prevent the terminal head from settling. The flag rate may be decreased or eliminated for specific installations, if directed by the Engineer.
  - The lower sections of the post shall not protrude more than 4 inches above finished ground.
  - Site grading may be necessary to meet this requirement.
  - The lower section of the steel post shall not be driven with the upper post attached, if the prevent settlement.
  - If solid rock is encountered, see manufacturer's installation manual for the proper installation guidelines.
  - Post shall be installed on a concrete pad. The pad shall be cast in place or precast (concrete piers) and shall be set back from the curb line.
  - Hinge bolts shall not be set below finished grade. At each location the post shall be installed at the proper grade elevation on a concrete pad. The bolts shall then require grouting near the curb line. The excess post length above the curb will be removed if directed by the Engineer.
  - An object marker shall be installed on the front of the impact head as detailed on DRW/M/1A.

Notes: 1. Alternative Installation

ITEM NO.	QTY	BILL OF MATERIALS
13000	1	IMPACT HEAD
51305	1	H-BEAM GUARDRAIL END SECTION - 12 GA., 25'
01905	1	H-BEAM GUARDRAIL - 12 GA., 25'
51303	1	H-BEAM GUARDRAIL (12 GA.) 12'-0" SKT
01903A	1	H-BEAM GUARDRAIL (12 GA.) 12'-0" SKT
01914	1	FIRST POST ASSEMBLY TOP, 2'-4 1/2"
01918	1	FIRST POST ASSEMBLY BOTTOM, 6'-0"
01924	1	SECOND POST ASSEMBLY TOP, 2'-4 1/2"
01928	1	SECOND POST ASSEMBLY BOTTOM, 6'-0"
01929	6	HINGED LINE POST TOP, 2'-5 1/2"
01930	6	HINGED LINE POST BOTTOM, 3'-5 1/2"
01931	1	BEARING PLATE
01932	1	CABLE ANCHOR BOX
01933	1	BCT CABLE ANCHOR ASSEMBLY
01934	6	GROUND STRUT SPECIAL FOR HINGED POST
01935	6	FRONTS BLOOD
01936	1	CABLE TIE - STEEL

Notes: 2. Hardware

ITEM NO.	QTY	BILL OF MATERIALS
0500312	17	1/4" Dia. x 1/4" SPLICE BOLT, POST #2
0500344	8	1/4" Dia. x 1/4" HEZ BOLT CR. 5
0500344	7	1/4" Dia. x 8 1/2" HEZ BOLT CR. 5
0500302	6	1/2" Dia. x 10" A.C.R. BOLT Posts 3 thru 6
05050	25	3/8" Dia. H.C.R. NUT FOR Splice (15k & Posts 2 thru 6)
05050	1	1/4" Dia. HEZ NUT Post #1 only!
05050	2	H.C.R. WASHER AT Post 1 (2), 5 Post 2 thru 6
05100	2	ANCHOR CABLE HEZ NUT
05100	2	1" ANCHOR CABLE WASHER
05100	2	1/4" HEZ BOLT CR. 5
05100	2	1/4" HEZ WASHER
05100	2	1/4" HEZ BOLT CR. 5
05100	2	1/4" HEZ NUT
05100	2	1/4" HEZ WASHER
05100	2	1/4" HEZ NUT
05100	2	1/4" HEZ WASHER
05100	2	1/4" HEZ BOLT CR. 5
05100	2	1/4" HEZ WASHER
05100	2	1/4" HEZ BOLT CR. 5



Design Standards  
**SGT (SKT 350)**  
**SGT (B)H-14**  
**(HINGED STEEL POST)**

Texas Department of Transportation  
 State Office Building  
 1701 North East Street  
 Austin, Texas 78702  
 Date: 08/10/2011  
 Revision: 001  
 Project No. 2010-0044-02  
 Sheet No. 19 of 152

WARRANTY: The work shown on this drawing is guaranteed to be in accordance with the specifications of the Texas Department of Transportation for the project mentioned herein. This warranty is void if the work is not done in accordance with the specifications of the Texas Department of Transportation.



