

## WASTEWATER COLLECTION LINE EXTENSION CONSTRUCTION AND REIMBURSEMENT AGREEMENT

STATE OF TEXAS              §  
                                    §  
COUNTY OF NUECES            §

This Wastewater Collection Line Extension Construction and Reimbursement Agreement ("Agreement") is entered into between the City of Corpus Christi ("City"), a Texas home-rule municipality, and MPM Development, LP, ("Developer/Owner"), a Texas Limited Partnership.

**WHEREAS**, the Developer/Owner, in compliance with the City's Unified Development Code ("UDC"), has a plat, approved by the Planning Commission on October 16, 2019 to develop a tract of land, to wit approximately 446.408 acres known as Kings Landing, Corpus Christi Texas as shown in the attached **Exhibit 1**, the content of such exhibit being incorporated by reference into this Agreement;

**WHEREAS**, under the UDC, the Developer/Owner is responsible for construction of the wastewater collection line extension ("Collection Line");

**WHEREAS**, under the UDC, the Developer/Owner is eligible for reimbursement of the Developer/Owner's costs for the construction of Collection Line;

**WHEREAS**, it is to the best interest of the City that the Collection Line be constructed to its ultimate capacity under the City's applicable Master Plan;

**WHEREAS**, Section 8.5.2.E. of the UDC authorizes the acceptance of applications to be eligible for reimbursement in the future when funds become fully available in the Wastewater Collection Line Trust Fund and are appropriated by the City Council; and

**WHEREAS**, the Developer/Owner has submitted an application for reimbursement of the costs from the Wastewater Collection Line Trust Fund for installing the Collection Line, as shown in **Exhibit 2**, the content of such exhibit being incorporated by reference into this Agreement.

**NOW, THEREFORE**, in consideration of the mutual promises and covenants contained in this Agreement, the parties do covenant and agree as follows:

1. **TRUSTEE LIABILITY**. The City is executing this agreement as trustee of the Wastewater Trust Fund pursuant to UDC §8.5. The City is acting as trustee to further its governmental functions of providing water and sewer service. Texas Constitution Article 11, Section 3 prohibits the City from becoming a subscriber to the capital of any private corporation or association, or make any appropriation or donation to the same, or in anywise loan its credit. As such, the City's participation as Trustee does not create a loan of its credit. Execution of this agreement constitutes a promise to pay only to the extent that the assets and future assets of the trust are sufficient for such purpose and it is expressly agreed that any judgment will only be satisfied out of the assets of the trust and not out of the City's assets. The City is excluded from personal liability.

2. **REQUIRED CONSTRUCTION**. Developer/Owner shall construct the Collection Line in compliance with the City's UDC, the City's Infrastructure Design Manual, and all local, state and federal laws, codes and regulations, in accordance with the plans and specifications submitted

to the City's Development Services Department and reviewed and approved by the City's Development Services Engineer.

3. PLANS AND SPECIFICATIONS.

- a. Developer/Owner shall contract with a professional engineer licensed in the State of Texas and acceptable to the City's Development Services Engineer, to prepare plans and specifications for the Collection Line, as shown in the attached **Exhibit 3**, the content of such exhibit being incorporated by reference into this Agreement, with the following minimum requirements:

ITEM	DESCRIPTION	QUANTITY	UNIT
1	12" PVC PIPE	1682	LF
2	DEWATERING FOR 12" PVC PIPE	1682	LF
3	MANHOLE	3	EA
4	TRENCH SAFETY FOR 12" PIPE	1682	LF

- b. The plan must be in compliance with the City's master plans.
- c. The plans and specifications must comply with the City's Wastewater Standards Detail Sheets and Standard Specifications.
- d. Before the Developer/Owner starts construction, the plans and specifications must be approved by the City's Development Services Engineer.

4. SITE IMPROVEMENTS. Prior to the start of construction of the Collection Line, Developer/Owner shall acquire and dedicate to the City the required additional public utility easements ("Easements"), if any, necessary for the completion of the Collection Line. If any of the property needed for the Easements is owned by a third party and the Developer/Owner is unable to acquire the Easements through reasonable efforts, then the City may use its powers of eminent domain to acquire the Easements. Developer will be responsible for cost of acquisition, payable from the reimbursement agreed to in this agreement.

5. PLATTING FEES. Developer/Owner shall pay to the City the required acreage fees and pro-rata fees as required by the UDC.

6. DEVELOPER/OWNER TO AWARD CONTRACT FOR IMPROVEMENTS. Developer/Owner shall award a contract and complete the Collection Line, under the approved plans and specifications, within 18 months of the approval of this Agreement by City Council.

7. TIME IS OF THE ESSENCE. Time is of the essence in the performance of this contract.

8. PROMPT AND GOOD FAITH ACTIONS. The parties shall act promptly and in good faith in performing their duties and obligations under this Agreement. If this Agreement calls for review or inspections by the City, then the City's reviews or inspections must be completed thoroughly and promptly.

9. DEFAULT. The following events shall constitute default:

- a. Developer/Owner fails to engage a professional engineer for the preparation of plans and specifications by the 10th calendar day after the date of approval of this Agreement by the City Council.
- b. Developer/Owner's professional engineer fails to submit the plans and specifications to the City's Director of Engineering Services and to the Development Services Engineer by the 60th calendar day after the date of approval of this Agreement by the City Council.
- c. Developer/Owner fails to award a contract for the construction of the Collection Line, according to the approved plans and specifications, by the 90th calendar day after the date of approval of this Agreement by the City Council.
- d. Developer/Owner's contractor does not reasonably pursue construction of the Collection Line under the approved plans and specifications.
- e. Developer/Owner's contractor fails to complete construction of the Collection Line, under the approved plans and specifications, on or before within 18 months of the approval of this Agreement by City Council.
- f. Either the City or the Developer/Owner otherwise fails to comply with its duties or obligations under this Agreement.

10. NOTICE AND CURE.

- a. In the event of a default by either party under this Agreement, the non-defaulting party shall deliver notice of the default, in writing, to the defaulting party stating, in sufficient detail, the nature of the default and the requirements to cure such default.
- b. After delivery of the default notice, the defaulting party has 15 business days from the delivery of the default notice ("Cure Period") to cure the default.
- c. In the event the default is not cured by the defaulting party within the Cure Period, then the non-defaulting party may pursue its remedies in this section.
- d. Should the Developer/Owner fail to perform any obligation or duty of this Agreement, the City shall give notice to the Developer/Owner, at the address stated in section 12, of the need to perform the obligation or duty and, should the Developer/Owner fail to perform the required obligation or duty within 15 days of receipt of the notice, the City may perform the obligation or duty, charging the cost of such performance to the Developer/Owner by reducing the reimbursement amount due to the Developer/Owner.
- e. In the event of an uncured default by the Developer/Owner, after the appropriate notice and Cure Period, the City has all its common law remedies and the City may:
  1. Terminate this Agreement after the required notice and opportunity to cure the default;

2. Refuse to record a related plat or issue any certificate of occupancy for any structure to be served by the project; and/or
  3. Perform any obligation or duty of the Developer/Owner under this Agreement and charge the cost of such performance to the Developer/Owner. The Developer/Owner shall pay to the City the reasonable and necessary cost of the performance within 30 days from the date the Developer/Owner receives notice of the cost of performance. In the event the Developer/Owner pays the City under the preceding sentence and is not otherwise in default under this Agreement, then the Agreement shall be considered in effect and no longer in default.
- f. In the event of an uncured default by the City after the appropriate notice and Cure Period, the Developer/Owner has all its remedies at law or in equity for such default.

**11. FORCE MAJEURE.**

- a. The term "force majeure" as employed in this Agreement means and refers to acts of God; strikes, lockouts, or other industrial disturbances; acts of public enemies; insurrections; riots; epidemics; landslides; lightning; earthquakes; fires; hurricanes; storms; floods; washouts; droughts; arrests; civil disturbances; explosions; or other causes not reasonably within the control of the party claiming the inability.
- b. If, by reason of force majeure, either party is rendered wholly or partially unable to carry out its obligations under this Agreement, then the party claiming force majeure shall give written notice of the full particulars of the force majeure to the other party within ten (10) business days after the occurrence or waive the right to claim it as a justifiable reason for delay. The obligations of the party giving the required notice, to the extent affected by the force majeure, are suspended during the continuance of the inability claimed but for no longer period, and the party shall endeavor to remove or overcome such inability with all reasonable dispatch.

**12. NOTICES.**

- a. Any notice or other communication required or permitted to be given under this Agreement must be given to the other party in writing at the following address:

1. If to the Developer/Owner:

**MPM Development  
Attn: Moses Mostaghasi  
PO Box 331308  
Corpus Christi, Texas 78463**

2. If to the City:

**City of Corpus Christi  
Attn: Director, Development Services Department  
2406 Leopard Street 78401  
P. O. Box 9277  
Corpus Christi, Texas 78469-9277**

with a copy to:

City of Corpus Christi  
Attn: Assistant City Manager, Business Support Services  
1201 Leopard Street 78401  
P. O. Box 9277  
Corpus Christi, Texas 78469-9277

- b. Notice must be made by United States Postal Service, First Class mail, certified, return receipt requested, postage prepaid; by a commercial delivery service that provides proof of delivery, delivery prepaid; or by personal delivery.
- c. Either party may change the address for notices by giving notice of the change under the provisions of this section.

13. **THIRD PARTY BENEFICIARY**. Developer/Owner's contracts with the professional engineer for the preparation of the plans and specifications for the construction of the Collection Line, contracts for testing services, and contracts with the contractor for the construction of the Collection Line must provide that the City is a third-party beneficiary of each contract.

14. **PERFORMANCE AND PAYMENT BONDS**. Developer/Owner shall, before beginning the work that is the subject of this Agreement, furnish a performance bond payable to the City of Corpus Christi if the contract is in excess of \$100,000 and a payment bond if the contract is in excess of \$50,000. Bonds furnished must meet the requirements of Texas Insurance Code 3503, Texas Government Code 2253, and all other applicable laws and regulations. The performance or payment bond must name the City as an obligee. If the Developer/Owner is not an obligor, the Developer/Owner shall be named as a joint obligee. The bond must clearly and prominently display on the bond or on an attachment to the bond:  
:

- (1) the name, mailing address, physical address, and telephone number, including the area code, of the surety company to which any notice of claim should be sent; or
- (2) the toll-free telephone number maintained by the Texas Department of Insurance under Subchapter B, Chapter 521, Insurance Code, and a statement that the address of the surety company to which any notice of claim should be sent may be obtained from the Texas Department of Insurance by calling the toll-free telephone number.

15. **WARRANTY**. Developer/Owner shall fully warranty the workmanship of and function of the Collection Line and the construction of the Collection Line for a period of one year from and after the date of acceptance of the facilities by the City's Director of Engineering Services.

16. **REIMBURSEMENT**.

- a. The cost for the Collection Line less \$195,558.08 lot/acreage fee credit is \$45,607.42 Subject to the conditions for reimbursement from the Sanitary Sewer Collection Line Trust Fund and the appropriation of funds, the City will reimburse the developer the reasonable actual cost of the Wastewater Collection Line up to an amount not to exceed **\$45,607.42** as shown in the attached **Exhibit 4**, the contents of such exhibit being incorporated by reference into this Agreement.

- b. The City agrees to reimburse the Developer/Owner on a monthly basis upon invoicing for work performed. The submitted invoice shall be deemed administratively complete by the City prior to payment. The reimbursement will be made no later than 30 days from the date of the City's administrative approval of the invoice. Developer/Owner shall submit all required performance bonds and proof of required insurance under the provisions of this Agreement.
  
- c. Cost-supporting documentation to be submitted shall include:
  - 1. Summary of Costs and Work Performed Form provided by the Development Services Department
  - 2. Contractor and professional services invoices detailing work performed
- d. The first reimbursement request requires submittal of invoices for work performed. Future disbursements shall provide evidence of payment by the developer/owner through a cancelled check or bank ACH for the previous submittal. The final reimbursement request shall require evidence that all invoices to date have been paid. To be eligible for reimbursement, the work must be constructed in a good and workmanlike manner and must have been inspected and accepted by the City. The City agrees to conduct periodic inspections and approve the progress of the work at key points during construction.

The final 5% of the total contract reimbursement amount will be held as retainage until such time the City issues acceptance of public infrastructure in accordance with Unified Development Code.

- e. In the event that this Agreement is terminated by the City as a result of an uncured default by the Developer/Owner and at a time when there has been a partial completion and/or partial payment for the improvements, then the City shall only reimburse the Developer/Owner for its costs that were legitimately incurred towards the completion of the improvements that have been inspected and accepted by the City up to the time that the uncured default occurred.

**17. PAYMENTS, CREDITS AND DEFERRED REIMBURSEMENT.** All payments, credits, priority of reimbursement, and deferred reimbursement shall be made in accordance with UDC §8.5. Developer/Owner understands and agrees that if funds are not available in the Wastewater Collection Line Trust Fund, that reimbursement will not be made until such funds are available, appropriated, and this Agreement has priority per UDC §8.5.2. E.

**18. INDEMNIFICATION.** Developer/Owner covenants to fully indemnify, save and hold harmless the City of Corpus Christi, its officers, employees, and agents, ("indemnitees") against any and all liability, damage, loss, claims, demands suits and causes of action of any nature whatsoever asserted against or recovered from city on account of injury or damage to person including, without limitation on

the foregoing, workers compensation and death claims, or property loss or damage of any other kind whatsoever, to the extent any injury, damage, or loss may be incident to, arise out of, be caused by, or be in any way connected with, either proximately or remotely, wholly or in part, the Developer/Owner's failure to comply with its obligations under this agreement or to provide city wastewater service to the development, including injury, loss, or damage which arise out of or are in any manner connected with, or are claimed to arise out of or be in any manner connected with the construction, installation, existence, operation, use, maintenance, repair, restoration, or removal of the public improvements associated with the development described above, including the injury, loss or damage caused by the sole or contributory negligence of the indemnitees or any of them, regardless of whether the injury, damage, loss, violation, exercise of rights, act, or omission is caused or is claimed to be caused by the contributing or concurrent negligence of indemnitees, or any of them, but not if caused by the sole negligence of indemnitees, or any of them, unmixed with the fault of any other person or entity, and including all expenses of litigation, court costs, and attorney's fees, which arise, or are claimed to arise, out of or in connection with the asserted or recovered incident.

This indemnity specifically includes all claims, damages, and liabilities of whatever nature, foreseen or unforeseen, under any hazardous substance laws, including but not limited to the following:

(a) all fees incurred in defending any action or proceeding brought by a public or private entity and arising from the presence, containment, use, manufacture, handling, creating, storage, treatment, discharge, release or burial on the property or the transportation to or from the property of any hazardous substance. The fees for which the developer/owner shall be responsible under this subparagraph shall include but shall not be limited to the fees charged by (i) attorneys, (ii) environmental consultants, (iii) engineers, (iv) surveyors, and (v) expert witnesses.

(b) any costs incurred attributable to (i) the breach of any warranty or representation made by Developer/Owner in

**this agreement, or (ii) any cleanup, detoxification, remediation, or other type of response action taken with respect to any hazardous substance on or under the property regardless of whether or not that action was mandated by the federal, state or local government.**

**This indemnity shall survive the expiration or earlier termination of the agreement.**

19. **ASSIGNMENT OF AGREEMENT.** This Agreement or any rights under this Agreement may not be assigned by the Developer/Owner to another without the written approval and consent of the City's City Manager.

20. **DISCLOSURE OF INTEREST.** Developer/Owner agrees, in compliance with the Corpus Christi Code of Ordinance Sec. 2-349, to complete, as part of this Agreement, the Disclosure of Interest form attached to this Agreement as **Exhibit 5**.

21. **EFFECTIVE DATE.** This Agreement becomes effective and is binding upon and inures to the benefit of the City and the Developer/Owner and their respective heirs, successors, and assigns from and after the date of final execution by all parties.

22. **DEDICATION OF COLLECTION LINE.** Upon completion of the construction, dedication of Collection Line will be subject to City inspection and approval.

23. **CERTIFICATE OF INTERESTED PARTIES.** Developer/Owner agrees to comply with Texas Government Code section 2252.908 and complete Form 1295 Certificate of Interested Parties as part of this agreement.

Form 1295 requires disclosure of "interested parties" with respect to entities that enter contracts with cities. These interested parties include:

- (1) persons with a "controlling interest" in the entity, which includes:
  - a. an ownership interest or participating interest in a business entity by virtue of units, percentage, shares, stock or otherwise that exceeds 10 percent;
  - b. membership on the board of directors or other governing body of a business entity of which the board or other governing body is composed of not more than 10 members; or
  - c. service as an officer of a business entity that has four or fewer officers, or service as one of the four officers most highly compensated by a business entity that has more than four officers.
- (2) a person who actively participates in facilitating a contract or negotiating the terms of a contract with a governmental entity or state agency, including a broker, intermediary, adviser or attorney for the business entity.

Form 1295 must be electronically filed with the Texas Ethics Commission at [https://www.ethics.state.tx.us/whatsnew/elf\\_info\\_form1295.htm](https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm). The form must then be printed, signed, notarized and filed with the City. For more information, please review the Texas Ethics Commission Rules at <https://www.ethics.state.tx.us/legal/ch46.html>.

24. CONFLICT OF INTEREST Developer/Owner agrees to comply with Chapter 176 of the Texas Local Government Code and file Form CIQ with the City Secretary's Office, if required. For more information and to determine if you need to file a Form CIQ, please review the information on the City Secretary's website at <http://www.cctexas.com/government/city-secretary/conflict-disclosure/index>

25. AUTHORITY. All signatories signing this Agreement warrant and guarantee that they have the authority to act on behalf of the entity represented and make this Agreement binding and enforceable by their signature.

*Remainder of page intentionally left blank; signature page to follow.*

**EXECUTED IN ONE ORIGINAL** this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

**ATTEST:**

Rebecca Huerta  
City Secretary

CITY OF CORPUS CHRISTI

Al Raymond  
Director of Development Services  
For City Manager

**APPROVED AS TO LEGAL FORM:**

Buck Brice (Date)  
Assistant City Attorney  
For City Attorney

**DEVELOPER/OWNER:**

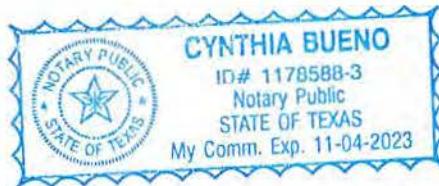
**MPM Development, LP.**  
PO Box 331308  
Corpus Christi, Texas 78463

By:

Moses Mostaghaci, General Partner

STATE OF TEXAS §  
COUNTY OF Nueces §

This instrument was acknowledged before me on April 10th, 2020, by Moses Mostaghasi, General Partner, MPM Development, LP, a Texas Limited Partnership, on behalf of said corporation.



Cynthia Bueno  
Notary Public's Signature

### Notary Public's Signature

**WASTEWATER COLLECTION LINE EXTENSION CONSTRUCTION  
AND REIMBURSEMENT AGREEMENT**

**TXDOT Notes:**

1. A Traffic Impact Analysis (TIA) shall be required for the ultimate 15 year development forecast for the intersections and access locations within 3500 feet of both sides of the subject property line along FM 43. This TIA shall be required during the public improvement stage of this plat, prior to TxDOT Access Permitting for new streets, or City Site-work Permitting.

2. No access locations beyond those identified herein shall be authorized for plats or re-plats without a variance for lots adjacent to State Right-Of-Way. A variance may be granted on a case by case basis when the Owner or their agent provides significant justification of a public need for additional access. Justification shall be provided within a site specific Traffic Engineering Study that will be reviewed during the TxDOT Access Permitting process.

**LEGEND:**

DE  
D. R.  
M. R.  
D. R.  
UE  
  
DRAINAGE EASEMENT  
DEED RECORDS, NUECES CO., TX  
MAP RECORDS, NUECES CO., TX  
OFFICIAL RECORDS, NUECES CO., TX  
UTILITY EASEMENT

118.26 ACRE TRACT 11, DOC. NO. 2015011169, D.R., SAID  
118.26 ACRE TRACT BEING A PORTION OF SURVEY 135, ABSTRACT  
581, SURVEY 137, ABSTRACT 579 AND SURVEY 139, ABSTRACT 577,  
SAID SURVEYS NAMED CUADRILLA IRRIGATION COMPANY, AND  
SURVEY 140, ABS 612, NAMED I. & G.N.R.R., BILL BROWN ET. AL

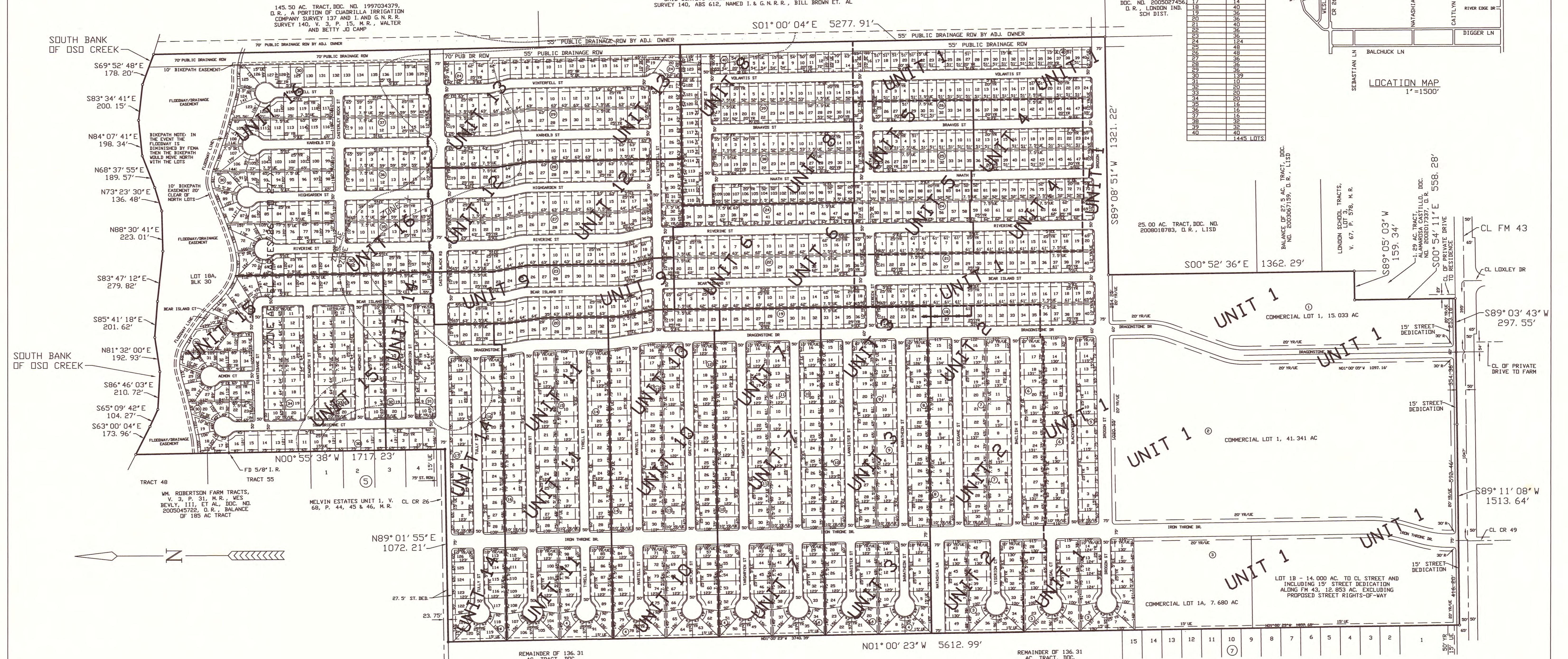
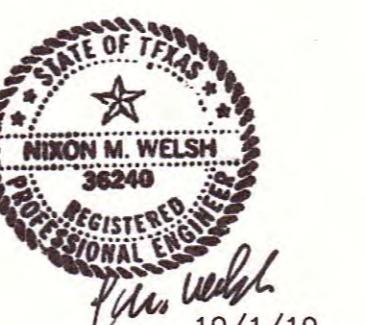


Exhibit 1



THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF NIXON N. WELSH, P.E. NO. 36240 OF BASS & WELSH ENGINEERING, F 52. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.

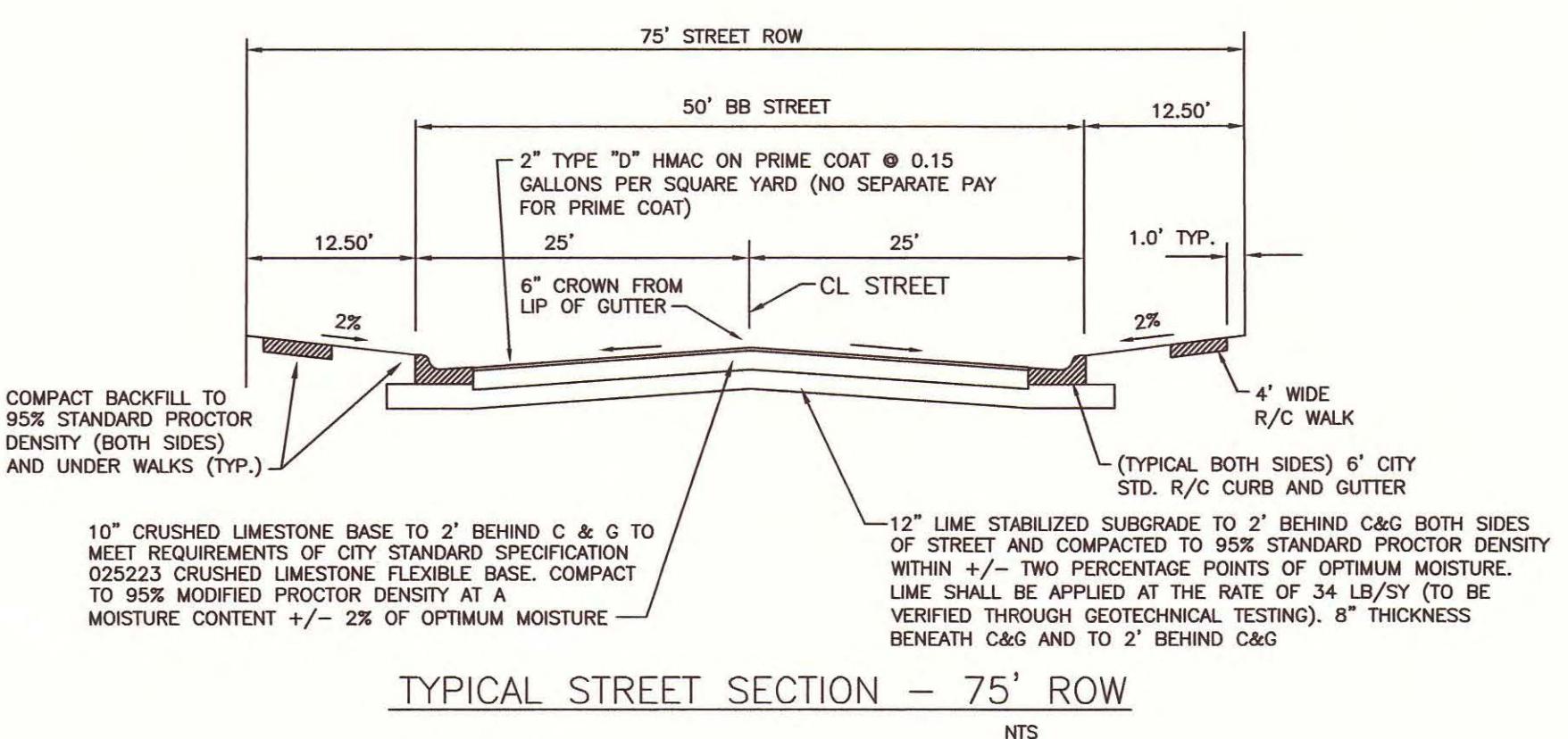
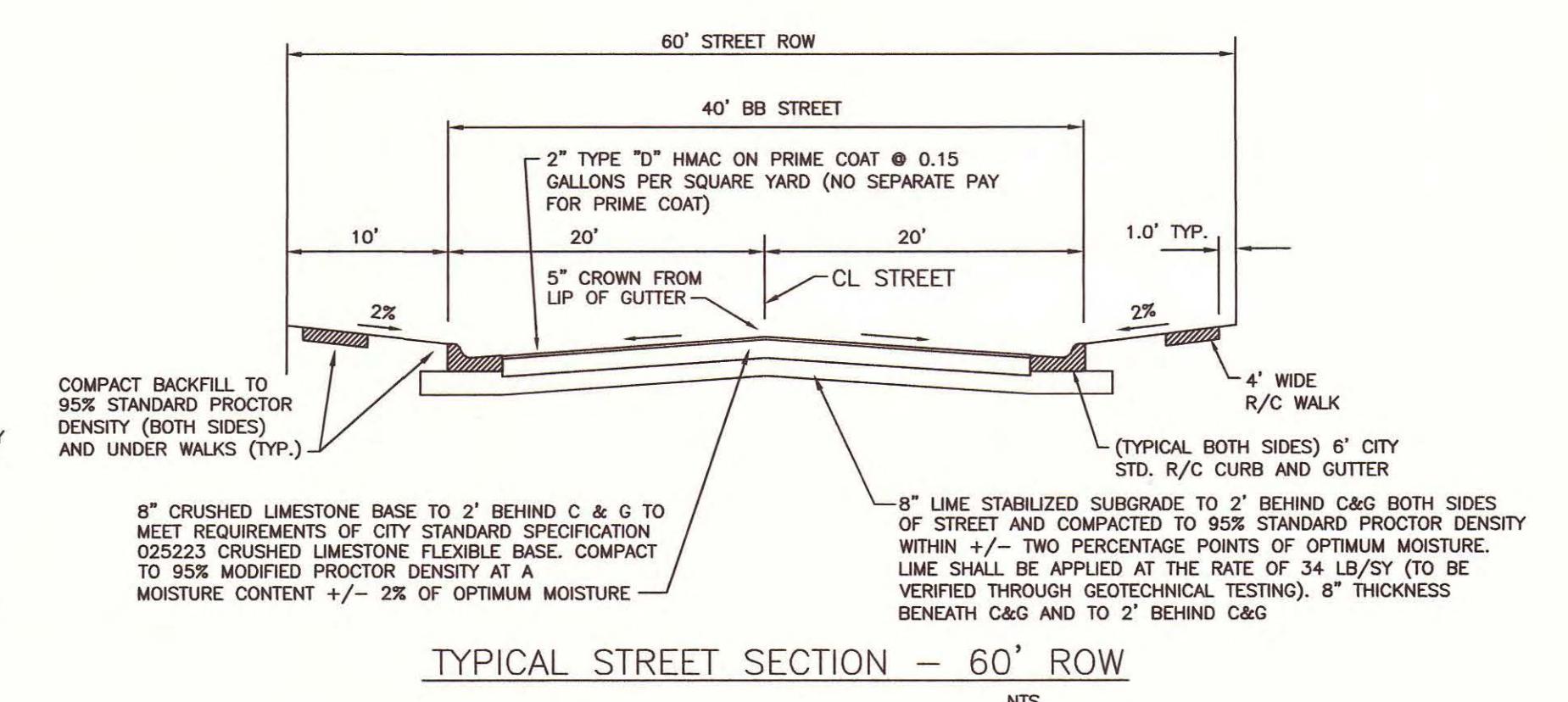
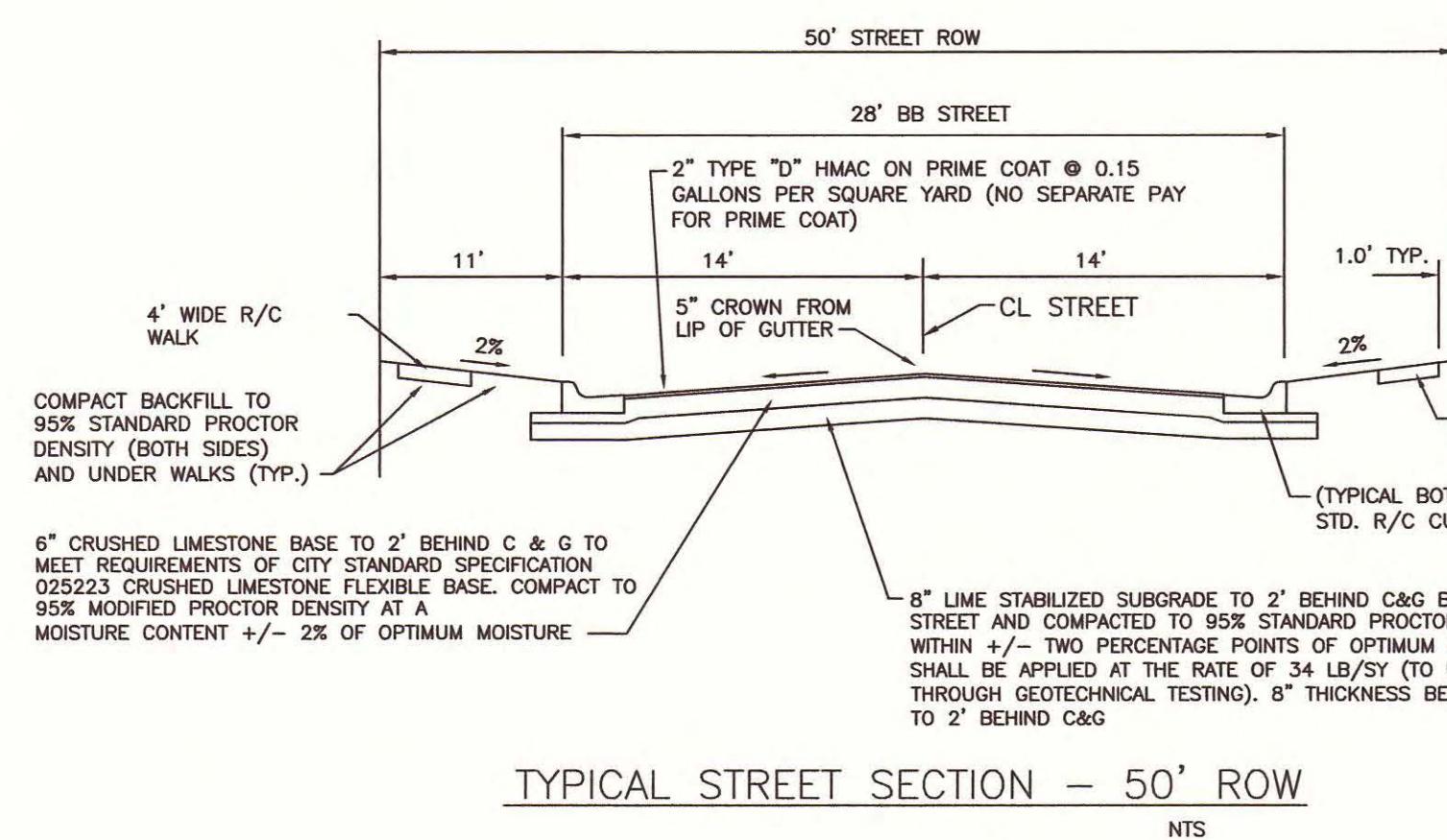
#A 446.408 ACRE TRACT OF LAND, MORE OR LESS, AND CONSISTING OF:  
TRACT 1, A 293.041 ACRE TRACT OF LAND DESCRIBED BY DEED, DOC. NO. 2019035726, D.R.  
TRACT 2, A 10.08 AC TRACT OF LAND DESCRIBED BY DEED, DOC. NO. 2017010862, D.R., AND  
TRACT 3, A 144.570 ACRE TRACT OF LAND, BEING CALLED 144.30 ACRE FIRST TRACT, VOL. 1066, P. 140, D.R.

THE ABOVE THREE TRACTS BEING PORTIONS OF ONE, OR MORE OF SURVEY 125, ABSTRACT 581, CERTIFICATE 29, SURVEY 137, ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139, ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS NAMED CUADRILLA IRRIGATION COMPANY, NUECES CO., TX

DRAWN	1"	250'
PRINTED	SAME	
SCALE	NONE	
SCHEMATIC	None	
CHK	N. WELSH	
DATE PLOTTED	10/8/19	
SHEET	1	OF
	2	

BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PRELIMINARY PLAT  
KINGS LANDING\*



#### NOTES

- THE SITE IS OCL, PROPOSED ANNEXATION AND ZONED RS-4.5 AND CN-1.
- THE RECEIVING WATER FOR THE STORM WATER RUNOFF FROM THIS PROPERTY IS THE OSO CREEK. THE TCEQ HAS NOT CLASSIFIED THE AQUATIC LIFE USE FOR THE OSO CREEK, BUT IT IS RECOGNIZED AS AN ENVIRONMENTALLY SENSITIVE AREA. THE OSO CREEK FLOWS DIRECTLY INTO THE OSO BAY. THE TCEQ HAS CLASSIFIED THE AQUATIC LIFE USE FOR THE OSO BAY AS "EXCEPTIONAL" AND "OYSTER WATERS" AND CATEGORIZED THE RECEIVING WATER AS "CONTACT RECREATION" USE.
- THE BASIS OF BEARINGS IS THE STATE OF TEXAS LAMBERT GRID, SOUTH ZONE, NAD 1983.
- THE SUBJECT SITE IS DEPICTED IN FEMA MAP 48355C0505G (10/23/15) AND CONTAINS ZONE AE-FLOODWAY AREAS, ZONE AE AREAS WITH ELEVATIONS BETWEEN 26' AND 27', ZONE X AREAS OF 0.2 PCT ANNUAL CHANCE FLOOD AND ZONE X AREA (NO DESIGNATION).
- DESCRIPTION OF SITE DRAINAGE: THE ENTIRE SITE WILL DRAIN VIA UNDERGROUND PIPES AND DITCHES TO THE OSO CREEK AS SHOWN.
- THERE ARE NO KNOWN NATURAL WATER BODIES, JURISDICTIONAL WETLANDS, ENDANGERED SPECIES HABITAT, STATE SUBMERGED LANDS OR CRITICAL DUNES ON THE SITE.
- A STORM WATER POLLUTION PREVENTION PLAN WILL BE SUBMITTED WITH THE CONSTRUCTION PLANS FOR ANY PROJECT ONE (1) ACRE OR GREATER OR A STORM WATER POLLUTION CONTROL PLAN IF LESS THAN ONE (1) ACRE.
- LEGAL DESCRIPTION - SEE RIGHT.

#### NOTES CONTINUED

- THIS DEVELOPMENT MEETS THE CITY'S MASTER DRAINAGE PLAN. THE INCREASE IN DISCHARGE RATES, VOLUMES, AND DURATIONS OF CONCENTRATED AND NON-CONCENTRATED STORMWATER RUNOFF LEAVING THE PROPOSED DEVELOPMENT DUE TO THE DIVERTED FLOW WILL NOT HAVE AN ADVERSE IMPACT (E.G., SOIL EROSION, SEDIMENTATION; YARD, DWELLING, BUILDING, OR PRIVATE STRUCTURE FLOODING; DURATION OF PONDING WATER; INADEQUATE OVERLAND RELIEF) ON ADJACENT OR DOWNSTREAM PROPERTY.
- EACH LOT AREA MUST COMPLY WITH THE APPROPRIATE ZONING DESIGNATION.
- WATER, WASTEWATER AND PARK FEES SHALL BE PAID PRIOR TO RECORDATION OF THE FINAL PLAT.
- THE TOTAL PLATTED AREA CONTAINS 446.408 ACRES OF LAND INCLUDING STREET DEDICATIONS.
- EACH ZONING DISTRICT SHALL CONFORM TO MINIMUM LOT WIDTH (FT.) AND LOT AREA (SF) STANDARDS.
- THE YARD REQUIREMENT, AS DEPICTED, IS A REQUIREMENT OF THE UNIFIED DEVELOPMENT CODE AND IS SUBJECT TO CHANGE AS THE ZONING MAY CHANGE.
- STREET CENTER LINES SHALL BE 25' - 25' FOR 50' RIGHTS-OF-WAY, 30' - 30' FOR 60' RIGHTS-OF-WAY AND 37.5' - 37.5' FOR 75' RIGHTS-OF-WAY.
- CONFORMANCE TO THE VISIBILITY TRIANGLE REQUIREMENTS OF UDC SECTION 4.2.9. TO PREVENT VISION OBSTRUCTIONS AT STREET INTERSECTIONS SHALL BE REQUIRED.
- ANY ACCESS ONTO FM 43 SHALL HAVE TXDOT APPROVAL.
- NO DRAINAGE FROM THIS DEVELOPMENT INTO ROW OF FM 43.
- ALL INSIDE STREET CORNER INTERSECTIONS REQUIRE A RADIUS OF A MINIMUM OF 10' ON LOCAL RESIDENTIAL STREETS, 15' TO 20' ON COLLECTOR/COMMERCIAL/INDUSTRIAL STREETS AND 20' TO 50' ON ARTERIALS. THE RADIUS MAY VARY DEPENDING ON THE CIRCUMSTANCES.
- RESIDENTIAL DRIVEWAY ACCESS PROHIBITED ONTO IRON THORNE DRIVE, DRAGON STREET, AND CASTLE BLACK ROAD.
- ALL DRIVEWAYS TO PUBLIC STREETS WITHIN THE SUBDIVISION SHALL CONFORM TO ACCESS MANAGEMENT STANDARDS OUTLINED IN ARTICLE 7 OF THE UDC.
- DRIVEWAY ACCESS TO FM43 SHALL CONFORM TO ACCESS MANAGEMENT STANDARDS OF TEXAS DEPARTMENT OF TRANSPORTATION.
- ALL LOTS AT STREET INTERSECTIONS SHALL ADHERE TO VISIBILITY TRIANGLE REQUIREMENTS OF UDC SECTION 4.2.9.

