

**PARTICIPATION AGREEMENT
For the Subdivision of King's Landing Unit 11
Subject to Pilot Program for Roller
Compacted Concrete Roadway Improvements**

This PARTICIPATION AGREEMENT ("Agreement") is entered into between the City of Corpus Christi (referred to in this Agreement as "City"), a Texas home-rule municipal corporation, acting by and through its City Manager, or designee, and MPM Development LP, (referred to in this Agreement as "Developer"), a Texas Limited Partnership.

WHEREAS, Developer desires to develop and plat the Property designated on **Exhibit 1** of this Agreement, which exhibit is attached to and incorporated in this Agreement by reference, to be known as King's Landing Unit 11 (Unit 11");

WHEREAS, as a condition of the Plat for Unit 11, the Developer is required to expand, extend, and construct Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive as depicted on and following the improvement requirements outlined in **Exhibit 2**, which exhibit is attached to and incorporated in this Agreement by reference;

WHEREAS, the Developer is oversizing by constructing Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive as a C-3 collector street in lieu of 28' residential local streets;

WHEREAS, the Developer desires to utilize Roller Compacted Concrete (referred to in this Agreement as "RCC pavement") for the Roadway Improvements within the King's Landing Subdivision pursuant to the Pilot Program for Roller Compacted Concrete Roadway Improvements Agreement (referred to in this Agreement as "Pilot Program") executed July 25, 2022, as may be amended;

WHEREAS, the Developer is willing to warranty Roller Compacted Concrete Roadway Improvement for 10 years;

WHEREAS, it is in the best interests of the City to have the public street infrastructure installed by the Developer in conjunction with the final Plat;

WHEREAS, Section 212.071 of the Texas Local Government Code authorizes a municipality to make a contract with a developer of a subdivision or land in the municipality to construct public improvements related to the subdivision or land; and

WHEREAS, this Agreement is made pursuant to Section 212.071 & 212.072 of the Texas Local Government Code and Article 8, Section 8.4.1, of the Unified Development Code of the City of Corpus Christi.

NOW, THEREFORE, in order to provide a coordinated public street construction and improvement project, the City and the Developer agree as follows:

Section 1. **RECITALS**. The parties agree that the language contained in the preamble of this Agreement is substantive in nature, is incorporated into this Agreement by reference, and has been relied on by both parties in entering and executing this Agreement.

Section 2. **ROLLER COMPACTED CONCRETE PAVEMENT**. Per this Pilot Program, the City agrees that it will authorize the use of roller compacted concrete pavement (as that term is defined by the RCC Pavement Council) for the King's Landing Unit 11 per the terms of the Pilot Program.

- (a) Developer agrees to construct all roadway improvements within Kings Landing Subdivision Unit 11 with roller compacted concrete pavement (RCC pavement), except those portions of the roadways that are cul-de-sacs, in which case traditional rebar-reinforced portland cement concrete pavement shall be utilized in conformance with the City's Unified Development Code and City Design Standards.
- (b) For King's Landing Unit 11, Developer shall construct the RCC pavement in accordance with the site-specific geotechnical report as depicted in **Exhibit 3** and engineering plans and specifications as depicted in **Exhibit 2**. Concrete curb and gutter construction shall be constructed to City Design Standards.
- (d) Developer will construct collector streets with at least 8 inches thick roller compacted concrete. All residential local streets smaller than a collector street will be constructed with at least 7 inches thick roller compacted concrete.
- (e) Prior to installation of the RCC pavement, the Engineer of Record and the Geotechnical Engineer must review and approve all material submittals associated with RCC pavement prepared by the general contractor, and provide reviewed and approved submittal copies to the City.
- (f) Prior to installation of the RCC pavement, Developer shall submit the experience record of the RCC pavement operators and installers to the City Engineer for review. All contractors involved with the construction operations of the RCC pavement, including maintenance, repair, and replacement, must have at least five (5) years' experience in the day-to-day installation, field management, and oversight of RCC pavement projects and meet all insurance and indemnification requirements of the City Contract under which the original RCC pavement was constructed, unless modified by mutual agreement. Associated Insurance Certificates shall be submitted to the City prior to beginning work
- (g) Prior to installation of RCC pavement, Developer shall obtain approval of construction engineering plans from the City Engineer.
- (h) Prior to the acceptance of roadway improvements, the Developer's Engineer of Record must submit record drawings to the City certifying that the RCC pavement was constructed in strict accordance with the approved construction drawings and technical specifications.

The authorization to utilize RCC pavement per this Agreement and the Pilot Program is limited to the King's Landing Subdivision. The City may terminate this Authorization to use RCC pavement at any time for any reason and require future streets within Kings Landing subdivision be constructed with rebar-reinforced portland cement concrete pavement meeting City Design Standards.

Section 3. **TERM**. This Agreement becomes effective, is binding upon, and inures to the benefit of the City and the Developer from and after the date of the last signatory to this Agreement. Within King's Landing Unit 11, the Developer must complete the Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive within 24 calendar months from the date this document is executed by the City. Time is of the essence in the performance of this contract.