DATE: 08/10/2011  
 SHEET: 19  
 PROJECT: GUARDRAIL STANDARDS

**WEBB COUNTY, TEXAS  
 WELCH ROAD  
 CULVERT IMPROVEMENTS**

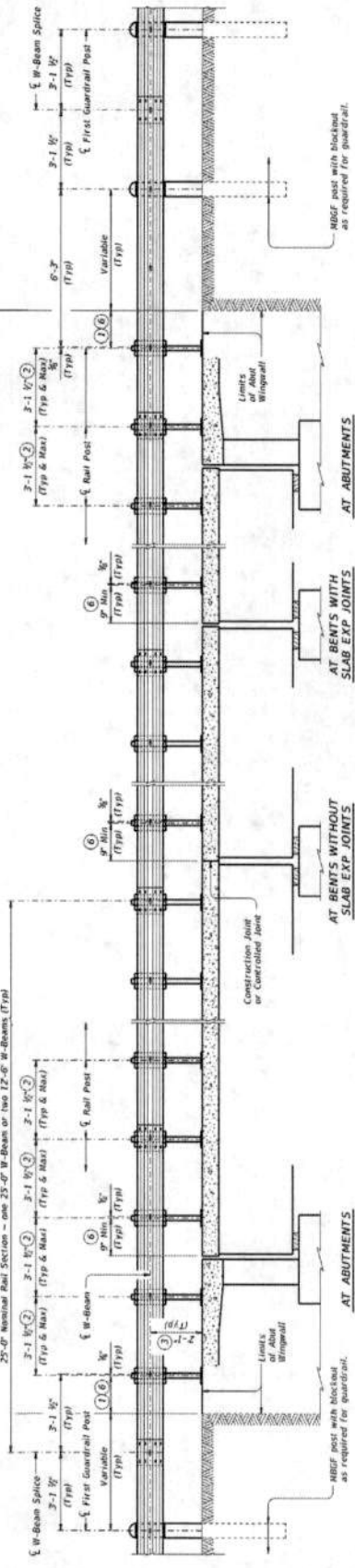
**PORRAS NANCE  
 ENGINEERING**

SCALE: 1" = 10'  
 HORIZONTAL SCALE: 1" = 10'  
 The drawings are the property of Porras Nance Engineering. They are to be used only for the project and location specified on the title block. No part of these drawings may be reproduced or transmitted in any form or by any means electronic, mechanical, photocopying, recording, or by any information storage and retrieval system without the prior written permission of Porras Nance Engineering.

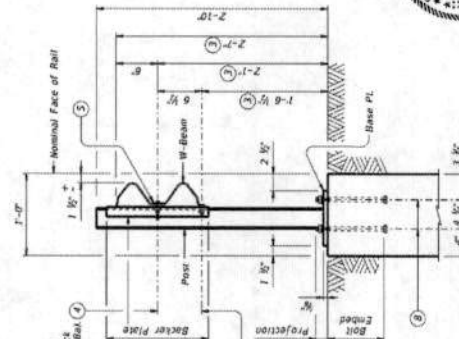
DISCLAIMER: The use of this standard is governed by the Texas Engineering Practice Act. No responsibility is assumed by the Texas Department of Transportation for the use of this standard to other forms or for incorrect results or omissions resulting from its use. The standard is the property of the Texas Department of Transportation.



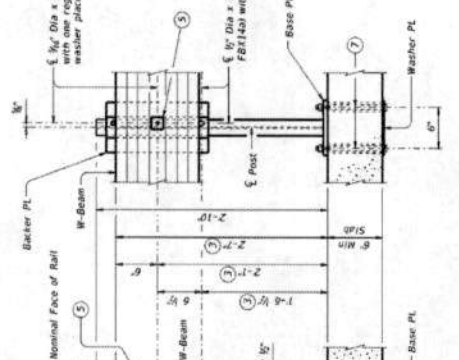
Nominal end of Bridge Rail for pavement  
Nominal begin MBGF length of road



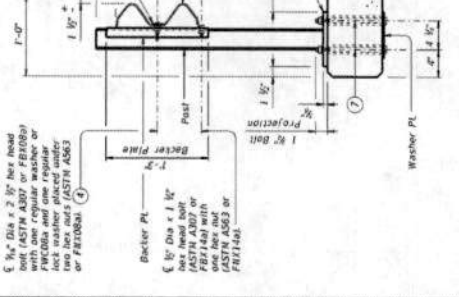
- 1) 1/2" Min. 9" Max.
- 2) Mainstem 3'-1 1/2" Rail Post spacing wherever possible for use with nominal 25'-0" length of road. If necessary, the centerline of post spacing on both sides and along the structure is not necessary.
- 3) Increase 2" for structures with overlay.
- 4) Tighten the first nut by hand until the top and bottom edges of the W-beam are flush with the top and bottom edges of the rail post. The second nut should be tightened to the same tension as the first nut and secured with the second lock nut.
- 5) PL 3/8 x 1 1/2 x 1 1/2 with 1/2" Dia Hole centered in PL (ASTM A36). Square Guardrail washer (FR101).
- 6) The post nearest to a slab joint or end of structure may be shifted up to 9" in order to satisfy the minimum spacing. Drill a new 3/8" Dia hole on the nominal face of the rail post. The hole must be drilled to the same depth as the typical spacing.
- 7) 3/8" Dia formed holes for 3/8" Dia heavy hex head anchor bolt (ASTM F3125 Gr. A325 or A449) or threaded rod (ASTM A193 Gr. B7 or F1554 Gr. 105) with one hardened steel washer or FR1008A and one regular lock washer. 1/2" Dia hole under the anchor bolt (ASTM A563) and one regular lock washer. 1/2" Dia hole under the regular lock washer. See "Cast-In-Place & Formed Hole Anchor Bolt Options".
- 8) 3/8" Dia heavy hex head anchor bolt (ASTM F3125 Gr. A325 or A449) or threaded rod (ASTM A193 Gr. B7 or F1554 Gr. 105) with one hardened steel washer or FR1008A and one regular lock washer. 1/2" Dia hole under the anchor bolt (ASTM A563) and one regular lock washer. 1/2" Dia hole under the regular lock washer. See "Cast-In-Place & Formed Hole Anchor Bolt Options".



RAIL SECTION ON ABUTMENT WINGWALL  
Showing without overlay.



RAIL SECTION ON BRIDGE SLAB  
Showing without overlay.



TRAFFIC SIDE RAIL VIEW  
Showing without overlay.