LEGAL DESCRIPTION A 446.408 ACRE TRACT OF LAND, MORE OR LESS, AND CONSISTING OF:

TRACT 1, A 233.041 ACRE TRACT OF LAND DESCRIBED BY DEED, DOC. NO. 2019035726, D. R., AND

TRACT 2, A 10.08 AC. TRACT OF LAND DESCRIBED BY DEED, DOC. NO. 2017010862, D. R., AND

TRACT 3, A 144.570 ACRE TRACT OF LAND, BEING CALLED 144.30 ACRE FIRST TRACT, VDL 1066, P. 140, D. R.,

THE ABOVE THREE TRACTS BEING PORTIONS OF ONE OR MORE OF SURVEY 135 ABSTRACT 581, CERTIFICATE 29, SURVEY 137, ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139, ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS NAMED CUADRILLA IRRIGATION COMPANY, NUCCES CO., TX

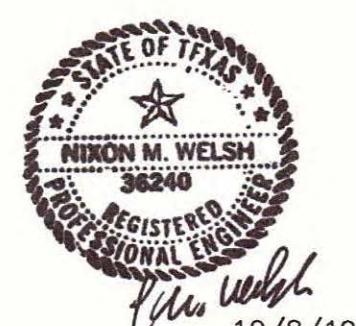
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF NIXON M. WELSH, P.E. NO. 36240 OF BASS AND WELSH ENGINEERING, F 52. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.

BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PRELIMINARY PLAT OF  
KINGS LANDING,  
CORPUS CHRISTI, NUCCES COUNTY, TX



DINL:	1"	= 250'	COM. NO.	PREL SH2
CHK:	SAME	SCALE (V)	JOB NO.	18068
CHK:	NONE	SCALE (V)	DATE PLOTTED	10/8/19
CHK:	N. WELSH	SCALE (V)	SHEET	2 OF 2



**APPLICATION FOR WASTE WATER REIMBURSEMENT**

We, MPM Development, LP, P.O. Box 331308, Corpus Christi, Texas 78463, owners and developers of proposed King's Landing Unit 1 subdivision, hereby request reimbursement of \$45,607.42 for the installation of the offsite waste water collection line in conjunction with said subdivision, as provided for by City Ordinance No. 17092. \$241,165.50 is the construction cost, including 7.5% Engineering, Surveying and Testing as shown by the cost supporting documents attached herewith.



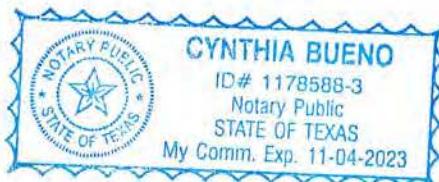
Mossa Mostaghasi, President

4/6/2020  
(Date)

THE STATE OF TEXAS §

COUNTY OF NUECES §

This instrument was acknowledged before me on April 6th, 2020, by  
Mossa Mostaghasi, President of MPM Development, LP, on behalf of the said corporation.



Cynthia Bueno  
Notary Public in and for Nueces County, Texas

**CERTIFICATION**

The information submitted with this application for reimbursement has been reviewed and determined to be correct. Reimbursement is subject to:

- (a) Sufficiency of funds in the Collection Line Trust Fund, and
- (b) Appropriation and approval by the City Council.

Development Services Engineer

(Date)

APPLICATION FOR WASTE WATER CREDIT

We, MPM Development, LP, P.O. Box 331308, Corpus Christi, Texas 78463, owners and developers of proposed King's Landing Unit 1 subdivision, hereby apply for \$195,558.08 credit towards the waste water acreage fees for the collection line extension in conjunction with said subdivision as provided for by City Ordinance No. 17092. \$241,165.50 is the construction cost, including 7.5% Engineering, Surveying and Testing as shown by the cost supporting documents attached herewith.



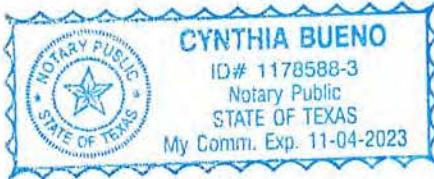
Mossa Mostaghasi, President

4/16/2020  
(Date)

THE STATE OF TEXAS §

COUNTY OF NUECES §

This instrument was acknowledged before me on April 16th, 2020, by  
Mossa Mostaghasi, President of MPM Development, LP, on behalf of the said corporation.



Cynthia Bueno  
Notary Public in and for Nueces County, Texas

# PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 1, CORPUS CHRISTI, NUECES COUNTY, TEXAS

## CITY STANDARD SPECIFICATIONS

THE FOLLOWING CITY OF CORPUS CHRISTI STANDARD SPECIFICATIONS OF WHICH CAN BE OBTAINED FROM THE CITY OF CORPUS CHRISTI WEBSITE ([WWW.CCTEXAS.COM](http://WWW.CCTEXAS.COM)) SHALL BE UTILIZED FOR THIS PROJECT. CONTRACTOR SHALL FURNISH ONE COPY OF THE CITY OF CORPUS CHRISTI STANDARD SPECIFICATIONS UPON COMMENCING THE WORK AND PRIOR TO CONSTRUCTION OF THE WORK. THE WORD "ENGINEER" AS USED IN SAID CITY STANDARD SPECIFICATIONS SHALL REFER TO BASS & WELSH ENGINEERING.

021202	SITE CLEARING AND STRIPPING
022020	SITE GRADING AND BACKFILL FOR UTILITIES
022021	CONTROL OF GROUND WATER
022022	CONTROL OF GROUND WATER
022023	STORM EXCAVATION
022060	CHANNEL EXCAVATION
022080	EMBANKMENT
022100	SELECT MATERIAL
022400	SILT TRAP MATERIAL
025210	LIME STABILIZATION
025223	CRUSHED LIMESTONE FLEXIBLE BASE
025404	ASPHALT, OILS AND EMULSIONS
025424	HOT MIX ASPHALT CONCRETE PAVEMENT
025610	CONCRETE CURB AND GUTTER
025611	CONCRETE SIDEWALKS AND DRIVEWAYS
025614	CONCRETE CURB RAMPS
025802	TEMPORARY TRAFFIC CONTROLS DURING CONSTRUCTION
026201	WATER LINE RISER ASSEMBLIES
026202	HYDRAULIC TURBINE PRESSURE SYSTEMS
026409	TAPPING SLEEVES AND TAPPING VALVES
026206	DUCTILE IRON PIPE AND FITTINGS
026210	PVC PIPE - AWWA C900/G905 PRESSURE PIPE FOR MUNICIPAL WATER MAINS AND WASTEWATER FORCE MAINS
026402	WATER LINES
026404	WATER SERVICE LINES
026411	GATE VALVES FOR WATER LINES
026416	FIRE HYDRANTS
027202	MANHOLES
027203	VACUUM TESTING OF WASTE WATER MANHOLES AND STRUCTURES
027205	GLASS MANHOLES
027402	REINFORCED CONCRETE PIPE CULVERTS
027404	CONCRETE BOX CULVERTS
027602	GRAVITY WASTE WATER LINES
027606	WASTE WATER SERVICE LINES
028020	SEEDING
030020	PORTLAND CEMENT CONCRETE
032020	REINFORCING STEEL
038000	CONCRETE STRUCTURES
055420	FRAMES, GRATES, RINGS AND COVERS

## PAVING, GRADING AND DRAINAGE NOTES

- ALL PROPOSED CONCRETE CURBS AND GUTTERS, WALKS, DRAINAGE INLETS AND VALLEY GUTTERS ARE SHOWN POCHED (SHADE).
  - PRIOR TO ANY EARTHWORK, ALL TREES, VEGETATION, ORGANIC MATERIAL AND ANY DELETERIOUS SUBSTANCES SHALL BE REMOVED FROM THE ENTIRE PROJECT SITE EXCEPT TREES 6" DIAMETER AND LARGER OUTSIDE OF PROPOSED EASEMENTS. ALL OTHER MATERIAL, DELETERIOUS SUBSTANCES, APPROPRIATE TREES, ETC., CONTRACTOR SHALL REMOVE. CONTRACTOR SHALL FURNISH EARTHWORK ASSOCIATED WITH STREETS.
  - CONTRACTOR SHALL PERFORM ALL ROUGH EARTHWORK (TILLING, GRADING, HAULING, CUTTING, LOADING, ETC.) TO VERIFY ADEQUATE EARTH QUANTITY ON-SITE TO ACHIEVE EARTH GRADES AS SHOWN PRIOR TO ANY OTHER CONSTRUCTION AND CONTRACTOR SHALL NOT PROCEED WITH SAID OTHER CONSTRUCTION UNTIL AFTER HE HAS RECEIVED ENGINEER'S PERMISSION. SHOULD THERE NOT BE AVAILABLE EARTH TO MEET GRADES AS SHOWN, CONTRACTOR SHALL HAUL EARTH ON TO THE SITE FROM OFFSITE SOURCES TO ACHIEVE GRADES AS SHOWN (NO SEPARATE PAY), AFTER COMPLETION OF ROUGH GRADING AND AFTER COMPLETION OF STREET, DRAINAGE, SANITARY SEWER AND WATER IMPROVEMENTS, THEN CONTRACTOR SHALL PROVIDE ALL FINAL/FINISH GRADING TO ACHIEVE GRADES AS SHOWN. THIS INCLUDES BACKFILL OF EXISTING DITCH.
  - ALL CONCRETE, EXCEPT FOR PRECAST CONCRETE BOX CULVERTS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND ALL STEEL REINFORCING SHALL BE GRADE 60 (60,000 PSI YIELD STRENGTH) IN ACCORDANCE WITH ASTM A 615.
  - REINFORCED CONCRETE STORM SEWER PIPE SHALL BE CLASS III, STANDARD STRENGTH. STORM SEWER MANHOLES SHALL BE PRE-CAST CONCRETE.
  - ALL STREET, SANITARY SEWER AND STORM SEWER STATIONING IS MEASURED ALONG THE CENTERLINES OF STREETS.
  - LINEARLY INTERPOLATE BETWEEN GRADES AS SHOWN TO DETERMINE A PROPOSED GRADE AT ANY PARTICULAR POINT.
  - CURB AND GUTTER ALIGNMENT SHALL PARALLEL ADJACENT RIGHT-OF-WAY LINES EXCEPT WHERE INDICATED OTHERWISE.
  - CURB AND GUTTER TO BE CONSTRUCTED 11.0' BACK OF CURB TO PROPERTY LINES FOR 50' STREET RIGHTS-OF-WAY, 10.0' BC TO PROPERTY LINES FOR 60' RIGHT-OF-WAY STREETS AND 12.5' BC TO PROPERTY LINES FOR 75' STREET RIGHTS OF WAY.
  - CONSTRUCT PROPOSED CURB RAMPS AT ALL STREET INTERSECTIONS AND AS SHOWN AND ACCORDING TO CITY CURB RAMP DETAILS AS SHOWN IN PLANS HEREOF. DEPRESS CURBS AS REQUIRED. RAMPS SHALL BE SLOPED NOT EXCEEDING 1" PER FOOT LONGITUDINAL AND 2% TRANSVERSE AND SHALL MEET ALL APPLICABLE GOVERNMENTAL REGULATIONS. NO SEPARATE PAY FOR CURB RAMPS (PAY FOR CURB RAMPS IN THE SQUARE FOOT PRICE OF 4" THICK RC/C WALLS).
  - CONTRACTOR SHALL MEET ALL GOVERNMENTAL ONE-CALL AND OTHER REGULATIONS WITH REGARD TO EXISTING UNDERGROUND FACILITIES AND PIPELINES.
  - NO SEPARATE PAY FOR PRIME COAT (PAY FOR IN THE ESTABLISHED UNIT PRICE FOR HMAC).
  - ADA CURB RAMPS - THE CITY NO LONGER ALLOWS THE PAVER OPTION AT CURB RAMPS. THE CONTRACTOR SHALL INSTALL COMPOSITE TACTILE WARNING PANELS AT ALL ADA CURB RAMPS.
  - GEOTEXTILE FABRIC MATERIAL IS REQUIRED FOR WRAPPING RCP PIPE JOINTS AND SHALL MEET REQUIREMENTS OF AASHTO M288.
  - COMPACT EARTH FOR ALL DITCH BACKFILL TO 95% STANDARD PROCTOR DENSITY WITHIN THREE PERCENTAGE POINTS OF OPTIMUM MOISTURE.
- SEE FOLLOWING SHEET FOR CONTINUATION OF PAVING, GRADING AND DRAINAGE NOTES.

## SANITARY SEWER NOTES

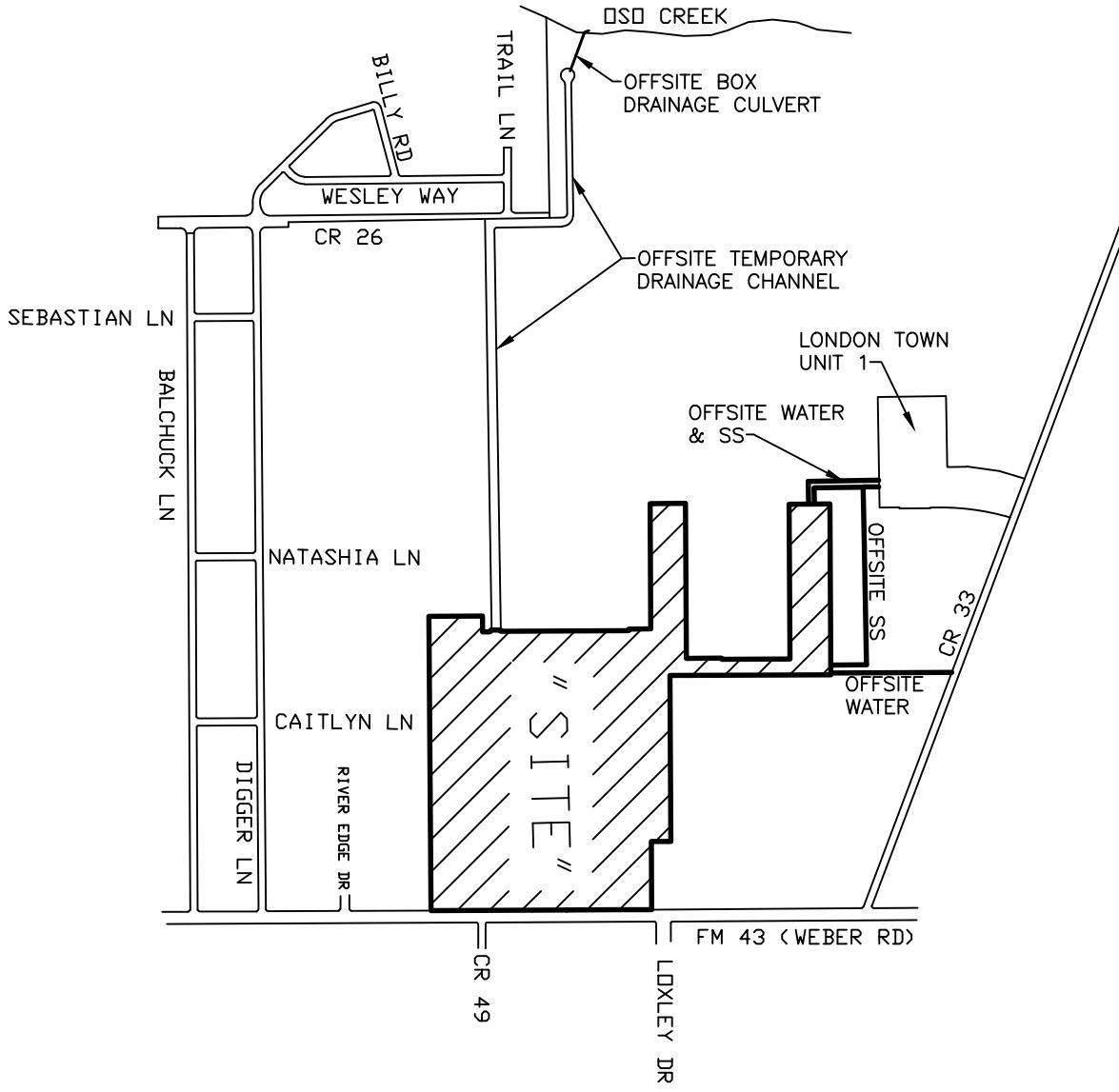
- ALL SANITARY SEWER STATIONING IS MEASURED ALONG THE CENTER LINE OF PROPOSED STREETS EXCEPT FOR OFFSITE SANITARY SEWER WHICH IS MEASURED ALONG PIPE. ALL SANITARY SEWER MANHOLES SHALL BE GLASS, 4" MINIMUM DIAMETER FOR MANHOLES 14' DEEP OR LESS AND 5" DIAMETER FOR MANHOLES OVER 14' IN DEPTH, 0.5" (MINIMUM) WALL AND CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.
- ALL GRAVITY SEWER PIPES 8" THRU 18" SHALL BE PVC, SDR 26 AND SHALL BE BEDDED/ENCASED IN ACCORDANCE WITH CITY STANDARD DETAILS AND SPECIFICATIONS (NO SEPARATE PAY). BED 4" AND SMALLER PIPES IN EARTH FROM THE EXCAVATION.
- NO SEPARATE PAY FOR ANY DE-WATERING OR SPECIAL EMBODIMENT REQUIRED FOR 8" SANITARY SEWER PIPES AND MANHOLES. PAY FOR DE-WATERING FOR 12" AND 18" PIPE SEPARATELY.
- THE WORDS SANITARY SEWER SHALL MEAN WASTE WATER AND VICE VERSA.

## LEGEND - EXISTING FACILITIES AND APPURTENANCES

AP	ASPHALT PAVEMENT
①	BLOCK NO. 1
6" C & G	6" R/C CURB AND GUTTER
4" CW	4" R/C WALK
D.E.	DRAINAGE EASEMENT
EP	EDGE OF PAVEMENT
M.R.	MAP RECORDS
18" RCP	18" REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY LINE
R/W	RIGHT-OF-WAY LINE
8"SS	8" SANITARY SEWER LINE
U.E.	UTILITY EASEMENT
8"W	8" WATER LINE
Y.R.	YARD REQUIREMENT
	SPOT ELEVATION POINT OF "X"

## LEGEND - PROPOSED FACILITIES AND APPURTENANCES

BB	BACK OF CURB TO BACK OF CURB
CL	CENTERLINE
CW	R/C CONCRETE WALK
DCSC	DEEP CUT SERVICE CONNECTION (SAN. SEWER)
D.E.	DRAINAGE EASEMENT
EP	EDGE OF PAVEMENT
(13.45)	FINISHED GROUND ELEVATION
FL	FLOW LINE OR INVERT ELEVATION
FW	FINISHED WALK ELEVATION
GB	GRADE BREAK (CHANGE OF DRAINAGE DIRECTION OR SLOPE)
LT	LEFT
MH	MANHOLE
PC	POINT OF CURVATURE (BEGINNING OF CURVE)
PT	POINT OF TANGENCY (END OF CURVE)
R/C	REINFORCED PORTLAND CEMENT CONCRETE
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
S = 0.3%	LONGITUDINAL SLOPE
SS	SANITARY SEWER
SSF	SEDIMENTATION SCREENING FENCE ALSO KNOWN AS SILT FENCE OR TEMPORARY SEDIMENT CONTROL FENCE
SSMH	SANITARY SEWER MANHOLE
SSS	SANITARY SEWER SERVICE (PIPE & FITTINGS, 4" AND 6")
STL	STREET LIGHT LOCATION
STPS	STOP SIGN
TC	TOP OF CURB
TW	TOP OF WALK
WSD	DOUBLE WATER SERVICE (1" PIPE, FITTINGS, CORPORATION STOP AND ANGLE METER VALVES)
WSS	SINGLE WATER SERVICE (1" PIPE, FITTINGS, CORPORATION STOP AND ANGLE METER VALVE)



LOCATION MAP SHOWING OFFSITE DRAINAGE, SS AND WATER

1'=1500'

## SHEET INDEX

SHEET 1	COVER SHEET AND MISCELLANEOUS INFORMATION
SHEET 1A	STREET BASE MAP
SHEET 1B	SANITARY SEWER BASE MAP
SHEET 1C	WATER BASE MAP
SHEET 2	PAVING, GRADING AND DRAINAGE PLAN, STREET AND STORM SEWER PROFILES
SHEET 3	PAVING, GRADING AND DRAINAGE PLAN, STREET AND STORM SEWER PROFILES
SHEET 4	PAVING, GRADING AND DRAINAGE PLAN, STREET AND STORM SEWER PROFILES
SHEET 5	PAVING, GRADING AND DRAINAGE PLAN, STREET AND STORM SEWER PROFILES
SHEET 6	PAVING, GRADING AND DRAINAGE PLAN, STREET AND STORM SEWER PROFILES
SHEET 7	PAVING, GRADING AND DRAINAGE PLAN, STREET AND STORM SEWER PROFILES
SHEET 8	SANITARY SEWER AND WATER PLAN AND PROFILE
SHEET 9	SANITARY SEWER AND WATER PLAN AND PROFILE
SHEET 10	SANITARY SEWER AND WATER PLAN AND PROFILE
SHEET 11	SANITARY SEWER AND WATER PLAN AND PROFILE
SHEET 12	SANITARY SEWER AND WATER PLAN AND PROFILE
SHEET 13	SANITARY SEWER AND WATER PLAN AND PROFILE AND OFFSITE SANITARY SEWER AND WATER TO EAST
SHEET 14	WATER PLAN AND PROFILE, AIR RELEASE AND VACUUM VALVE DETAIL, MULTIBBLE BOX CULVERT ENLARGED DRAWINGS
SHEET 15	STORM WATER POLLUTION PREVENTION PLAN & ESTIMATE SUMMARY
SHEET 16	STORM WATER POLLUTION PREVENTION PLAN
SHEET 17	STORM WATER POLLUTION PREVENTION PLAN
SHEET 18	STORM WATER POLLUTION PREVENTION PLAN
SHEET 19	STORM WATER POLLUTION PREVENTION PLAN
SHEET 20	STORM WATER POLLUTION PREVENTION PLAN
SHEET 21	OFFSITE DRAINAGE PLAN AND PROFILE
SHEET 22	OFFSITE DRAINAGE PLAN AND PROFILE
SHEET 23	OFFSITE DRAINAGE PLAN AND PROFILE
SHEET 24	STREET & SIDEWALK DETAILS
SHEET 25	TXDOT SINGLE BOX CULVERTS, CIP, SCC-5&6 (SHEET 1)
SHEET 26	TXDOT SINGLE BOX CULVERTS, CIP, SCC-5&6 (SHEET 2)
SHEET 27	TXDOT SINGLE BOX CULVERTS, CIP, SCC-8 (SHEET 1)
SHEET 28	TXDOT SINGLE BOX CULVERTS, CIP, SCC-8 (SHEET 2)
SHEET 29	TXDOT MULTIPLE BOX CULVERTS, CIP, MC-8-13 (SHEET 1)
SHEET 30	TXDOT MULTIPLE BOX CULVERTS, CIP, MC-8-13 (SHEET 2)
SHEET 31	TXDOT CONCRETE WINGWALLS W/PARALLEL WINGS FOR BOX CULVERTS, TYPES PW-1 AND PW-2
SHEET 32	TXDOT PEDESTRIAN RAIL, TYPE PR-2
SHEET 33	TXDOT SINGLE BOX CULVERTS, CAST IN PLACE, MISCELLANEOUS DETAILS, SCC-MD

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DEVELOPERS:  
MOSES MOSTACHASI  
P.O. BOX 331308, CORPUS CHRISTI, TEXAS  
78463 774-3832

CORPUS CHRISTI COMMUNITY CHURCH  
4833 SARATOGA BLVD. NO. 259  
CORPUS CHRISTI, TX 78413-2213  
420-0022

## BENCHMARKS

CM IN CONC HEADWALL,  
EL 35.60, SEE BOTTOM  
SHEET 2 IN MIDDLE

TOP OF FH S36°44'19"E  
201.83' FROM PROPERTY  
CORNER, EL 36.21, SEE  
SHEET 2 LOWER LEFT

BASS AND WELSH ENGINEERING  
TX REGISTRATION NO. F-52, 3054 S. ALAMEDA STREET  
CORPUS CHRISTI, TEXAS 78404

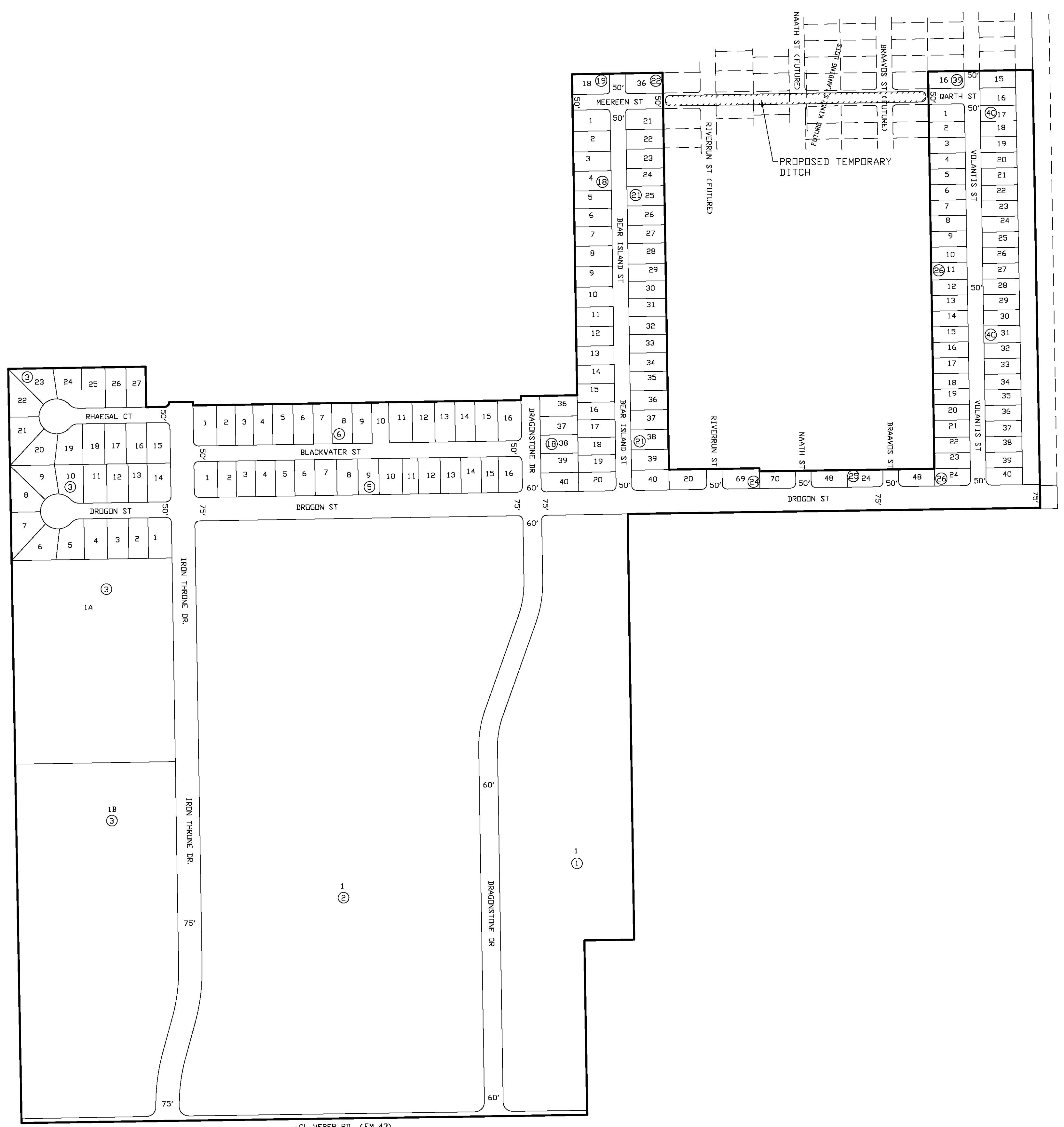
PUBLIC IMPROVEMENTS TO  
KING'S LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

COVER SHEET AND MISCELLANEOUS INFORMATION

DWN:	1" = 50'
SCALE (V):	AS SHOWN
CHK:	N. WELSH
DATE PLOTTED:	02/18/20
COM. NO.:	CS.DWG
SCALE (V):	AS SHOWN
JOB NO.:	18068
SHEET 1 OF 33	

## WATER NOTES

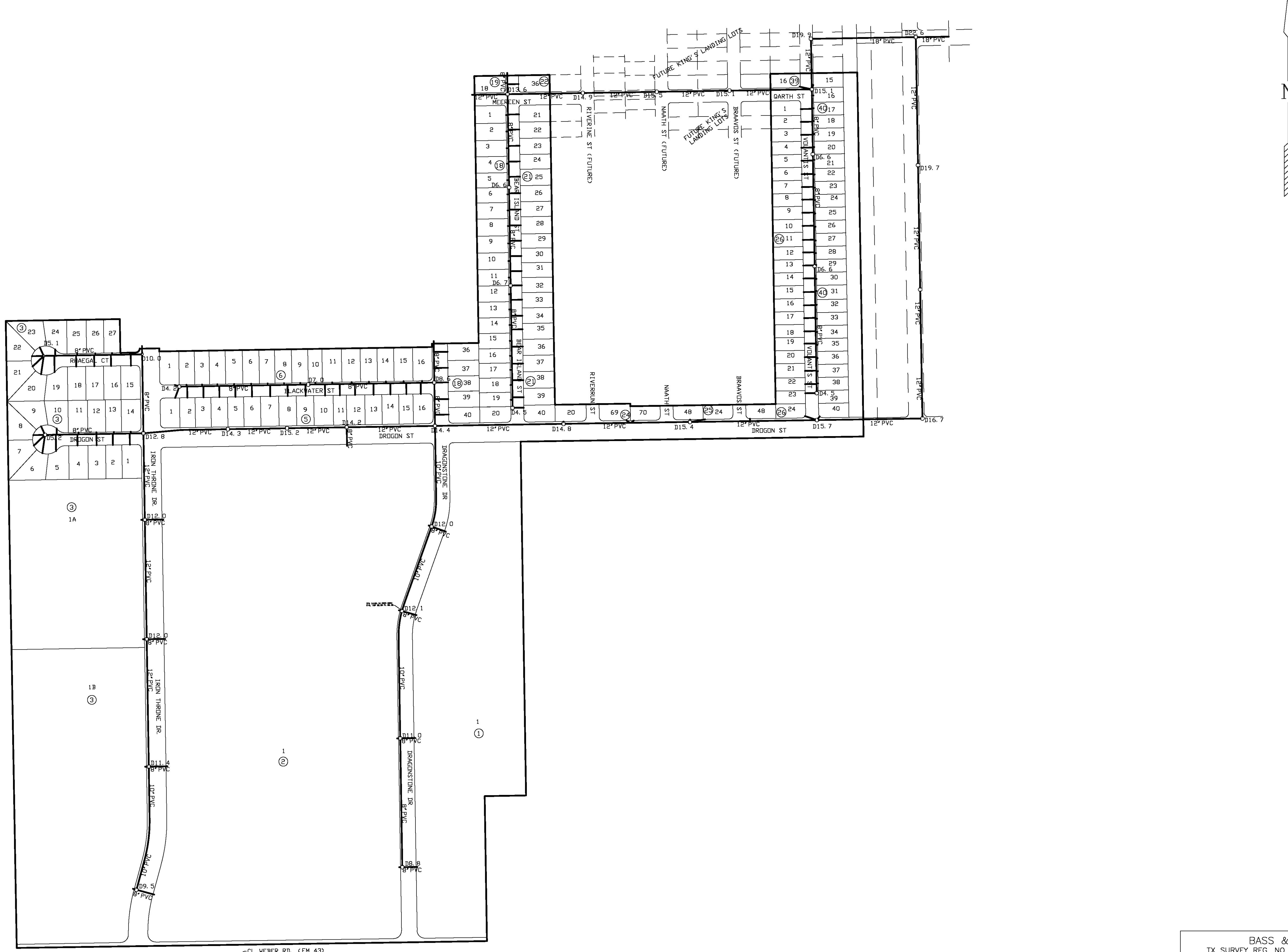
- NO SEPARATE PAY FOR THRUST BLOCKS NOR RESTRAINED JOINTS IN PIPE OR FITTINGS IN PROPOSED 4", 8", 12" AND 16" PVC WATER LINES. CONTRACTOR SHALL INSURE ALL WATER FITTINGS ARE RESTRAINED OR BLOCKED APPROPRIATELY.
- PROVIDE CAST IRON BOXES AND PVC PIPE EXTENSIONS WITH CONCRETE AT GATE VALVES PURSUANT TO CITY STANDARD WATER DETAILS.
- CONSTRUCT WATER RISERS AT END CAPS ON PIPES AND 2" BLOW-OFF VALVES FOR FILLING AND TESTING PURPOSES PURSUANT TO DETAILS AS SHOWN IN CITY STANDARD WATER DETAILS.
- CONSTRUCT WATER SERVICE LINES AND CONNECTIONS PURSUANT TO THE NOTES AND DETAILS AS SHOWN IN CITY STANDARD WATER DETAILS.
- ALL WATER MAINS 6" AND LARGER SHALL BE DR18 PVC WITH DUCTILE IRON MECHANICAL JOINT FITTINGS.
- PROVIDE MINIMUM CLEARANCE BETWEEN WATER AND SANITARY SEWER LINES AND/OR MANHOLES AS REQUIRED BY THE TEXAS ADMINISTRATIVE CODE 317-3, APPENDIX "E", SEPARATION DISTANCE (AS REQUIRED BY TEXAS STATE WATER HYGIENE LAW) AND ACCORDING TO CITY STANDARD DETAILS AND SPECIFICATIONS.
- ALL WATER SERVICE LINES SHALL BE 1" DIAMETER FOR SINGLE AND DOUBLE WATER SERVICES.
- ALL PUBLIC WATER LINE CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH REQUIREMENTS SET FORTH BY THE CITY OF CORPUS CHRISTI WATER DISTRIBUTION STANDARDS, DETAILS AND PRACTICES. PVC PIPE AND FITTINGS FOR WATER LINES SHALL BE AWWA C-900, CLASS 150, WITH A DR OF 18. FIRE HYDRANTS WILL BE LOCKED ONTO VALVE BY USE OF RETAINER GLANDS ON DIP.
- ANY EXCAVATIONS ALLOWED BY THE DIRECTOR OF DEVELOPMENT SERVICES ON CONCRETE STREETS MUST BE PERFORMED IN SUCH A WAY THE ENTIRE CONCRETE PANEL IS REPLACED.
- ELECTRICAL CASING PIPES SHALL BE PVC SCHEDULE 40



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0 100' 200' 400'  
SCALE: 1" = 200'

BASS & WELSH ENGINEERING TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO. F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404		
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 1 CORPUS CHRISTI, NUECES CO., TX		
STREET BASE MAP		
DNN: _____	PLOT SCALE: 1" = 200' SCALE (M): SAME SCALE (Y): NONE	COM. NO. STR-BASE.DWG JOB NO. 18068 DATE PLOTTED 2/18/20 SHEET 1A OF 33

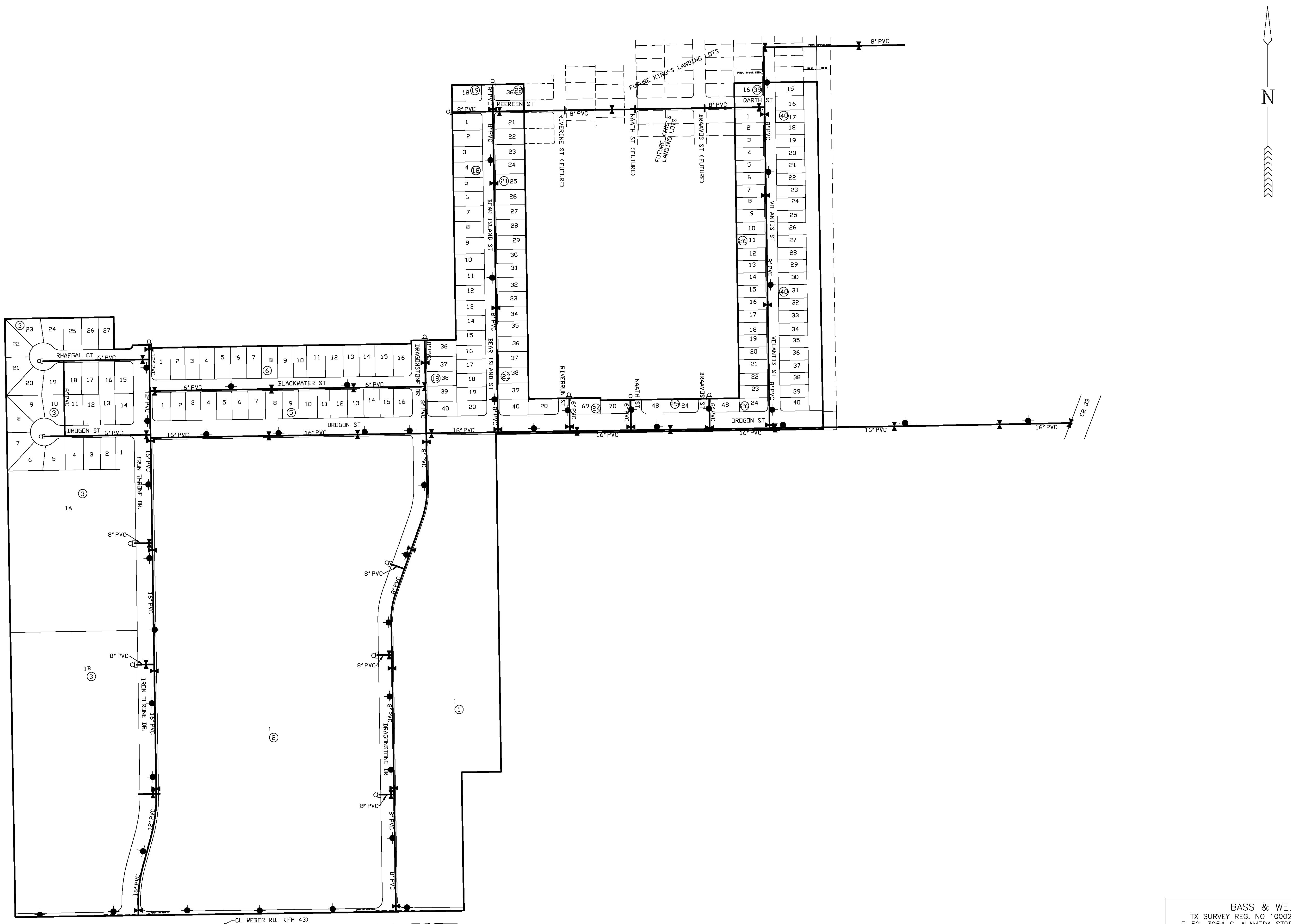


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0 100' 200' 400'  
SCALE: 1" = 200'

DWNR:	PLOT SCALE:	1" = 200'	COM. NO.:	SS-BASE.DWG
CHK.:	SCALE (H):	SAME	SCALE (V):	NONE
	JOB NO.:	18068	DATE PLOTTED:	2/18/20

BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404  
PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX  
SANITARY SEWER BASE MAP



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SCALE: 1" = 200'

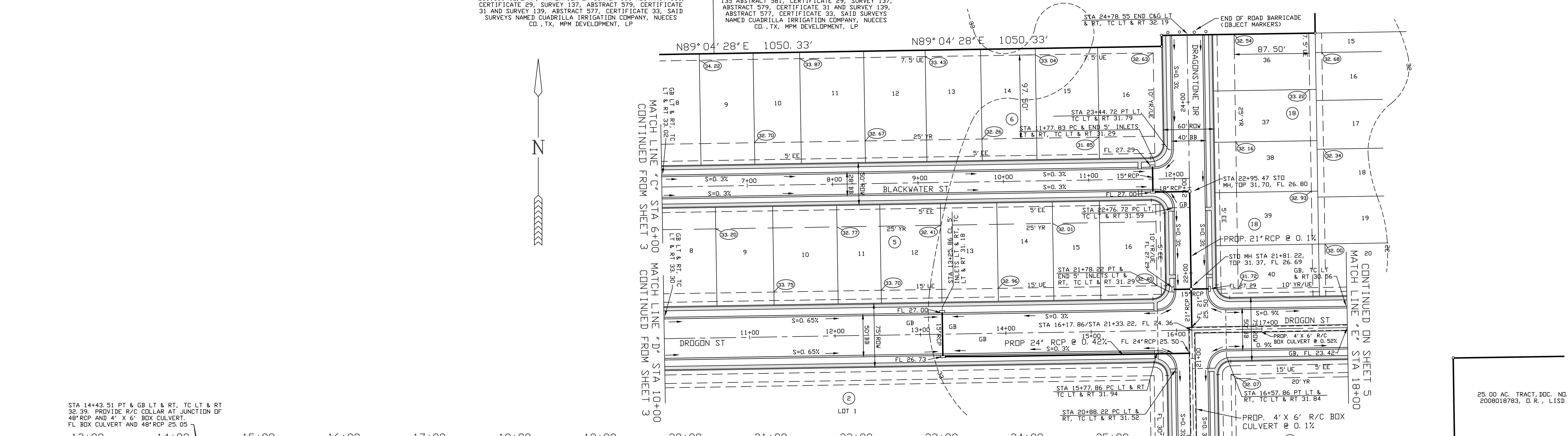
BASS & WELSH ENGINEERING TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO. F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404	PLOT SCALE: 1" = 200'
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 1 CORPUS CHRISTI, NUECES CO., TX	SCALE (H): SAME SCALE (V): NONE
WATER BASE MAP	COM. NO. WTR-BASE.DWG JOB NO. 18068 DATE PLOTTED 2/18/20 SHEET 1C OF 33
DWN. _____ CHK. N. WELSH	1" = 200' SCALE (H): SAME SCALE (V): NONE DATE PLOTTED 2/18/20