Section 4. **DEVELOPER PARTICIPATION**. Subject to the terms of this Agreement, the Developer will construct Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive C-3 collector streets with at least 8-inch thick RCC pavement per **Exhibit 2** and **Exhibit 3**, for and on behalf of the City in

accordance with the plans and specifications approved in advance of construction by the City Engineer on behalf of the City. The parties acknowledge and confirm the total cost estimate for construction of the Roadway Improvements, which estimate is attached to and incorporated in this Agreement as **Exhibit 4** (the "Cost Estimate"). Subject to the limitations set forth below, the Developer shall pay a portion of the construction costs of Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive.

Section 5. **CITY PARTICIPATION**. Notwithstanding any other provision of this Agreement, the total amount that the City shall pay for the City's agreed share of the actual costs of the Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive shall not exceed **\$944,506.80**.

Section 6. **REIMBURSEMENT**. The Developer shall be responsible for the entire up-front expenses of the Roadway Improvements for Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive. The City shall reimburse the Developer upon completion of all Roadway Improvements within Kings Landing Unit 11 contingent upon the certificate of acceptance issued by the City Engineer, sworn certification on City form that the Developer has paid all contractors and subcontractors in full, and presentment of the maintenance bond. Such reimbursement will be payable to the Developer at the address in the Notice Section of this Agreement.

Section 7. **PERFORMANCE AND PAYMENT BOND**.

Before beginning the work that is the subject of this Agreement, Developer shall provide (or cause its Contractor to provide) the City with a performance bond and a payment bond on City's approved Performance and Payment Bond forms, said forms attached hereto and labeled as **Exhibit 5** and **Exhibit 6**, in accordance with and in satisfaction of Section 212.073 of the Texas Local Government Code in the estimated amount of the construction costs for Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive, reflecting City as Obligee thereunder. Bonds furnished must meet the requirements of Texas Insurance Code 3503, Texas Government Code 2253, and all other applicable laws and regulations. The amount of the performance and payment bonds shall be the full cost of to construct Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive to ensure the completion of the project.

Section 8. **MAINTENANCE**.

(a) During the period of at least 7 years following acceptance of roadway improvements, all maintenance and repairs of the Roadway Improvements in the King's Landing subdivision Unit 11 will be performed entirely and exclusively by Developer. Failure of the Developer to promptly complete all maintenance and repairs of all streets in this subdivision will be a violation and breach of this agreement. The Developer shall complete all such maintenance or repairs of the streets within 120 days after being requested in writing to do so by the City Engineer.

(b) Any deficiencies occurring during the Maintenance Period shall be immediately repaired at Developer's sole expense in accordance with the repair and replacement descriptions below and in accordance with the Pilot Program.

Deficiencies requiring repair shall include:

1. Minor Cracks. any crack greater than 1/8-inch and less than 1/4-inch other than cut joints;

2. Minor Differential Vertical Separation. any differential vertical separation between RCC pavement panels equal to or less than 1/8-inch across the joint;

3. Minor Spalling. any spalling, honeycombing, or other defects less than 2 square feet or less than 1-inch deep;
4. Minor Curb Separation. any separation of RCC pavement from curb and gutter equal to or less than 1/8 inch; and
5. Joint Sealant. any separated, cracked, or missing joint sealants.

(c) Repairs shall include:

1. Minor Cracks. Any crack greater than 1/8-inch and less than 1/4-inch width shall be sealed with a City-approved flowable elastomeric pavement crack sealant (Sikaflex or equal). Minor cracks will not include any differential vertical movement (up-down) greater than 1/8-inch across the joint.
2. Minor Differential Vertical Separation. Any differential vertical separation between RCC pavement panels equal to or less than 1/8-inch across the joint shall be diamond grinded to eliminate differential vertical separation.
3. Minor Spalling. Any surface spalling of areas less than 2 square feet or less than 1-inch deep shall be high-pressure wash prepared to remove all dirt, debris, and loose material, prepared with a bonding agent, and filled with a low-shrink epoxy modified grout.
4. Minor Curb Separation. Any separation of RCC pavement from curb and gutter equal to or less than 1/8-inch shall be sealed with a City-approved flowable elastomeric pavement crack sealant (Sikaflex or equal).
5. Joint Sealant. Any separated, cracked, or missing joint sealants shall be cut out and replaced with new elastomeric joint sealant (Sikaflex or equal) following high-pressure wash joint cleaning.

(d) During the first 7 years following acceptance of RCC pavement roadway improvements, the City will not complete any maintenance or repairs of RCC pavement Roadway Improvements. The City Manager is prohibited from authorizing city staff from making any repairs during the first 7 years following acceptance of RCC pavement roadway improvements.

(e) Developer shall notify the City Engineer prior to repair to allow for inspection and approval of repair work.

(f) The City Engineer will be the final authority in determining deficiencies and level of deficiencies of RCC pavement.

Section 9. REPLACEMENT.

(a) During the period of at least 10 years following acceptance of roadway improvements, the Developer shall replace RCC panels with deficiencies identified in this section. All replacement of RCC panels in the Kings Landing subdivision will be performed entirely and exclusively by Developer at Developer's sole expense. The Developer shall complete all such replacement of the street panels within 120 days after being requested in writing to do so by the City Engineer.