SHEET 1 OF 2

Texas Department of Transportation

TRAFFIC RAIL

TYPE T631

DATE: 04/20/2018	BY: JLD	CHK: JLD	APP: JLD	REV: 0
PROJECT: 104233-TRAP	SCALE: 1/8" = 1'-0"	DATE: 04/20/2018	BY: JLD	CHK: JLD
DRAWN BY: JLD		CHECKED BY: JLD		DATE: 04/20/2018
PROJECT NO: 104233-TRAP		SHEET NO: 1		TOTAL SHEETS: 2



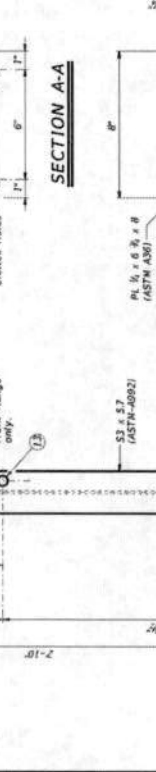
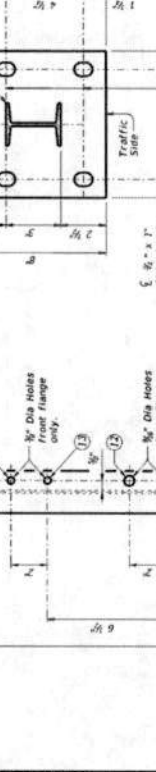
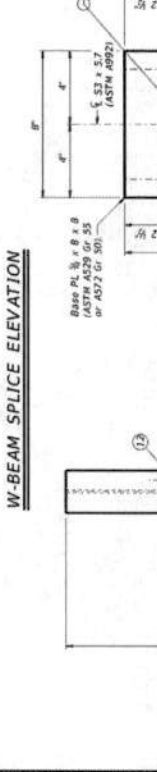
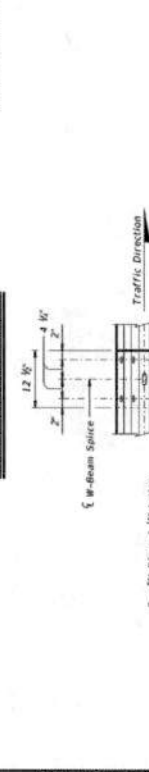
DATE: 04/20/2018  
PROJECT: 104233-TRAP  
SCALE: 1/8" = 1'-0"  
DRAWN BY: JLD  
CHECKED BY: JLD  
DATE: 04/20/2018

VERTICAL SCALE: 1" = 1'-0"  
HORIZONTAL SCALE: 1" = 10'-0"  
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DATE: \_\_\_\_\_ FILE: \_\_\_\_\_

DISCLAIMER: The use of this Standard is governed by the Texas Engineering Practice Act. No warranty or liability is made by either the author or engineer for any consequences or damages resulting from its use.



1/2" Dia heavy hex head anchor bolt (ASTM F3125 threaded rod (ASTM A193 Gr B7 or F1554 Gr 103) with one regular lock washer and one additional heavy hex nut must be furnished and torqued to 40 ft-lb. Torque wrench required.



- 1) See "Rail Details on Bridge Slab" and/or "Rail Section on Abutment Wingwall".
- 2) See "Material Notes" for anchor bolt information.
- 3) Backer PL 1/2" x 8" x 1'-3" (ASTM A1011 CS or SS Gr 33, or A1008 CS or SS Gr 33/11) edge acceptable.
- 4) Used for structures with overlay.
- 5) Used for structures without overlay.

**MBGF AND END TREATMENT NOTES:**  
The MBGF railing must be installed on a beam placed lengthwise in accordance with the Roadway Design Manual, unless otherwise specified. The minimum length of rail must be 15' and must be placed in accordance with the Roadway Design Manual.

**CONSTRUCTION NOTES:**  
Face of rail post must be plumb unless otherwise approved by the Engineer. Post must be perpendicular to adjacent roadway or driveway. Rail post must be placed if 600g larger than 1/2" x 8" x 1'-3" rail.

**MATERIAL NOTES:**  
Guardrail system must be 1/2" Dia ASTM F3125 Gr A325 or A449 bolts (or ASTM A193 Gr B7 or F1554 Gr 103) threaded rods with one lock washer and one regular lock washer attached under each heavy hex nut. Nuts must conform to ASTM A563 requirements.  
Optional adhesive anchorage system must be 1/2" Dia ASTM A193 Gr A325 or A449 bolts (or ASTM A193 Gr B7 or F1554 Gr 103) threaded rods with one lock washer and one regular lock washer attached under each heavy hex nut. Nuts must conform to ASTM A563 requirements.  
Minimum adhesive anchor embedment depth is 4 3/4". Anchor adhesive chosen must be able to achieve a nominal bond strength of 3000 psi. Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor embedment depth and bond strength. The contractor is responsible for anchor installation, including mix size, drilling, and clean out, must be in accordance with Item 450, "Grouting".  
Guard fence except as modified in the plans. The Contractor may furnish rail elements of 25'-0" or 12'-0" nominal lengths. W-beam must have spaced holes at 3'-1 1/2" 13' Guide to Standard Highway Barrier Hardware have been included for their reference.  
**GENERAL NOTES:**  
This railing has been successfully evaluated by full-scale testing. This railing is suitable for use on structures with a slope of 30% and greater.  
This rail is designed to deflect approximately 4" to 6" as it strikes a vehicle. The rail must be installed on a firm base such as concrete or masonry. The rail must be installed on top of or below curbs that project above finished grade, on bridge with expansion joints providing more than 5" of movement, on retaining walls, or on grade separations and overpasses.  
Repairs to impact-damaged post and base plate unit are not permitted. Replace all impact-damaged posts with a new post of the same type and size. The average weight of railing with no overlay: 20 pcf total.

**CONSTRUCTION NOTES:**  
Fully anchored guardrail must be attached to each end of rail. A steel anchor plate transition must be used with this rail. As the concrete anchor plate is cast, the steel transition plate must be placed in the concrete. See "Material Notes".  
Test adhesive anchor in accordance with Item 450.3.3, "Grout". The adhesive anchor must be tested at a minimum of two locations to provide adequate capacity. If any of the tests do not meet the required test load, repair damage from testing and retest.  
It is recommended to show a Rail Layout with rail posts and W-beam splices. Fabricator must submit erection drawings to show the location of each rail post and W-beam splice. Rail post or chamfer exposed edges of rail post and backer plate to approximately 1/8" by grinding.  
Shop drawings are not required for this rail.