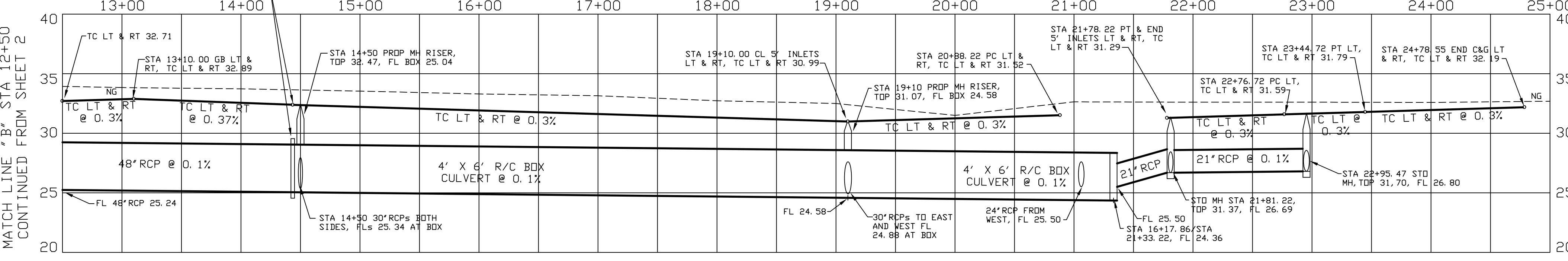


PORTION OF A 130.570 ACRE  
2019051482, D. R., A PORTION OF SU-  
CERTIFICATE 29, SURVEY 137, ABST-  
31 AND SURVEY 139, ABSTRACT 577,  
SURVEYS NAMED CUADRILLA IRRIGA-  
CO., TX, MPM DEVELOP

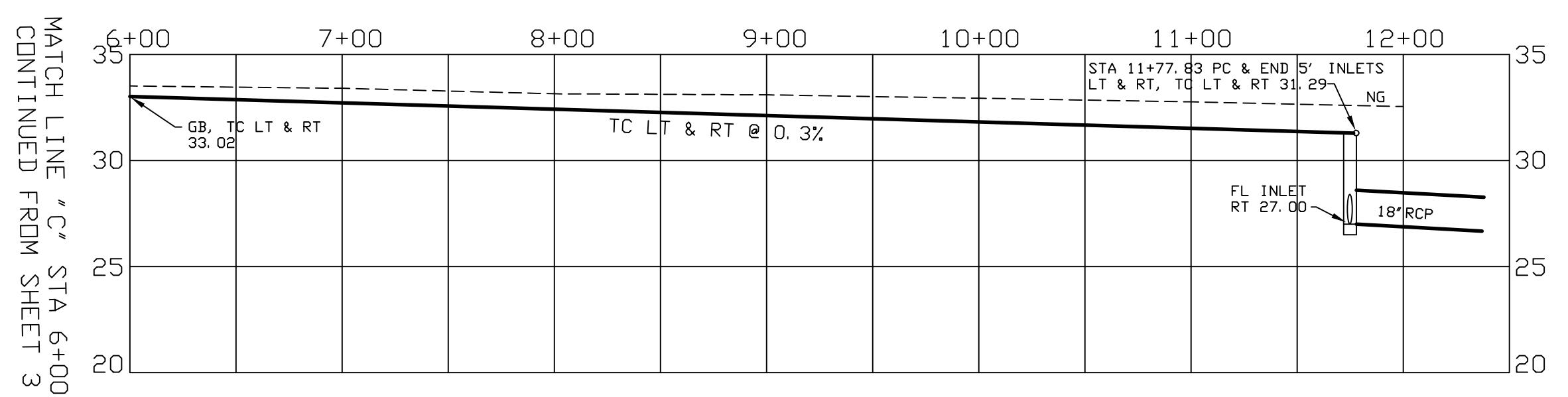
PORITION OF A 293.041 ACRE TRACT,  
DOC. NO. 2019035726, D. R., A PORITION OF SURVEY  
135 ABSTRACT 581, CERTIFICATE 29, SURVEY 137,  
ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139,  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS  
NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO., TX, MPM DEVELOPMENT, LP



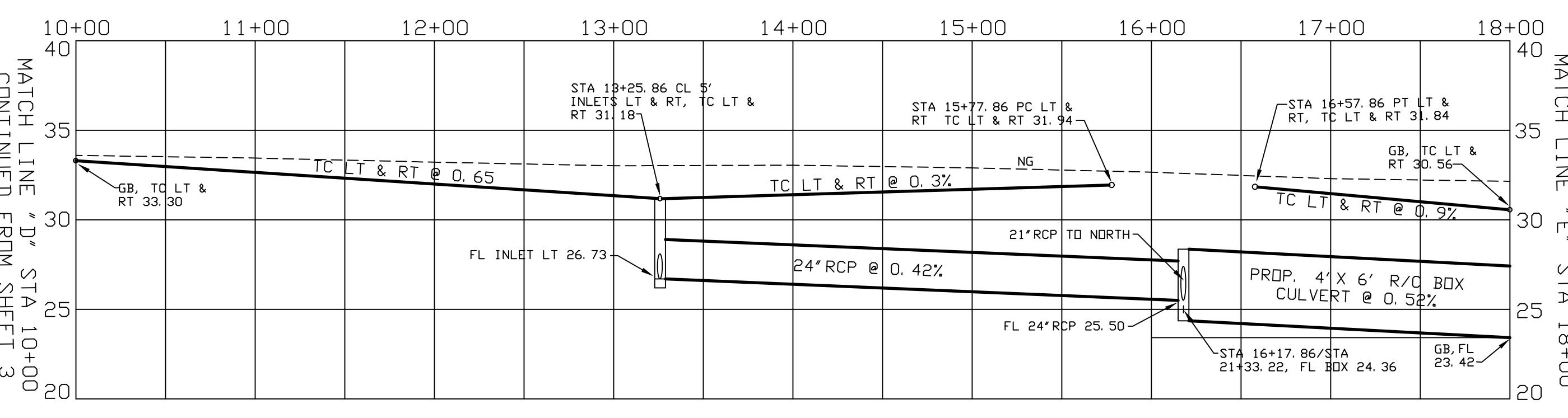
STA 14+43.51 PT & GB LT & RT, TC LT & RT  
32.39. PROVIDE R/C COLLAR AT JUNCTION OF  
48" RCP AND 4' X 6' BOX CULVERT.  
EL. BOX CULVERT AND 12" RCP 25' SE



## PROFILE - DRAGONSTONE



## PROFILE - BLACKWATER ST



## PROFILE - DRAGON ST

25.00 AC. TRACT, D.O.C. NO.  
2008018783, D.R., LISD

25.00 AC. TRACT, DDC. NO.  
2008018783, D.R., LISD

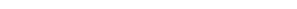
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BASS & WELSH ENGINEERING  
SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

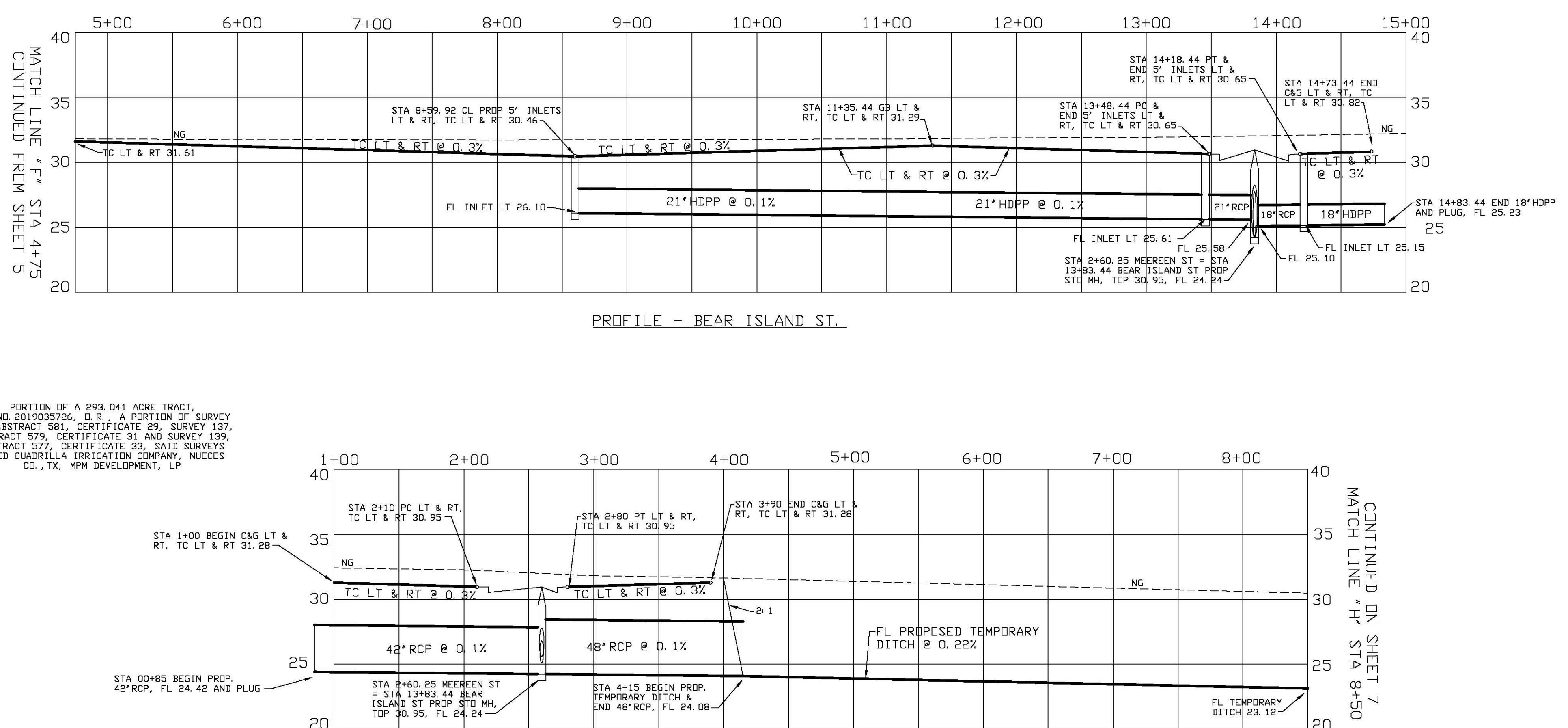
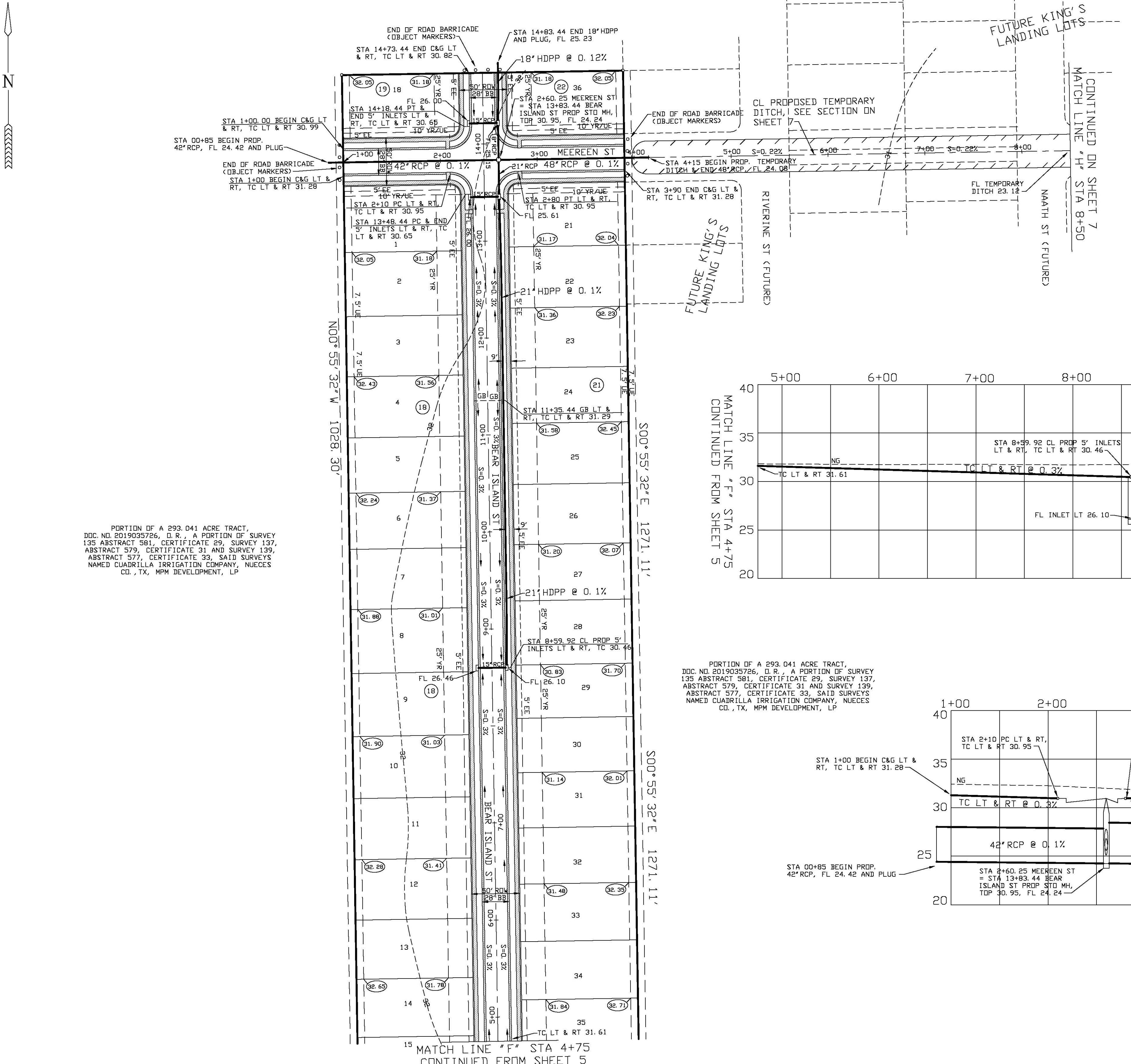
PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1 CORPUS CHRISTI,  
NUECES CO., TX

# PAVING, GRADING AND DRAINAGE PLAN STREET AND STORM SEWER PROFILES


 SCALE:  $1'' = 60'$   
 DWN. \_\_\_\_\_ PLOT SCALE:  $1'' = 60'$   
 CHK. N. WELSH SCALE (H): SAME  
 DATE PLOTTED 02/18/20 COM. NO. PGD3 AS PGD  
 SCALE (V): NONE JOB NO. 08068  
 SHEET 4 OF 33

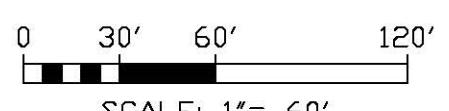


PORTION OF A 293.041 ACRE TRACT,  
DC. NO. 2019035726, D. R., A PORTION OF SURVEY  
35 ABSTRACT 581, CERTIFICATE 29, SURVEY 137,  
ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139,  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS  
NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO. TX. MPM DEVELOPMENT, LP



PROFILE - MEEREEN ST. AND OFFSITE TEMPORARY DITCH TO EAST

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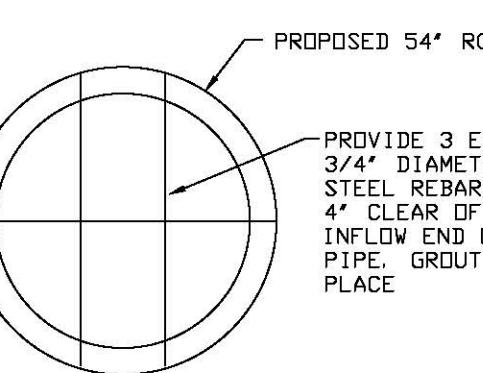
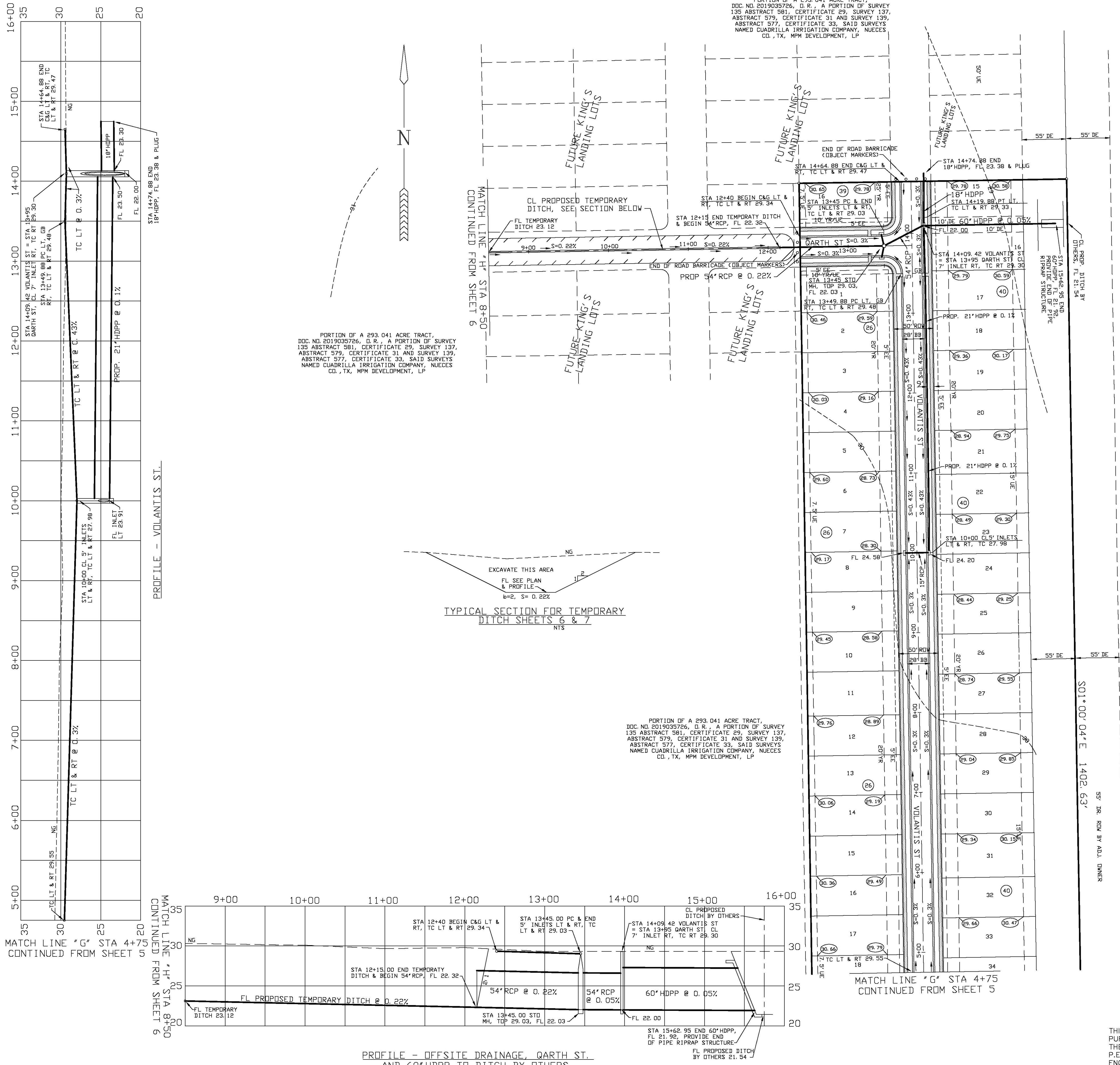
BASS & WELSH ENGINEERING  
 TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
 F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PUBLIC IMPROVEMENTS TO KING'S  
 LANDING UNIT 1  
 CORPUS CHRISTI, NUECES CO., TX

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PAVING, GRADING AND DRAINAGE PLAN  
 STREET AND STORM SEWER PROFILES

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NOTE: USE THIS DETAIL AT FLOW ENTRY INTO  
"RCP QARTH ST. STA 12+15 (THIS SHEET).

DETAIL - REBAR INSTALLATION AT  
DRAINAGE ENTRY TO PROPOSED 54" RCP  
NTS

118, 126 ACRE TRACT II, DOC. NO.  
2015011169, D. R., BILL BROWN ET AL



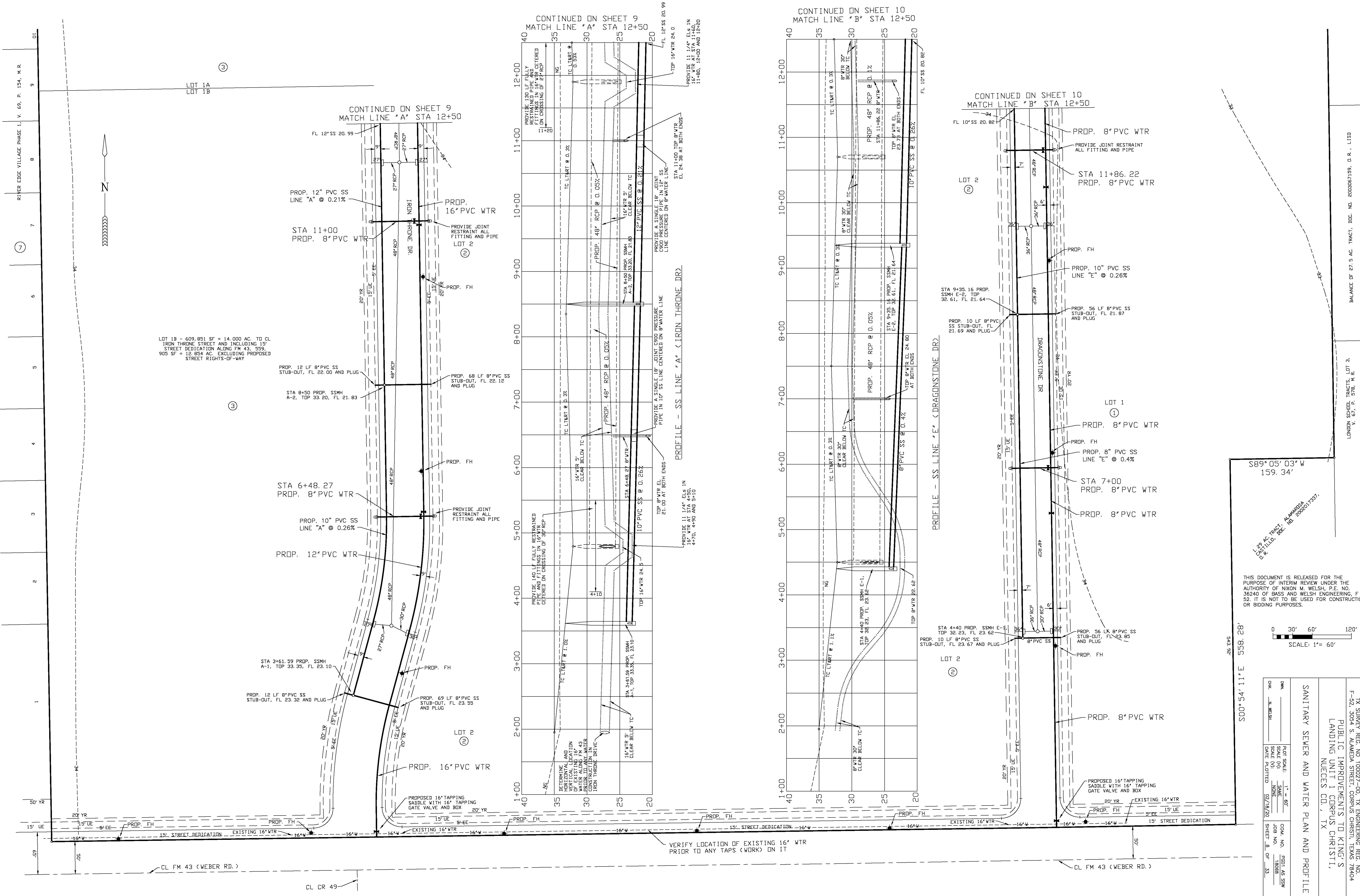
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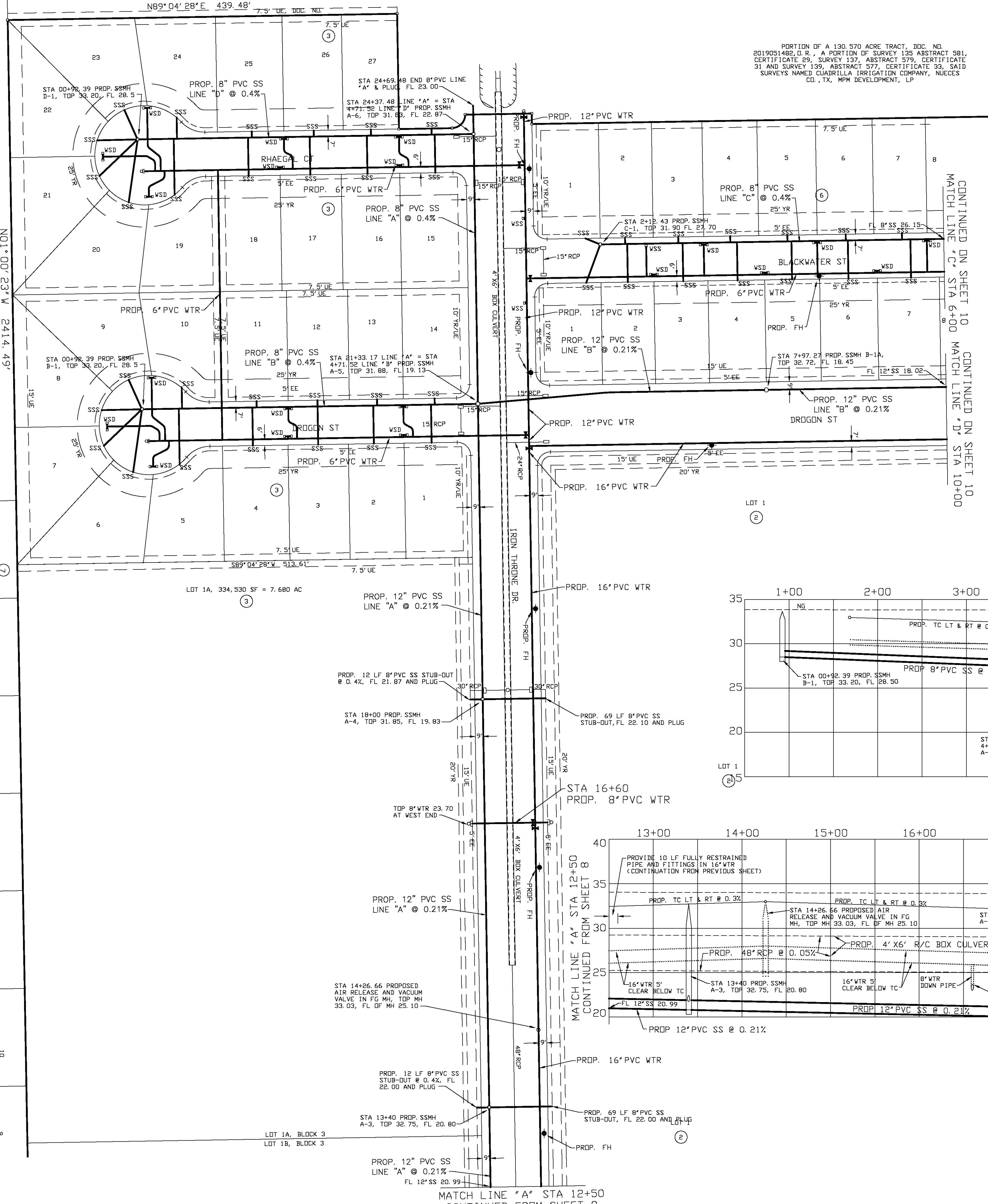
BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

# AVING, GRADING AND DRAINAGE PLAN STREET AND STORM SEWER PROFILES

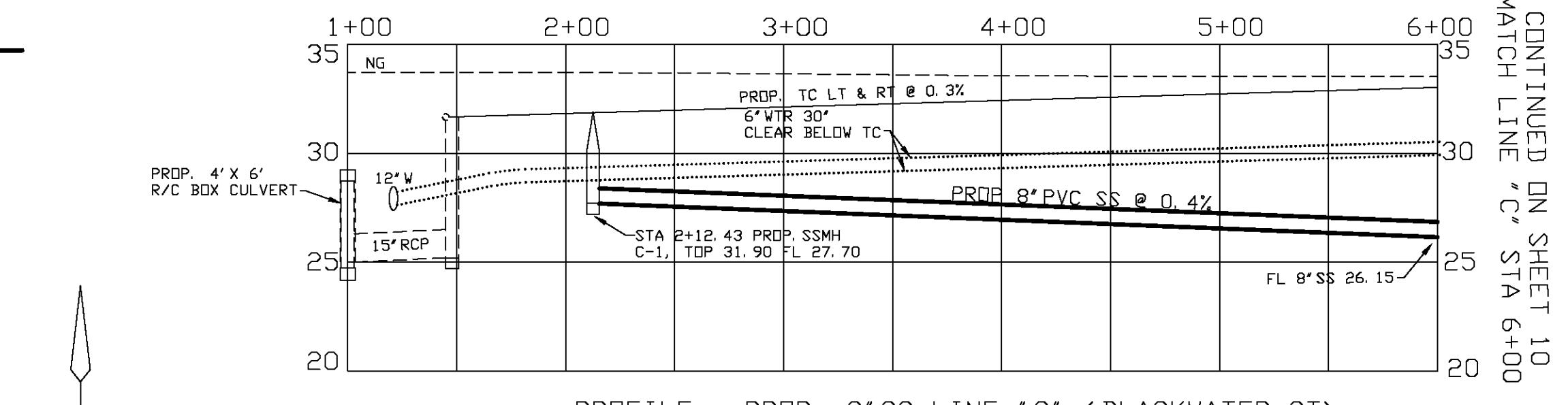
A horizontal scale bar with three tick marks labeled "30'", "60'", and "120'". The first tick mark is at the left end of the bar. The second tick mark is located in the middle of the bar. The third tick mark is at the right end of the bar. The distance between the first and second tick marks is labeled "60'". The distance between the second and third tick marks is also labeled "60'". The total length of the scale bar is labeled "120'".



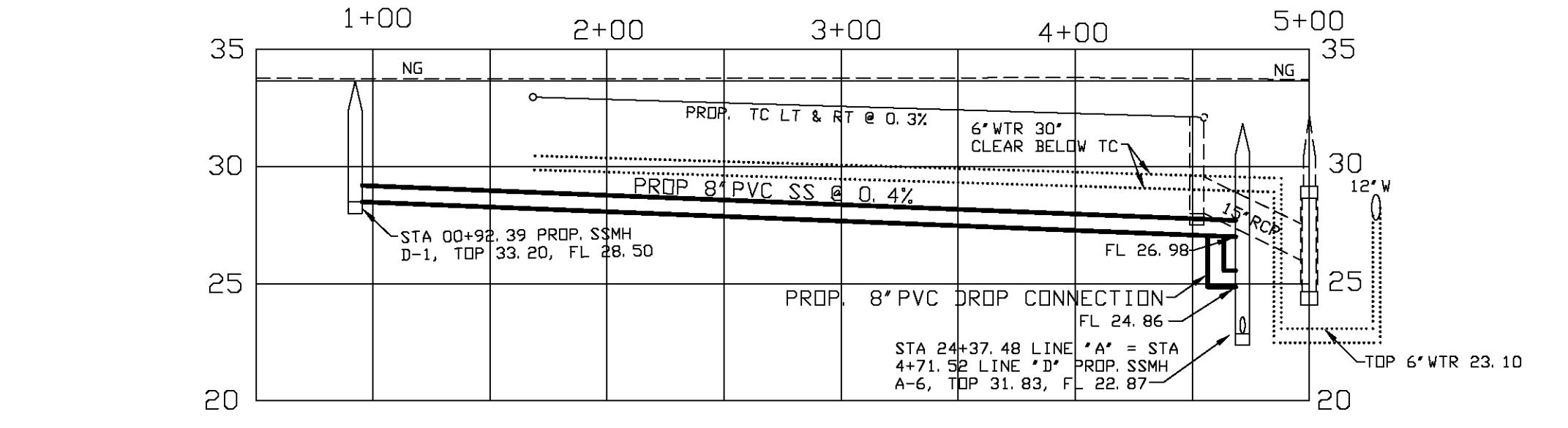


PORTION OF A 130.570 ACRE TRACT, DOC.  
2019051482, D. R., A PORTION OF SURVEY 135 ABST  
CERTIFICATE 29, SURVEY 137, ABSTRACT 579, CER  
31 AND SURVEY 139, ABSTRACT 577, CERTIFICATE  
SURVEYS NAMED CUADRILLA IRRIGATION COMPANY,  
CO. TX MPM DEVELOPMENT LP

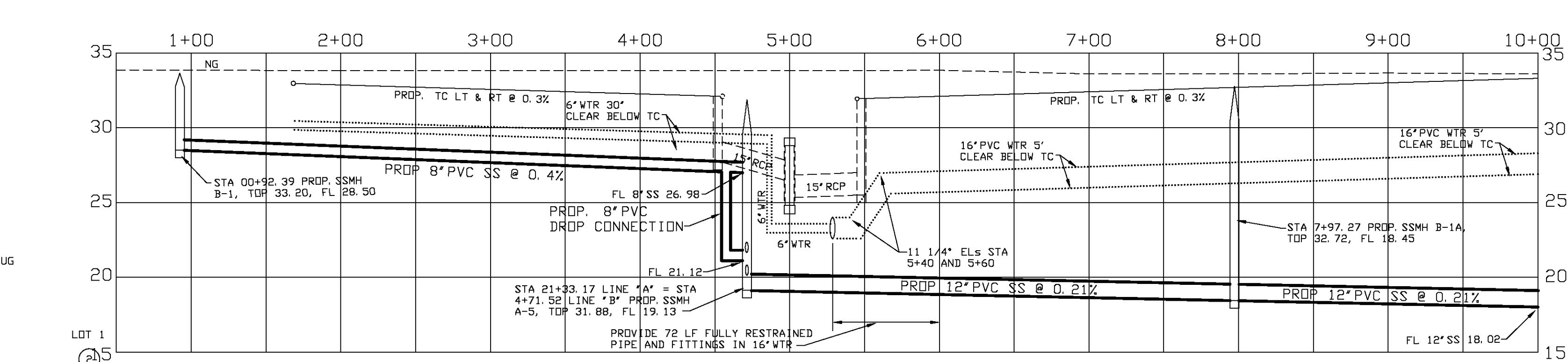
PORTION OF A 293.041 ACRE TRACT  
DOC. NO. 2019035726, D. R., A PORTION OF  
135 ABSTRACT 581, CERTIFICATE 29, SUR  
ABSTRACT 579, CERTIFICATE 31 AND SUR  
ABSTRACT 577, CERTIFICATE 33, SAID  
NAMED CUADRILLA IRRIGATION COMPANY,



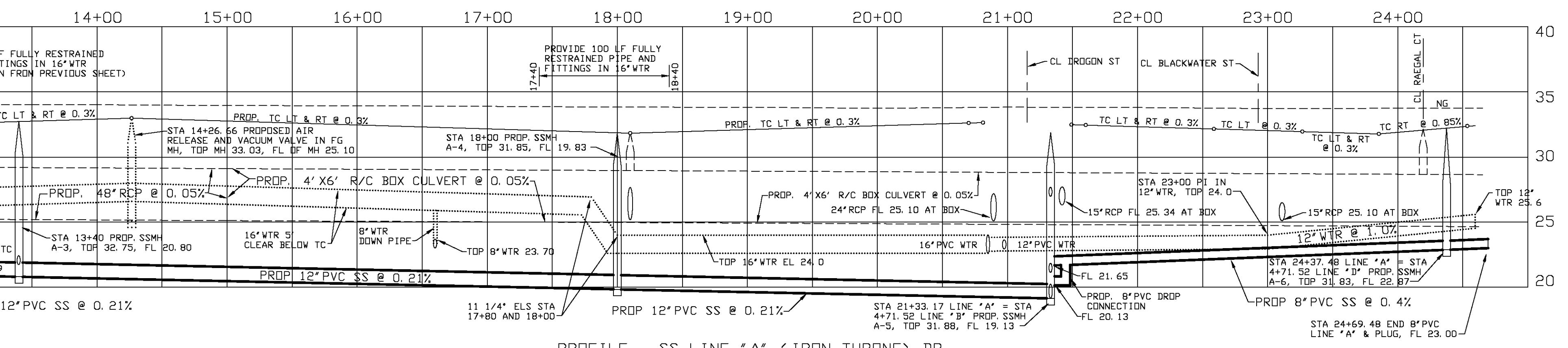
PROFILE - PROP. 8" SS LINE "C" (BLACKWATER ST)



PROFILE - SS LINE "D" (RHAEGAL CT)

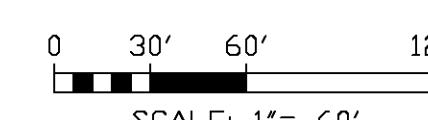


PROFILE - SS LINE "B" (DRAGON ST



PROPERTY = SS LINE "A" CROWN THRONES DR

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BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

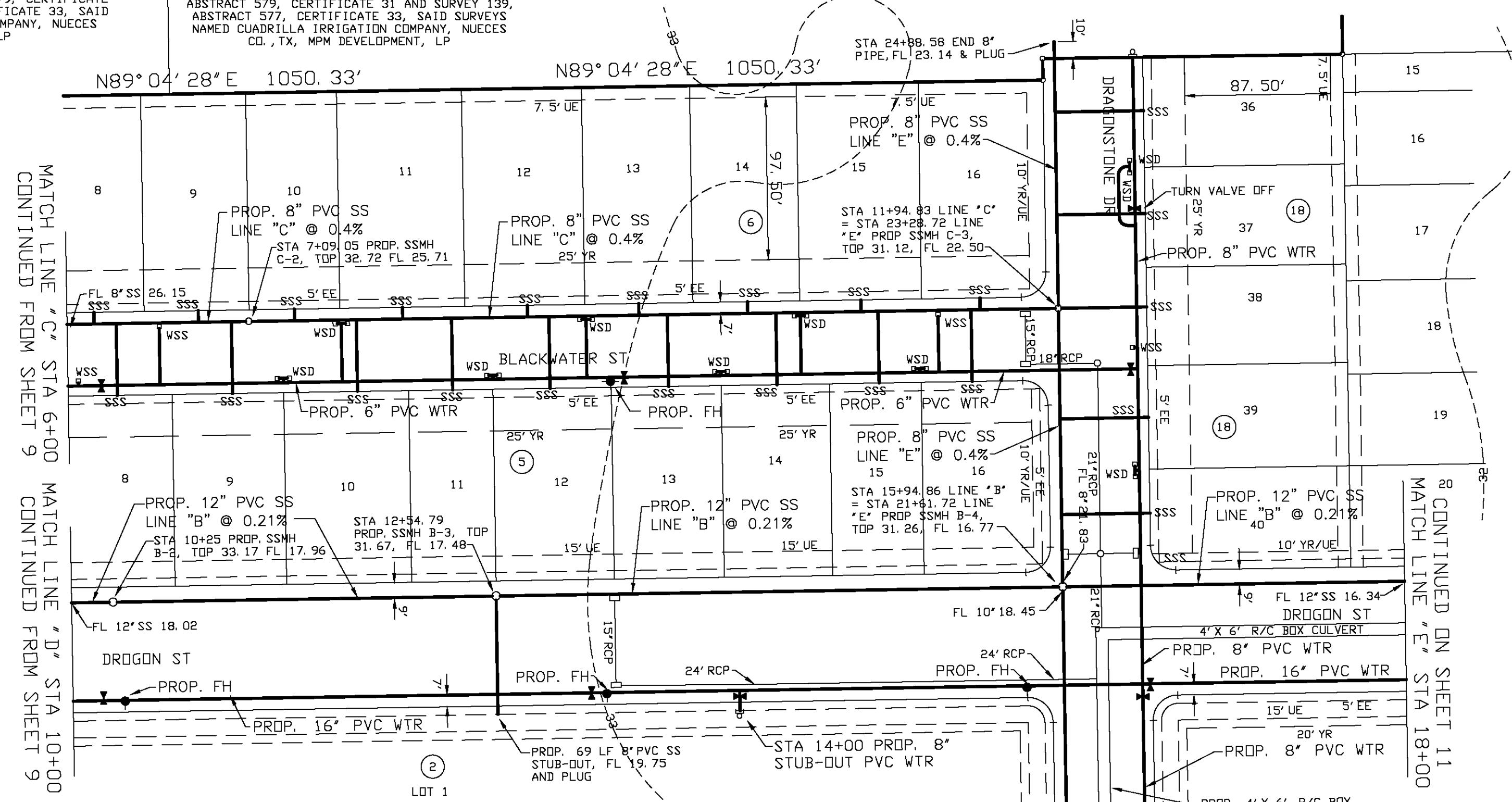
PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