(b) Deficiencies requiring replacement shall include:

1. Major Cracks. any panel with a crack across 50% of the length or width of the panel and greater than 1/4-inch at any point in the crack;
2. Major Differential Vertical Separation. any differential vertical separation between panels greater than 1/8-inch;
3. Major Curb Separation. separation of RCC pavement panel from curb and gutter greater than 1/8-inch;
- 4.. Uncontrolled Cracking. a RCC pavement panel with more than one uncontrolled crack; and
5. Major Spalling. any spalling, honeycombing, or other defects greater than 2 square feet or more than 1-inch deep.

(c) Replacements shall include:

1. Major Cracks. Any RCC pavement panel with a crack greater than 1/4-inch width across 50% of the length or width of the panel will be replaced with new RCC pavement panel or traditional rebar-reinforced portland cement concrete pavement with sealed perimeter construction joints.
2. Major Differential Vertical Separation. Any differential vertical separation between RCC panels at any location with differential movement (up-down) greater than 1/8-inch across shall be replaced with new RCC pavement panel or traditional rebar-reinforced portland cement concrete pavement with sealed perimeter construction joints.
3. Major Curb Separation. Any RCC pavement panel with separation from curb and gutter more than 1/8-inch shall be replaced with RCC pavement panel or traditional rebar-reinforced portland cement concrete pavement with sealed perimeter construction joints in a manner that keeps the original alignment of the curb and gutter.
4. Uncontrolled Cracking. Any RCC pavement panel with more than one uncontrolled crack will be replaced with new RCC pavement panel or traditional rebar-reinforced portland cement concrete pavement with sealed perimeter construction joints.
5. Major Spalling. Any RCC pavement panel with surface spalling of areas greater than 2 square feet or more than 1-inch deep shall be replaced with RCC pavement panel or traditional rebar-reinforced portland cement concrete pavement with sealed perimeter construction joints.

(d). Saw cut. Any panel being replaced shall be saw cut out to the nearest adjacent contraction or expansion joints and replaced.

(e) RCC Pavement System Failure. In the event of major cracking or major spalling deficiencies of more than 30% of RCC pavement panels on a street within the first 7 years, the City may in its sole determination and discretion require the removal and replacement of all RCC pavement panels within the subject street, both deficient and non-deficient RCC pavement panels, with traditional rebar-

reinforced portland cement concrete pavement meeting City specifications. Any such roadway segment replacement will be at the Developer's cost.

(f) Developer shall notify the City Engineer prior to replacement of RCC pavement panels to allow for inspection and approval of replacement work.

(g) The City Engineer will be the final authority in determining deficiencies and level of deficiencies of RCC pavement.

Section 10. **WARRANTY**. The Developer shall fully warrant the workmanship and construction of the Roadway Improvements within the King Landing Subdivision for a period of 10 years from and after the date of acceptance of the Roadway Improvements by the City Engineer. Upon notice by City of any defects and faults in materials, workmanship and design, Developer shall promptly, but no later than 120 days after notice, correct such defects and/or faults to the satisfaction of the City.

Section 11. **CONSTRUCTION**. The planned Roadway Improvements shall be constructed in accordance with the Pilot Program, approved Plans, Geotechnical Engineering Reports, and related specifications and industry standard practices.

Section 12. **INSPECTIONS**.

(a) Throughout construction, the City may conduct periodic inspections and either approve the progress of the Roadway Improvements or promptly notify the Developer of any defect, deficiency, or other non-approved condition in the progress of the Roadway Improvements.

(b) Following completion of the Roadway Improvements, the City may conduct periodic inspections of the Roadway Improvements and will promptly notify the Developer of any defects and faults in materials, workmanship, and design.

(c) The Developer or its representative shall attend quarterly site inspections with the City during the first 3 years of the warranty period to observe the RCC pavement and identify and document any needed repairs or replacements. After the first 3 years of quarterly inspections, inspections shall be every 6 months thereafter until the 10 year of warranty is met. The City will develop an associated Required Repair or Replacement plan following inspection, provided to the Developer for execution. All identified repairs or replacements shall be completed within 120 days of that plan unless the Developer and its approved contractor are delayed by force majeure or other events beyond its control.

Section 13. **INDEMNIFICATION**.

Developer 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 indemnitees 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 construction, installation, existence, operation, use, maintenance, repair, restoration, or removal of the public improvements associated with Roadway Improvements within the Kings Landing Subdivision, including the injury, loss, or damage caused by the 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 survives the termination of this Agreement.

Section 14. **DEFAULT**. The following events shall constitute default:

- (a). Developer fails to submit plans and specifications for the Roadway Improvements to the City Engineer in advance of construction.
- (b). Developer does not reasonably pursue construction of the Roadway Improvements under the approved plans and specifications.
- (c). Developer fails to complete construction of the Lady Alexa Drive (formerly Iron Throne Drive) and Castle Black Drive under the approved plans and specifications within 24 months.
- (d). Developer fails to perform warranty work.
- (e). Either the City or the Developer fails to comply with its duties or obligations under this Agreement.

Section 15. **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 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 fail to perform any obligation or duty of this Agreement, the City shall give notice to the Developer, at the address stated in Notice Section of this agreement, of the need to perform the obligation or duty and, should the Developer 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.
- (e). In the event of an uncured default by the Developer, 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. Bring Suit to enforce any provision of this agreement including the obligations to repair and replace.