**MBGF AND END TREATMENT NOTES:**  
The MBGF railing must be installed on a beam placed lengthwise in accordance with the Roadway Design Manual, unless otherwise specified. The minimum length of rail must be 15' and must be placed in accordance with the Roadway Design Manual.

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This railing has been successfully evaluated by full-scale testing. This railing is suitable for use on structures with a slope of 30% and greater.  
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Repairs to impact-damaged post and base plate unit are not permitted. Replace all impact-damaged posts with a new post of the same type and size. The average weight of railing with no overlay: 20 pcf total.



Texaco Department of Transportation

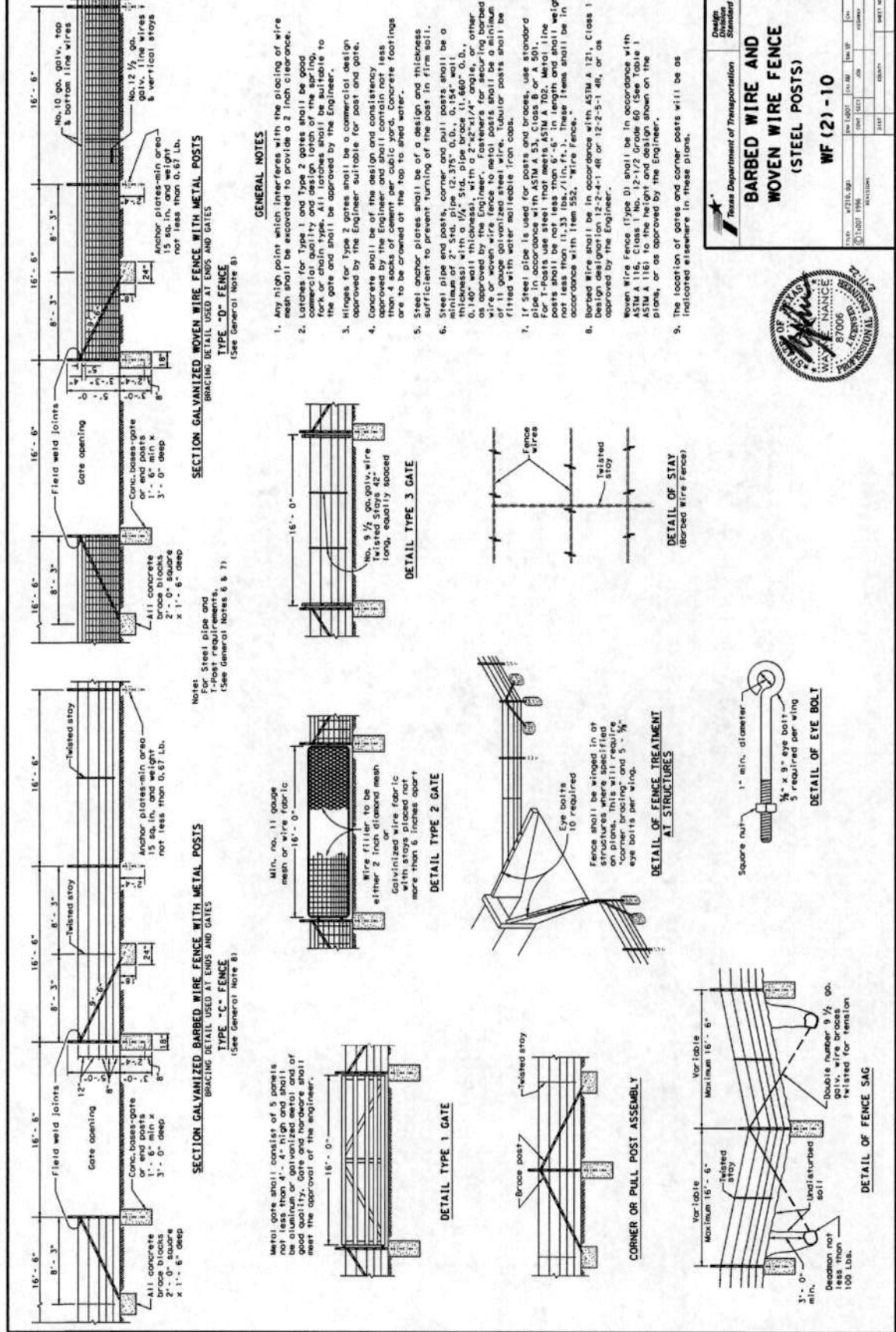
WASH STATE UNIVERSITY  
WASCO, WA 99078  
TEL: (509) 675-1111  
FAX: (509) 675-1112