SANITARY SEWER AND WATER PLAN AND PROFILE

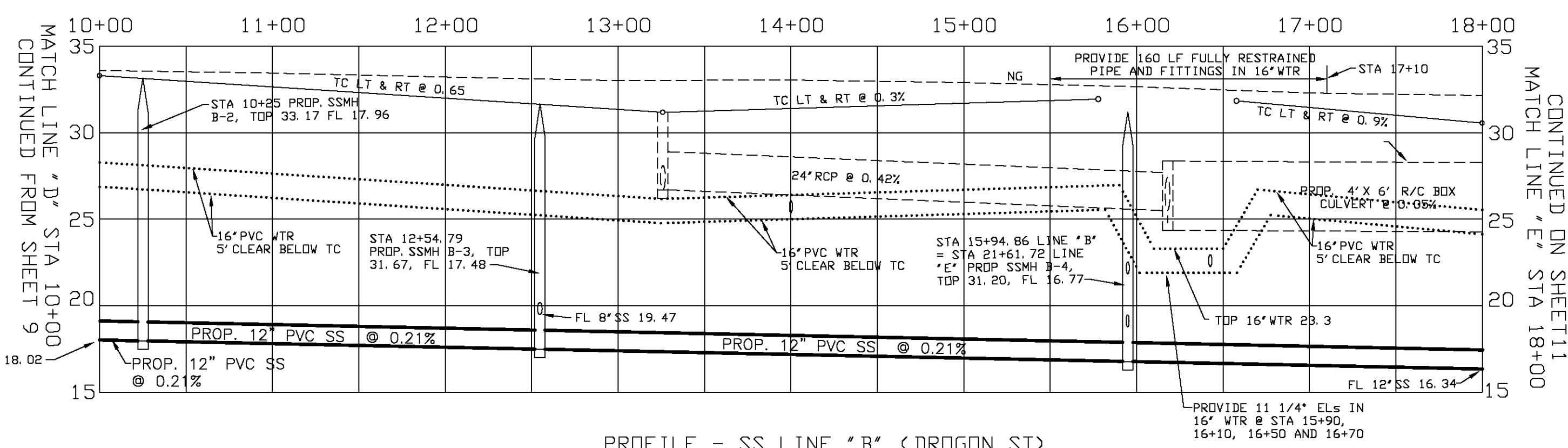
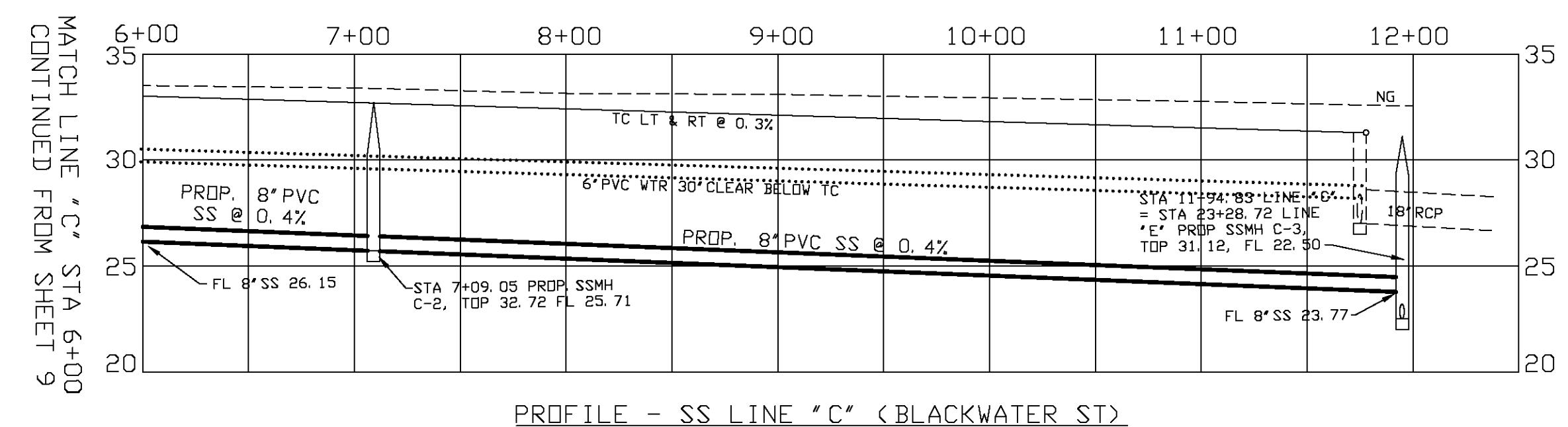
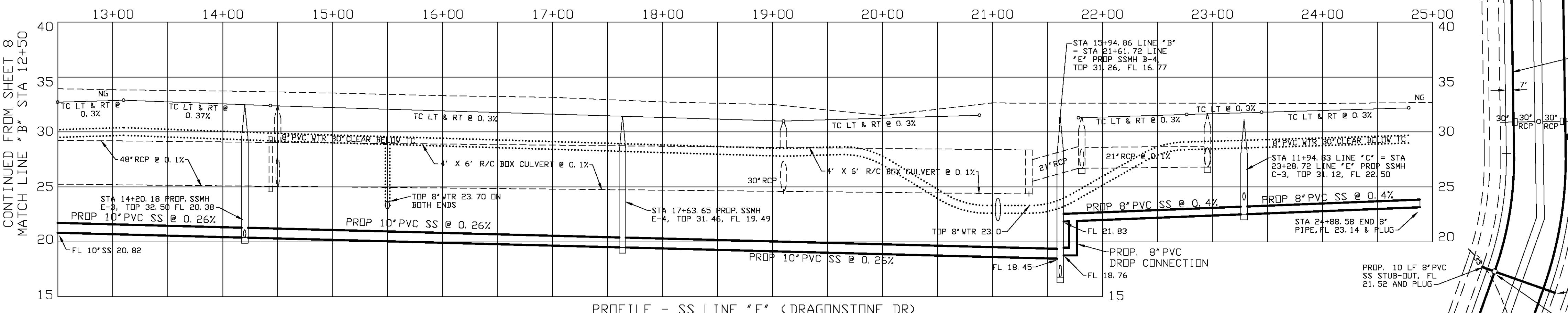
SANITARY SEWER AND WATER PLAN AND PROFILE

PORITION OF A 130.570 ACRE TRACT, DOC. NO.  
2019051482, D. R., A PORITION OF SURVEY 135 ABSTRACT 581,  
CERTIFICATE 29, SURVEY 137, ABSTRACT 579, CERTIFICATE  
31 AND SURVEY 139, ABSTRACT 577, CERTIFICATE 33, SAID  
SURVEYS NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO., TX, MPM DEVELOPMENT, LP

PORTION OF A 293.041 ACRE TRACT,  
DOC. NO. 2019035726, D.R., A PORTION OF SURVEY  
135 ABSTRACT 581, CERTIFICATE 29, SURVEY 137,  
ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139,  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS  
NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO., TX, MPM DEVELOPMENT, LP



25.00 AC. TRACT, DDC, NO.  
2008018783, D.R., LISD



25.00 AC. TRACT, DOC. NO.  
2008018783, D.R., LISD

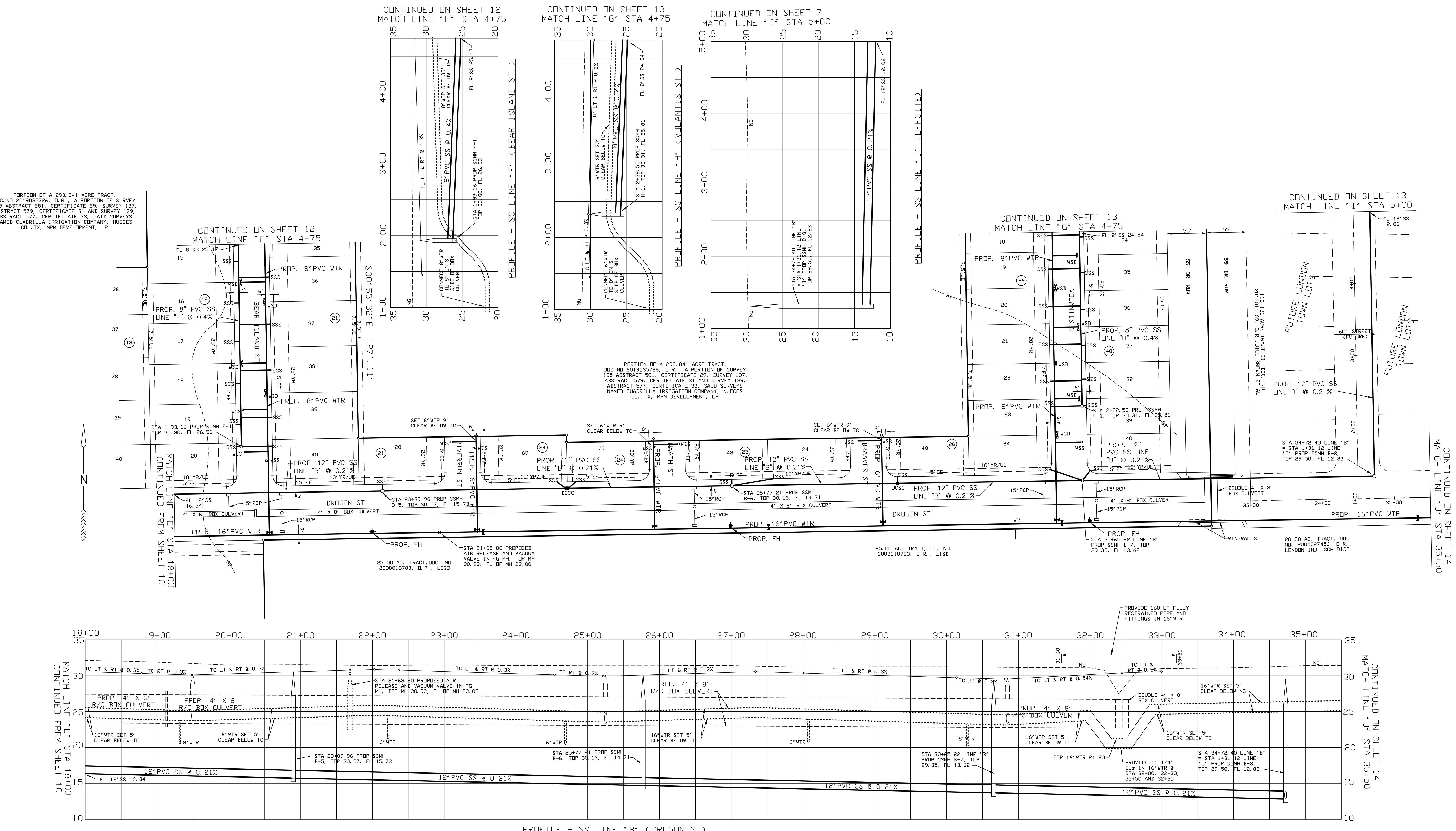
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BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1 CORPUS CHRISTI.

## SANITARY SEWER AND WATER PLAN AND PROFILE

N. _____	PLOT SCALE: <u>1" = 60'</u> SCALE (H): <u>SAME</u> SCALE (V): <u>NONE</u>	COM. NO. <u>PGD3 AS SSW</u> JOB NO. <u>08068</u>
K. <u>N. WELSH</u>	DATE PLOTTED <u>02/18/20</u>	SHEET <u>10</u> OF <u>33</u>



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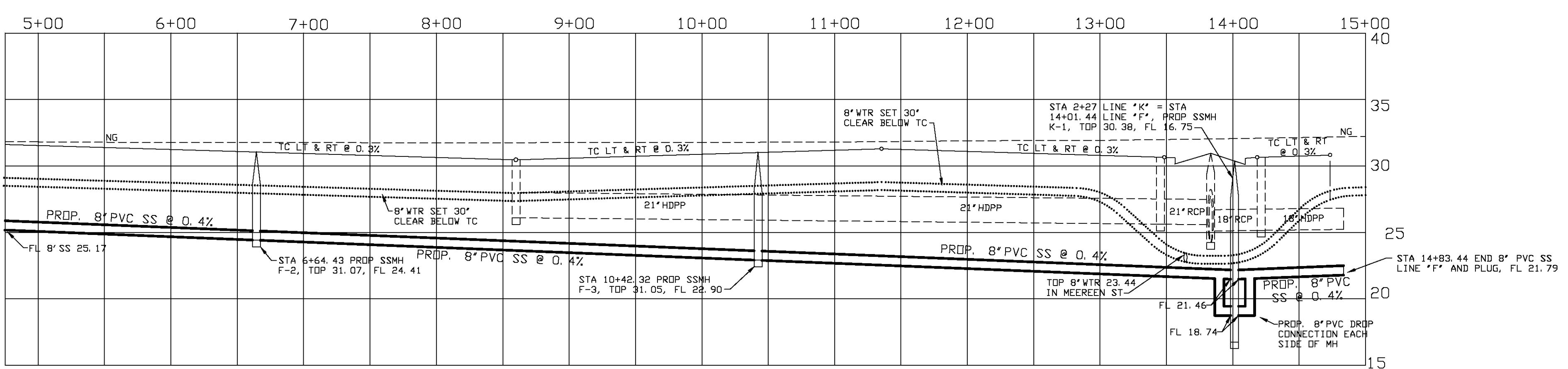
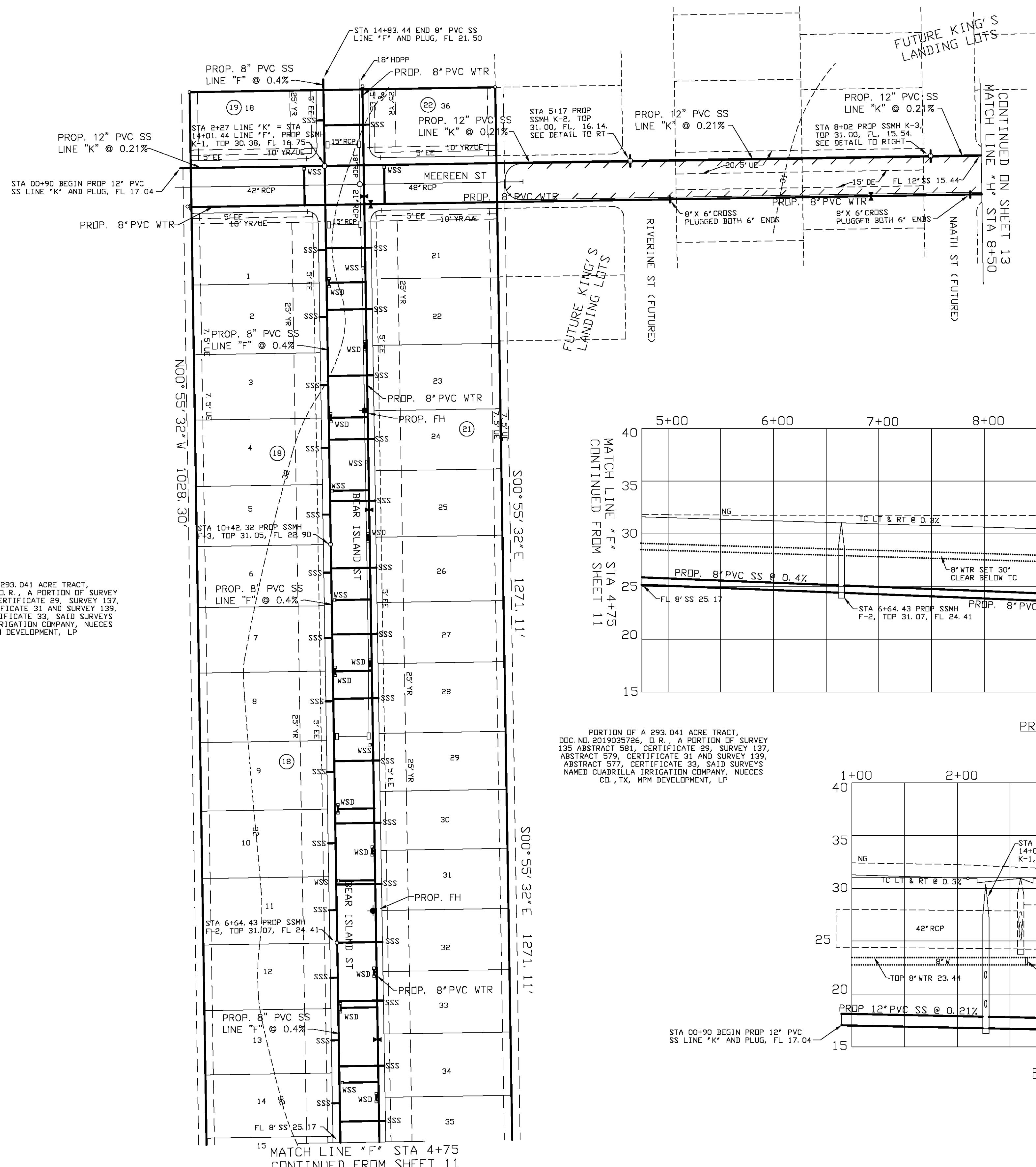
A scale bar diagram consisting of a horizontal line with tick marks. The first tick mark is labeled '0'. The second tick mark is labeled '30''. The third tick mark is labeled '60''. The fourth tick mark is labeled '120''. The distance between the '0' and '30'' marks is filled with black squares, representing 30 feet.

BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

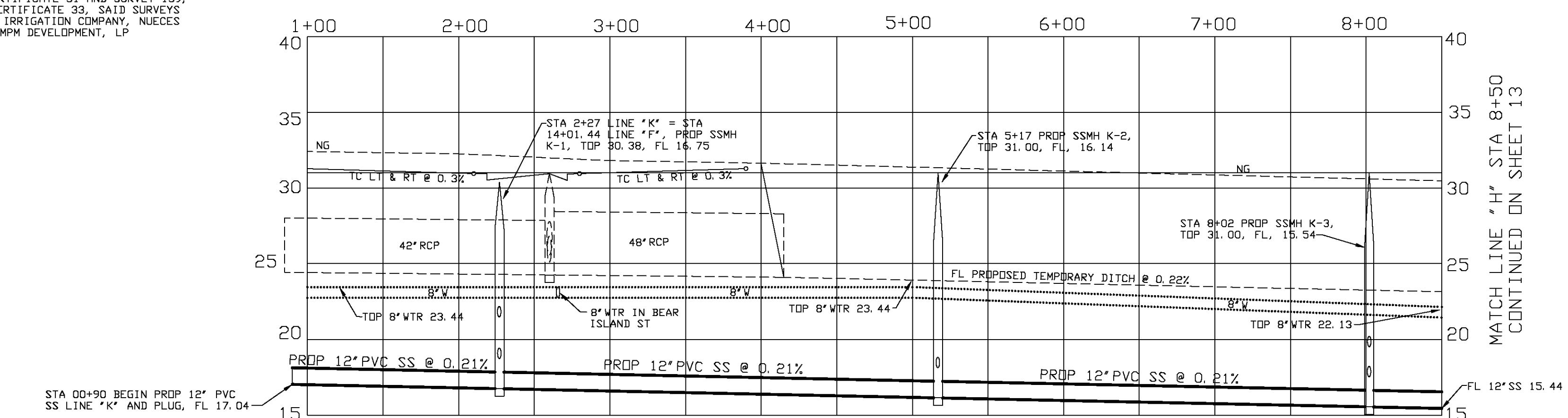
PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

SANITARY SEWER AND WATER PLAN AND PROFILE

PORTION OF A 293.041 ACRE TRACT,  
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35 ABSTRACT 581, CERTIFICATE 29, SURVEY 137,  
ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139,  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS  
NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO. TX MPM DEVELOPMENT LP

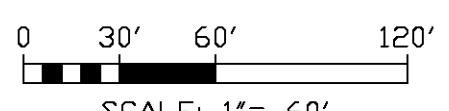


PROFILE - SS LINE "F" (BEAR ISLAND ST.)



PROFILE = PROPS LINE "K" (MEEFREN ST. AND PEESITE TO EAST)

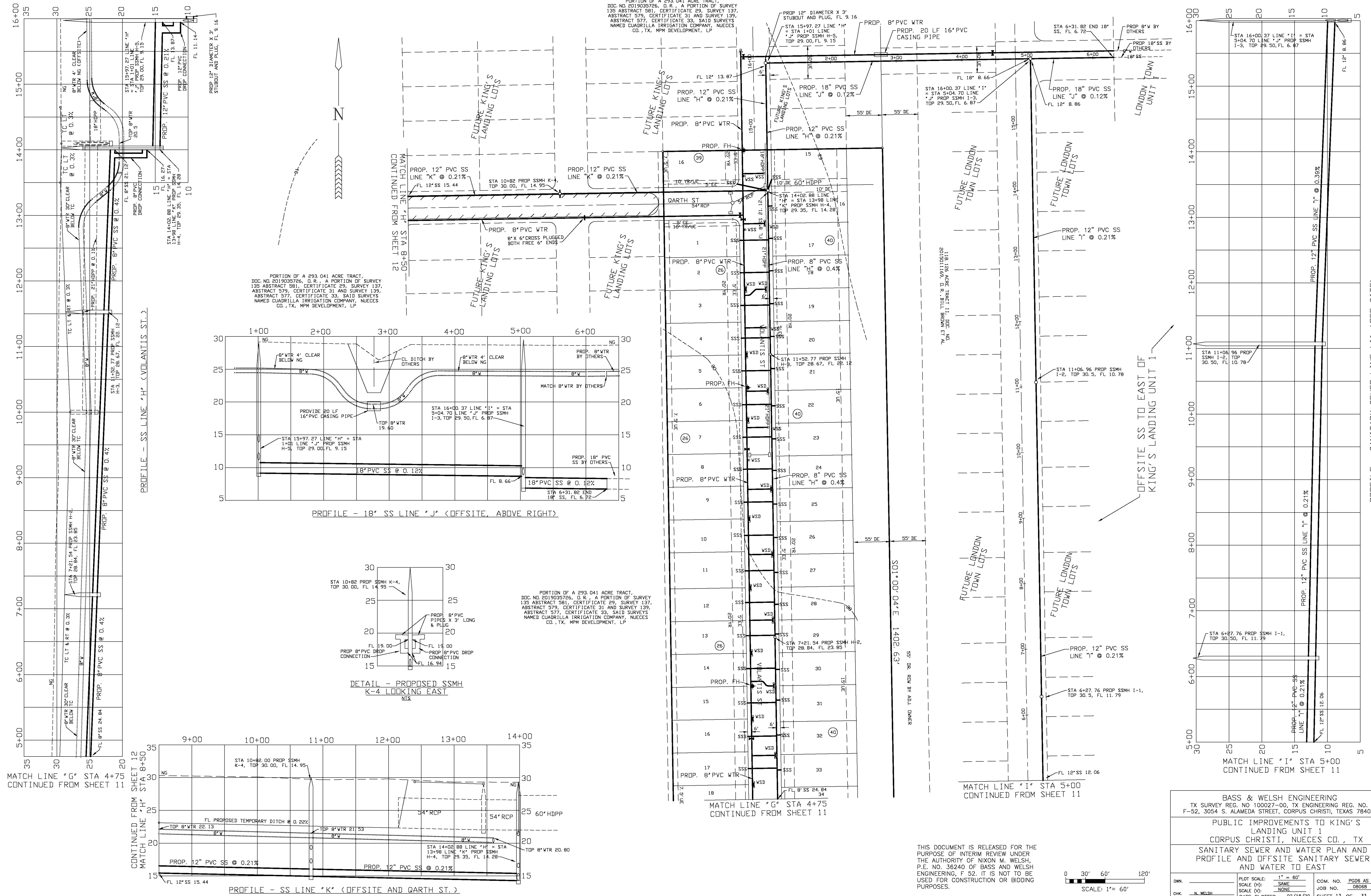
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BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

SANITARY SEWER AND WATER PLAN AND PROFILE





POLLUTION PREVENTION NOTES

- CONSTRUCTION ENTRANCE - CONSTRUCT A PROPOSED 28' X 30' CONSTRUCTION ENTRANCE CONSISTING OF AN AREA SURFACED WITH CRUSH STONE OR GRAVEL OF SIZE 2" TO 4". THE ENTRANCE SHALL BE LOCATED ON CROWN STREET, CORPUS CHRISTI, TEXAS. AND SHALL DIVERGE A LAYER OF FILTER CLOTH MEETING THE SAME REQUIREMENTS AS FOR SILT FENCE. CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE IN GOOD CONDITION THROUGHOUT THE DURATION OF THE PROJECT AND SHALL REMOVE MUD OR OTHER DEBRIS FROM THE CONSTRUCTION ENTRANCE PERIODICALLY DURING THE PROJECT.
- CONSTRUCTION EQUIPMENT TRACKING - CONTRACTORS SHALL ENSURE THAT NO MUD OR ANY OTHER DEBRIS IS TRACKED ONTO ANY PAVED STREETS IN THE AREA OF THIS PROJECT. SHOULD ANY MUD OR OTHER DEBRIS BE TRACKED ONTO PAVED STREETS, CONTRACTOR SHALL IMMEDIATELY CLEANUP SAME AT HIS OWN EXPENSE.
- SILT SCREENS - CONSTRUCT SILT SCREENS AT LOCATIONS AS SHOWN IN THE PLANS. ALL SILT SCREENS SHALL MEET THE REQUIREMENTS OF CITY STANDARD SPECIFICATION Q2240. THE FENCE LINE FENCE SHALL BE INSPECTED THROUGHOUT THE CONSTRUCTION PERIOD ON A WEEKLY BASIS AND SHALL BE REPAVED/REPLACED AS NECESSARY.
- SOLID WASTE DISPOSAL - ALL TRASH AND DEBRIS WILL BE HAULED TO AN APPROVED LANDFILL. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED AT THE JOB SITE.
- HAZARDOUS WASTE - NO HAZARDOUS WASTE IS EXPECTED TO BE GENERATED OR ENCOUNTERED IN THIS PROJECT. IN THE EVENT THAT HAZARDOUS WASTE IS ENCOUNTERED, ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS OR BY THE MANUFACTURER.
- SPILL PREVENTION - THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS. ALL CONTAINERS OF LIQUID MATERIALS SHALL BE STORED IN AN APPROPRIATE LOCATION. ONLY ENOUGH PRODUCT REQUIRED TO DO THIS JOB. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. SUBSTANCES WILL NOT BE MIXED WITH OTHER MATERIALS UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF THE PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE IN ORDER TO USE AND DISPOSAL OF MATERIALS ON SITE. FUELING OF CONSTRUCTION VEHICLES SHALL BE MADE A MINIMUM OF 200' AWAY FROM ANY DRAINAGE INLET OR SWALE.
- PAY FOR SILT SCREEN FENCES, STABILIZED CONSTRUCTION ENTRANCE AND ALL POLLUTION PREVENTION MEASURES OF ALL TYPES IN UNIT PRICE OF \$100.00 PER LINEAR FOOT.
- CONTRACTOR SHALL ENSURE DUST ON THE SITE IS CONTROLLED (NOT ALLOWED TO BLOW TO ADJACENT PROPERTY) BY DAMPENING DURING CONSTRUCTION.
- CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT ANYWHERE ON THE PROJECT SITE. USE OF CONCRETE TRUCKS FOR CONCRETE WASH OUT IN CONCRETE TRUCKS IS DISCHARGED AT A FACILITY ON THE CONSTRUCTION SITE THAT WILL RETAIN ALL CONCRETE WASH WATERS OR LEACHATES, INCLUDING ANY WASH WATERS OR LEACHATES MIXED WITH STORM WATER. CONCRETE WASH WATERS AND LEACHATES MAY NOT BE ALLOWED TO ENTER THE MUNICIPAL SEPARATE STORM SEWER SYSTEM. CITY STREETS, THE WATERS OF THE UNITED STATES, OR GROUND WATERS.
- NON-CONCRETE TRUCK VEHICLES SHALL BE WASHED AT THE STABILIZED CONSTRUCTION ENTRANCE IN A MANNER TO REMOVE ALL MUD AND DEBRIS FROM THE TIRES.
- THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT REQUIRES STABILIZATION MEASURES TO BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND MUST BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION IS TEMPORARILY OR PERMANENTLY CEASED. CONSTRUCTION TEMPORARILY CEASED - "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY, EXCEPT WHERE TEMPORARY STABILIZATION IS INFEASIBLE, ALL OF THE TEMPORARY CONTROLS ARE TO BE REMOVED. THE OPERATOR MUST DOCUMENT WHY STABILIZATION IS INEASIBLE AND DEMONSTRATE THAT PERMANENT CONTROLS WILL RETAIN STABILITY ON THE CONSTRUCTION PERMANENTLY CEASED - "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO MORE THAN 14 DAYS AFTER INITIATION, EXCEPT WHERE THE INITIATION OF PERMANENT STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

BALANCE OF 27.5 AC. TRACT, DOC. NO. 20306759, D.R., LISBON SPRINGS LOT 3, NIXON, TX 78372  
N 36° 54' 58.55" W 97° 42' 28.00"

S89° 05' 03" W  
159.34'  
1.25 AC. RCT.  
INC. ALAMANDA  
ND. 203067337.

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TX SURVEY REG. NO. 100027-00, TX ENGINEERING REG. NO. F-52, 2004 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404  
PUBLIC IMPROVEMENTS TO KING S  
LANDING UNIT 1 CORPUS CHRISTI,  
NUCES CO., TX

STORM WATER POLLUTION PREVENTION PLAN & ESTIMATE SUMMARY

STORM WATER POLLUTION PREVENTION PLAN & ESTIMATE SUMMARY

LOT 1	DIM.	LOT SCALE:	1" = 60'
	—	SCALE (ft):	—
CHK.	— N. WELSH	COM. NO.:	AS SWPP
		JOB NO.:	18068
		DATE PLOTTED:	02/19/20
		SHEET #:	15 OF 33

- CONSTRUCTION ENTRANCE - CONSTRUCT A PROPOSED 28' X 30' CONSTRUCTION ENTRANCE CONSISTING OF AN AREA SURFACED WITH CRUSH STONE OR GRAVEL OF SIZE 2" TO 4". THE ENTRANCE SHALL BE LOCATED ON CROWN STREET, CORPUS CHRISTI, TEXAS. AND SHALL DIVERGE A LAYER OF FILTER CLOTH MEETING THE SAME REQUIREMENTS AS FOR SILT FENCE. CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE IN GOOD CONDITION THROUGHOUT THE DURATION OF THE PROJECT AND SHALL REMOVE MUD OR OTHER DEBRIS FROM THE CONSTRUCTION ENTRANCE PERIODICALLY DURING THE PROJECT.
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- PAY FOR SILT SCREEN FENCES, STABILIZED CONSTRUCTION ENTRANCE AND ALL POLLUTION PREVENTION MEASURES OF ALL TYPES IN UNIT PRICE OF \$100.00 PER LINEAR FOOT.
- CONTRACTOR SHALL ENSURE DUST ON THE SITE IS CONTROLLED (NOT ALLOWED TO BLOW TO ADJACENT PROPERTY) BY DAMPENING DURING CONSTRUCTION.
- CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT ANYWHERE ON THE PROJECT SITE. USE OF CONCRETE TRUCKS FOR CONCRETE WASH OUT IN CONCRETE TRUCKS IS DISCHARGED AT A FACILITY ON THE CONSTRUCTION SITE THAT WILL RETAIN ALL CONCRETE WASH WATERS OR LEACHATES, INCLUDING ANY WASH WATERS OR LEACHATES MIXED WITH STORM WATER. CONCRETE WASH WATERS AND LEACHATES MAY NOT BE ALLOWED TO ENTER THE MUNICIPAL SEPARATE STORM SEWER SYSTEM. CITY STREETS, THE WATERS OF THE UNITED STATES, OR GROUND WATERS.
- NON-CONCRETE TRUCK VEHICLES SHALL BE WASHED AT THE STABILIZED CONSTRUCTION ENTRANCE IN A MANNER TO REMOVE ALL MUD AND DEBRIS FROM THE TIRES.
- THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT REQUIRES STABILIZATION MEASURES TO BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND MUST BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION IS TEMPORARILY OR PERMANENTLY CEASED. CONSTRUCTION TEMPORARILY CEASED - "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY, EXCEPT WHERE TEMPORARY STABILIZATION IS INFEASIBLE, ALL OF THE TEMPORARY CONTROLS ARE TO BE REMOVED. THE OPERATOR MUST DOCUMENT WHY STABILIZATION IS INEASIBLE AND DEMONSTRATE THAT PERMANENT CONTROLS WILL RETAIN STABILITY ON THE CONSTRUCTION PERMANENTLY CEASED - "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO MORE THAN 14 DAYS AFTER INITIATION, EXCEPT WHERE THE INITIATION OF PERMANENT STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

- CONSTRUCTION ENTRANCE - CONSTRUCT A PROPOSED 28' X 30' CONSTRUCTION ENTRANCE CONSISTING OF AN AREA SURFACED WITH CRUSH STONE OR GRAVEL OF SIZE 2" TO 4". THE ENTRANCE SHALL BE LOCATED ON CROWN STREET, CORPUS CHRISTI, TEXAS. AND SHALL DIVERGE A LAYER OF FILTER CLOTH MEETING THE SAME REQUIREMENTS AS FOR SILT FENCE. CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE IN GOOD CONDITION THROUGHOUT THE DURATION OF THE PROJECT AND SHALL REMOVE MUD OR OTHER DEBRIS FROM THE CONSTRUCTION ENTRANCE PERIODICALLY DURING THE PROJECT.
- CONSTRUCTION EQUIPMENT TRACKING - CONTRACTORS SHALL ENSURE THAT NO MUD OR ANY OTHER DEBRIS IS TRACKED ONTO ANY PAVED STREETS IN THE AREA OF THIS PROJECT. SHOULD ANY MUD OR OTHER DEBRIS BE TRACKED ONTO PAVED STREETS, CONTRACTOR SHALL IMMEDIATELY CLEANUP SAME AT HIS OWN EXPENSE.
- SILT SCREENS - CONSTRUCT SILT SCREENS AT LOCATIONS AS SHOWN IN THE PLANS. ALL SILT SCREENS SHALL MEET THE REQUIREMENTS OF CITY STANDARD SPECIFICATION Q2240. THE FENCE LINE FENCE SHALL BE INSPECTED THROUGHOUT THE CONSTRUCTION PERIOD ON A WEEKLY BASIS AND SHALL BE REPAVED/REPLACED AS NECESSARY.
- SOLID WASTE DISPOSAL - ALL TRASH AND DEBRIS WILL BE HAULED TO AN APPROVED LANDFILL. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED AT THE JOB SITE.
- HAZARDOUS WASTE - NO HAZARDOUS WASTE IS EXPECTED TO BE GENERATED OR ENCOUNTERED IN THIS PROJECT. IN THE EVENT THAT HAZARDOUS WASTE IS ENCOUNTERED, ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS OR BY THE MANUFACTURER.
- SPILL PREVENTION - THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS. ALL CONTAINERS OF LIQUID MATERIALS SHALL BE STORED IN AN APPROPRIATE LOCATION. ONLY ENOUGH PRODUCT REQUIRED TO DO THIS JOB. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. SUBSTANCES WILL NOT BE MIXED WITH OTHER MATERIALS UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF THE PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE IN ORDER TO USE AND DISPOSAL OF MATERIALS ON SITE. FUELING OF CONSTRUCTION VEHICLES SHALL BE MADE A MINIMUM OF 200' AWAY FROM ANY DRAINAGE INLET OR SWALE.
- PAY FOR SILT SCREEN FENCES, STABILIZED CONSTRUCTION ENTRANCE AND ALL POLLUTION PREVENTION MEASURES OF ALL TYPES IN UNIT PRICE OF \$100.00 PER LINEAR FOOT.
- CONTRACTOR SHALL ENSURE DUST ON THE SITE IS CONTROLLED (NOT ALLOWED TO BLOW TO ADJACENT PROPERTY) BY DAMPENING DURING CONSTRUCTION.
- CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT ANYWHERE ON THE PROJECT SITE. USE OF CONCRETE TRUCKS FOR CONCRETE WASH OUT IN CONCRETE TRUCKS IS DISCHARGED AT A FACILITY ON THE CONSTRUCTION SITE THAT WILL RETAIN ALL CONCRETE WASH WATERS OR LEACHATES, INCLUDING ANY WASH WATERS OR LEACHATES MIXED WITH STORM WATER. CONCRETE WASH WATERS AND LEACHATES MAY NOT BE ALLOWED TO ENTER THE MUNICIPAL SEPARATE STORM SEWER SYSTEM. CITY STREETS, THE WATERS OF THE UNITED STATES, OR GROUND WATERS.
- NON-CONCRETE TRUCK VEHICLES SHALL BE WASHED AT THE STABILIZED CONSTRUCTION ENTRANCE IN A MANNER TO REMOVE ALL MUD AND DEBRIS FROM THE TIRES.
- THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT REQUIRES STABILIZATION MEASURES TO BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND MUST BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION IS TEMPORARILY OR PERMANENTLY CEASED. CONSTRUCTION TEMPORARILY CEASED - "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY, EXCEPT WHERE TEMPORARY STABILIZATION IS INFEASIBLE, ALL OF THE TEMPORARY CONTROLS ARE TO BE REMOVED. THE OPERATOR MUST DOCUMENT WHY STABILIZATION IS INEASIBLE AND DEMONSTRATE THAT PERMANENT CONTROLS WILL RETAIN STABILITY ON THE CONSTRUCTION PERMANENTLY CEASED - "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO MORE THAN 14 DAYS AFTER INITIATION, EXCEPT WHERE THE INITIATION OF PERMANENT STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

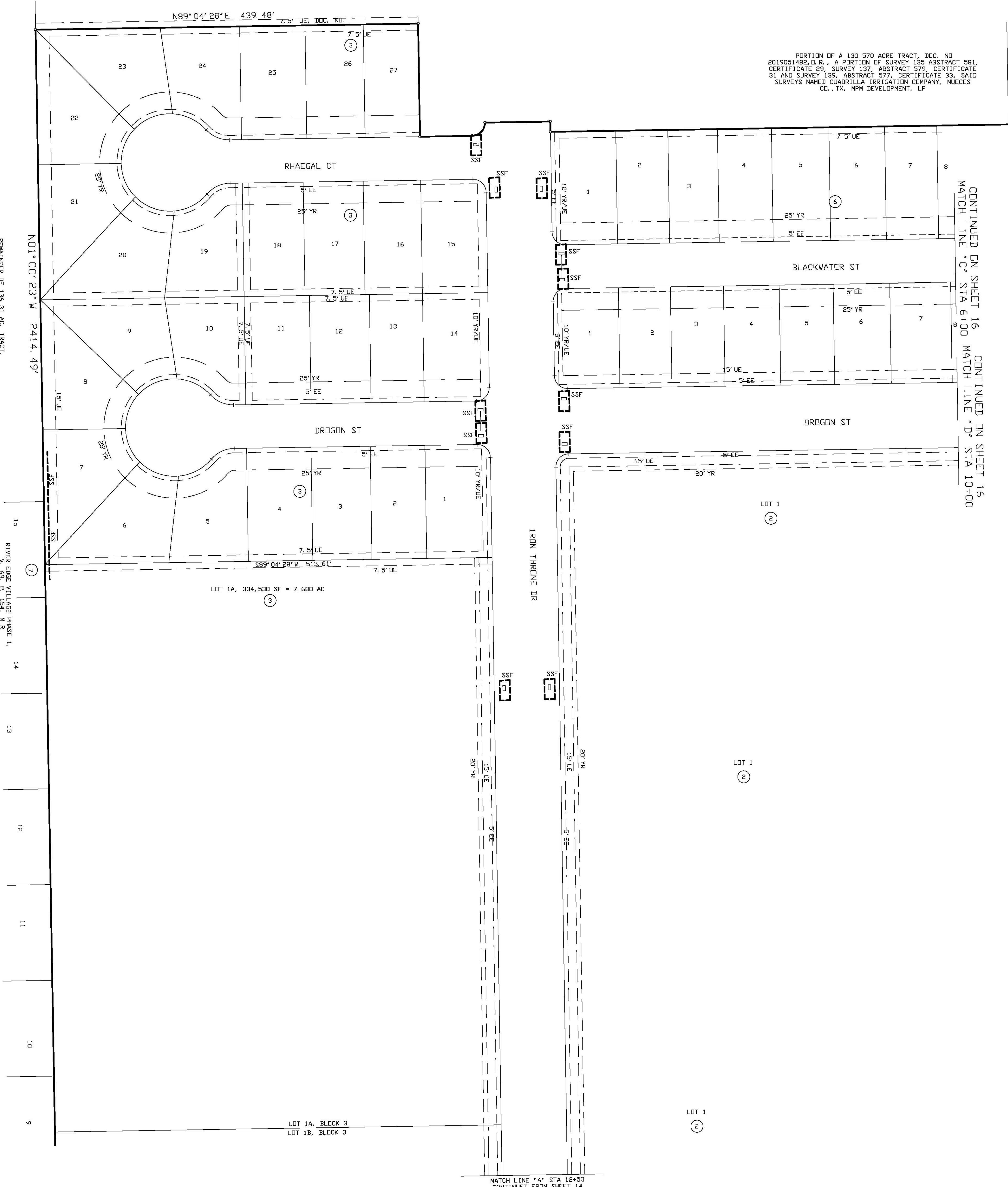
ESTIMATE SUMMARY

WATER GRID MAIN ITEMS REIMBURSABLE BY CITY			
ITEM	DESCRIPTION	QUANTITY	UNIT
1	16' PVC PIPE	5665	LF
2	16' TAPPING SADDLE &	2	EA
3	16' TAPPING GATE VALVE W/BOX	23	EA
4	16' GATE VALVE W/BOX	12	EA
5	16' CROSS	3	EA
6	16' EL, ANY ANGLE	21	EA
7	16' X 12' REDUCER	1	EA
8	DEWATERING FOR 16' PVC PIPE	1150	LF
9	TRENCH SAFETY FOR 12' & 16' PIPES	6041	LF
10	12' GATE VALVE W/BOX	2	EA
11	12' TEE	5	EA
12	12' PVC PIPE	376	LF
13	12' CAP TAPPED FOR 2"	1	EA
14	AIR RELEASE AND VACUUM VALVE IN FG MH	2	EA
15	FIRE HYDRANT ASSEMBLY	17	EA
16	6' X 30' PVC PIPE NIPPLE	54	EA
17	6' 90° EL	17	EA
18	6' GATE VALVE W/BOX	17	EA

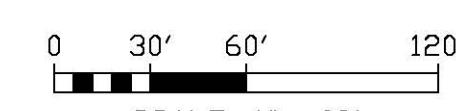
OFFSITE WATER DISTRIBUTION MAIN ITEMS (REIMBURSABLE BY CITY)			
ITEM	DESCRIPTION	QUANTITY	UNIT
1	16" PVC CASING PIPE	10	LF
2	8" PVC PIPE	356	LF
3	8" GATE VALVE W/BOX	1	EA

ONSITE WATER ITEMS (EXCLUDING 12"/16" GRID MAIN ITEMS & 8" OFFSITE WATER ITEMS NEAR NORTHEAST CORNER UNIT 1 PLAT)			
ITEM	DESCRIPTION	QUANTITY	UNIT
1	16" PVC PIPE	10	LF
2	16" TAPPING SADDLE W/6" OR 8" TAPPING GATE VALVE W/BOX	7	EA
3	8" PVC PIPE	7247	LF
4	8" CAP TAPPED FOR 2"	16	EA
5	8" GATE VALVE W/BOX	23	EA
6	8" TEE	18	EA
7	8" EL, ANY ANGLE	5	EA
8	8" CROSS	7	EA
9	FIRE HYDRANT ASSEMBLY	22	EA
10	6" PVC PIPE	2371	LF
11	6" EL, ANY ANGLE	25	EA
12	6" X 30' PVC PIPE NIPPLE	66	EA
13	6" GATE VALVE W/BOX	30	EA
14	6" CAP TAPPED FOR 2"	5	EA
15	WATER SERVICE, SINGLE	29	EA
16	WATER SERVICE, DOUBLE	68	EA