(f). In the event of an uncured default by the City after the appropriate notice and Cure Period, the Developer has all its remedies at law or in equity for such default.

Section 16. FORCE MAJEURE.

(a). The term "force majeure" as employed in this Agreement means and refers to acts of God; acts of a public enemy; insurrections; riots; epidemics; landslides; earthquakes; fires; hurricanes; explosions; or other causes not reasonably within the control of the party claiming the inability.

(b). If, by reason of force majeure that is not known or reasonably anticipated at the time of this agreement, 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 10 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.

Section 17. 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:

If to the City:

City of Corpus Christi
Attn: Director, Development Services
2406 Leopard Street
Corpus Christi, TX 78401

If to the Developer:

MPM Development, L.P.
Attn: Moses Mostaghasi
PO Box 331308
Corpus Christi, TX 78401

with a copy to:

City of Corpus Christi
Attn: City Engineer
P. O. Box 9277
Corpus Christi, TX 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, in accordance with the provisions of this section, within five business days of the change.

Section 18. PROJECT CONTRACTS. Developer's contracts with the professional engineer for the preparation of the plans and specifications for the construction of the Roadway Improvements, contracts for testing services, and contracts with the contractor for the construction of the Roadway Improvements must provide that the City is a third-party beneficiary of each contract.

Section 19. **DISCLOSURE OF INTEREST**. In compliance with Corpus Christi Code Sec. 2-249, the Developer agrees to complete the Disclosure of Interests form attached to this Agreement and incorporated by reference as **Exhibit 7**.

Section 20. **CERTIFICATE OF INTERESTED PARTIES**. Developer 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. 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>.

Section 21. **CONFLICT OF INTEREST**. Developer 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>

Section 22. **SEVERABILITY**. The provisions of this Agreement are severable and, if any provision of this Agreement is held to be invalid for any reason by a court or agency of competent jurisdiction, the remainder of this Agreement shall not be affected, and this Agreement shall be construed as if the invalid portion had never been contained herein.

Section 23. **COOPERATION**. The Parties agree to cooperate at all times in good faith to effectuate the purposes and intent of this Agreement.

Section 24. **ENTIRE AGREEMENT**. Except as otherwise expressly provided herein, this Agreement contains the entire agreement of the Parties regarding the sharing of costs for the Roadway Improvements. It supersedes all prior or contemporaneous understandings or oral or written representations regarding the subject matter hereof.

Section 25. **AMENDMENTS**. Any amendment of this Agreement must be in writing and shall be effective if signed by the authorized representatives of both Parties.

Section 26. APPLICABLE LAW; VENUE. This Agreement shall be construed in accordance with the laws of the State of Texas. Venue for any action arising hereunder shall be in Nueces County, Texas.

Section 27. AUTHORITY. Each Party represents and warrants that it has the full right, power, and authority to execute this Agreement.

Section 28. INDEPENDENT CONTRACTOR. Developer covenants and agrees that it is an independent contractor, not an officer, agent, servant, or employee of the City. Developer shall have exclusive control of and exclusive right to control the details of the work performed hereunder and all persons performing same, and shall be liable for the acts and omissions of its officers, agents, employees, contractors, subcontractors, and consultants. The doctrine of respondent superior shall not apply between City and Developer, its officers, agents, employees, contractors, subcontractors, and consultants. Nothing herein shall be construed as creating a partnership or joint enterprise between City and Developer.

Section 29. NON-APPROPRIATION. The continuation of this Agreement after the close of any fiscal year of the City, which fiscal year ends on September 30th annually, is subject to appropriations and budget approval specifically covering this Agreement as an expenditure in the said budget. It is within the sole discretion of the City's City Council to determine whether to fund this Agreement. The City does not represent that this budget item will be adopted, as said determination is within the City Council's sole discretion when adopting each budget.

Section 30. WAIVER OF TRIAL BY JURY. City and Developer agree that they have knowingly waived and do hereby waive the right to trial by jury and have instead agreed, in the event of any litigation arising out of or connected to this Contract, to proceed with a trial before the court, unless both parties subsequently agree otherwise in writing.

Section 31. ATTORNEY FEES. In the event that any action is instituted by City to enforce or interpret any of the terms hereof, City shall be entitled to be paid all court costs and expenses, including reasonable attorneys' fees, incurred by City with respect to such action, unless as a part of such action, the court of competent jurisdiction determines that each of the material assertions made by City as a basis for such action were not made in good faith or were frivolous. In the event of an action instituted by or in the name of the Developer under this Agreement or to enforce or interpret any of the terms of this Agreement, City shall be entitled to be paid all court costs and expenses, including attorneys' fees, incurred by City in defense of such action (including with respect to City's counterclaims and cross-claims made in such action), unless as a part of such action the court determines that each of City's material defenses to such action were made in bad faith or were frivolous.

Section 32. NO WAIVER. The failure of the City to insist upon strict adherence to any term of this agreement on any occasion shall not be considered a waiver of any of the City's rights under this agreement or deprive the City of the right thereafter to insist upon strict adherence to that term or any other term of this agreement.