PLAN 02

DATE: 08/14/2018  
TIME: 10:00 AM  
JOB: 0000000000000000  
SHEET NO.: 22 OF 22



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- GENERAL NOTES**
- Any high point which interferes with the placing of wire mesh shall be excavated to provide a 2 inch clearance.
  - Latches for Type 1 and Type 2 gates shall be good commercial quality and design latch of the spring, fork or chain type. All latches shall be suitable to the gate and shall be approved by the Engineer.
  - Hinges for Type 2 gates shall be a commercial design approved by the Engineer suitable for post and gate.
  - Concrete shall be of the design and consistency approved by the Engineer and shall contain not less than 4% admix concrete footings are to be crowned at the top to shed water.
  - Steel anchor plates shall be of a design and thickness sufficient to prevent turning of the post in firm soil.
  - Steel pipe end posts, corner and pull posts shall be a minimum of 1 1/2" O.D. with a wall thickness of 0.140" (0.140" O.D. thickness) with a 1/4" Std. pipe brose (1.660" O.D., 0.140" wall thickness), with a 2"x2"x1/4" angle, or other as approved by the Engineer. Fasteners for securing barbed wire shall be galvanized steel with a minimum of 11 galvanized steel with Tabular posts shall be fitted with water soluble iron caps.
  - If steel pipe is used for posts and braces, use standard pipe in accordance with ASTM A 53, Class B or A 501. For T-Posts use steel that meets ASTM A 702. Metal line posts shall be not less than 9'-6" in length and shall weigh not less than 33 lbs. The T-Posts shall be in accordance with Item 552, "Wire Fence".
  - Barbed Wire shall be in accordance with ASTM A 121, Class 1 design designation 12-2-4-1-4R or 12-2-5-1-4R, or as approved by the Engineer.
  - Woven Wire Fences (Type D) shall be in accordance with ASTM A 116, Class 1 No. 12-1/2 Brose 60 (See Table 1 ASTM A 116) to the height and design shown on the plans, or as approved by the Engineer.
  - The location of gates and corner posts will be as indicated elsewhere in these plans.

Texas Department of Transportation  
Division Standard

**BARBED WIRE AND WOVEN WIRE FENCE (STEEL POSTS)**  
**WF (2) - 10**

REV.	DATE	BY	CHKD.	APP'D.
1	12/07/1986	WILLIAMS	WILLIAMS	WILLIAMS
2	12/07/1986	WILLIAMS	WILLIAMS	WILLIAMS
3	12/07/1986	WILLIAMS	WILLIAMS	WILLIAMS



DATE: \_\_\_\_\_  
SCALE: 1" = 1'-0"  
HORIZONTAL SCALE: 1" = 100'

DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

PROJECT NO.: \_\_\_\_\_

DATE: \_\_\_\_\_

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WEBB COUNTY, TEXAS  
WELCH ROAD  
CULVERT IMPROVEMENTS

PORRAS NANCE ENGINEERING

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LAWRENCE, TEXAS 76844  
PHONE: (817) 251-3000  
FAX: (817) 251-3001  
WWW.PORRASNANCE.COM

SECTION GALVANIZED WOVEN WIRE FENCE WITH METAL POSTS TYPE - "D" - FENCE

SECTION GALVANIZED BARBED WIRE FENCE WITH METAL POSTS TYPE - "C" - FENCE

SECTION GALVANIZED WOVEN WIRE FENCE WITH STEEL PIPE AND T-POST REQUIREMENTS

DETAIL TYPE 1 GATE

DETAIL TYPE 2 GATE

DETAIL TYPE 3 GATE

CORNER OR PULL POST ASSEMBLY

DETAIL OF FENCE SAG

DETAIL OF FENCE TREATMENT AT STRUCTURES

DETAIL OF EYE BOLT

DETAIL OF STAY (Barbed Wire Fence)