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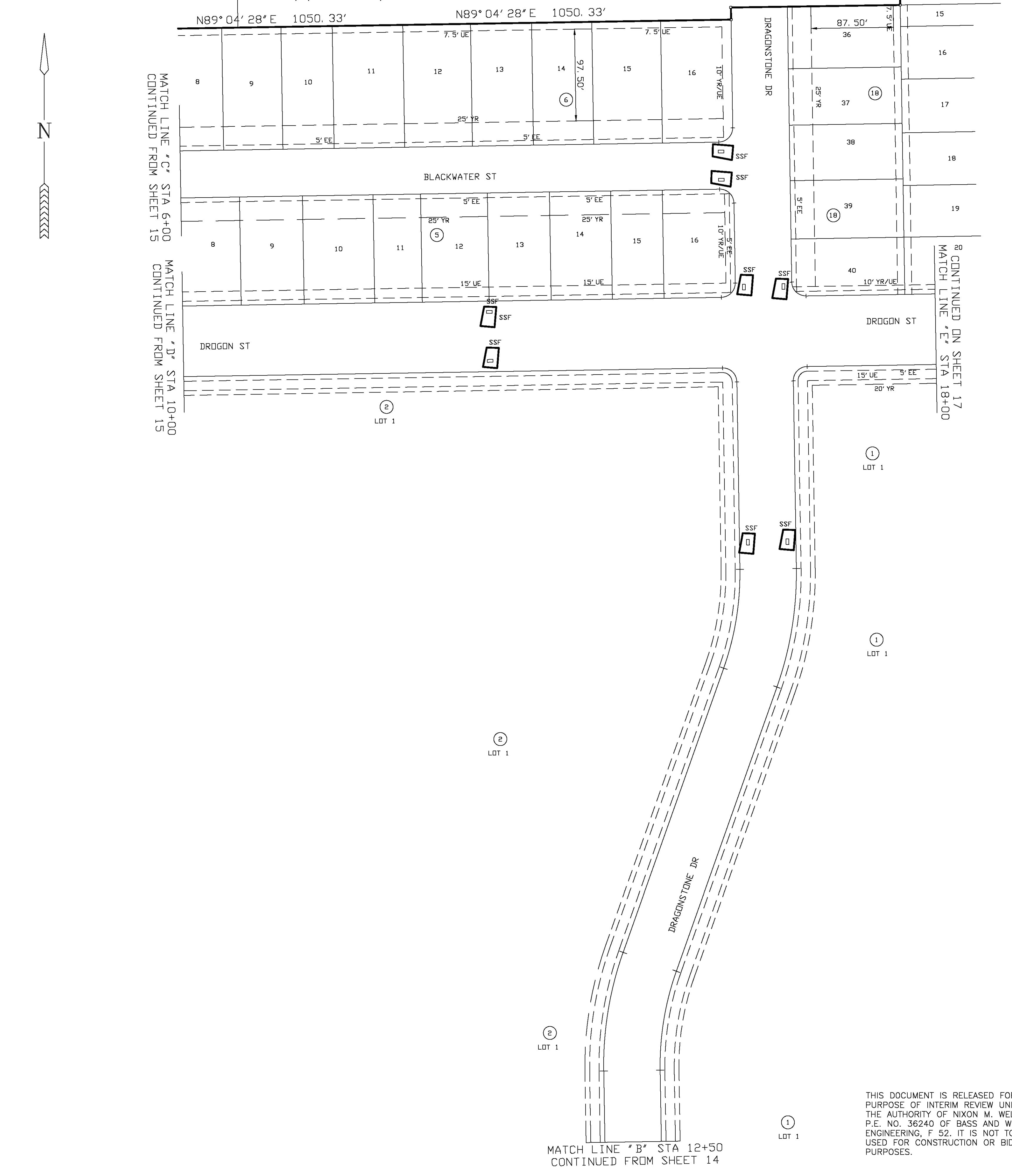
BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

STORM WATER POLLUTION PREVENTION PLAN

PORTION OF A 130.570 ACRE TRACT, DOC. NO.  
2019051482, D. R., A PORTION OF SURVEY 135 ABSTRACT 581,  
CERTIFICATE 29, SURVEY 137, ABSTRACT 579, CERTIFICATE  
31 AND SURVEY 139, ABSTRACT 577, CERTIFICATE 33, SAID  
SURVEYS NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO., TX, MPM DEVELOPMENT, LP

PORTION OF A 293.041 ACRE TRACT,  
DOC. NO. 2019035726, D.R., A PORTION OF SURVEY  
135 ABSTRACT 581, CERTIFICATE 29, SURVEY 137,  
ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139,  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS  
NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO., TX, MPM DEVELOPMENT, LP



25.00 AC. TRACT, DDC, NO.  
2008018783, D.R., LISD

25.00 AC. TRACT, DOC. NO.  
2008018783, D.R., LISD

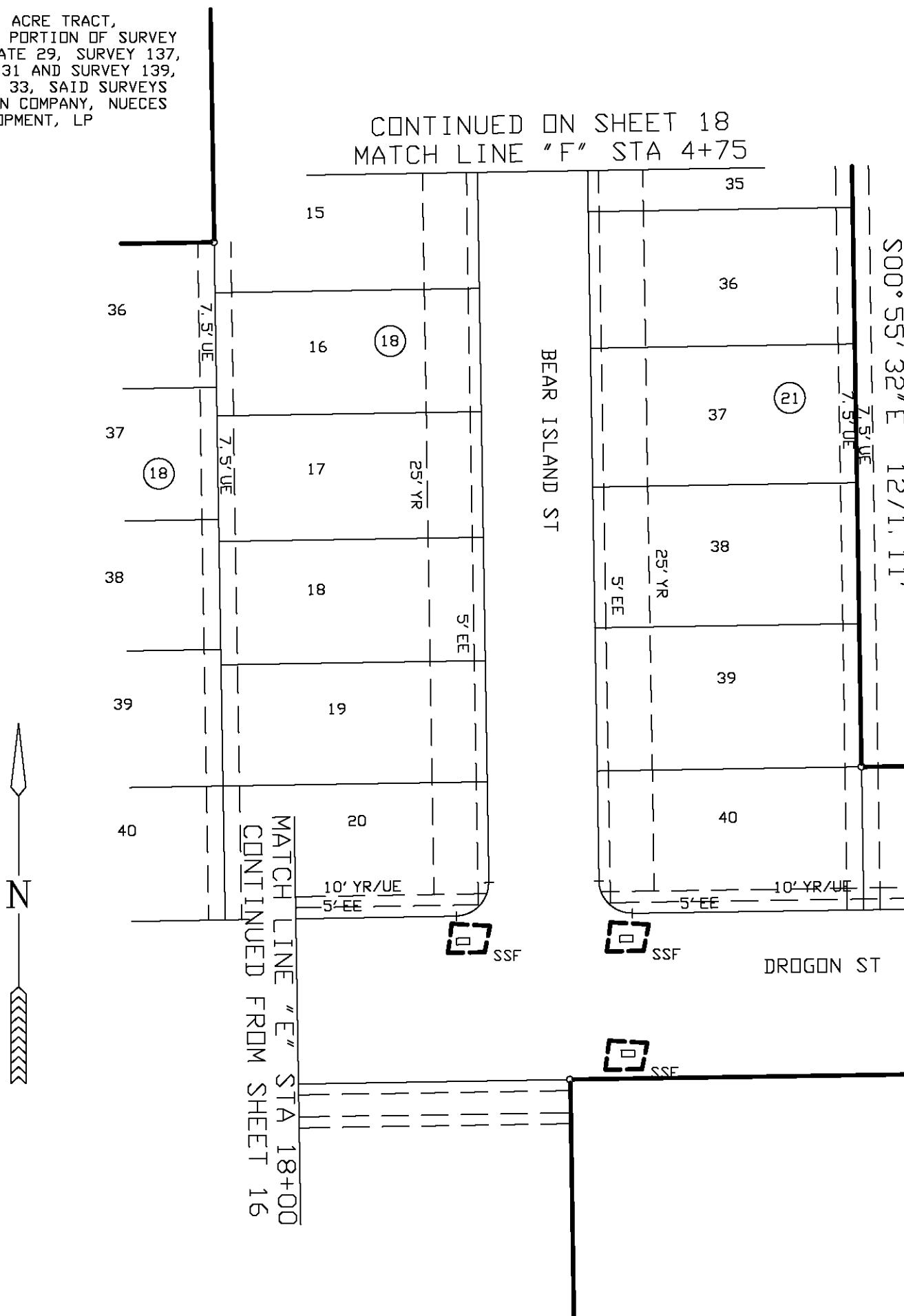
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BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
E-52 3054 S ALAMEDA STREET CORPUS CHRISTI TEXAS 78404

PUBLIC IMPROVEMENTS TO KING' S  
LANDING UNIT 1 CORPUS CHRISTI,  
NUECES CO., TX

STORM WATER POLLUTION PREVENTION PLAN		
	PLOT SCALE: <u>1" = 60'</u> SCALE (H): <u>SAME</u> SCALE (V): <u>NONE</u>	COM. NO. <u>PGD3 AS SWPPP</u> JOB NO. <u>08068</u> SHEET <u>17</u> OF <u>33</u>
<u>N. WELSH</u>	DATE PLOTTED <u>02/18/20</u>	

PORTION OF A 280.041 ACRE TRACT  
DOC. NO. 2019035726, D.R., A PORTION OF SURVEY  
135 ABSTRACT 581, CERTIFICATE 29, SURVEY 137,  
ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139,  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS  
NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO., TX, MPM DEVELOPMENT, LP

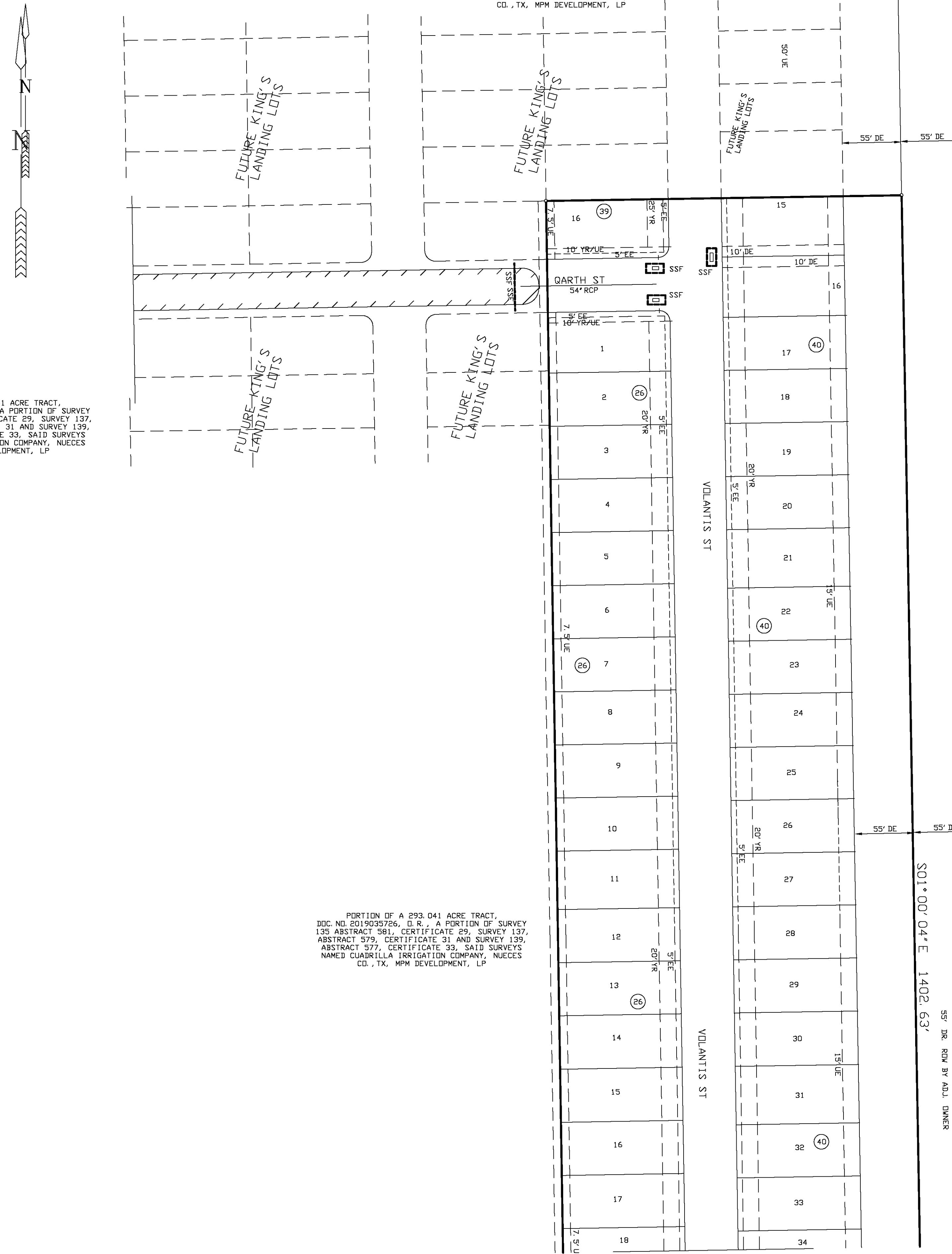




PORTION OF A 293.041 ACRE TRACT,  
DOC. NO. 2019035726, D. R., A PORTION OF SURVEY  
135 ABSTRACT 581, CERTIFICATE 29, SURVEY 137,  
ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139,  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS  
NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO., TX, MPM DEVELOPMENT, LP |

PORTION OF A 293.041 ACRE TRACT,  
DOC. NO. 2019035726, D. R., A PORTION OF SURVEY  
135 ABSTRACT 581, CERTIFICATE 29, SURVEY 1  
ABSTRACT 579, CERTIFICATE 31 AND SURVEY 1  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEY  
NAMED CUADRILLA IRRIGATION COMPANY, NUECE  
CO., TX, MPM DEVELOPMENT, LP

PORTION OF A 293.041 ACRE TRACT,  
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ABSTRACT 579, CERTIFICATE 31 AND SURVEY 139  
ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS  
NAMED CUADRILLA IRRIGATION COMPANY, NUECES  
CO., TX, MPM DEVELOPMENT, LP



MATCH LINE "G" STA 4+75  
CONTINUED FROM SHEET 17

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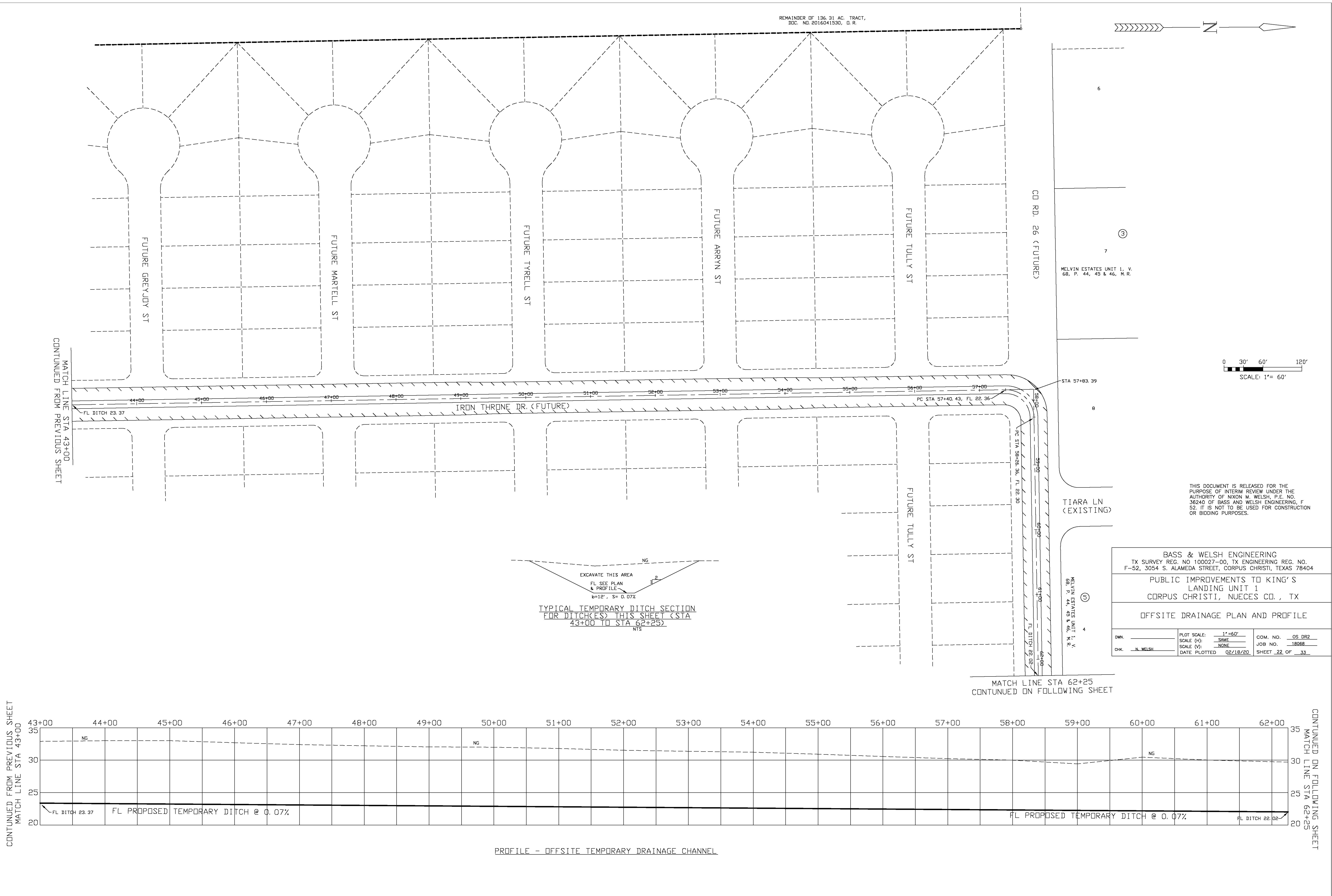


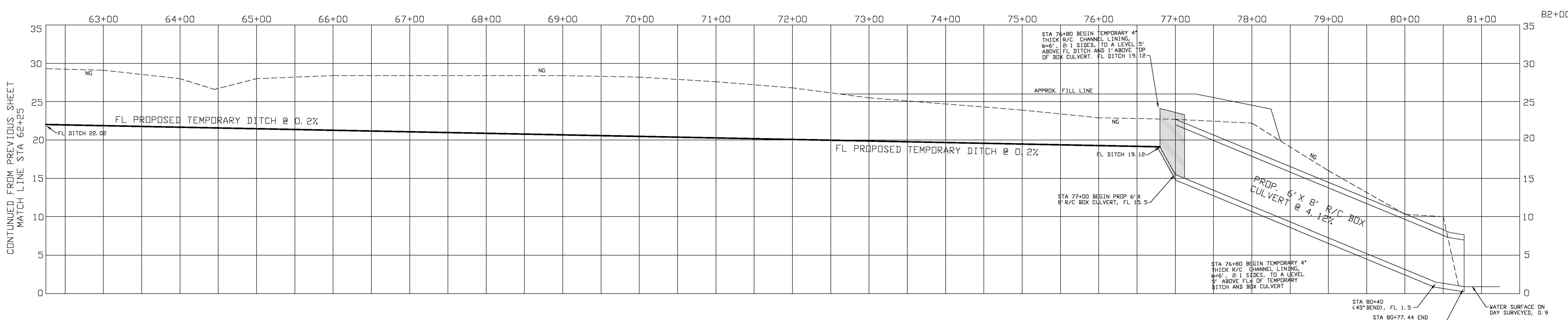
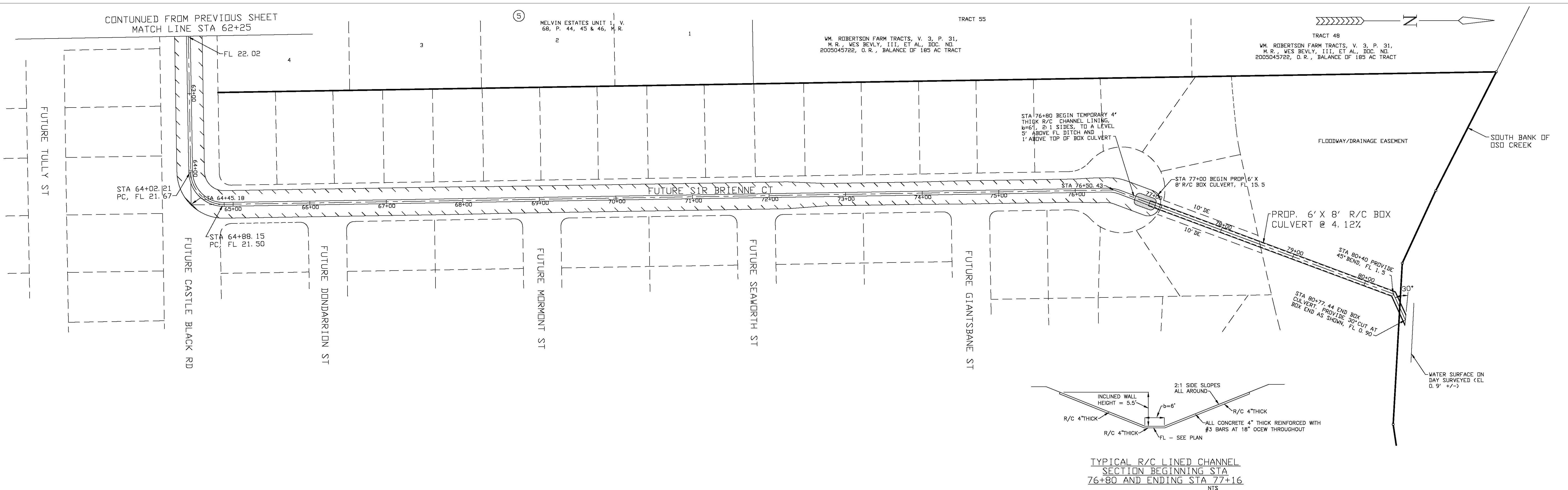
BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

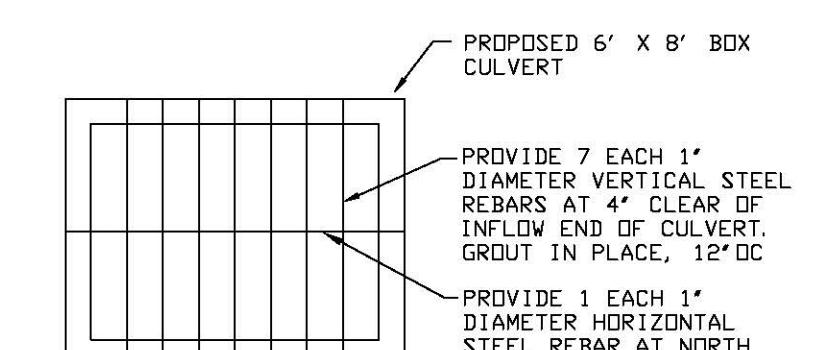
STORM WATER POLLUTION PREVENTION PLAN







PROFILE = OFFSITE TEMPORARY DRAINAGE CHANNEL



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36240 OF BASS AND WELSH ENGINEERING, F  
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OR BIDDING PURPOSES.

TYPICAL TEMPORARY DITCH SECTION  
FOR DITCH(ES) THIS SHEET (STA  
62+25 TO STA 76+80)  
N.T.S.

NOTE: USE THIS DETAIL AT DRAINAGE FLOW  
ENTRY INTO 6' X 8' BOX CULVERT AT OFFSITE  
DRAINAGE STATION 77+00 (THIS SHEET).

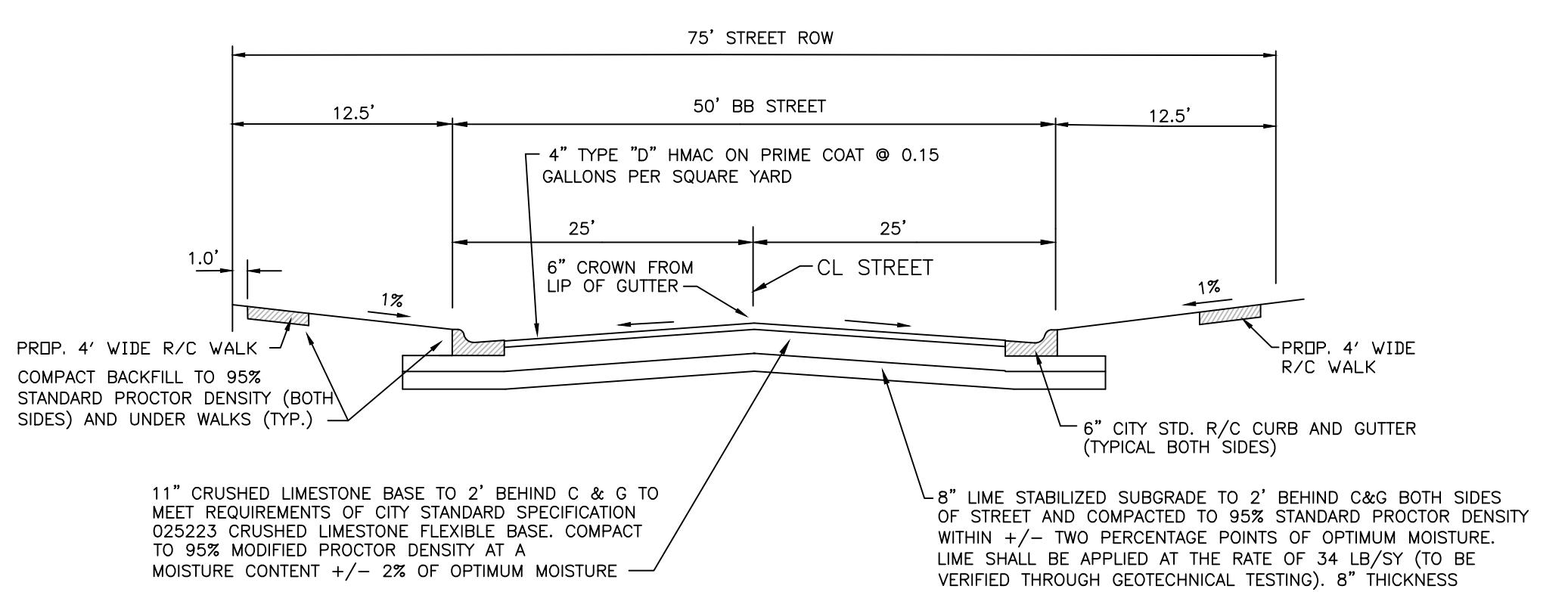
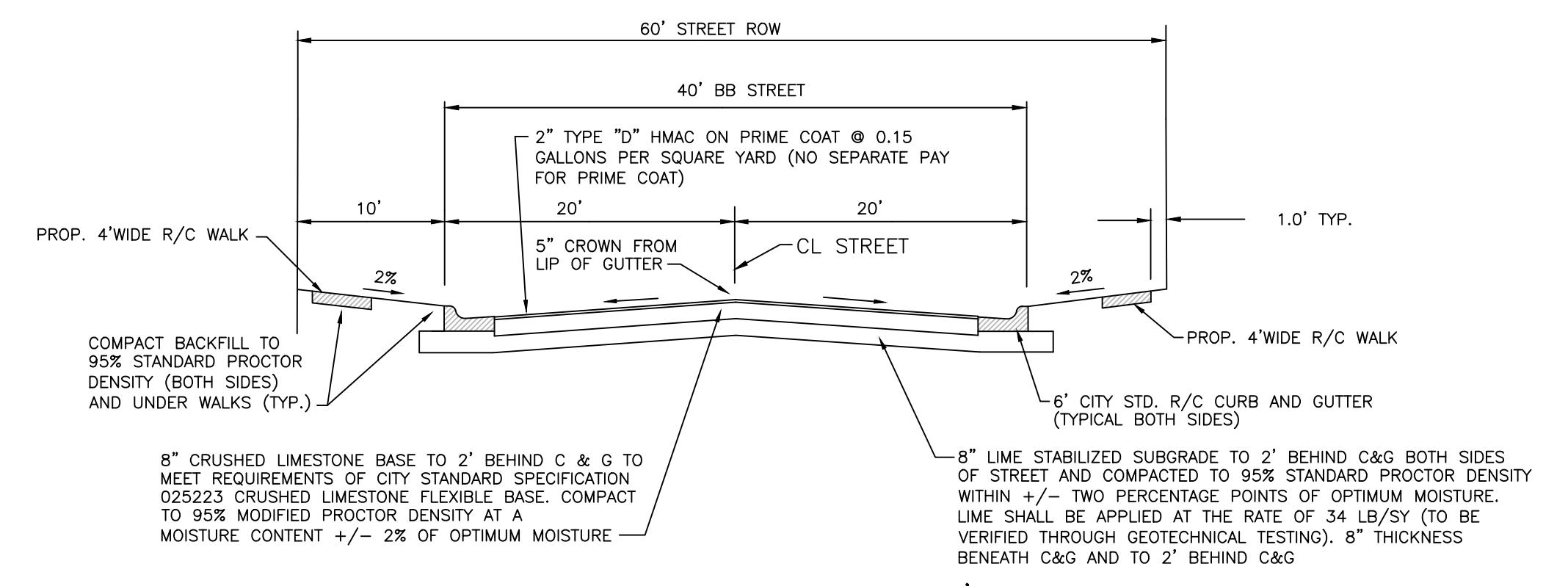
DETAIL - REBAR INSTALLATION AT  
DRAINAGE ENTRY INTO PROPOSED 6' X 8'  
BOX CULVERT

A horizontal scale bar with tick marks at 0, 30', 60', and 120'. The first three segments are each 15' long, while the final segment is 30' long.

BASS & WELSH ENGINEERING  
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.  
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404

PUBLIC IMPROVEMENTS TO KING'S  
LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

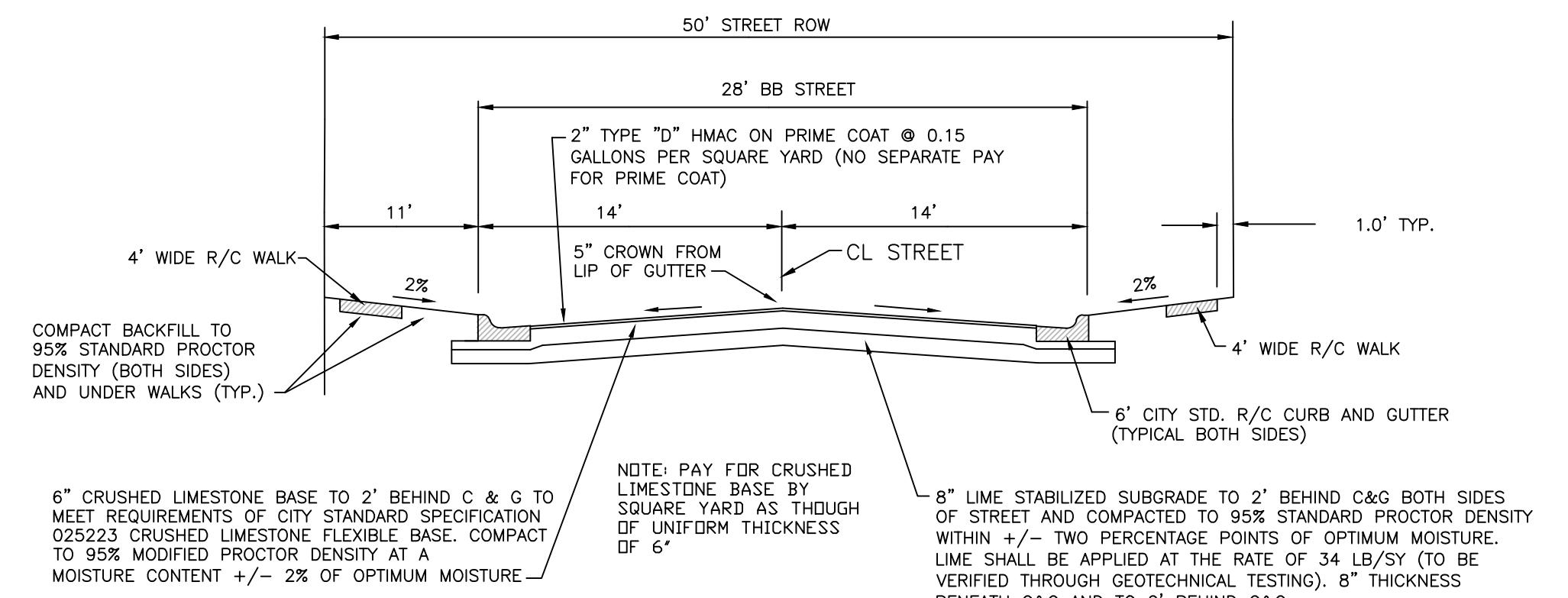
OFFSITE DRAINAGE PLAN AND PROFILE



NOTES:

- PAY FOR CRUSHED LIMESTONE BASE AS 11" THICKNESS THROUROUGH REGARDLESS OF 4" MINIMUM DEPTH IN SOME AREAS.
- CRUSHED LIMESTONE BASE AND LIME STABILIZED SUBGRADE SHALL EXTEND TO 2' BC AS FOR TYPICAL SECTION HEREOF.

**TYPICAL STREET SECTION – 75' ROW**



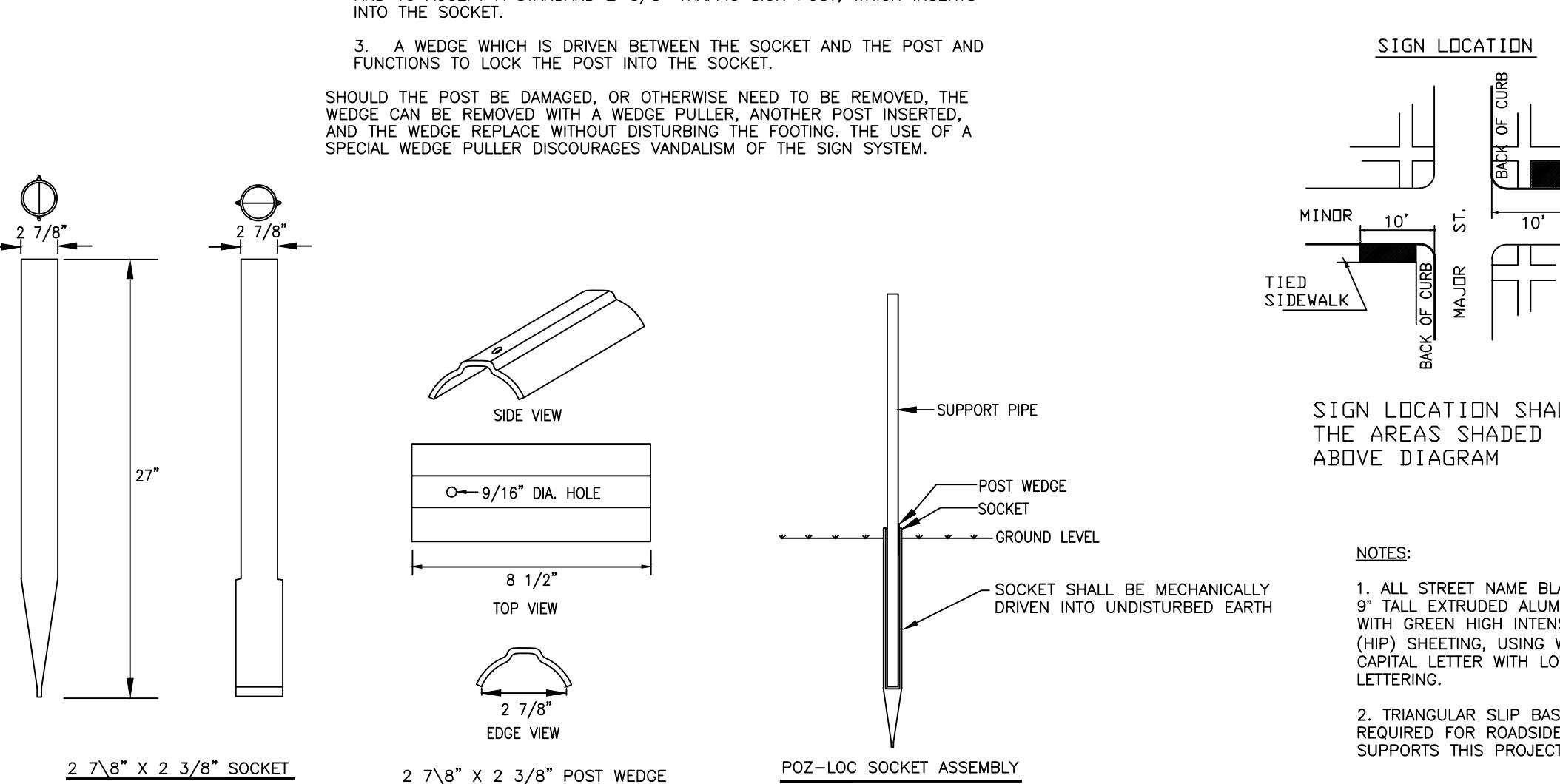
NOTE: PAY FOR CRUSHED LIMESTONE BASE AS THOUGH UNIFORM THICKNESS OF 6"

**POZ-LOC SIGN SUPPORT POST AND SOCKET SYSTEM**

THE POZ-LOC SIGN SUPPORT POST ANCHOR SYSTEM IS A TUBULAR SOCKET SYSTEM DESIGNED TO BE USED FOR TYPE I SMALL TRAFFIC SIGN SUPPORTS. THE ASSEMBLY CONSIST OF:

- A GALVANIZED 2-3/8" O.D. TRAFFIC SIGN POST WITH A MINIMUM WALL THICKNESS OF .065".
- A TUBULAR SOCKET 2-7/8" O.D. X 12 GA. WALL THICKNESS X 27" LONG. THE SOCKET IS POINTED TO FACILITATE DRIVING INTO THE GROUND AND INTO THE SOCKET.
- A WEDGE WHICH IS DRIVEN BETWEEN THE SOCKET AND THE POST AND FUNCTIONS TO LOCK THE POST INTO THE SOCKET.

SHOULD THE POST BE DAMAGED, OR OTHERWISE NEED TO BE REMOVED, THE WEDGE CAN BE REMOVED WITH A WEDGE PULLER, ANOTHER POST INSERTED, AND THE WEDGE REPLACE WITHOUT DISTURBING THE FOOTING. THE USE OF A SPECIAL WEDGE PULLER DISCOURSES VANDALISM OF THE SIGN SYSTEM.

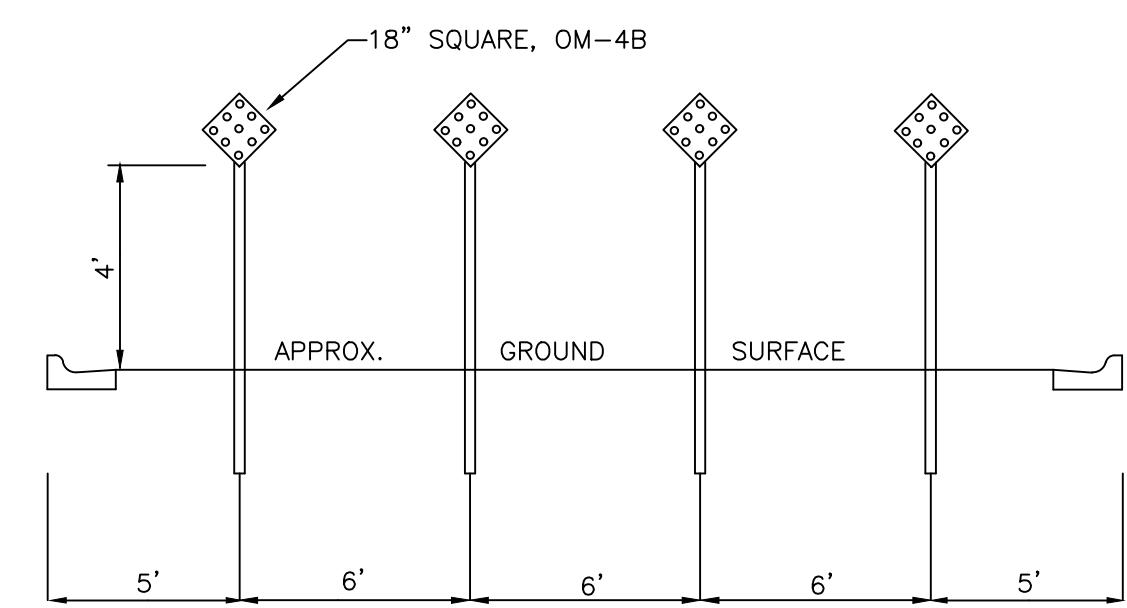


SIGN LOCATION SHALL BE IN THE AREAS SHADDED IN THE ABOVE DIAGRAM

NOTES:

1. ALL STREET NAME BLADES SHALL BE 9" TALL EXTRUDED ALUMINUM BLADES WITH GREEN HIGH INTENSITY PRISMATIC (HIP) SHEETING, USING WHITE 6" TALL CAPITAL LETTERS WITH LOWERCASE LETTERING.
2. TRIANGULAR SLIP BASE SYSTEMS ARE REQUIRED FOR ROADSIDE SIGN SUPPORTS THIS PROJECT.