Section 33. PILOT PROGRAM FOR RCC ROADWAY IMPROVEMENTS

Public Improvements shall be designed and constructed in compliance with Pilot Program for Roller Compacted Concrete Roadway Improvements Agreement, as amended. Maintenance and warranty for Public Improvements will be provided in accordance with the Pilot Program for Roller Compacted Concrete Roadway Improvements agreement, as amended. Any conflict between this agreement and the Pilot Program for Roller Compacted Concrete Roadway Improvements agreement, the Pilot Program for Roller Compacted Concrete Roadway Improvements agreement shall control.

Exhibits Attached and Incorporated by Reference:

Exhibit 1 – Plat – King's Landing Unit 11

Exhibit 2 – Public Improvement Plans – King Landing Unit 11

Exhibit 3 – Geotechnical Report (Specific to Kings Landing Unit 11)

Exhibit 4 – Cost Estimate

Exhibit 5 – Performance Bond

Exhibit 6 – Payment Bond

Exhibit 7 – Disclosure of Interest

Incorporated by Reference Only:

Pilot Program for Roller Compacted Concrete Roadway Improvements Agreement (referred to in this Agreement as "Pilot Program")

DEVELOPER: MPM Development, LP

Moses Mostaghasi
General Partner

Date

ATTEST:

Rebecca Huerta
City Secretary

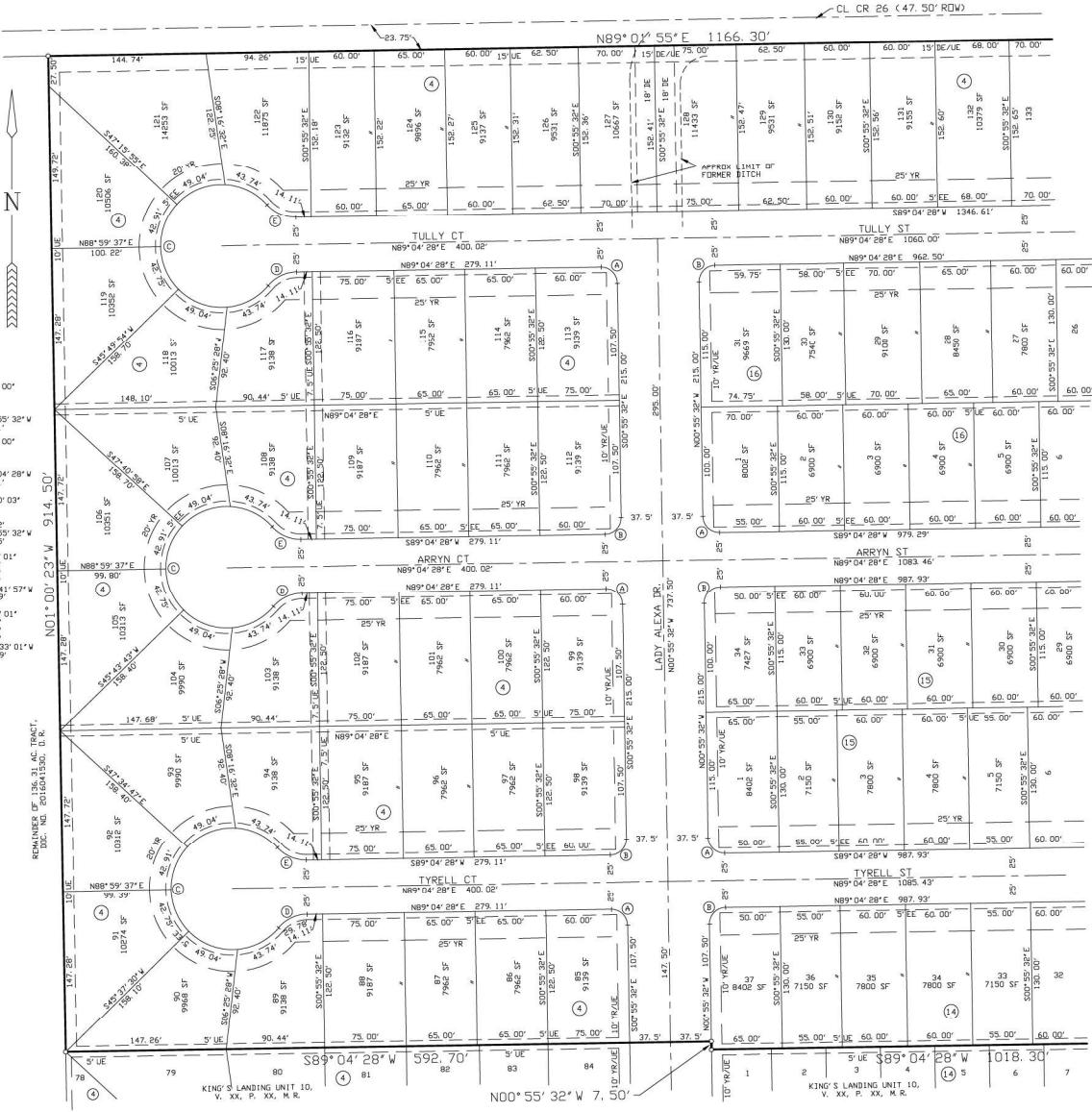
CITY OF CORPUS CHRISTI:

Michael Dice
Director of Development Services

APPROVED AS TO LEGAL FORM:

Buck Brice (Date)
Deputy City Attorney
For City Attorney

EXHIBIT 1



CONTINUED ON FOLLOWING SHEET

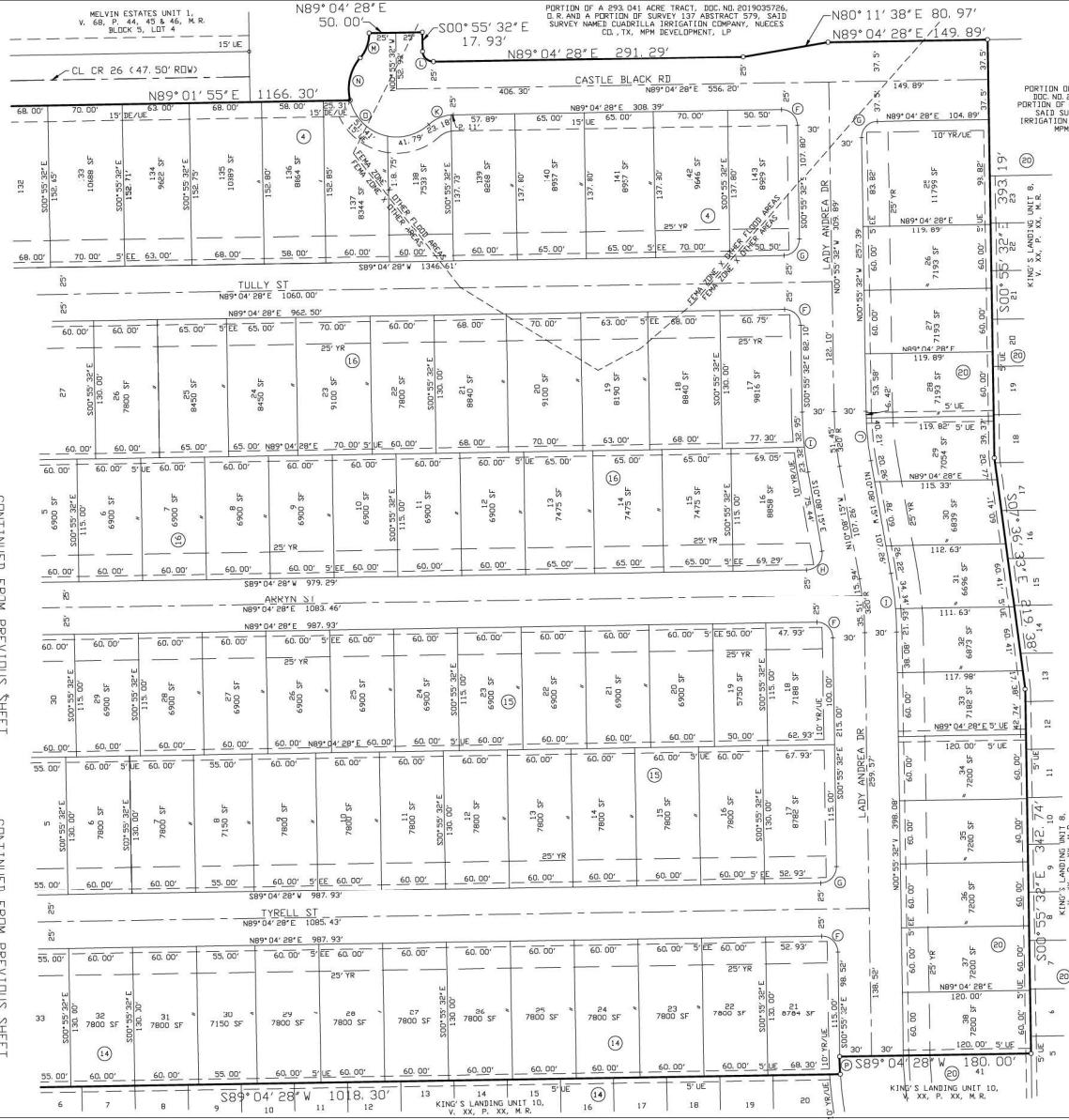
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CONTINUED ON FOLLOWING SHEET