GENERAL NOTES

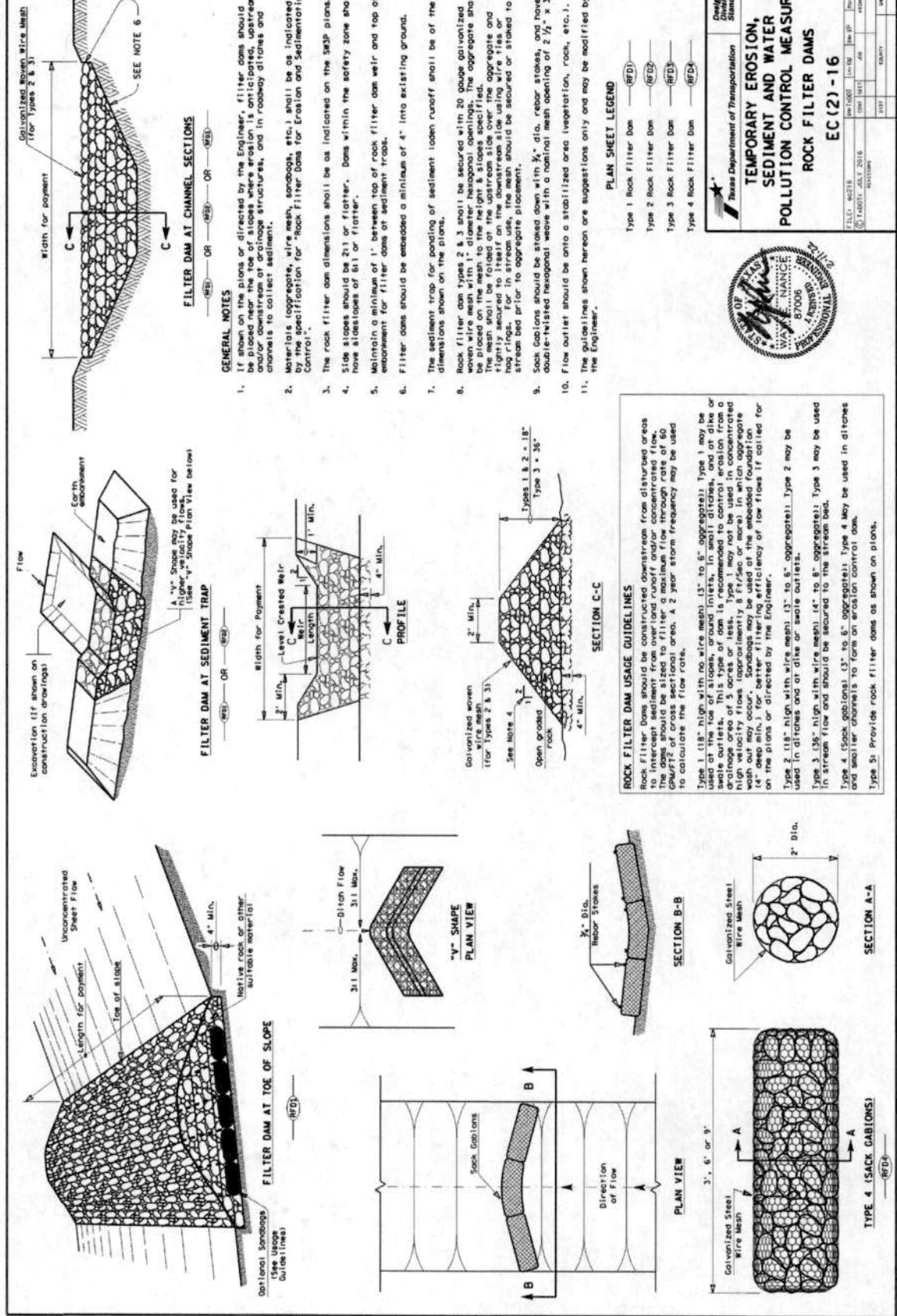
DISCLAIMER

PLANS 05

SHEET 23

FENCE STANDARDS

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**GENERAL NOTES**

- If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream of drainage structures, and in roadway ditches and channels to collect sediment.
- Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
- The rock filter dam dimensions shall be as indicated on the S&P plans.
- Slope slopes should be 2:1 or flatter. Dams within the safety zone shall have slopes of 6:1 or flatter.
- Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
- Filter dams should be embedded a minimum of 4" into existing ground.
- The sediment trap for ponding of sediment (when runoff shall be of the dimensions shown on the plans).
- Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed above the mesh and the height of the backfill shall be as indicated on the plans. The mesh shall be placed on the downstream side of the aggregate and tightly secured to the top of the embankment with wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
- Sack gabions should be staked down with 3/4" dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of 2 1/2" x 3 1/4".
- Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
- The guidelines shown hereon are suggestions only and may be modified by the Engineer.

**PLAN SHEET LEGEND**

- Type 1 Rock Filter Dam (RFD)
- Type 2 Rock Filter Dam (RFD)
- Type 3 Rock Filter Dam (RFD)
- Type 4 Rock Filter Dam (RFD)

**ROCK FILTER DAM USAGE GUIDELINES**

Rock filter dams should be constructed downstream from disturbed areas where erosion is anticipated. The dam should be sized to filter a maximum flow through rate of 60 GPM/FT<sup>2</sup> of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh), 13" to 6" aggregate; Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 3 acres or less. Type 2 may not be used in concentrated flow areas where wash out may occur. Sandbags may be used at the embossed foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh), 13" to 6" aggregate; Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh), 14" to 8" aggregate; Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (sack gabions), 13" to 6" aggregate; Type 4 may be used in ditches and smaller channels to form an erosion control dam.

Type 5: Provide rock filter dams as shown on plans.



Texas Department of Transportation  
 Office Division Standard  
**TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES**  
**ROCK FILTER DAMS**  
**EC (2) - 16**

FILE NO. 2018	REV. NO.	DATE	BY	CHECKED
1.0011	AUG 2018			
NO.	REV.	DATE	BY	CHECKED







RECOMMENDED PHASES AND FORMATS FOR POMS MESSAGES DURING ROADWORK ACTIVITIES

Phase 1: Condition Lists

Phase 2: Possible Component Lists

Phase 3: Possible Message Lists

Table with columns for Message List, Component List, and Message List.

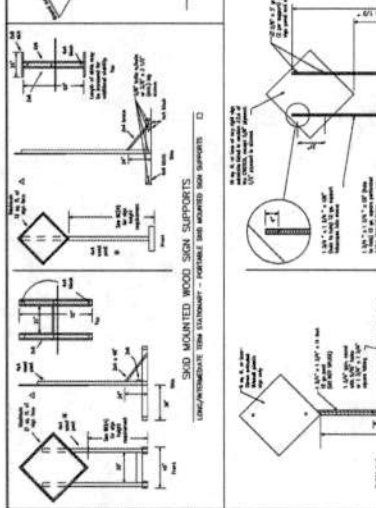
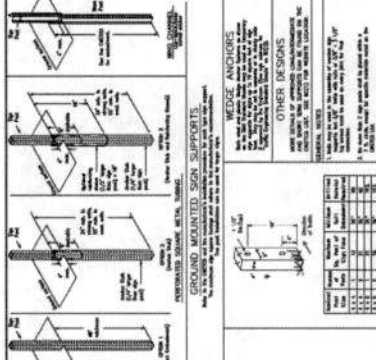
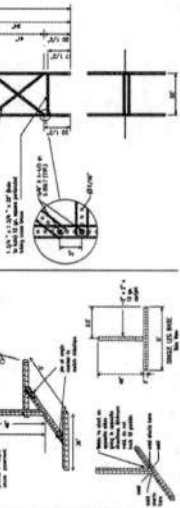
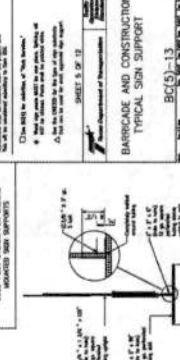
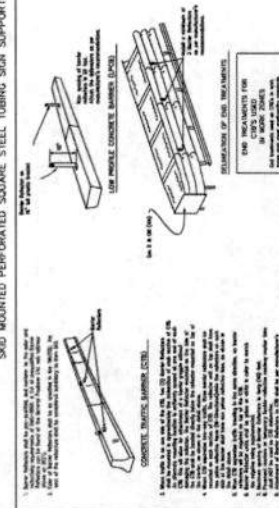
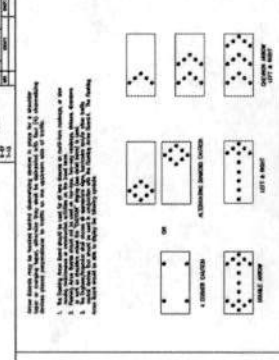
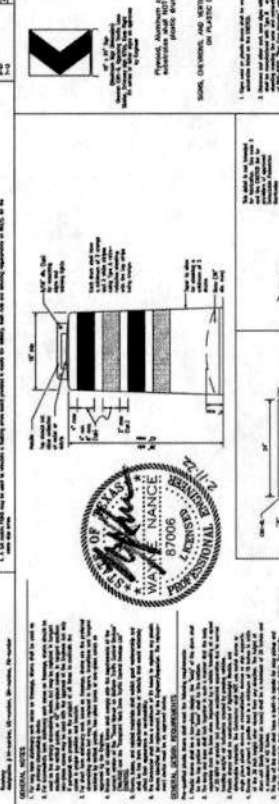