**POZ-LOC SIGN SUPPORT ASSEMBLY**

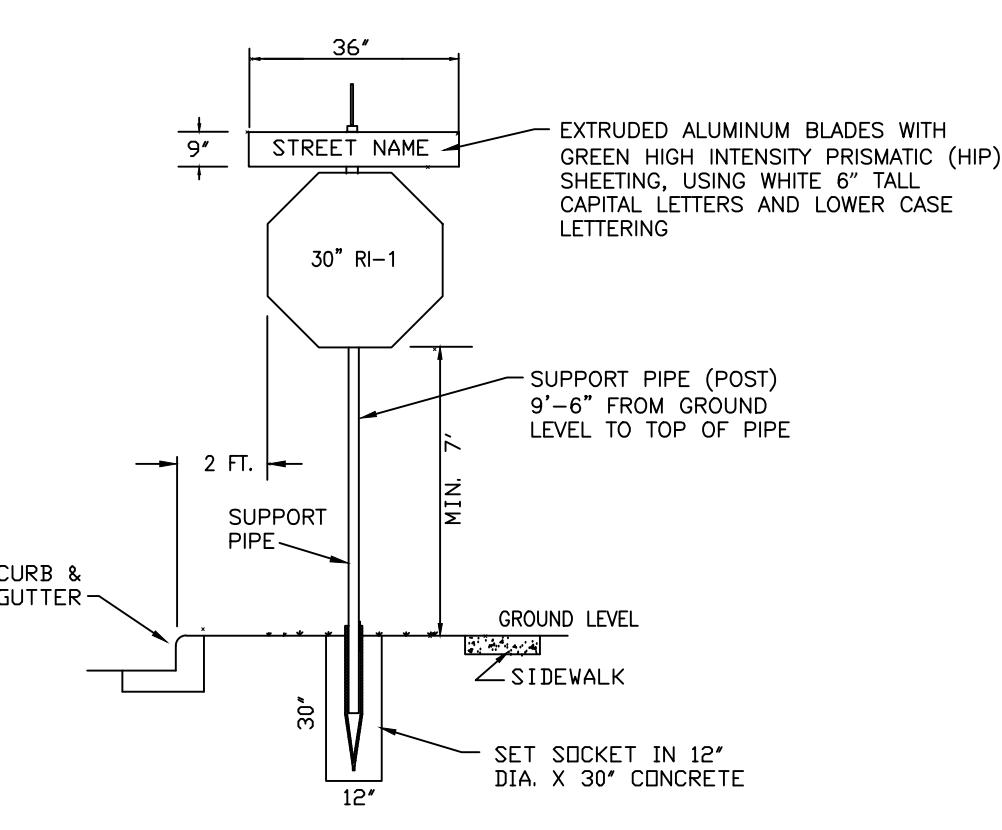


**MATERIAL**

-2 7/8" O.D. X 12 GA. GALVANIZED TUBING  
-ASTM A - 787  
-WEIGHT 7.2#

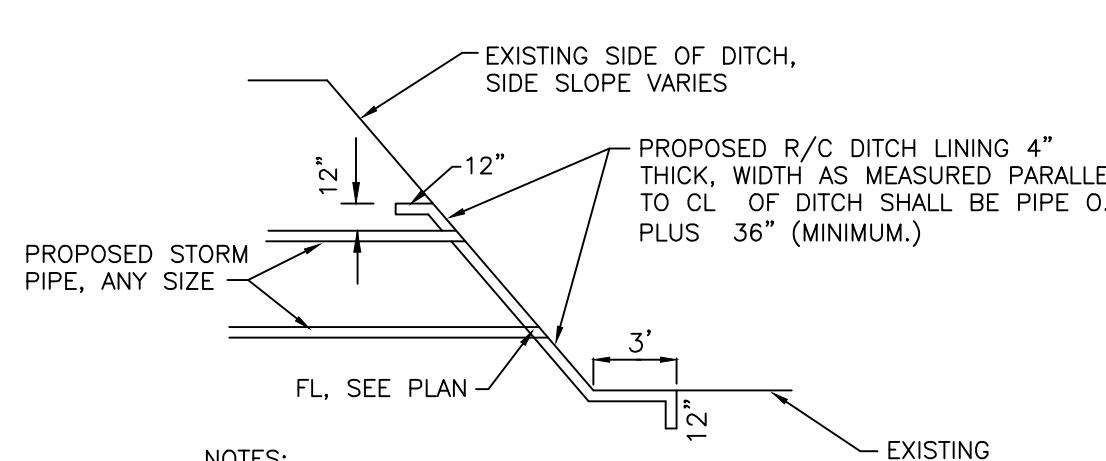
**MATERIAL**

-3 1/2" X 8 1/2" X 11 GA. GALVANIZED SHEET  
-ASTM A - 526 G-90  
-WEIGHT 1#



**DETAIL – END OF ROAD BARRICADE  
INSTALLATION (TYPE OM – 4B OBJECT MARKERS)**

NTS



NOTES:

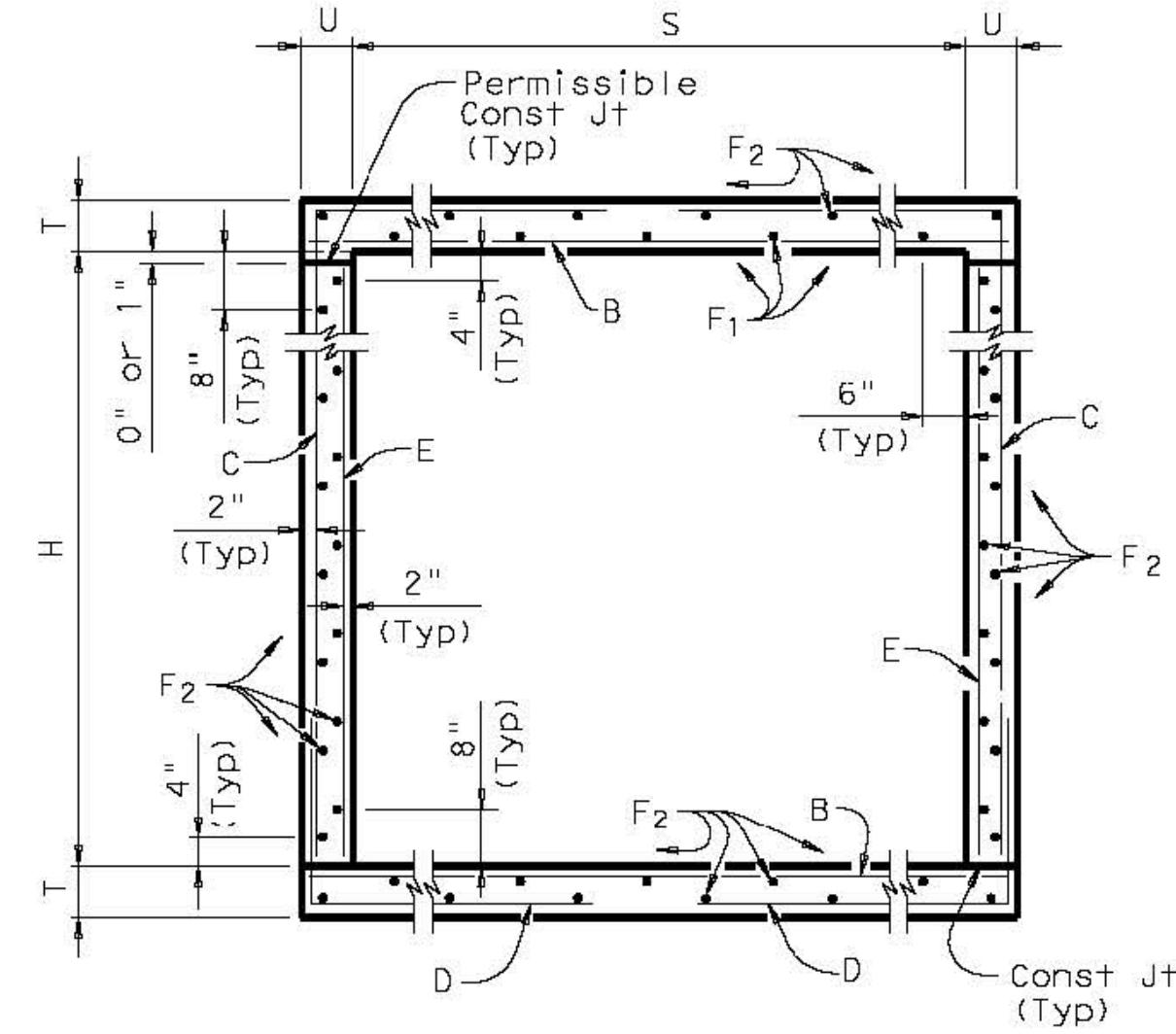
- REINFORCE ALL DITCH LINING WITH 6 X 6 X 6/6 WWF THROUGHOUT, PLACED MIDHEIGHT IN CONCRETE. BEND TO CONFORM.
- GRASS SEED ALL AREAS OF DITCH THAT HAVE BEEN DESTURBED WITH INSTALLATION OF PIPE AND LINING.

**TYPICAL SECTION – PROPOSED  
CONCRETE LINING IN DITCH AT END OF  
PROPOSED STO. PIPE**

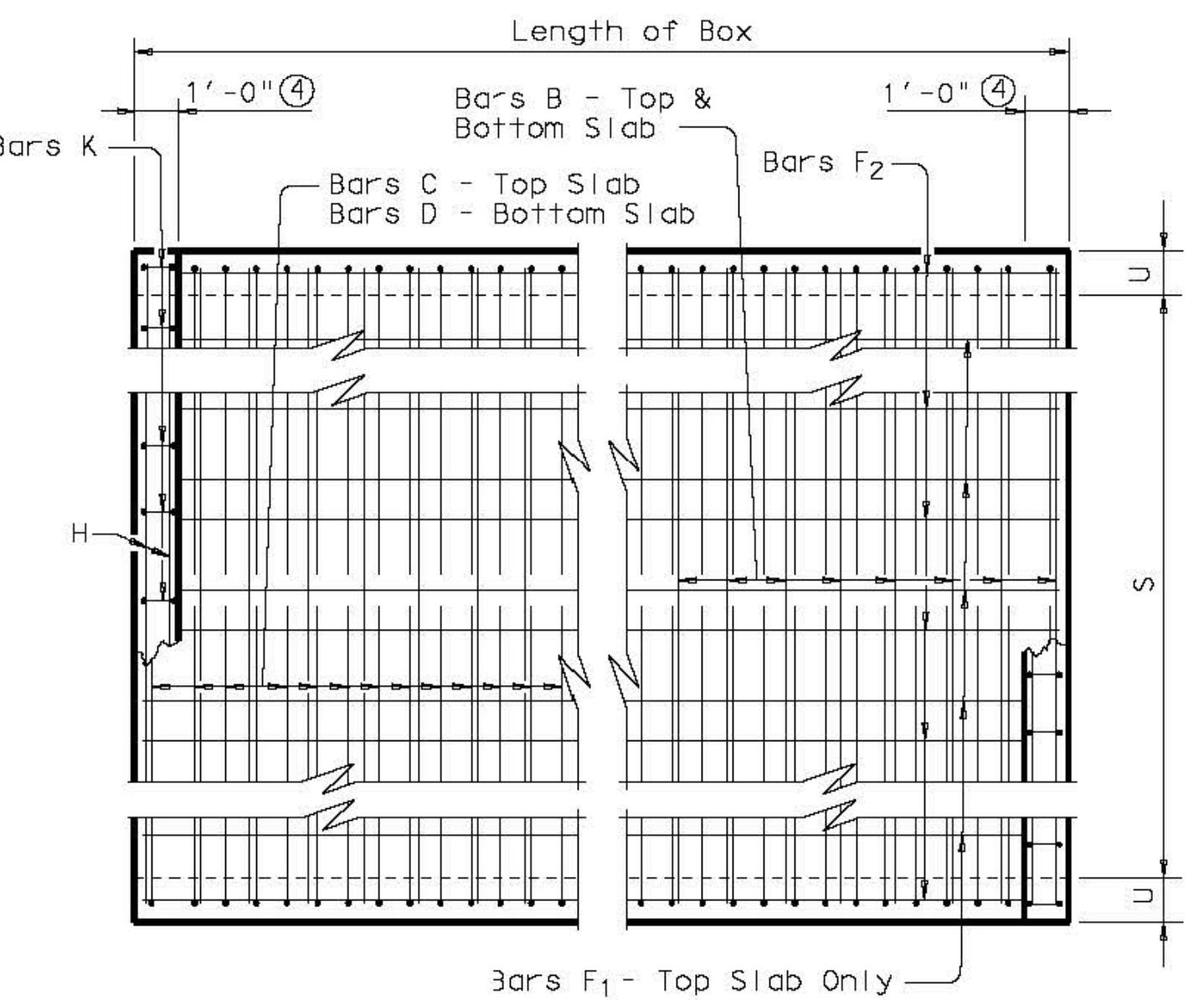
NTS

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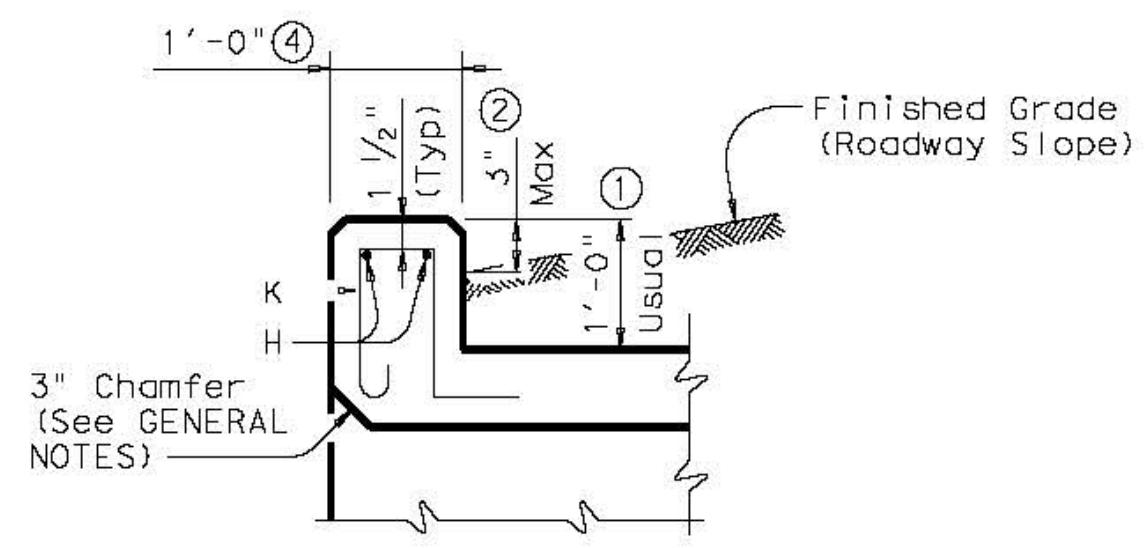
BASS AND WELSH ENGINEERING TX REGISTRATION NO. F-52, 3054 S. ALAMEDA STREET CORPUS CHRISTI, TEXAS 78404		
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 1 CORPUS CHRISTI, NUECES CO., TX		
STREET & SIDEWALK DETAILS		
DWN.	PILOT SCALE: AS SHOWN AS PLOTTED	1" = 60' COM. NO. STR-DET JOB NO. 18068 CHK. N. WELSH DATE PLOTTED 02/18/20 SHEET 24 OF 33



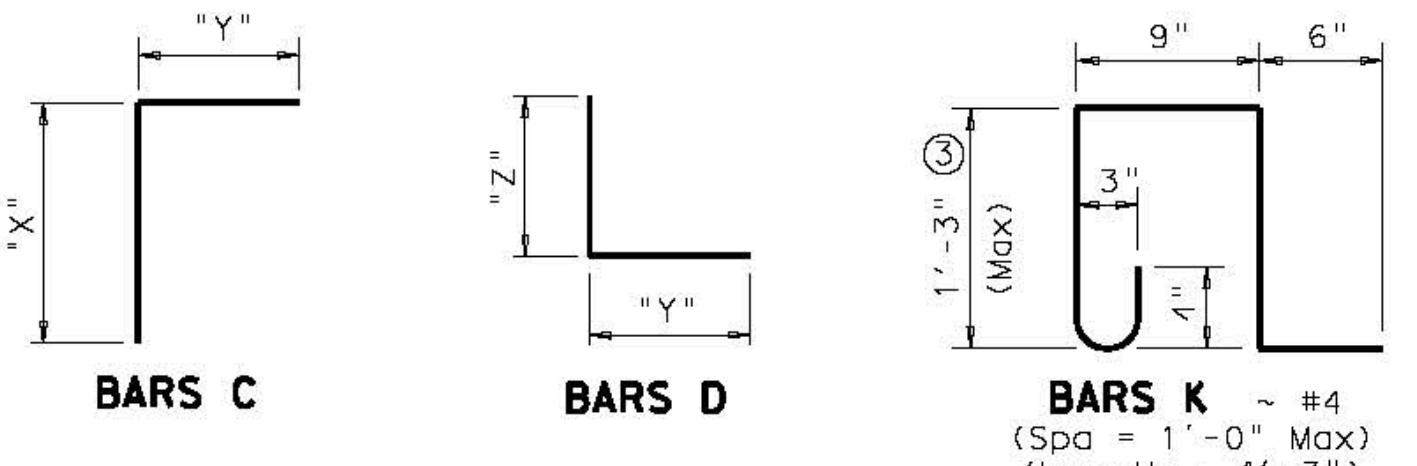
**TYPICAL SECTION**



**PLAN OF REINF STEEL**



**SECTION THRU CURB**



- 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 ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
- ② For vehicle safety, the following requirements must be met:
  - For structures without bridge rail, curbs shall project no more than 3" above finished grade.
  - For structures with bridge rail, curbs shall be flush with finished grade.
 Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- ③ For curbs less than 1'-0" high, tilt bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, bars K may be omitted.
- ④ 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.

Deformed welded wire reinforcement (WWR) meeting the requirements of ASTM A1064 may be used to replace conventional reinforcement shown at the Contractor's option. The area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for wire sizes between conventional bar sizes.

Example Conversion: Replacement of No. 6 Gr 60 at 6" Spacing with WWR.  
 WWR required =  $(0.44 \text{ sq in} / 0.5') \times (60 \text{ ksi} / 70 \text{ ksi})$   
 $= 0.754 \text{ sq in/ft}^2$ .  
 If D30.6 wire is used to meet the 0.754 sq in/ft<sup>2</sup> requirement in this example, the required spacing  
 $= (0.308 \text{ sq in} / 0.754 \text{ sq in/ft}) \times 12 \text{ in/ft} = 4.87"$   
 Max spacing.  
 Required lap length for the provided D30.6 wire is 2'-2" (Lap required for uncoated No. 5 bars, as shown in Item 440).

**GENERAL NOTES:**

Designed according to AASHTO LRFD Specifications.  
 Designed to the maximum fill height shown.  
 All reinforcing steel shall be Grade 60.  
 All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.  
 Class "C" concrete shall have a minimum compressive strength of 3,600 psi. Class "S" concrete shall have a minimum compressive strength of 4,000 psi.  
 The use of permanent forms is not allowed.  
 The bottom edge of the top slab shall be chamfered 3' at the entrance.  
 Reinforcing bars shall be adjusted to provide a minimum of 1 1/4" clear cover.  
 Construction joints shown at the flow line may be raised a maximum of 6" at the Contractor's option. If this option is used, Bars E may be cut off or raised, and Bars C and D may be reversed.  
 See standard SCC-MD for skewed ends, angle sections and lengthening details.

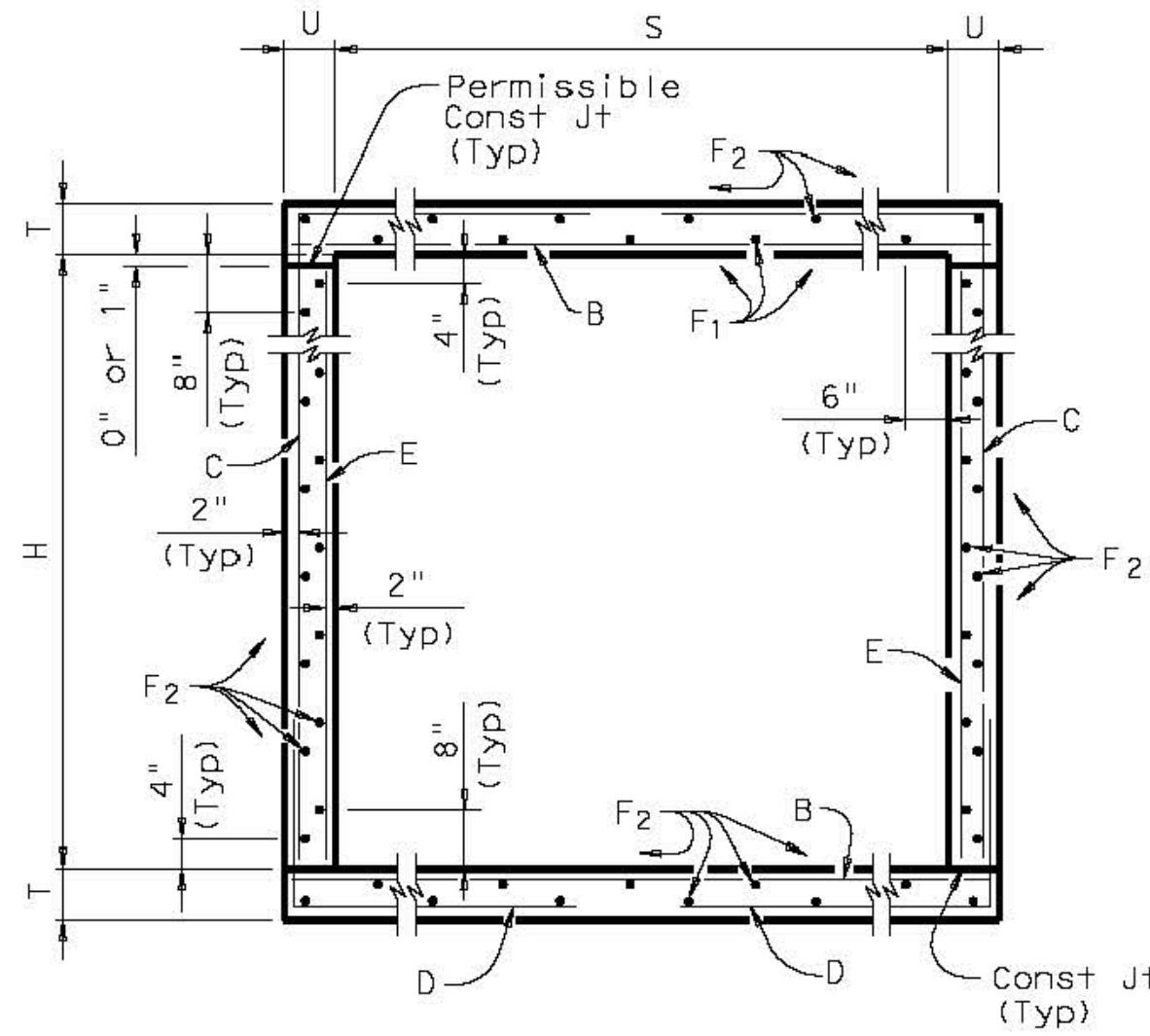
**HL93 LOADING SHEET 1 OF 2**

Texas Department of Transportation		Bridge Division Standard
<b>SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL</b>		
<b>SCC-5 &amp; 6</b>		
FILE: scc56ste.dgn	DN: GAF	CK: LMW
©TxDOT February 2010	CONT SECT	JOB HIGHWAY
REVISIONS		
10-12: Added WWR	DIST	COUNTY
		SHEET NO.

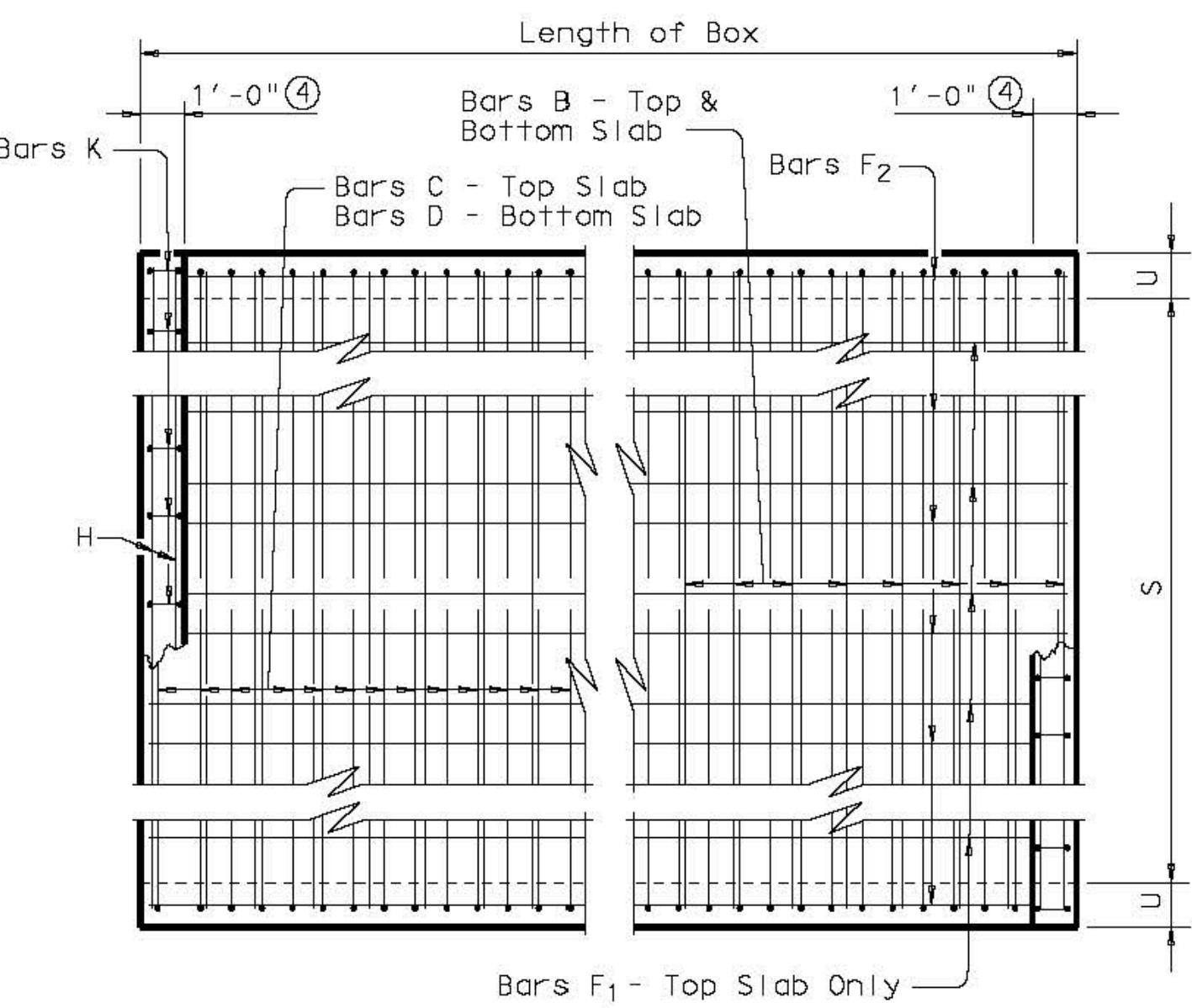
BASS AND WELSH ENGINEERING		
TX REGISTRATION NO. F-52, 3054 S. ALAMEDA STREET		
CORPUS CHRISTI, TEXAS 78404		
PUBLIC IMPROVEMENTS TO		
KING'S LANDING UNIT 1		
CORPUS CHRISTI, NUECES CO., TX		
TxDOT SINGLE BOX CULVERTS CAST-IN PLACE		
SCC-5 & 6		
DWN:	PLOT SCALE: 1" = 60'	BOX CULV DET
CHK: N. WELSH	SCALE (V): AS SHOWN	COM. NO. 18068
	SCALE (V): AS SHOWN	JOB NO.
	DATE PLOTTED 02/18/20	SHEET 25 OF 33

**DISCLAIMER:** The user of this standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the results or damages resulting from its use.

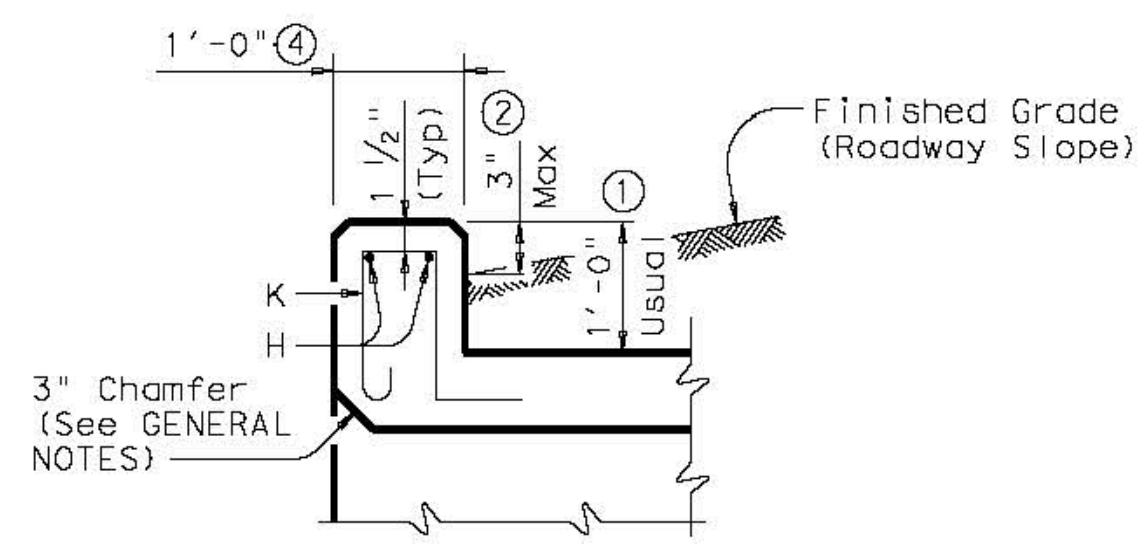
SECTION DIMENSIONS			FILL HEIGHT ⑤	BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																		QUANTITIES																												
				Bars B				Bars C				Bars D				Bars E~#4 at 18" Max			Bars F1~#4 at 18" Max			Bars F2~#4 at 18" Max			Bars H 4~#4		Bars K		Per foot of Barrel		Curb		Total																	
S	H	T	U	No.	Size	Spa	Length	Weight	No.	Size	Spa	Length	Weight	"X"	"Y"	No.	Size	Spa	Length	Weight	"Y"	"Z"	No.	Length	Wt	No.	Spa	Length	Wt	No.	Length	Wt	No.	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)											
5'-0"	2'-0"	7"	7"	26'	194	#5	5"	5'-11"	1,197	162	#5	6"	5'- 2"	873	2'- 5"	2'- 9"	162	#5	6"	5'- 4"	901	2'- 9"	2'- 7"	56	2'-0"	75	8	7"	39'-9"	212	22	39'-9"	584	5'-11"	16	14	40	0.353	96.1	0.5	56	14.6	3,898							
5'-0"	2'-0"	8"	7"	30'	194	#5	5"	5'-11"	1,197	194	#4	5"	5'- 0"	648	2'- 6"	2'- 8"	194	#4	5"	4'- 9"	616	2'- 6"	2'- 3"	56	2'-0"	75	4	18"	39'-9"	106	22	39'-9"	584	5'-11"	16	14	40	0.391	80.7	0.5	56	16.1	3,282							
5'-0"	3'-0"	7"	7"	26'	194	#5	5"	5'-11"	1,197	194	#4	5"	5'-11"	767	3'- 5"	2'- 6"	194	#4	5"	4'- 8"	605	2'- 6"	2'- 2"	56	3'-0"	112	8	7"	39'-9"	212	26	39'-9"	690	5'-11"	16	14	40	0.396	89.6	0.5	56	16.3	3,639							
5'-0"	3'-0"	8"	7"	30'	194	#5	5"	5'-11"	1,197	194	#4	5"	6'- 0"	778	3'- 6"	2'- 6"	194	#4	5"	4'- 9"	616	2'- 6"	2'- 3"	56	3'-0"	112	4	18"	39'-9"	106	26	39'-9"	690	5'-11"	16	14	40	0.434	87.5	0.5	56	17.9	3,555							
5'-0"	4'-0"	7"	7"	26'	194	#5	5"	5'-11"	1,197	194	#4	5"	6'-11"	896	4'- 5"	2'- 6"	194	#4	5"	4'- 8"	605	2'- 6"	2'- 2"	56	4'-0"	150	8	7"	39'-9"	212	26	39'-9"	690	5'-11"	16	14	40	0.439	93.8	0.5	56	18.1	3,806							
5'-0"	4'-0"	8"	7"	30'	194	#5	5"	5'-11"	1,197	194	#4	5"	7'- 0"	907	4'- 6"	2'- 6"	194	#4	5"	4'- 9"	616	2'- 6"	2'- 3"	56	4'-0"	150	4	18"	39'-9"	106	26	39'-9"	690	5'-11"	16	14	40	0.477	91.7	0.5	56	19.6	3,722							
5'-0"	5'-0"	7"	7"	26'	194	#5	5"	5'-11"	1,197	194	#4	5"	7'-11"	1,026	5'- 5"	2'- 6"	194	#4	5"	4'- 8"	605	2'- 6"	2'- 2"	56	5'-0"	187	8	7"	39'-9"	212	30	39'-9"	797	5'-11"	16	14	40	0.483	100.6	0.5	56	19.8	4,080							
5'-0"	5'-0"	8"	7"	30'	194	#5	5"	5'-11"	1,197	194	#4	5"	8'- 0"	1,037	5'- 6"	2'- 6"	194	#4	5"	4'- 9"	616	2'- 6"	2'- 3"	56	5'-0"	187	4	18"	39'-9"	106	30	39'-9"	797	5'-11"	16	14	40	0.521	98.5	0.5	56	21.3	3,996							
5'-0"	5'-0"	7"	7"	26'	194	#5	5"	5'-11"	1,197	194	#4	5"	7'-11"	1,098	3'- 5"	3'- 1"	162	#5	6"	6'- 6"	1,112	3'- 6"	3'- 1"	162	#5	6"	5'- 8"	957	3'- 1"	2'- 7"	56	3'-0"	112	10	7"	39'-9"	266	29	39'-9"	770	6'-11"	18	16	45	0.439	115.1	0.5	63	18.1	4,666
5'-0"	3'-0"	8"	7"	26'	162	#6	6"	6'-11"	1,683	162	#5	6"	6'- 7"	1,112	3'- 6"	3'- 1"	162	#5	6"	5'- 9"	972	3'- 1"	2'- 8"	56	3'-0"	112	5	18"	39'-9"	133	29	39'-9"	770	6'-11"	18	16	45	0.484	119.6	0.5	63	19.9	4,845							
5'-0"	3'-0"	9"	8"	30'	162	#6	6"	7'- 1"	1,724	162	#5	6"	6'- 8"	1,126	3'- 7"	3'- 1"	162	#5	6"	5'-10"	986	3'- 1"	2'- 9"	56	3'-0"	112	5	18"	39'-9"	133	29	39'-9"	770	7'- 1"	19	18	51	0.556	121.3	0.5	70	22.7	4,921							
5'-0"	4'-0"	7"	7"	20'	194	#5	5"	6'-11"	1,400	194	#4	5"	7'- 3"	940	4'- 5"	2'-10"	194	#4	5"	5'- 0"	648	2'-10"	2'- 2"	56	4'-0"	150	10	7"	39'-9"	266	29	39'-9"	770	6'-11"	18	16	45	0.483	104.4	0.5	63	19.8	4,237							
5'-0"	4'-0"	8"	7"	26'	194	#6	5"	6'-11"	2,015	162	#5	6"	7'- 7"	1,281	4'- 6"	3'- 1"	162	#5	6"	5'- 9"	972	3'- 1"	2'- 8"	56	4'-0"	150	5	18"	39'-9"	133	29	39'-9"	770	6'-11"	18	16	45	0.527	133.0	0.5	63	21.6	5,384							
5'-0"	4'-0"	9"	8"	30'	162	#6	6"	7'- 1"	1,724	162	#5	6"	7'- 8"	1,295	4'- 7"	3'- 1"	162	#5	6"	5'-10"	986	3'- 1"	2'- 9"	56	4'-0"	150	5	18"	39'-9"	133	29	39'-9"	770	7'- 1"	19	18	51	0.605	126.5	0.5	70	24.7	5,128							
5'-0"	5'-0"	7"	7"	20'	194	#5	5"	6'-11"	1,400	194	#4	5"	8'- 3"	1,069	5'- 5"	2'-10"	194	#4	5"	5'- 0"	648	2'-10"	2'- 2"	56	5'-0"	187	10	7"	39'-9"	266	33	39'-9"	876	6'-11"	18	16	45	0.526	111.2	0.5	63	21.5	4,509							
5'-0"	5'-0"	8"	7"	26'	194	#6	5"	6'-11"	2,015	162	#5	6"	8'- 7"	1,450	5'- 6"	3'- 1"	162	#5	6"	5'- 9"	972	3'- 1"	2'- 8"	56	5'-0"	187	5	18"	39'-9"	133	33	39'-9"	876	6'-11"	18	16	45	0.570	140.8	0.5	63	23.3	5,696							
5'-0"	5'-0"	9"	8"	30'	194	#6	5"	7'- 1"	2,064	162	#5	6"	8'- 8"	1,464	5'- 7"	3'- 1"	162	#5	6"	5'-10"	986	3'- 1"	2'- 9"	56	5'-0"	187	5	18"	39'-9"	133	33	39'-9"	876	7'- 1"	19	18	51	0.654	142.8	0.5	70	26.7	5,780							
5'-0"	6																																																	



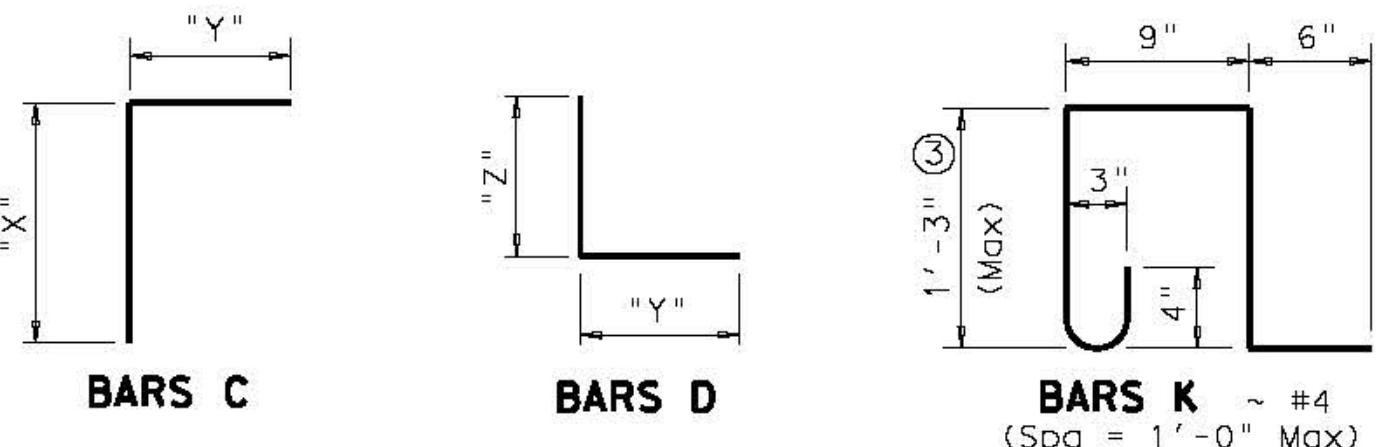
**TYPICAL SECTION**



**PLAN OF REINF STEEL**



**SECTION THRU CURB**



- 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 ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
- ② For vehicle safety, the following requirements must be met:
  - For structures without bridge rail, curbs shall project no more than 3" above finished grade.
  - For structures with bridge rail, curbs shall be flush with finished grade.
 Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- ③ For curbs less than 1'-0" high, tilt bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, bars K may be omitted.
- ④ 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.

Deformed welded wire reinforcement (WWR) meeting the requirements of ASTM A1064 may be used to replace conventional reinforcement shown at the Contractor's option. The area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for wire sizes between conventional bar sizes.

Example Conversion: Replacement of No. 6 Gr 60 at 6" Spacing with WWR.  
WWR required =  $(0.44 \text{ sq in}/0.5') \times (60 \text{ ksi}/70 \text{ ksi}) = 0.754 \text{ sq in}/\text{ft}$ .  
If D30.6 wire is used to meet the 0.754 sq in/ft requirement in this example, the required spacing =  $(0.306 \text{ sq in}/0.754 \text{ sq in}/\text{ft}) \times 12 \text{ in}/\text{ft} = 4.87$ " Max spacing.  
Required lap length for the provided D30.6 wire is 2'-2" (Lap required for uncoated No. 5 bars, as shown in Item 440).

**GENERAL NOTES:**

Designed according to AASHTO LRFD Specifications.  
Designed to the maximum fill height shown.  
All reinforcing steel shall be Grade 60.  
All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.  
Class "C" concrete shall have a minimum compressive strength of 3,600 psi. Class "S" concrete shall have a minimum compressive strength of 4,000 psi.  
The use of permanent forms is not allowed.  
The bottom edge of the top slab shall be chamfered 3" at the entrance.  
Reinforcing bars shall be adjusted to provide a minimum of 1 1/4" clear cover.  
Construction joints shown at the flow line may be raised a maximum of 6" at the Contractor's option.  
If this option is used, Bars E may be cut off or raised, and Bars C and D may be reversed.  
See standard SCC-MD for skewed ends, angle sections and lengthening details.