PLAT OF
KING'S LANDING UNIT 11
CORPUS CHRISTI,
NUECES COUNTY, TEXAS

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

DATE PLOTTED: 6/19/25
COMP. NO.: PLAT-SHT2
JOB NO.: 24008
SCALE: 1" = 60'
PLAT SCALE: SAME
SHEET 2 OF 3



PLAT OF
KING'S LANDING UNIT 11
CORPUS CHRISTI,
NUECES COUNTY, TEXAS

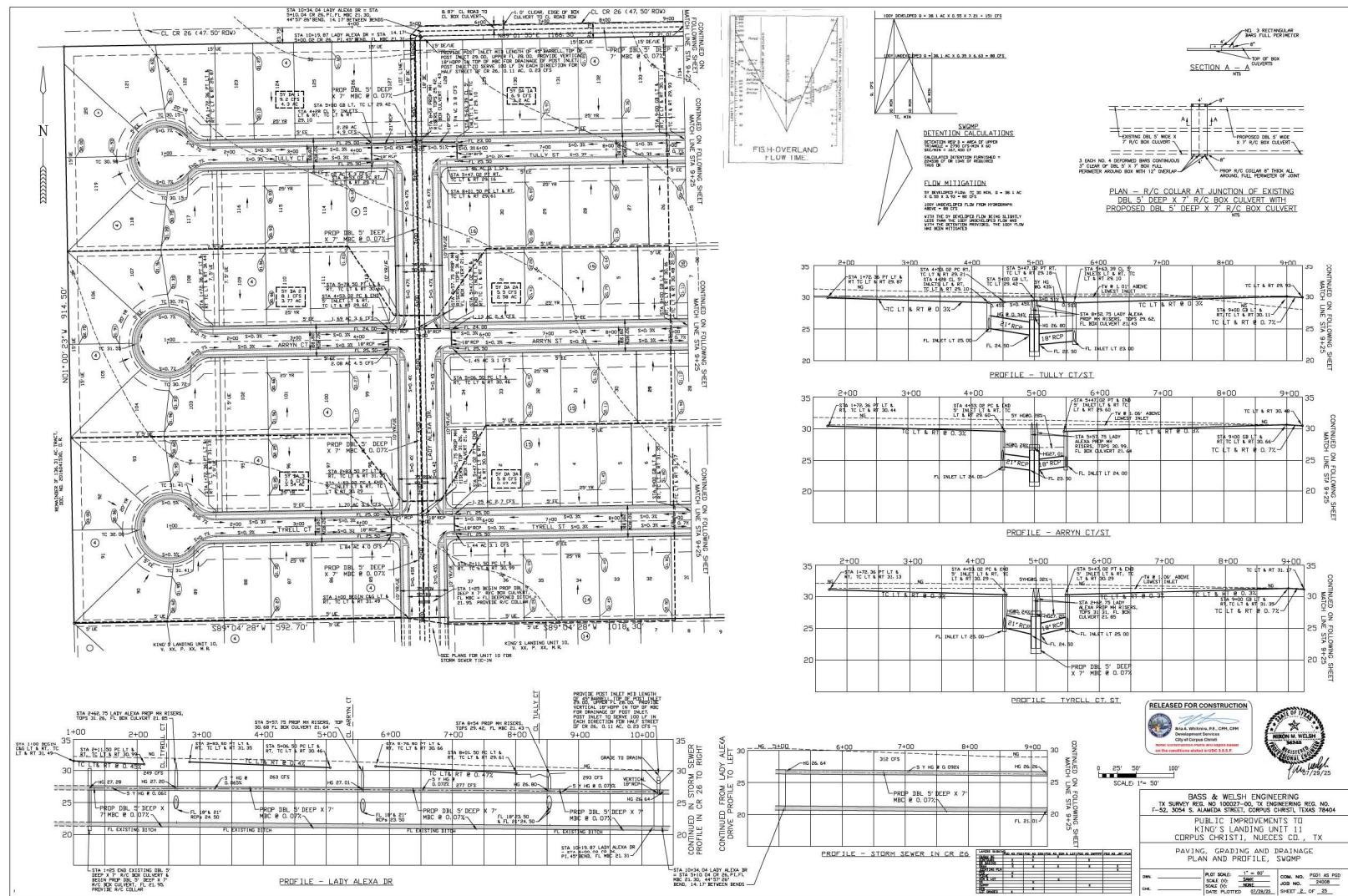
DATE PLOTTED 6/19/25
NO. PLAT-SHT3
TX SURVEY REG. NO. 100207-00, TX ENGINEERING
REG. NO. 100207-00, TX LAND SURVEY
CORPUS CHRISTI, TEXAS 78404