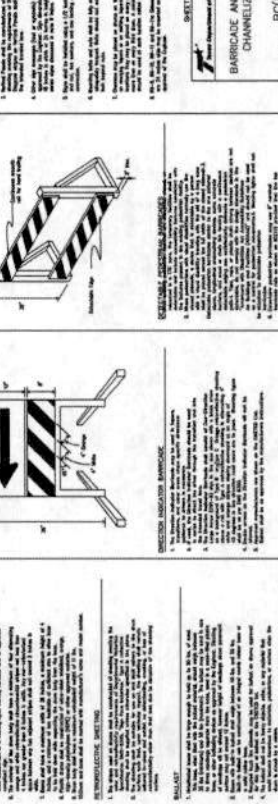
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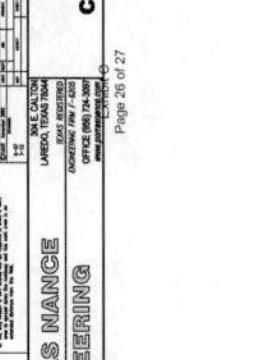
CONCRETE BARRIER WITH REFLECTIVE SHEETING



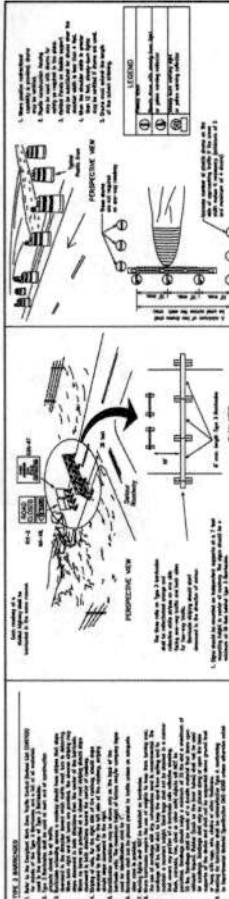
RECTANGULAR SIGN STRUCTURE



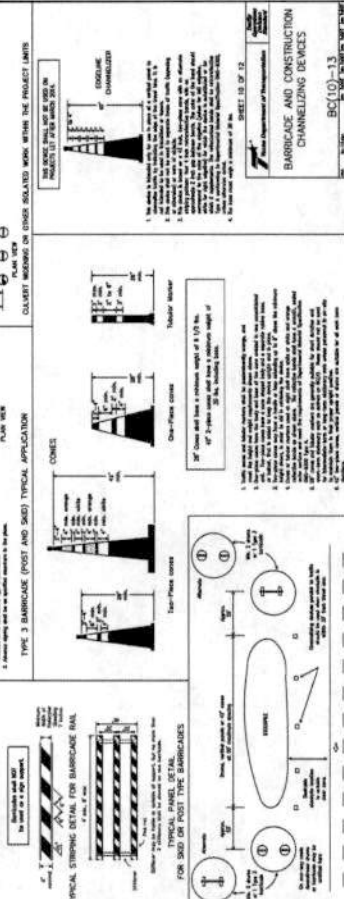
RECTANGULAR SIGN STRUCTURE



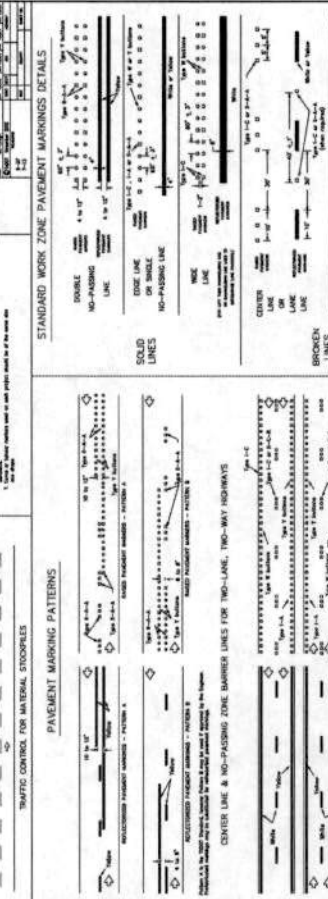
RECTANGULAR SIGN STRUCTURE



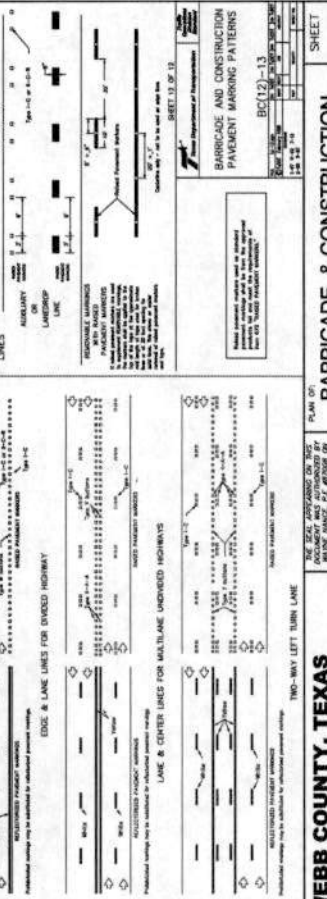
**TYPE 1 BARRICADE**  
 1. This barricade is used for temporary traffic control on roads with a posted speed limit of 35 mph or less. It is used to protect workers and equipment on the work area.  
 2. The barricade is made of 4' x 4' x 4' concrete blocks or 4' x 4' x 4' concrete blocks with a 1/2" diameter hole in the center.  
 3. The barricade is placed in a line across the road, with the blocks touching each other.  
 4. The barricade is placed in a line across the road, with the blocks touching each other.



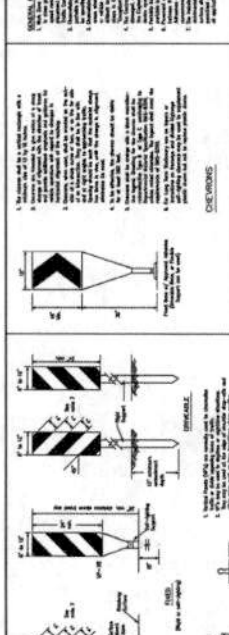
**CHANNELIZING DEVICES**  
 1. Channelizing devices are used to guide traffic around a work area. They are used to protect workers and equipment on the work area.  
 2. Channelizing devices are made of 4' x 4' x 4' concrete blocks or 4' x 4' x 4' concrete blocks with a 1/2" diameter hole in the center.  
 3. Channelizing devices are placed in a line across the road, with the blocks touching each other.



**PAVEMENT MARKING PATTERNS**  
 1. Pavement marking patterns are used to guide traffic around a work area. They are used to protect workers and equipment on the work area.  
 2. Pavement marking patterns are made of 4' x 4' x 4' concrete blocks or 4' x 4' x 4' concrete blocks with a 1/2" diameter hole in the center.  
 3. Pavement marking patterns are placed in a line across the road, with the blocks touching each other.



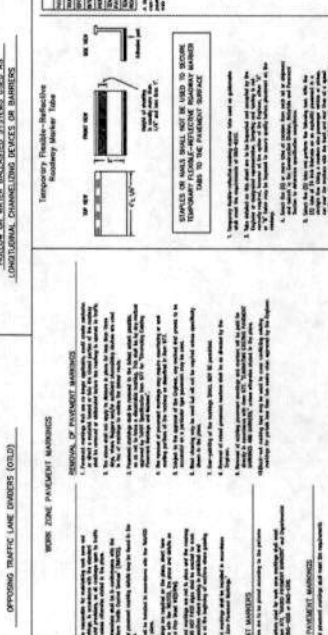
**WORK ZONE PAVEMENT MARKINGS**  
 1. Work zone pavement markings are used to guide traffic around a work area. They are used to protect workers and equipment on the work area.  
 2. Work zone pavement markings are made of 4' x 4' x 4' concrete blocks or 4' x 4' x 4' concrete blocks with a 1/2" diameter hole in the center.  