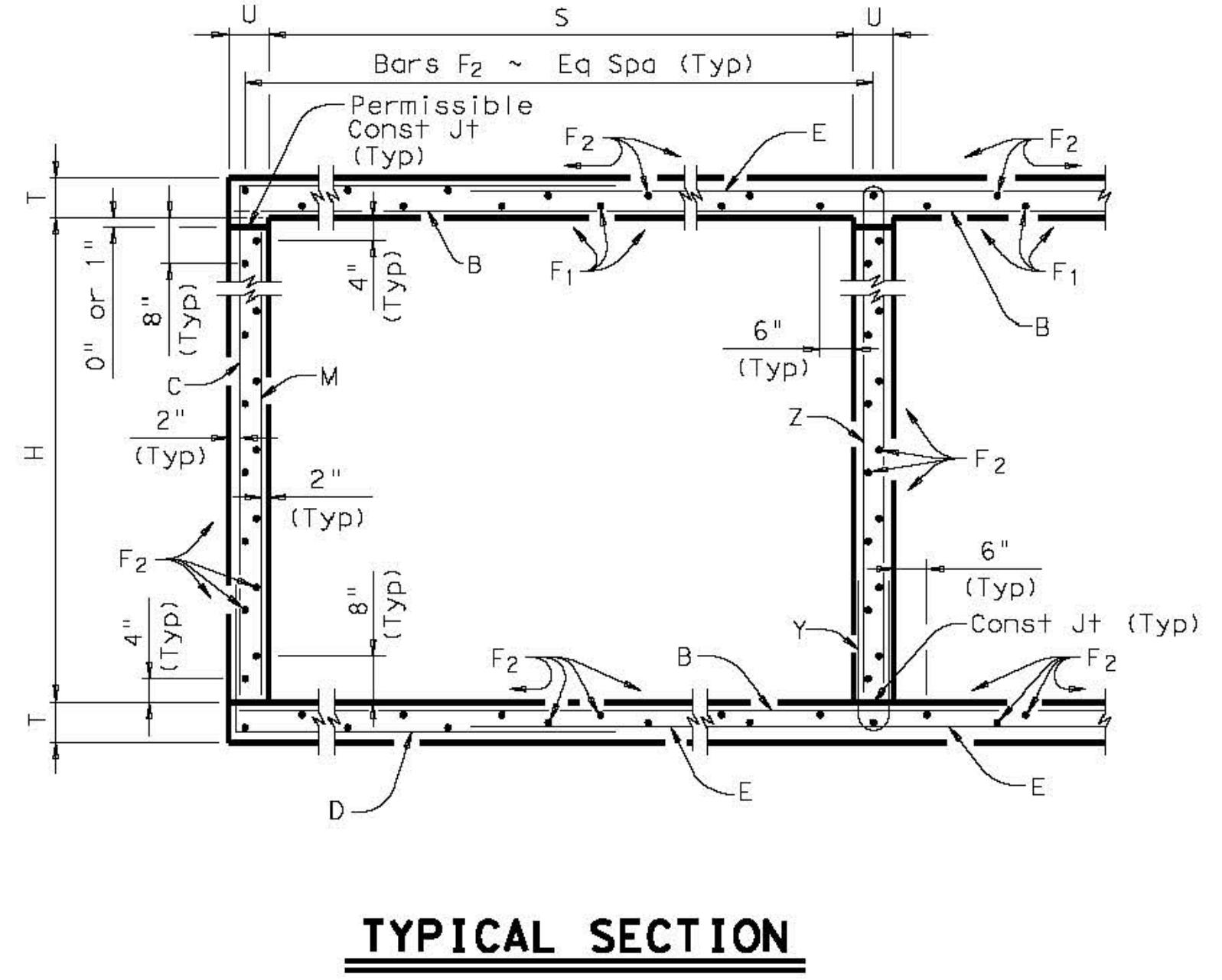
**HL93 LOADING SHEET 1 OF 2**

Texas Department of Transportation		Bridge Division Standard
<b>SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL</b>		
<b>SCC-8</b>		
FILE: sc08ste.dgn	DN: GAF	CK: LMW
©TxDOT February 2010	CONT SECT	DW: BWH/TxDOT
REVISIONS	JOB	CK: GAF
10-12: Added WWR	HIGHWAY	DIST COUNTY SHEET NO.

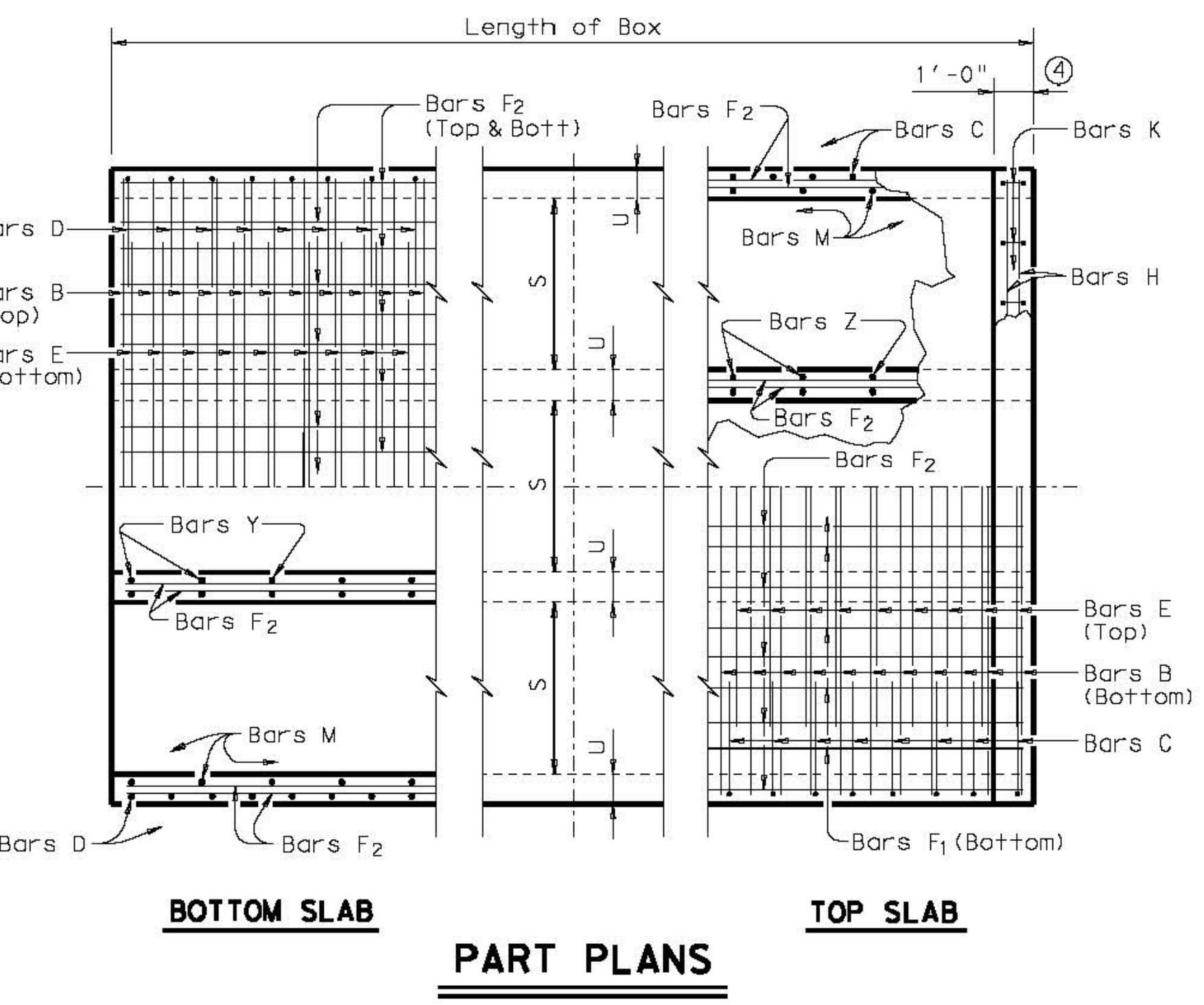
BASS AND WELSH ENGINEERING TX REGISTRATION NO. F-52, 3054 S. ALAMEDA STREET CORPUS CHRISTI, TEXAS 78404		
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 1 CORPUS CHRISTI, NUECES CO., TX		
TXDOT SINGLE BOX CULVERTS CAST-IN PLACE SCC-8		
DWN: _____ PLOT SCALE: 1" = 60' CHK: N. WELSH SCALE (V): AS SHOWN DATE PLOTTED 02/18/20 SHEET 27 OF 33 COM. NO. 18068 JOB NO. 18068		

**DISCLAIMER:**  
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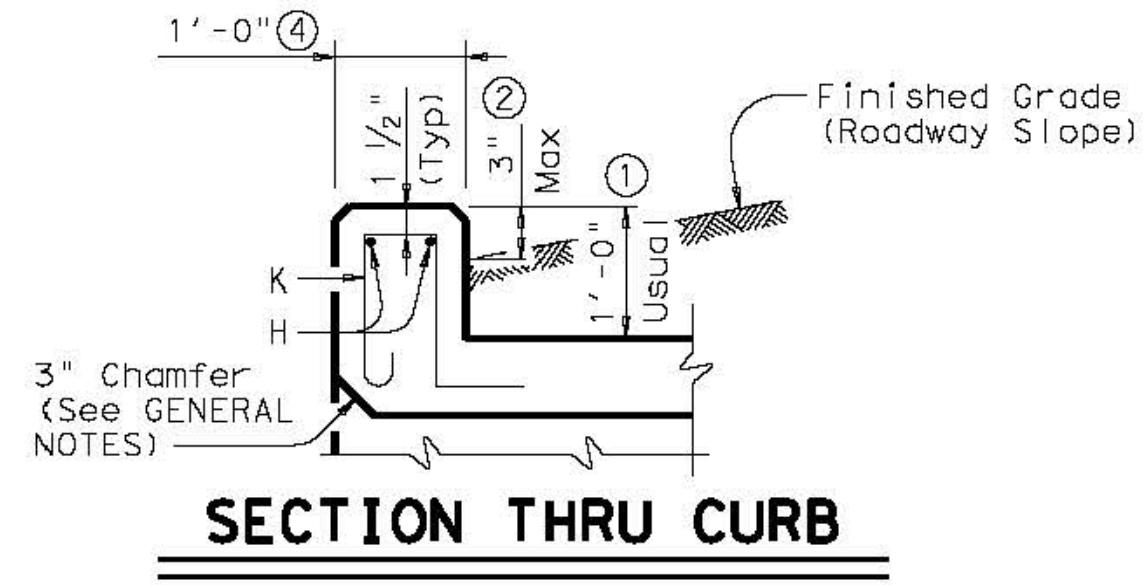
SECTION DIMENSIONS				⑤ FILL HEIGHT	BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																		QUANTITIES																				
					Bars B				Bars C				Bars D				Bars E~#4 at 18" Max		Bars F1~#4		Bars F2~#4 at 18" Max		Bars H 4~#4		Bars K		Per foot of Barrell		Curb		Total												
S	H	T	U		No.	Size	Spa	Length	Weight	No.	Size	Spa	Length	Weight	"X"	"Y"	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Length	Wt	No.	Length	Wt	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)					
8'-0"	4'-0"	7"	7"	13'	162	#6	6"	8'-11"	2,170	194	#5	5"	8'- 8"	1,754	4'- 5"	4'- 3"	194	#5	5"	6'-10"	1,383	4'- 3"	2'- 7"	56	4'-0"	150	13	7"	39'-9"	345	32	39'-9"	850	8'-11"	24	20	57	0.569	166.3	0.7	81	23.5	6,733
8'-0"	4'-0"	8"	7"	16'	194	#6	5"	8'-11"	2,598	194	#5	5"	8'- 9"	1,770	4'- 6"	4'- 3"	194	#5	5"	6'-11"	1,400	4'- 3"	2'- 8"	56	4'-0"	150	6	18"	39'-9"	159	32	39'-9"	850	8'-11"	24	20	57	0.626	173.2	0.7	81	25.7	7,008
8'-0"	4'-0"	9"	8"	20'	194	#6	5"	9'- 1"	2,647	194	#5	5"	8'-10"	1,787	4'- 7"	4'- 3"	194	#5	5"	7'- 0"	1,416	4'- 3"	2'- 9"	56	4'-0"	150	6	18"	39'-9"	159	32	39'-9"	850	9'- 1"	24	22	62	0.716	175.2	0.7	86	29.3	7,095
8'-0"	4'-0"	10"	8"	23'	194	#6	5"	9'- 1"	2,647	138	#6	7"	8'-11"	1,848	4'- 8"	4'- 3"	138	#6	7"	7'- 6"	1,555	4'- 3"	3'- 3"	56	4'-0"	150	6	18"	39'-9"	159	32	39'-9"	850	9'- 1"	24	22	62	0.774	180.2	0.7	86	31.7	7,295
8'-0"	4'-0"	11"	9"	30'	162	#7	6"	9'- 3"	3,063	194	#5	5"	9'- 0"	1,821	4'- 9"	4'- 3"	194	#5	5"	7'- 2"	1,450	4'- 3"	2'-11"	56	4'-0"	150	6	18"	39'-9"	159	34	39'-9"	903	9'- 3"	25	22	62	0.867	188.7	0.7	87	35.4	7,633
8'-0"	5'-0"	7"	7"	13'	162	#6	6"	8'-11"	2,170	194	#5	5"	9'- 8"	1,956	5'- 5"	4'- 3"	194	#5	5"	6'-10"	1,383	4'- 3"	2'- 7"	56	5'-0"	187	13	7"	39'-9"	345	36	39'-9"	956	8'-11"	24	20	57	0.612	174.9	0.7	81	25.2	7,078
8'-0"	5'-0"	8"	7"	16'	194	#6	5"	8'-11"	2,598	194	#5	5"	9'- 9"	1,973	5'- 6"	4'- 3"	194	#5	5"	6'-11"	1,400	4'- 3"	2'- 8"	56	5'-0"	187	6	18"	39'-9"	159	36	39'-9"	956	8'-11"	24	20	57	0.669	181.8	0.7	81	27.5	7,354
8'-0"	5'-0"	9"	8"	20'	194	#6	5"	9'- 1"	2,647	194	#5	5"	9'-10"	1,990	5'- 7"	4'- 3"	194	#5	5"	7'- 0"	1,416	4'- 3"	2'- 9"	56	5'-0"	187	6	18"	39'-9"	159	36	39'-9"	956	9'- 1"	24	22	62	0.765	183.9	0.7	86	31.3	7,441
8'-0"	5'-0"	10"	8"	23'	194	#6	5"	9'- 1"	2,647	194	#5	5"	9'-11"	2,007	5'- 8"	4'- 3"	194	#5	5"	7'- 1"	1,433	4'- 3"	2'-10"	56	5'-0"	187	6	18"	39'-9"	159	36	39'-9"	956	9'- 1"	24	22	62	0.823	184.7	0.7	86	33.6	7,475
8'-0"	5'-0"	11"	9"	30'	194	#7	5"	9'- 3"	3,668	194	#5	5"	10'- 0"	2,023	5'- 9"	4'- 3"	194	#5	5"	7'- 2"	1,450	4'- 3"	2'-11"	56	5'-0"	187	6	18"	39'-9"	159	38	39'-9"	1,009	9'- 3"	25	22	62	0.923	212.4	0.7	87	37.6	8,583
8'-0"	6'-0"	7"	7"	13'	194	#6	5"	8'-11"	2,598	162	#5	6"	10'- 8"	1,802	6'- 5"	4'- 3"	162	#5	6"	6'-10"	1,155	4'- 3"	2'- 7"	56	6'-0"	224	13	7"	39'-9"	345	40	39'-9"	1,062	8'-11"	24	20	57	0.655	179.7	0.7	81	26.9	7,267
8'-0"	6'-0"	8"	7"	16'	194	#6	5"	8'-11"	2,598	194	#5	5"	10'- 9"	2,175	6'- 6"	4'- 3"	194	#5	5"	6'-11"	1,400	4'- 3"	2'- 8"	56	6'-0"	224	6	18"	39'-9"	159	40	39'-9"	1,062	8'-11"	24	20	57	0.712	190.5	0.7	81	29.2	7,699
8'-0"	6'-0"	9"	8"	20'	194	#6	5"	9'- 1"	2,647	194	#5	5"	10'-10"	2,192	6'- 7"	4'- 3"	194	#5	5"	7'- 0"	1,416	4'- 3"	2'- 9"	56	6'-0"	224	6	18"	39'-9"	159	40	39'-9"	1,062	9'- 1"	24	22	62	0.815	192.5	0.7	86	33.3	7,786
8'-0"	6'-0"	10"	8"	23'	194	#6	5"	9'- 1"	2,647	194	#5	5"	10'-11"	2,209	6'- 8"	4'- 3"	194	#5	5"	7'- 1"	1,433	4'- 3"	2'-10"	56	6'-0"	224	6	18"	39'-9"	159	40	39'-9"	1,062	9'- 1"	24	22	62	0.872	193.4	0.7	86	35.6	7,820
8'-0"	6'-0"	11"	9"	30'	194	#7	5"	9'- 3"	3,668	194	#5	5"	11'- 0"	2,226	6'- 9"	4'- 3"	194	#5	5"	12'- 0"	1,450	4'- 3"	2'-11"	56	6'-0"	224	6	18"	39'-9"	159	42	39'-9"	1,115	9'- 3"	25	22	62	0.978	221.1	0.7	87	39.8	8,929
8'-0"	7'-0"	7"	7"	13'	194	#6	5"	8'-11"	2,598	194	#5	5"	11'- 8"	2,361	7'- 5"	4'- 3"	194	#5	5"	6'-10"	1,383	4'- 3"	2'- 7"	56	7'-0"	262	13	7"	39'-9"	345	40	39'-9"	1,062	8'-11"	24	20	57	0.699	200.3	0.7	81	28.7	8,092
8'-0"	7'-0"	8"	7"	16'	194	#6	5"	8'-11"	2,598	194	#5	5"	11'- 9"	2,378	7'- 6"	4'- 3"	194	#5	5"	6'-11"	1,400	4'- 3"	2'- 8"	56	7'-0"	262	6	18"	39'-9"	159	40	39'-9"	1,062	8'-11"	24	20	57	0.755	196.5	0.7	81	30.9	7,940
8'-0"	7'-0"	9"																																									



**TYPICAL SECTION**

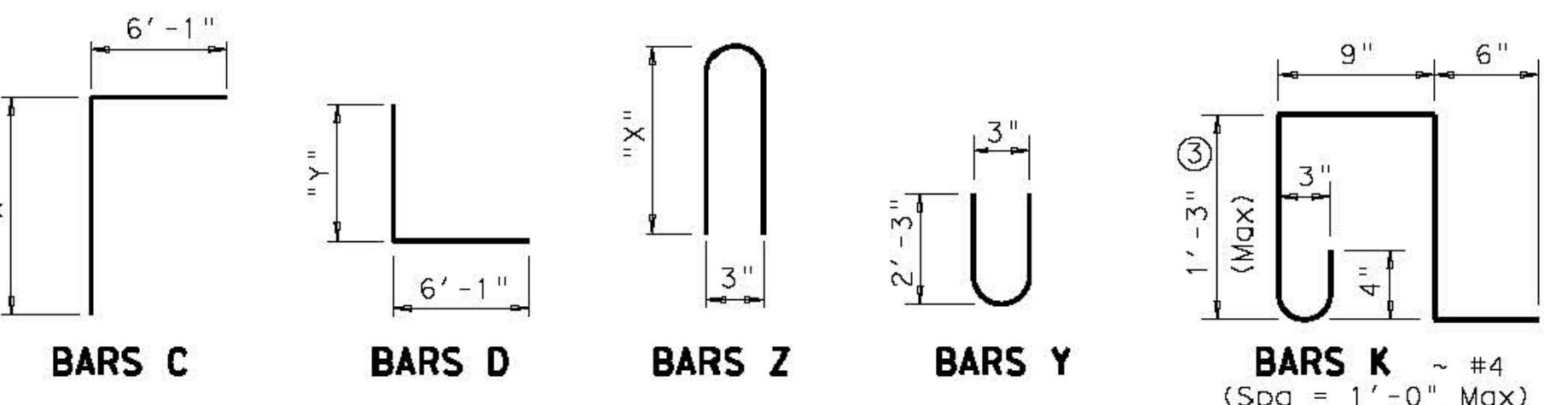


**PART PLANS**



**SECTION THRU CURB**

H	Bar Dimensions	
	"X"	"Y"
4'-0"	4'-6"	2'-3"
5'-0"	5'-6"	2'-3"
6'-0"	6'-6"	2'-3"
7'-0"	7'-6"	2'-3"
8'-0"	8'-6"	2'-8"



BARS C      BARS D      BARS Z      BARS Y      BARS K ~ #4  
(Spa = 1'-0" Max)  
(Length = 4'-3")

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 ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.

② For vehicle safety, the following requirements must be met:  
- For structures without bridge rail, curbs shall project no more than 3" above finished grade.  
- For structures with bridge rail, curbs shall be flush with finished grade.  
Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

③ For curbs less than 1'-0" high, tilt bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, bars K may be omitted.

④ 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.

Deformed welded wire reinforcement (WWR) meeting the requirements of ASTM A1064 may be used to replace conventional reinforcement shown at the Contractor's option. The area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for wire sizes between conventional bar sizes.

Example Conversion: Replacement of No. 6 Gr 60 at 6" Spacing with WWR.  
WWR required =  $(0.44 \text{ sq in} / 0.5') \times (60 \text{ ksi} / 70 \text{ ksi}) = 0.754 \text{ sq in}/\text{ft}$ .  
If D30.6 wire is used to meet the 0.754 sq in/ft requirement in this example, the required spacing =  $(0.306 \text{ sq in} / 0.754 \text{ sq in}/\text{ft}) \times 12 \text{ in}/\text{ft} = 4.87"$ .  
Max spacing.  
Required lap length for the provided D30.6 wire is 2'-2" (Lap required for uncoated No. 5 bars, as shown in Item 440).

**GENERAL NOTES:**

Designed according to AASHTO LRFD Specifications.  
Designed to the maximum fill height shown.  
All reinforcing steel shall be Grade 60.  
All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.  
Class "C" concrete shall have a minimum compressive strength of 3,600 psi. Class "S" concrete shall have a minimum compressive strength of 4,000 psi.  
The use of permanent forms is not allowed.  
The bottom edge of the top slab shall be chamfered 3" at the entrance.  
Reinforcing bars shall be adjusted to provide a minimum of 1 1/4" clear cover.  
Construction joints shown at the flow line may be raised a maximum of 6" at the Contractor's option.  
If this option is used, Bars M may be cut off or raised, Bars C and D may be reversed, and Bars Y and Z may be reversed.  
See standard MC-MD for skewed ends, angle sections and lengthening details.

**HL93 LOADING SHEET 1 OF 2**

Texas Department of Transportation		Bridge Division Standard
<b>MULTIPLE BOX CULVERTS CAST-IN-PLACE</b>		
<b>8'-0" SPAN</b>		
<b>0' TO 13' FILL</b>		
<b>MC-8-13</b>		
FILE: mc813std.dgn	DN: GAF	CR: LHW
(C) TxDOT February 2010	DN: BWH/TxDOT	DN: GAF
REVISIONS	CONT	SECT
10-12: Added WWR	JOB	HIGHWAY
DIST	COUNTY	SHEET NO.

BASS AND WELSH ENGINEERING  
TX REGISTRATION NO. F-52, 3054 S. ALAMEDA STREET  
CORPUS CHRISTI, TEXAS 78404

PUBLIC IMPROVEMENTS TO  
KING'S LANDING UNIT 1  
CORPUS CHRISTI, NUECES CO., TX

TXDOT MULTIPLE BOX CULVERTS,  
CAST-IN PLACE, MC-8-13

DWN:	PLOT SCALE:	1" = 60'	BOX CULV DET
CHK: N. WELSH	SCALE (V):	AS SHOWN	COM. NO. 18068
	SCALE (V):	AS SHOWN	JOB NO.
	DATE PLOTTED	02/18/20	SHEET 29 OF 33

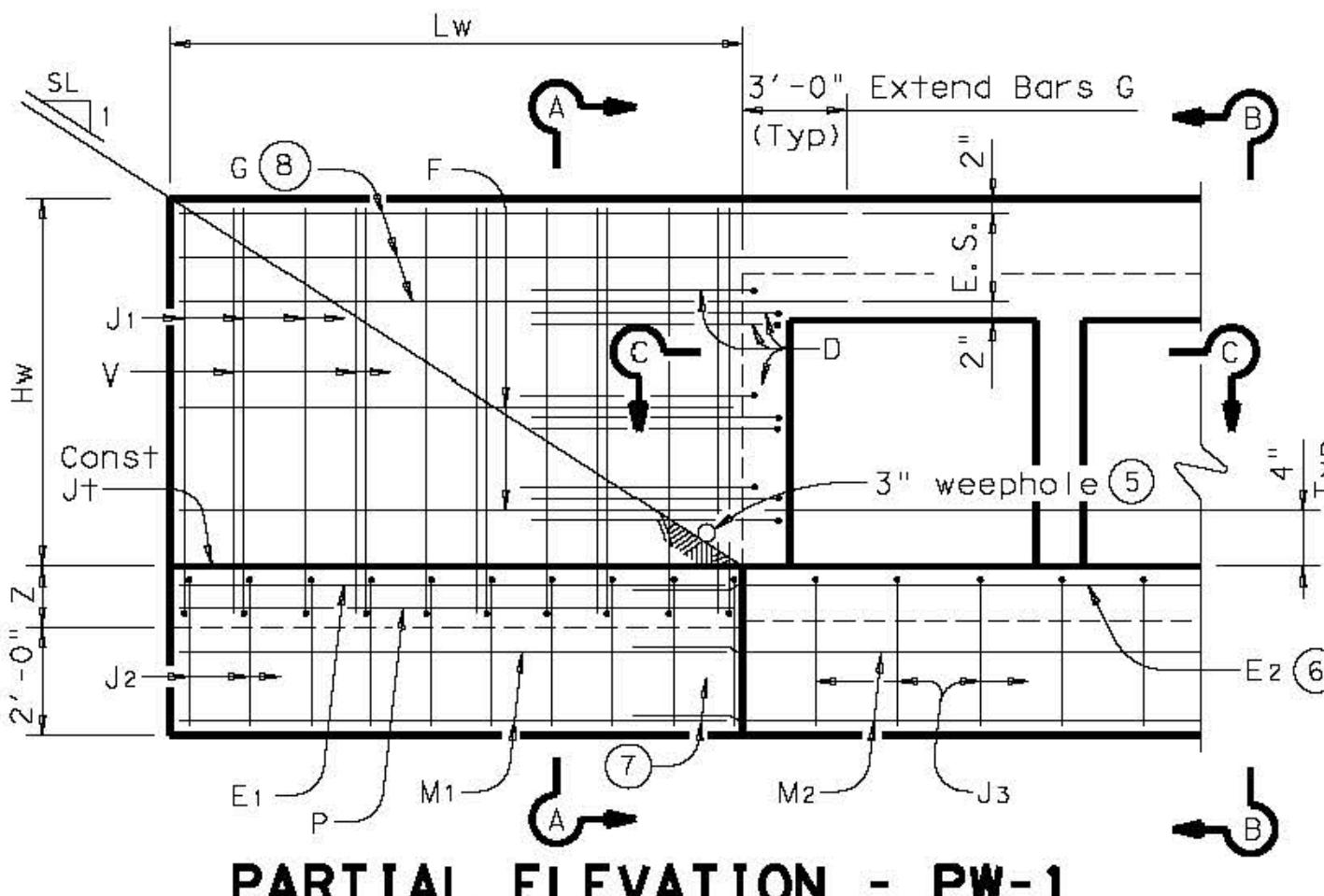
**DISCLAIMER:**  
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NUMBER OF SPANS	BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																		QUANTITIES																											
	SECTION DIMENSIONS				Bars B				Bars C & D				Bars E				Bars F1~#4 at 1'-6" Max			Bars M~#4 at 1'-6" Max			Bars Y & Z~#4 at 10" Max			Bars H 4~#4		Bars K		Per foot of Barrel		Curb		Total												
	S	H	T	U	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Length	Wt	No.	Bar Y Length	Bar Y Wt	Bar Z Length	Bar Z Wt	Length	Weight	No.	Weight	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)									
2	8'-0"	4'-0"	8"	7"	162	#5	6"	17'-6"	2,957	194	#4	5"	10'-7"	1,372	8'-4"	1,080	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	56	39'-9"	1,487	56	4'-0"	150	49	4'-8"	153	9'-2"	300	17'-6"	47	38	108	1,136	266.4	1.3	155	46.7	10,812
3	8'-0"	4'-0"	8"	7"	162	#5	6"	26'-1"	4,407	194	#4	5"	10'-7"	1,372	8'-4"	1,080	194	#6	5"	17'-5"	5,075	36	8"	39'-9"	956	80	39'-9"	2,124	56	4'-0"	150	98	4'-8"	305	9'-2"	600	26'-1"	70	54	153	1,646	401.7	2.0	223	67.8	16,292
4	8'-0"	4'-0"	8"	7"	162	#5	6"	34'-8"	5,857	194	#4	5"	10'-7"	1,372	8'-4"	1,080	194	#6	5"	26'-0"	7,576	48	8"	39'-9"	1,275	104	39'-9"	2,762	56	4'-0"	150	147	4'-8"	458	9'-2"	900	34'-8"	93	72	204	2,156	535.8	2.6	297	88.8	21,727
5	8'-0"	4'-0"	8"	7"	162	#5	6"	43'-3"	7,308	194	#4	5"	10'-7"	1,372	8'-4"	1,080	194	#6	5"	34'-7"	10,077	60	8"	39'-9"	1,593	128	39'-9"	3,399	56	4'-0"	150	196	4'-8"	611	9'-2"	1,200	43'-3"	116	90	256	2,667	669.8	3.2	372	109.9	27,162
6	8'-0"	4'-0"	8"	7"	162	#5	6"	51'-10"	8,758	194	#4	5"	10'-7"	1,372	8'-4"	1,080	194	#6	5"	152'-39"-9"	4,036	56	4'-0"	150	245	4'-8"	764	9'-2"	1,500	51'-10"	138	106	301	3,177	803.8	3.9	439	131.0	32,589							
2	8'-0"	5'-0"	8"	7"	194	#5	5"	17'-6"	3,541	194	#4	5"	11'-7"	1,501	8'-4"	1,080	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	62	39'-9"	1,646	56	5'-0"	187	49	4'-8"	153	11'-2"	366	17'-6"	47	38	108	1,201	290.8	1.3	155	49.3	11,787
3	8'-0"	5'-0"	8"	7"	194	#5	5"	26'-1"	5,278	194	#4	5"	11'-7"	1,501	8'-4"	1,080	194	#6	5"	17'-5"	5,075	36	8"	39'-9"	956	88	39'-9"	2,337	56	5'-0"	187	98	4'-8"	305	11'-2"	731	26'-1"	70	54	153	1,733	436.3	2.0	223	71.3	17,673
4	8'-0"	5'-0"	8"	7"	194	#5	5"	34'-8"	7,015	194	#4	5"	11'-7"	1,501	8'-4"	1,080	194	#6	5"	26'-0"	7,576	48	8"	39'-9"	1,275	114	39'-9"	3,027	56	5'-0"	187	147	4'-8"	458	11'-2"	1,097	34'-8"	93	72	204	2,264	580.4	2.6	297	93.2	23,513
5	8'-0"	5'-0"	8"	7"	194	#5	5"	43'-3"	8,751	194	#4	5"	11'-7"	1,501	8'-4"	1,080	194	#6	5"	34'-7"	10,077	60	8"	39'-9"	1,593	140	39'-9"	3,717	56	5'-0"	187	196	4'-8"	611	11'-2"	1,462	43'-3"	116	90	256	2,796	724.5	3.2	372	115.0	29,351
6	8'-0"	5'-0"	8"	7"	194	#5	5"	51'-10"	10,488	194	#4	5"	11'-7"	1,501	8'-4"	1,080	194	#6	5"	43'-2"	12,578	72	8"	39'-9"	1,912	166	39'-9"	4,408	56	5'-0"	187	245	4'-8"	764	11'-2"	1,828	51'-10"	138	106	301	3,328	868.7	3.9	439	137.0	35,185
2	8'-0"	6'-0"	8"	7"	194	#5	5"	17'-6"	3,541	194	#4	5"	12'-7"	1,631	8'-4"	1,080	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	68	39'-9"	1,806	56	6'-0"	224	49	4'-8"	153	13'-2"	431	17'-6"	47	38	108	1,265	300.6	1.3	155	51.9	12,179
3	8'-0"	6'-0"	8"	7"	194	#5	5"	26'-1"	5,278	194	#4	5"	12'-7"	1,631	8'-4"	1,080	194	#6	5"	17'-5"	5,075	36	8"	39'-9"	956	96	39'-9"	2,549	56	6'-0"	224	98	4'-8"	305	13'-2"	862	26'-1"	70	54	153	1,819	449.0	2.0	223	74.8	18,183
4	8'-0"	6'-0"	8"	7"	194	#5	5"	34'-8"	7,015	194	#4	5"	12'-7"	1,631	8'-4"	1,080	194	#6	5"	26'-0"	7,576	48	8"	39'-9"	1,275	124	39'-9"	3,293	56	6'-0"	224	147	4'-8"	458	13'-2"	1,293	34'-8"	93	72	204	2,372	596.1	2.6	297	97.5	24,142
5	8'-0"	6'-0"	8"	7"	194	#5	5"	43'-3"	8,751	194	#4	5"	12'-7"	1,631	8'-4"	1,080	194	#6	5"	34'-7"	10,077	60	8"	39'-9"	1,593	152	39'-9"	4,036	56	6'-0"	224	196	4'-8"	611	13'-2"	1,724	43'-3"	116	90	256	2,926	743.2	3.2	372	120.2	30,099
6	8'-0"	6'-0"	8"	7"	194	#5	5"	51'-10"	10,488	194	#4	5"	12'-7"	1,631	8'-4"	1,080	194	#6	5"	43'-2"	12,578	72	8"	39'-9"	1,912	180	39'-9"	4,780	56	6'-0"	224	245	4'-8"	764	13'-2"	2,155	51'-10"	138	106	301	3,479	890.3	3.9	439	143.1	36,051
2	8'-0"	7'-0"	8"	7"	194	#5	5"	17'-6"	3,541	194	#4	5"	13'-7"	1,760	8'-4"	1,080	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	68	39'-9"	1,806	56	7'-0"	224	49	4'-8"	153	15'-2"	496	17'-6"	47	38</td							

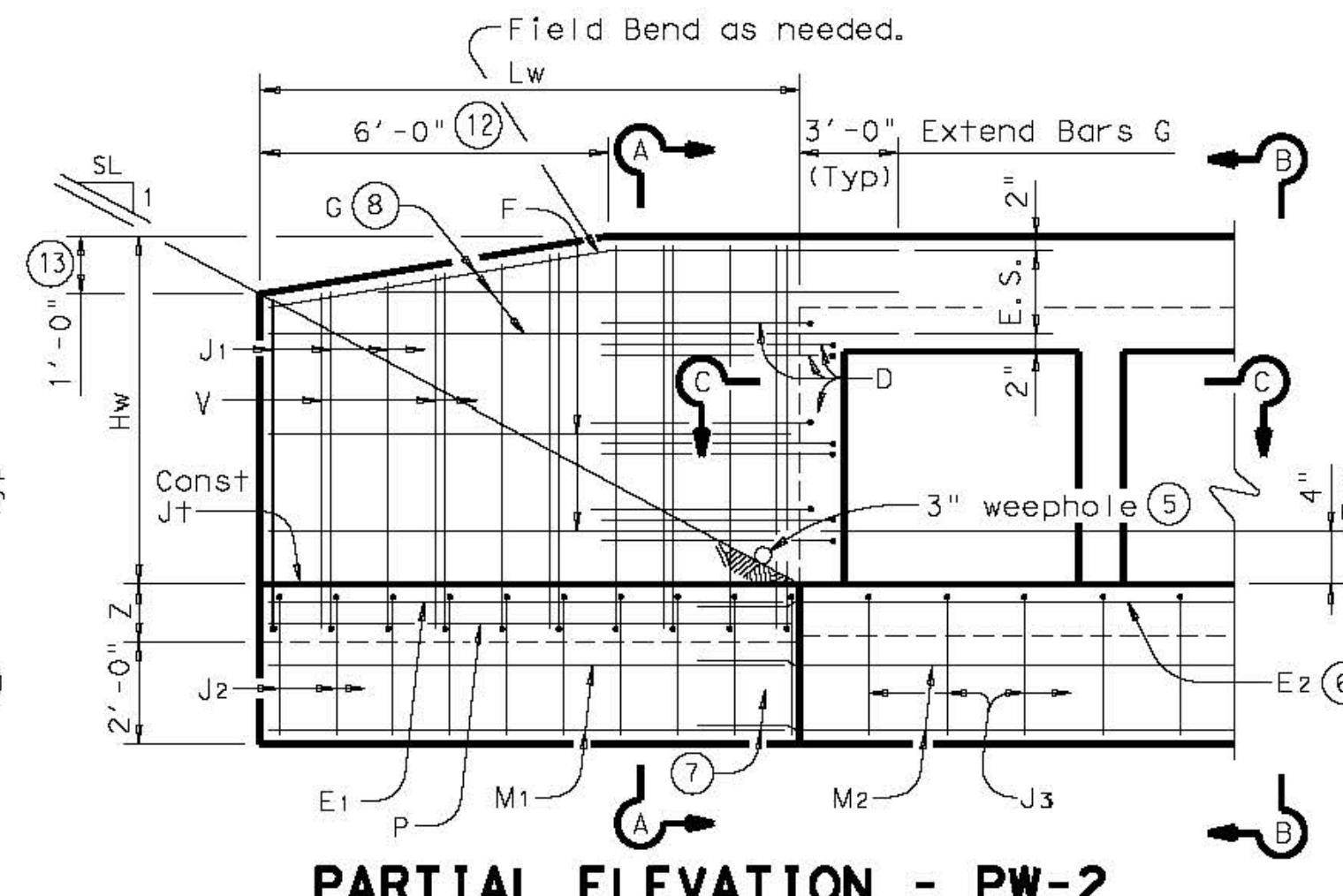
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DATE:  
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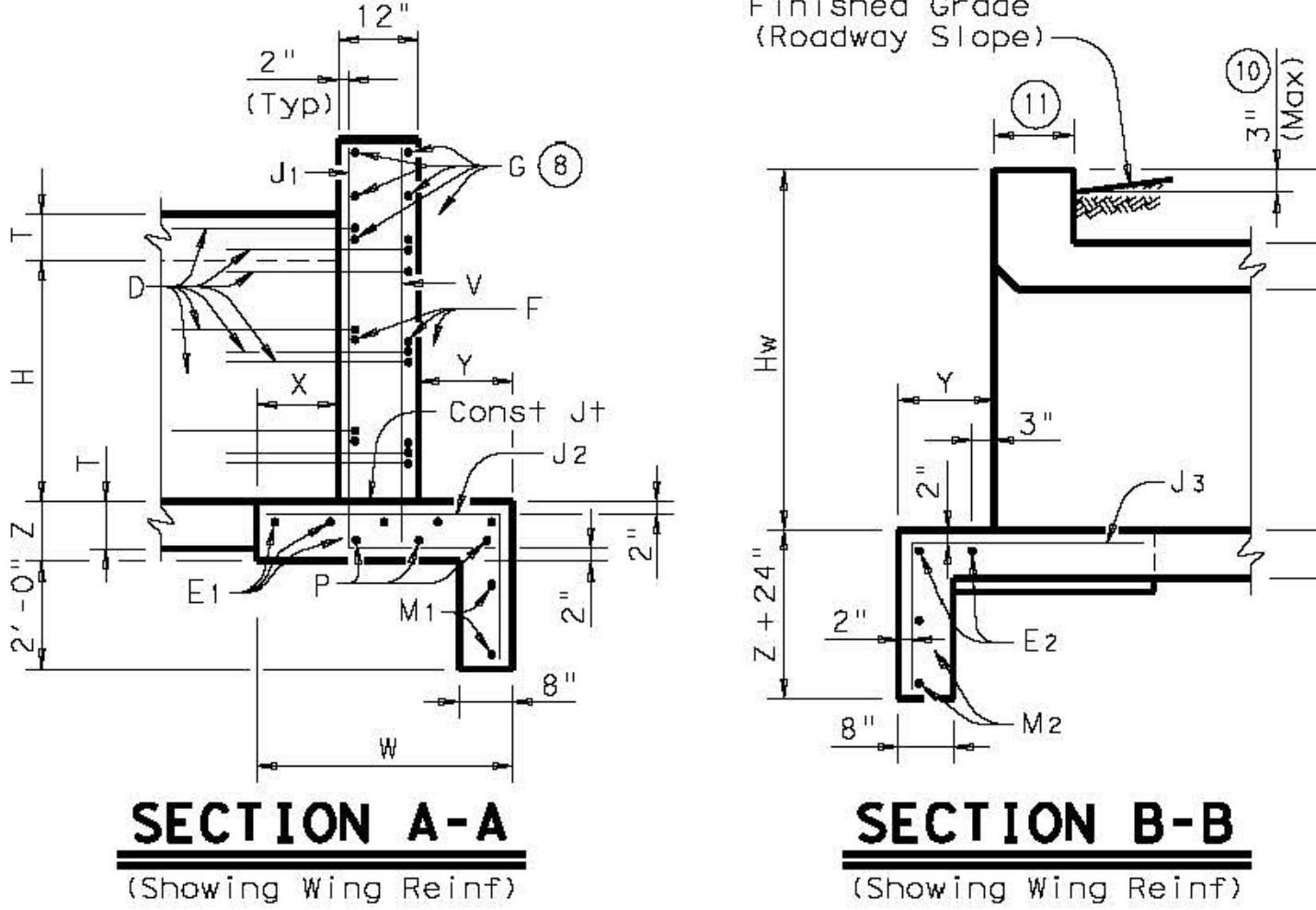
TABLE OF DIMENSIONS & REINFORCING STEEL (Wings for One Structure End)												
Dimensions			Variable Reinforcing		Estimated Quantities per ft. of wing (2-Wings)		Estimated Quantities per ft. of Toewall (1-Toewall)					
Maximum Wingwall Height Hw	W	X	Y	Z	Bars J1	Bars J2	Size Spa	Size Spa	Reinf (Lb/Ft)	Conc (CY/Ft)	Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'-10"	10"	1'-0"	7"	#4 1'-0"	#4 1'-0"	48.64	0.406	6.85	0.071		
2'-9"	2'-10"	10"	1'-0"	7"	#4 1'-0"	#4 1'-0"	49.31	0.424	6.85	0.071		
3'-0"	2'-10"	10"	1'-0"	7"	#4 1'-0"	#4 1'-0"	49.98	0.444	6.85	0.071		
3'-3"	2'-10"	10"	1'-0"	7"	#4 1'-0"	#4 1'-0"	53.32	0.462	6.85	0.071		
3'-6"	2'-10"	10"	1'-0"	7"	#4 1'-0"	#4 1'-0"	53.98	0.480	6.85	0.071		
4'-0"	3'-2"	1'-2"	1'-0"	7"	#4 1'-0"	#4 1'-0"	55.77	0.532	6.85	0.071		
4'-6"	3'-2"	1'-2"	1'-0"	7"	#4 1'-0"	#4 1'-0"	59.77	0.568	6.85	0.071		
5'-0"	3'-9"	1'-7"	1'-2"	7"	#4 1'-0"	#4 1'-0"	63.45	0.632	6.96	0.075		
5'-6"	3'-9"	1'-7"	1'-2"	7"	#4 1'-0"	#4 1'-0"	67.46	0.668	6.96	0.075		
6'-0"	4'-4"	2'-0"	1'-4"	7"	#5 1'-0"	#5 1'-0"	80.67	0.730	7.07	0.078		
6'-6"	4'-4"	2'-0"	1'-4"	7"	#5 1'-0"	#5 1'-0"	85.05	0.768	7.07	0.078		
7'-0"	5'-0"	2'-3"	1'-9"	8"	#5 1'-0"	#5 1'-0"	92.15	0.864	8.07	0.093		
7'-6"	5'-0"	2'-3"	1'-9"	8"	#5 1'-0"	#5 1'-0"	96.54	0.902	8.07	0.093		
8'-0"	5'-6"	2'-8"	1'-10"	8"	#5 6"	#5 6"	139.04	0.962	8.13	0.095		
8'-6"	5'-6"	2'-8"	1'-10"	8"	#5 6"	#5 6"	144.47	1.000	8.13	0.095		
9'-0"	6'-0"	2'-10"	2'-2"	9"	#5 6"	#5 6"	156.93	1.136	8.41	0.110		
10'-0"	6'-5"	3'-0"	2'-5"	9"	#6 6"	#5 6"	196.27	1.234	8.57	0.117		
11'-0"	7'-2"	3'-6"	2'-8"	11"	#6 6"	#6 6"	230.13	1.438	9.52	0.140		
12'-0"	7'-8"	3'-9"	2'-11"	1'-0"	#7 6"	#6 6"	283.41	1.592	9.74	0.157		
13'-0"	8'-2"	4'-0"	3'-2"	#8 6"	#6 6"	348.72	1.804	10.02	0.186			
14'-0"	8'-10"	4'-5"	3'-5"	#9 6"	#6 6"	432.94	2.046	10.30	0.218			
15'-0"	9'-6"	4'-10"	3'-8"	1'-6"	#9 6"	#7 6"	489.52	2.302	11.24	0.253		
16'-0"	9'-11"	5'-0"	3'-11"	1'-7"	#9 6"	#7 6"	505.72	2.448	11.47	0.279		



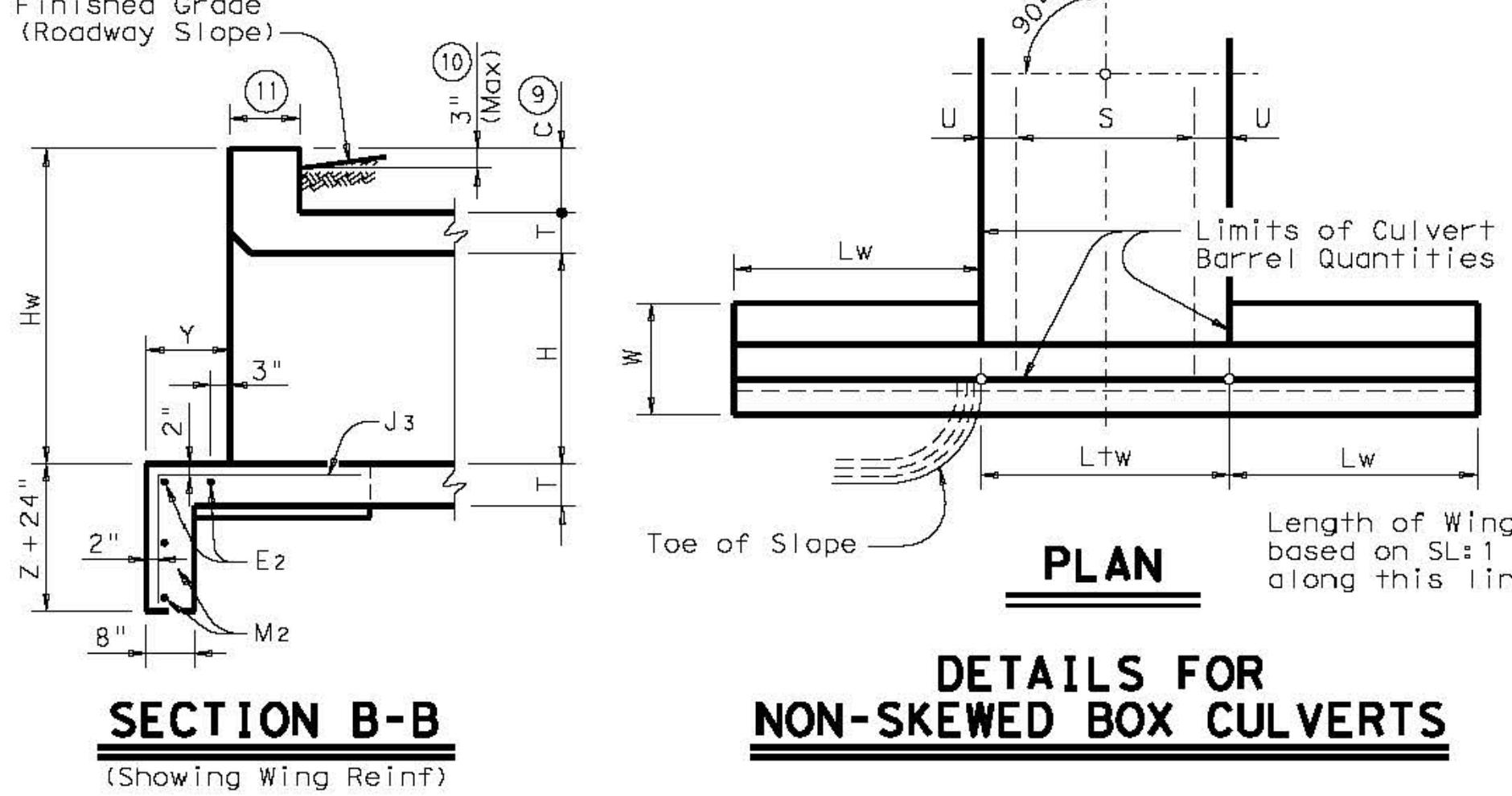
PARTIAL ELEVATION - PW-1



PARTIAL ELEVATION - PW-2



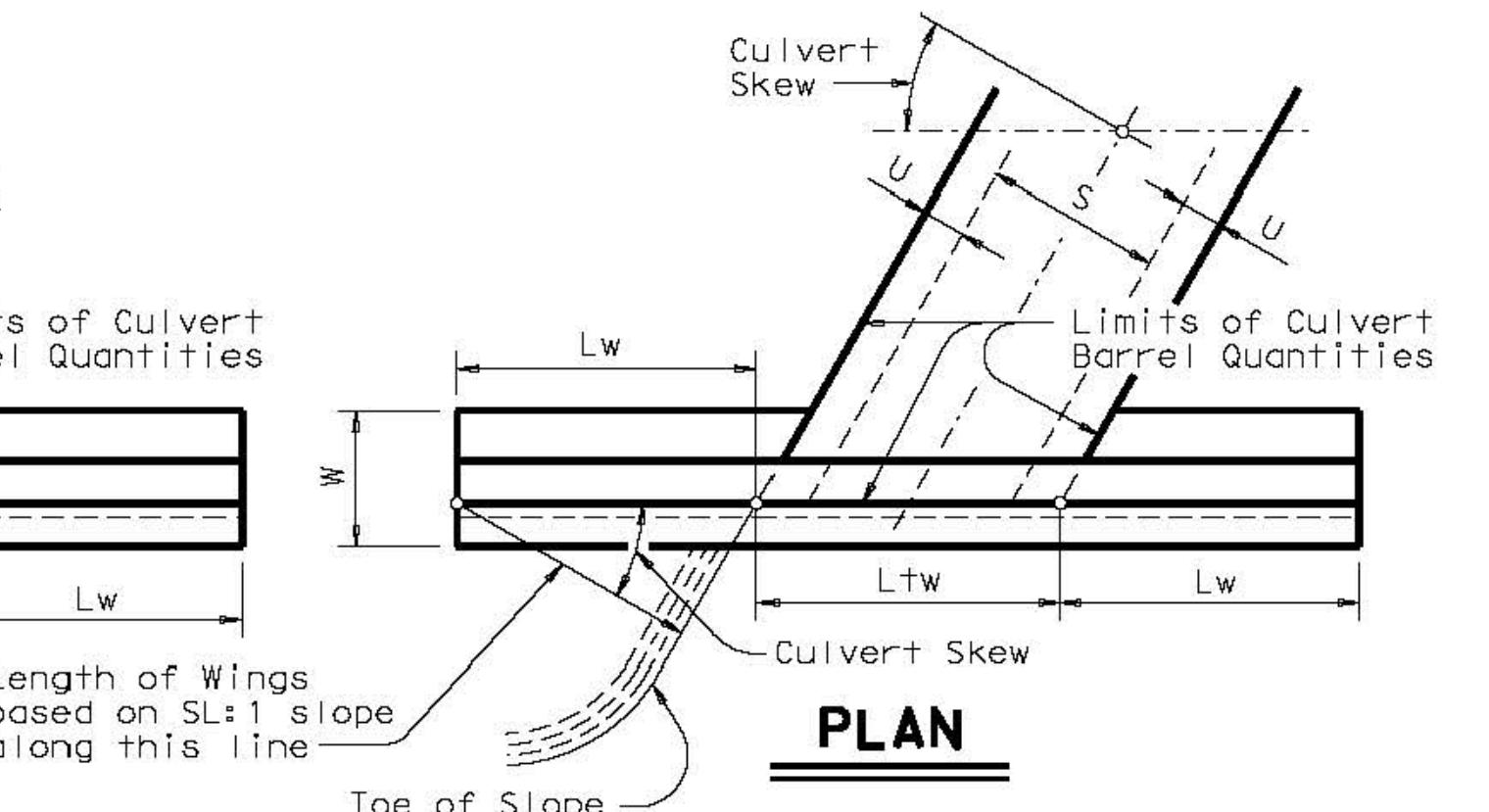
SECTION A-A



SECTION B-B

DETAILS FOR  
NON-SKEWED BOX CULVERTS

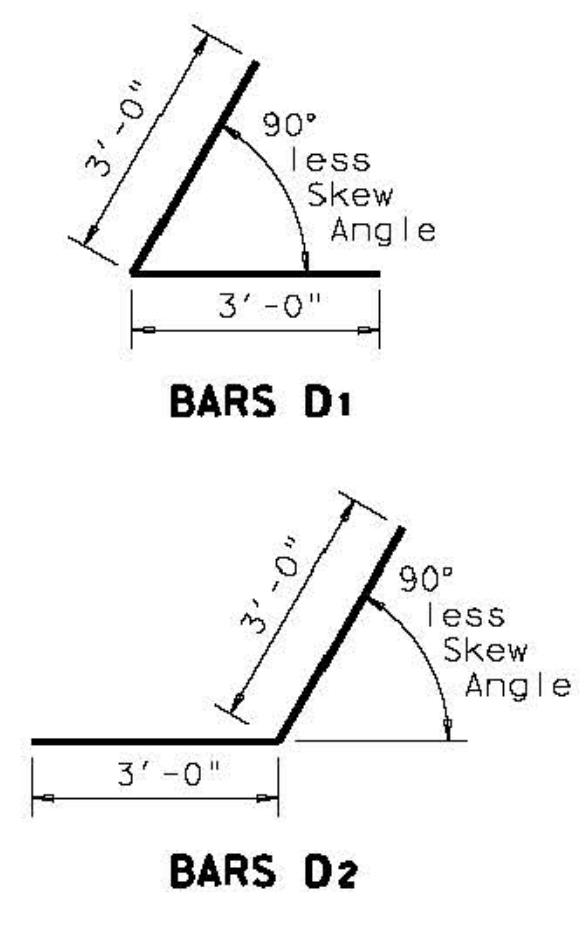
(Showing Wing Reinf)



DETAILS FOR  
SKEWED BOX CULVERTS

(Showing 30° Skew)

TABLE OF WINGWALL REINFORCING (2-Wings)			
Bar Size	No.	Spa	
D1 #6		~ 1'-0"	
D2 #6		~ 1'-0"	
E1 #4		~ 1'-0"	
F #4		~ 1'-0"	
G #6		~ 8"	
M1 #4	4	~	
P #4		~ 1'-0"	
V #4		~ 1'-0"	



#### WING DIMENSION CALCULATIONS:

Formulas: (All values are in Feet)

$$\begin{aligned} Hw &= H + T + C \\ Lw &= (Hw - (SL)) \div \text{Cosine } \theta \text{ for Ty PW-1} \\ &= (Hw - 1') \cdot (SL) \div \text{Cosine } \theta \text{ for Ty PW-2 and } Hw \geq 4' \\ &= (Hw - 0.5') \cdot (SL) \div \text{Cosine } \theta \text{ for Ty PW-2 and } Hw < 4' \end{aligned}$$

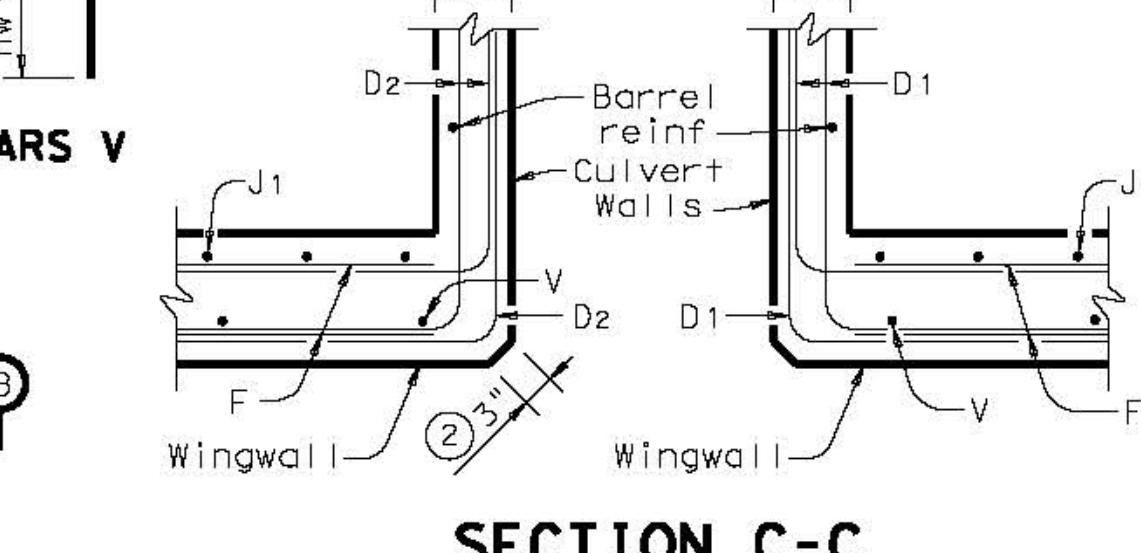
For Cast-in-place culverts:  
 $Ltw = [(N) (S) + (N + 1) (U)] \div \text{Cosine } \theta$

$$\begin{aligned} \text{Total Wingwall Area (Two Wings ~ SF)} &= (2) (Hw) (Lw) \text{ for Ty PW-1} \\ &= (2) (Hw) (Lw) - 6 \text{ SF for Ty PW-2 and } Hw \geq 4' \\ &= (2) (Hw) (Lw) - 1.5 \text{ SF for Ty PW-2 and } Hw < 4' \end{aligned}$$

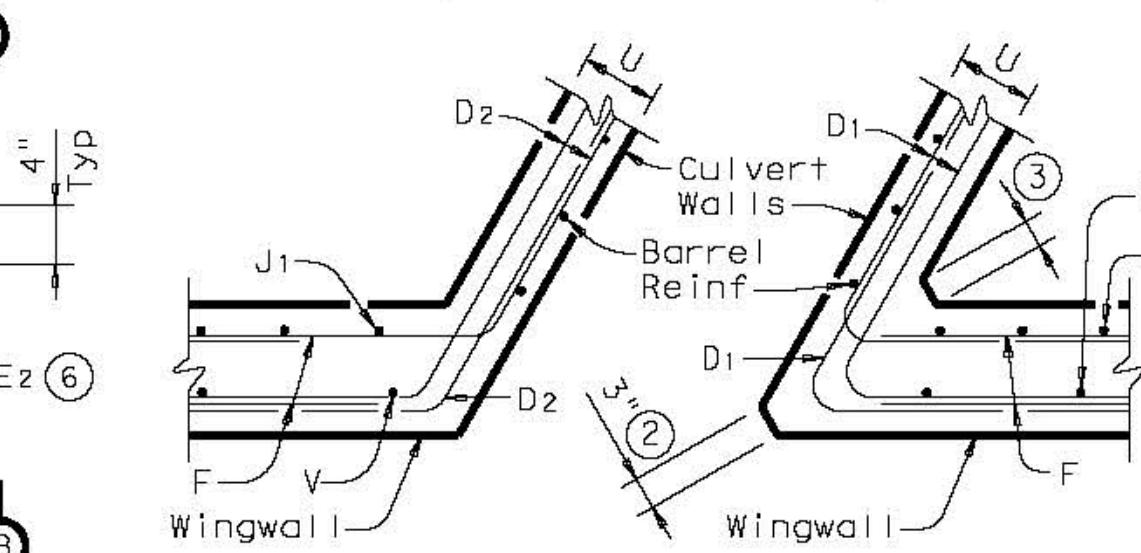
TABLE OF TOEWALL REINFORCING			
Bar Size	No.	Spa	
J3 #4		~ 1'-0"	
M2 #4	2	~	
E2 #4		~ 1'-0"	



See applicable box culvert standard for S, H, T and U values.



SECTION C-C



SECTION C-C

- ① Skew Angle = 0°
- ② At discharge end, chamfer may be 3/4".
- ③ For 15° Skew ~ 1"
- ④ Quantities shown are for two Type PW-1 wings. Adjust concrete volume for Type PW-2 wings. To determine estimated quantities for two wings, multiply the tabulated values by Lw. Quantities shown do not include weight of Bars D.
- ⑤ Provide weepholes for Hw = 5'-0" and greater. Fill around weepholes with coarse gravel.
- ⑥ Extend Bars E2 1'-6" minimum into the wingwall footing.
- ⑦ Lap Bars M1 1'-6" minimum with Bars M2.
- ⑧ Bars G equally spaced at 8" maximum, place as shown. Provide at least two pair Bars G per wing.
- ⑨ 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 ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
- ⑩ For vehicle safety, the following requirements must be met:
  - For structures without bridge rail, curbs cannot project more than 3" above finished grade.
  - For structures with bridge rail, build curbs flush with finished grade. Reduce 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.
- ⑪ 1'-0" typical. 2'-0" typical when RAC standard is referenced elsewhere in the plans.
- ⑫ 3'-0" for Hw < 4'.
- ⑬ 6" for Hw < 4'.

#### GENERAL NOTES:

Designed in accordance with AASHTO LRFD Bridge Design Specifications.  
Provide Class "C" Concrete ( $f'c = 3,600 \text{ psi Min}$ ) and Grade 60 reinforcing steel.  
Provide 1 1/4" Min clear cover to reinforcing steel.  
Depth of toewalls for wingwalls and culverts may be reduced or eliminated when founded on solid rock, when directed by the Engineer.  
See BCS sheet for wingwall type and additional dimensions and information.

The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for the Contractor's information only.

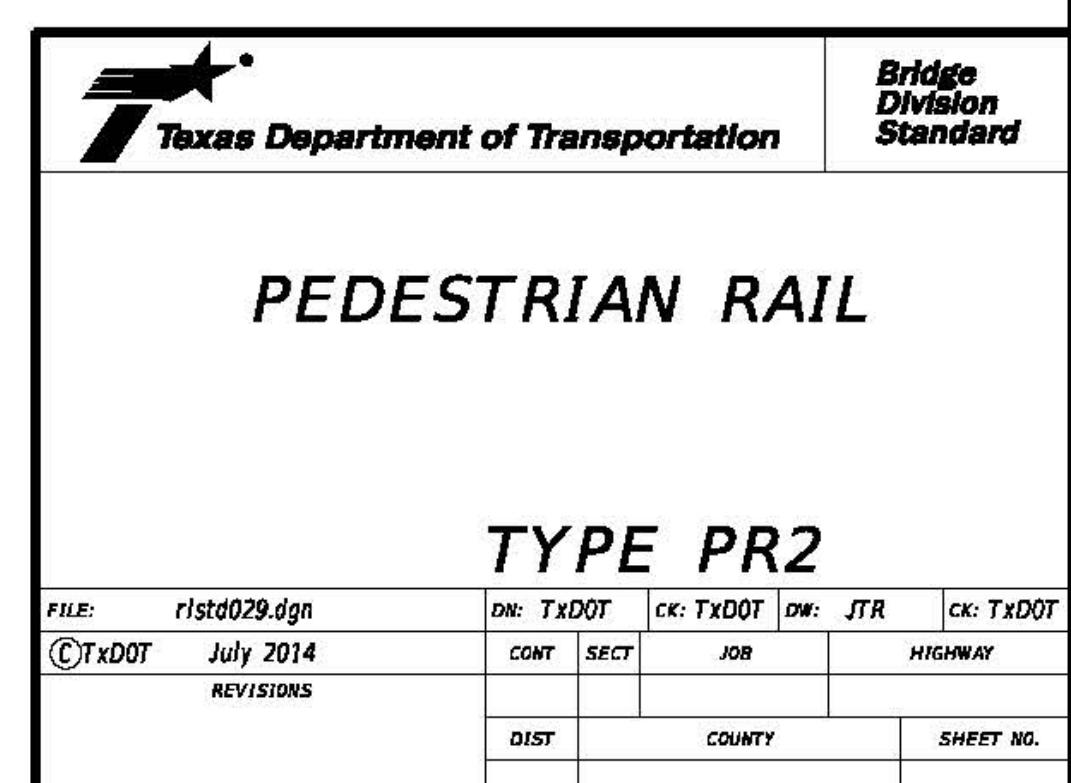
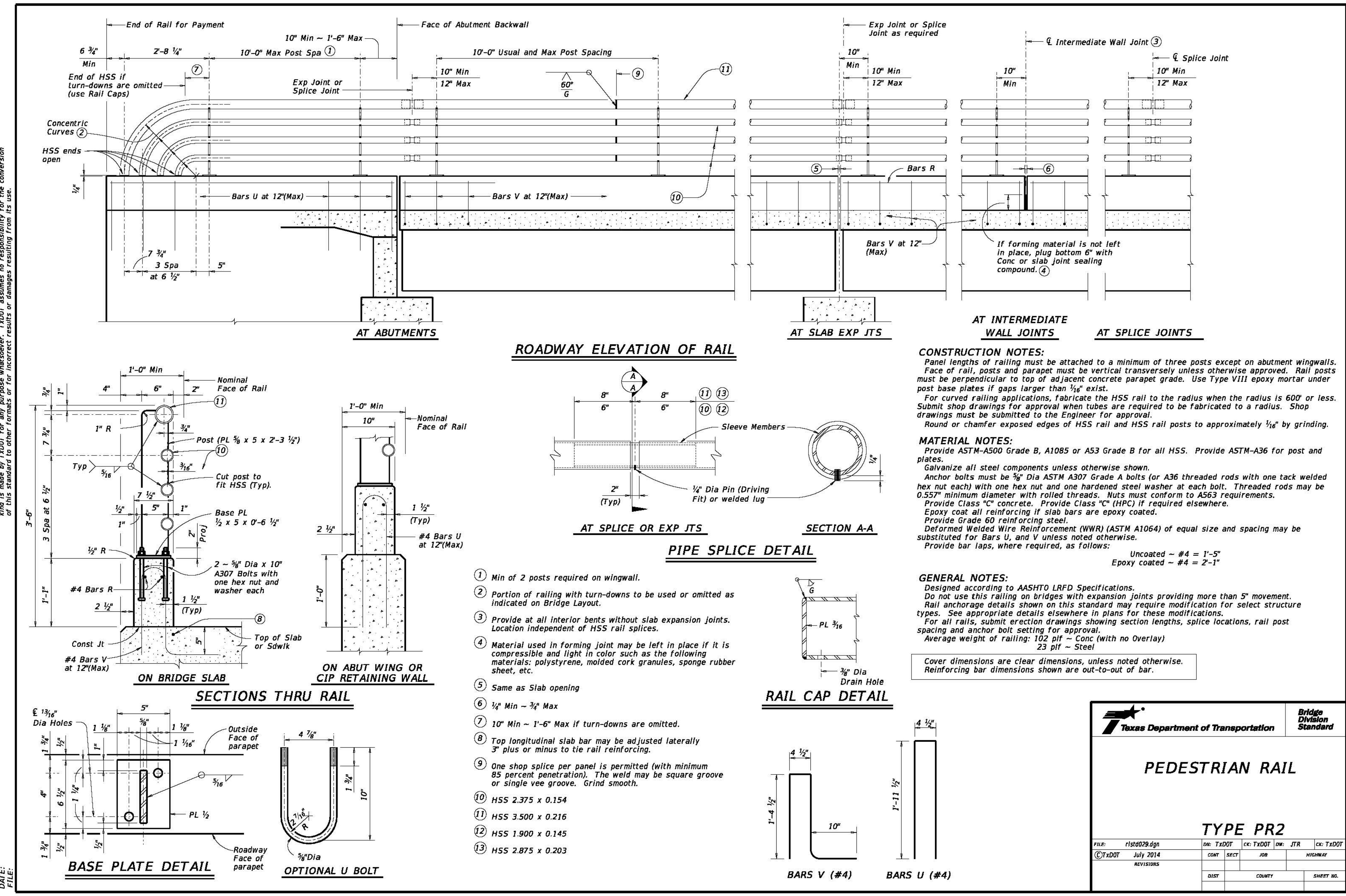
#### DESIGNER NOTES:

Type PW-1 can be used for all applications and must be used if railing is to be mounted to the wingwall.

Type PW-2 can only be used for applications without a railing mounted to the wingwall.

<b>Texas Department of Transportation</b>		<b>Bridge Division Standard</b>
<b>CONCRETE WINGWALLS WITH PARALLEL WINGS FOR BOX CULVERTS TYPES PW-1 AND PW-2</b>		
FILE: pwstde01.dgn	DN: GAF	CK: CAT
©TxDOT February 2010	CONT SECT	JOB HIGHWAY
REVISIONS		
11-10: Reinforcing Quantities. 01-12: PW-1 & PW-2.	DIST	COUNTY
		SHEET NO.

BASS AND WELSH ENGINEERING TX REGISTRATION NO. F-52, 3054 S. ALAMEDA STREET CORPUS CHRISTI, TEXAS 78404		
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 1 CORPUS CHRISTI, NUECES CO., TX		
TXDOT CONCRETE WINGWALLS W/PARALLEL WINGS FOR BOX CULVERTS, PW-1 & PW-2		
DWN:	PLOT SCALE: 1" = 60'	PARALLEL WINGWALLS
CHK:	SCALE (V): AS SHOWN	JOB NO.: 18068
	SCALE (V): AS SHOWN	COM. NO.
	DATE PLOTTED 02/18/20	SHEET 31 OF 33

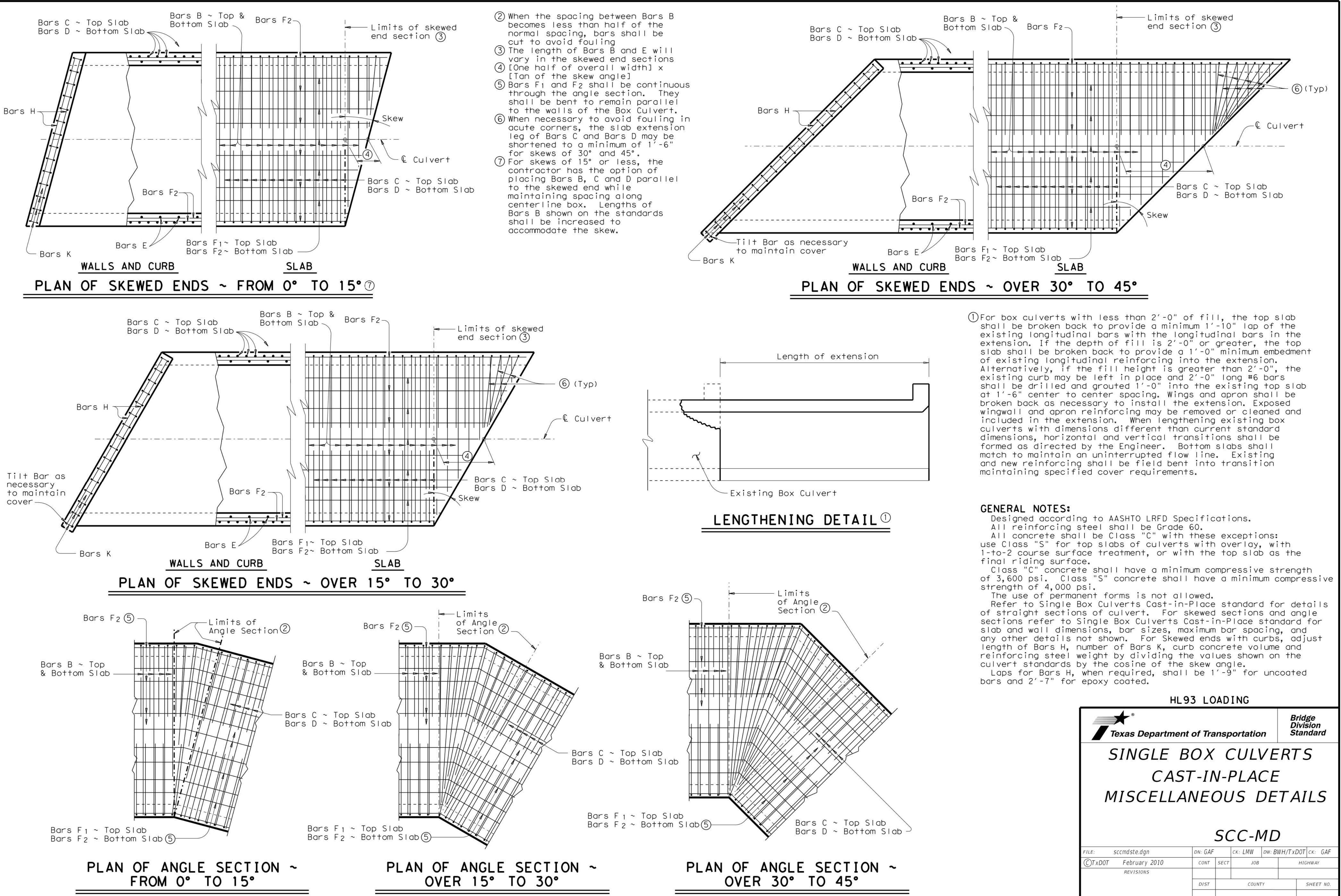


THIS DOCUMENT IS RELEASED FOR  
THE PURPOSE OF INTERIM REVIEW  
UNDER THE AUTHORITY OF NIXON  
M. WELSH, P.E. NO. 36240 OF  
BASS AND WELSH ENGINEERING, F  
52. IT IS NOT TO BE USED FOR  
CONSTRUCTION OR BIDDING  
PURPOSES.

BASS AND WELSH ENGINEERING TX REGISTRATION NO. F-52, 3054 S. ALAMEDA STREET CORPUS CHRISTI, TEXAS 78404
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 1 CORPUS CHRISTI, NUECES CO., TX
TXDOT PEDESTRIAN RAIL, TYPE PR-2

PLOT SCALE: 1" = 60'  
SCALE (V): AS SHOWN  
SCALE (V): AS SHOWN  
DATE PLOTTED 02/18/20 SHEET 32 OF 33  
COM. NO. TXDOT PR.DWG  
JOB NO. 18068

**DISCLAIMER:**  
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for incorrect results or damages resulting from its use.



DATE:  
FILE:

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF NIXON M. WELSH, P.E. NO. 36240 OF BASS AND WELSH ENGINEERING, F 52. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.

BASS & WELSH ENGINEERING		
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO. F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78404		
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 1 CORPUS CHRISTI, NUECES CO., TX		
TxDot SINGLE BOX CULVERTS, CAST IN PLACE, MISCELLANEOUS DETAILS, SCC-MD		
DW:	PLOT SCALE:	1=60'
CHK:	SCALE (H):	SAME
N. WELSH	SCALE (V):	NDNE
	DATE PLOTTED:	02/18/20
	SHEET NO.	33 OF 33

NIXON M. WELSH, P.E., R.P.L.S.  
Email: NixMW@aol.com

BASS WELSH ENGINEERING  
TX Registration No. F-52  
Survey Registration No. 100027-00  
P.O. Box 6397  
Corpus Christi, TX 78466-6397

3054 S. Alameda St.

18068-PCE-SS  
COLLECTION  
03/30/2020

KING'S LANDING UNIT 1  
PRELIMINARY COST ESTIMATE  
12" COLLECTION MAIN  
SANITARY SEWER ITEMS REIMBURSABLE BY CITY

OFFSITE SANITARY SEWER COLLECTION MAIN ITEMS					
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	12" PVC PIPE	1682	LF	75.00	126,150.00
2	DEWATERING FOR 12" PVC PIPE	1682	LF	40.00	67,280.00
3	MANHOLE	3	EA	7,500.00	22,500.00
4	TRENCH SAFETY FOR 12" PIPE	1682	LF	5.00	8,410.00

SUBTOTAL \$224,340.00

7.5% ENGINEERING, SURVEYING, & TESTING 16,825.50

SUBTOTAL \$241,165.50

LESS WASTEWATER DISTRIBUTION FEE (COMMERCIAL LOTS) -122,600.84

LESS WASTEWATER DISTRIBUTION FEE (RESIDENTIAL LOTS) -72,957.24

**TOTAL AMOUNT REIMBURSABLE \$45,607.42**



**Exhibit 4**



**City of  
Corpus  
Christi**

**City of Corpus Christi, Texas**  
Department of Development Services  
P.O. Box 9277  
Corpus Christi, Texas 78469-9277  
(361) 826-3240  
Located at: 2406 Leopard Street  
(Corner of Leopard St. and Port Ave.)

### DISCLOSURE OF INTERESTS

City of Corpus Christi Ordinance 17112, as amended, requires all persons or firms seeking to do business with the City to provide the following information. Every question must be answered. If the question is not applicable, answer with "NA".

### NAME: SEE ATTACHED SIGNATURE SHEET

**STREET:** \_\_\_\_\_ **CITY:** \_\_\_\_\_ **ZIP:** \_\_\_\_\_

**FIRM is:**  Corporation  Partnership  Sole Owner  Association  Other \_\_\_\_\_

### DISCLOSURE QUESTIONS

If additional space is necessary, please use the reverse side of this page or attach separate sheet.

- 1. State the names of each "employee" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".**

Name Job Title and City Department (if known)

N/A

N/A

- 2. State the names of each "official" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".**

Name Title

N/A

N/A

- 3. State the names of each "board member" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".**

Name Board, Commission, or Committee

N/A

N/A

- 4. State the names of each employee or officer of a "consultant" for the City of Corpus Christi who worked on any matter related to the subject of this contract and has an "ownership interest" constituting 3% or more of the ownership in the above named "firm".**

Name Consultant

N/A

N/A

### CERTIFICATE

I certify that all information provided is true and correct as of the date of this statement, that I have not knowingly withheld disclosure of any information requested; and that supplemental statements will be promptly submitted to the City of Corpus Christi, Texas as changes occur.

Certifying Person: \_\_\_\_\_ Title: \_\_\_\_\_  
(Print)

Signature of Certifying Person: \_\_\_\_\_ Date: \_\_\_\_\_

## **DEFINITIONS**

- a. "Board Member". A member of any board, commission or committee appointed by the City Council of the City of Corpus Christi, Texas.
- b. "Employee". Any person employed by the City of Corpus Christi, Texas, either on a full or part time basis, but not as an independent contractor.
- c. "Firm". Any entity operated for economic gain, whether professional, industrial or commercial and whether established to produce or deal with a product or service, including but not limited to, entities operated in the form of sole proprietorship, as self-employed person, partnership, corporation, joint stock company, joint venture, receivership or trust and entities which, for purposes of taxation, are treated as non-profit organizations.
- d. "Official". The Mayor, members of the City Council, City Manager, Deputy City Manager, Assistant City Managers, Department and Division Heads and Municipal Court Judges of the City of Corpus Christi, Texas.
- e. "Ownership Interest". Legal or equitable interest, whether actually or constructively held, in a firm, including when such interest is held through an agent, trust, estate or holding entity. "Constructively held" refers to holding or control established through voting trusts, proxies or special terms of venture or partnership agreements.
- f. "Consultant". Any person or firm, such as engineers and architects, hired by the City of Corpus Christi for the purpose of professional consultation and recommendation.

**OWNERS:**

The William Earl Hensch Trust  
William Earl Hensch, Trustee  
5027 Holly Road  
Pasadena, Tx 77503  
Phone: 713 417-7122

Anna Belle Hensch  
1009 Peerman Place  
Corpus Christi, Tx 78411  
Phone: 361 444-5800

Retta Maurine Kasper  
4805 Velma  
Killeen, Tx 76542  
Phone: 254 462-2976

Corpus Christi Community Church  
4833 Saratoga Blvd #259  
Corpus Christi, Tx 78413  
Scott Mcdonald 361 420-0022  
Also, James F. Dodson  
4222 Fm 665, Robstown, Tx 78380  
Phone: 361 877-3222

South Texas Children's Home Land Management  
Po Box 548  
Beeville, Tx 78104-0548

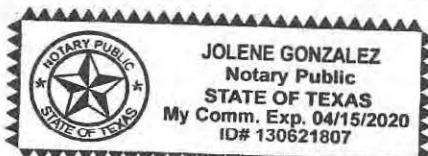
## SIGNATURES

within East Hazel

**William Earl Hensch, Trustee  
The William Earl Hensch Trust**

STATE OF TEXAS §  
COUNTY OF NUECES §

This instrument was acknowledged before me on the 21st, day of June 2019, by  
William Earl Hensch, Trustee, The William Earl Hensch Trust, an owner of the subject tract.



Anna Belle Hensch  
Anna Belle Hensch, Owner

*Jane H. H.*  
Notary Public, State of Texas

STATE OF TEXAS §  
COUNTY OF NUECES §

This instrument was acknowledged before me on the 17<sup>th</sup>, day of JUNE 2019, by  
Anna Belle Hensch, an owner of the subject tract.



Melinda Gibson  
Notary Public, State of Texas

NMW:sab

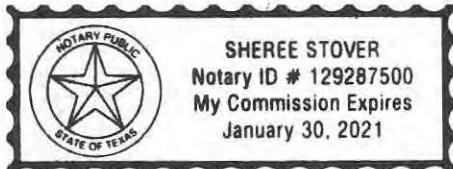
*Retta Maurine Kasper*

Retta Maurine Kasper, Owner

STATE OF TEXAS §

COUNTY OF NUECES §

This instrument was acknowledged before me on the 26, day of June 2019, by  
Retta Maurine Kasper, an owner of the subject tract.



*Sheree Stover*  
Notary Public, State of Texas

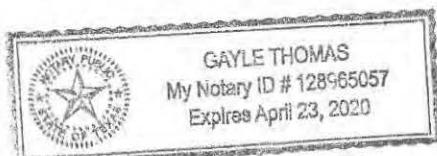
*X DLSM21*

Scott McDonald, Agent  
Corpus Christi Community Church

STATE OF TEXAS §

COUNTY OF NUECES §

This instrument was acknowledged before me on the 29, day of June 2019, by  
Scott McDonald, Agent for Corpus Christi Community Church, an owner of the subject tract.



*Gayle Thomas*  
Notary Public, State of Texas

Eron Green, Registered Agent  
South Texas Children's Home Land Management

STATE OF TEXAS §

COUNTY OF NUECES §

This instrument was acknowledged before me on the \_\_\_\_\_, day of \_\_\_\_\_ 2019, by  
Eron Green as Registered Agent of South Texas Children's Home Land Management, owner of the subject  
tract.

Notary Public, State of Texas



City of  
Corpus  
Christi

City of Corpus Christi, Texas  
Department of Development Services  
P.O. Box 9277  
Corpus Christi, Texas 78469-9277  
(361) 826-3240  
Located at: 2406 Leopard Street  
(Corner of Leopard St. and Port Ave.)

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1. State the names of each "employee" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".

Name

N/A

Job Title and City Department (if known)

N/A

2. State the names of each "official" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".

Name

N/A

Title

N/A

3. State the names of each "board member" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm".

Name

N/A

Board, Commission, or Committee

N/A

4. State the names of each employee or officer of a "consultant" for the City of Corpus Christi who worked on any matter related to the subject of this contract and has an "ownership interest" constituting 3% or more of the ownership in the above named "firm".

Name

N/A

Consultant

N/A

### CERTIFICATE

I certify that all information provided is true and correct as of the date of this statement, that I have not knowingly withheld disclosure of any information requested; and that supplemental statements will be promptly submitted to the City of Corpus Christi, Texas as changes occur.

Certifying Person: Moss/mos/teffel \_\_\_\_\_  
(Print)

Title: Lead Senior Partner

Signature of Certifying Person: [Signature] \_\_\_\_\_ Date: \_\_\_\_\_