 3. Work zone pavement markings are placed in a line across the road, with the blocks touching each other.



**VERTICAL PANELS (VP)**  
 1. Vertical panels are used to guide traffic around a work area. They are used to protect workers and equipment on the work area.  
 2. Vertical panels are made of 4' x 4' x 4' concrete blocks or 4' x 4' x 4' concrete blocks with a 1/2" diameter hole in the center.  
 3. Vertical panels are placed in a line across the road, with the blocks touching each other.



**WATER BALLASTED SYSTEMS**  
 1. Water ballasted systems are used to guide traffic around a work area. They are used to protect workers and equipment on the work area.  
 2. Water ballasted systems are made of 4' x 4' x 4' concrete blocks or 4' x 4' x 4' concrete blocks with a 1/2" diameter hole in the center.  
 3. Water ballasted systems are placed in a line across the road, with the blocks touching each other.



**TEMPORARY TRAFFIC CONTROL DEVICES**  
 1. Temporary traffic control devices are used to guide traffic around a work area. They are used to protect workers and equipment on the work area.  
 2. Temporary traffic control devices are made of 4' x 4' x 4' concrete blocks or 4' x 4' x 4' concrete blocks with a 1/2" diameter hole in the center.  
 3. Temporary traffic control devices are placed in a line across the road, with the blocks touching each other.



**STANDARD WORK ZONE PAVEMENT MARKINGS**  
 1. Standard work zone pavement markings are used to guide traffic around a work area. They are used to protect workers and equipment on the work area.  
 2. Standard work zone pavement markings are made of 4' x 4' x 4' concrete blocks or 4' x 4' x 4' concrete blocks with a 1/2" diameter hole in the center.  
 3. Standard work zone pavement markings are placed in a line across the road, with the blocks touching each other.

**WEBB COUNTY, TEXAS  
 WELCH ROAD  
 CULVERT IMPROVEMENTS**

**PORRAS NANCE  
 ENGINEERING**

PROFESSIONAL ENGINEER  
 STATE OF TEXAS  
 LICENSE NO. 10000

DATE: 11/11/12  
 SHEET: 27

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

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