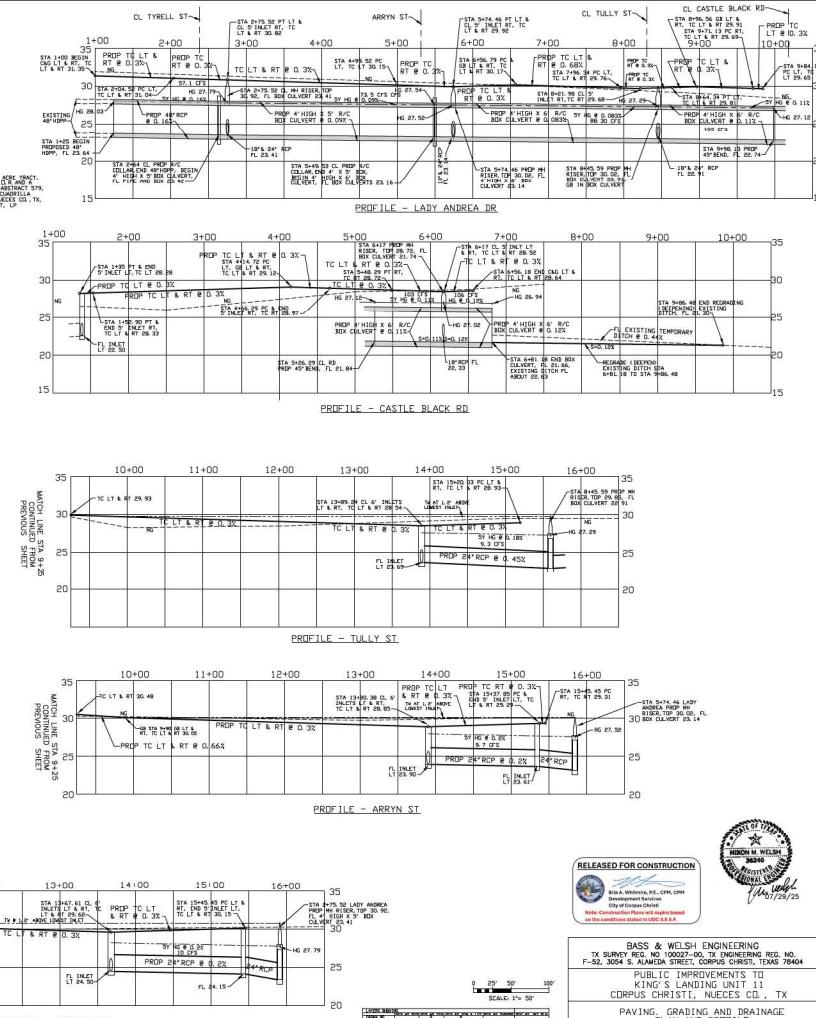
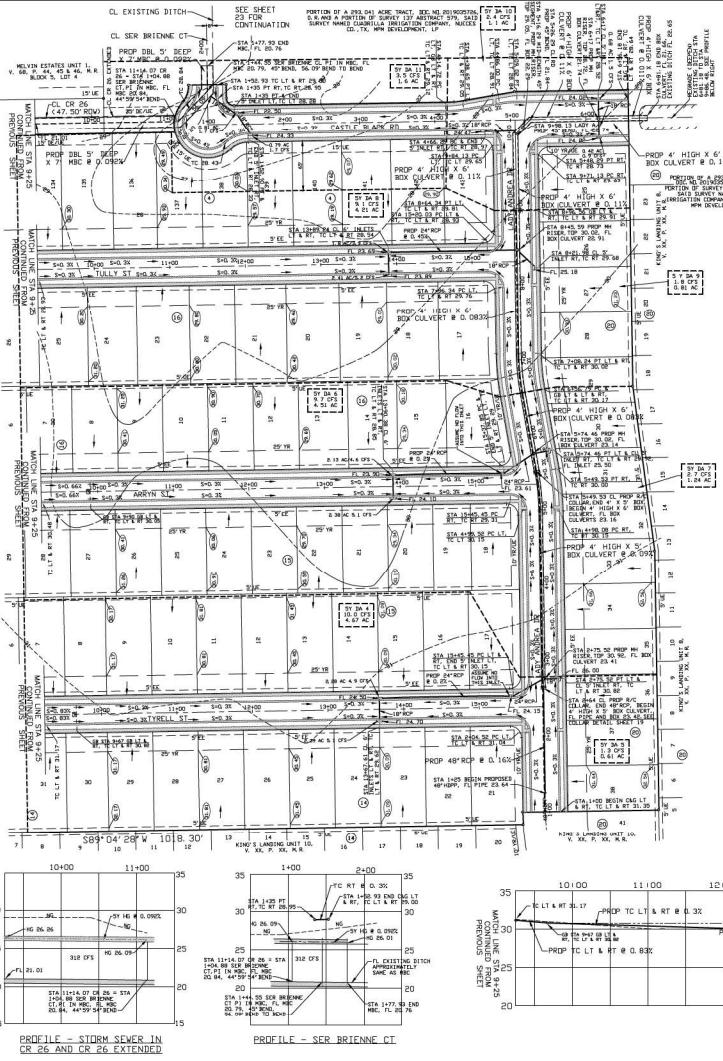
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L=55.00'
E=33° 39' 28" W
CH=22.83'
- (13) B=9° 12' 43"
R=45.00'
T=45.00'
L=55.00'
E=33° 39' 28" W
CH=22.83'
- (14) B=9° 12' 43"
R=45.00'
T=45.00'
L=55.00'
E=33° 39' 28" W
CH=22.83'
- (15) B=9° 12' 43"
R=45.00'
T=45.00'
L=55.00'
E=33° 39' 28" W
CH=22.83'
- (16) B=9° 12' 43"
R=45.00'
T=45.00'
L=55.00'
E=33° 39' 28" W
CH=22.83'
- (17) B=9° 12' 43"
R=45.00'
T=45.00'
L=55.00'
E=33° 39' 28" W
CH=22.83'
- (18) B=9° 12' 43"
R=45.00'
T=45.00'
L=55.00'
E=33° 39' 28" W
CH=22.83'
- (19) B=9° 12' 43"
R=45.00'
T=45.00'
L=55.00'
E=33° 39' 28" W
CH=22.83'
- (20) B=9° 12' 43"
R=45.00'
T=45.00'
L=55.00'
E=33° 39' 28" W
CH=22.83'

DATE PLOTTED 6/19/25
NO. PLAT-SHT3
TX SURVEY REG. NO. 100207-00, TX ENGINEERING
REG. NO. 100207-00, TX LAND SURVEY
CORPUS CHRISTI, TEXAS 78404

SCALE: 1" = 60'
PLAT SCALE: SAME
SHEET 3 OF 3

EXHIBIT 2





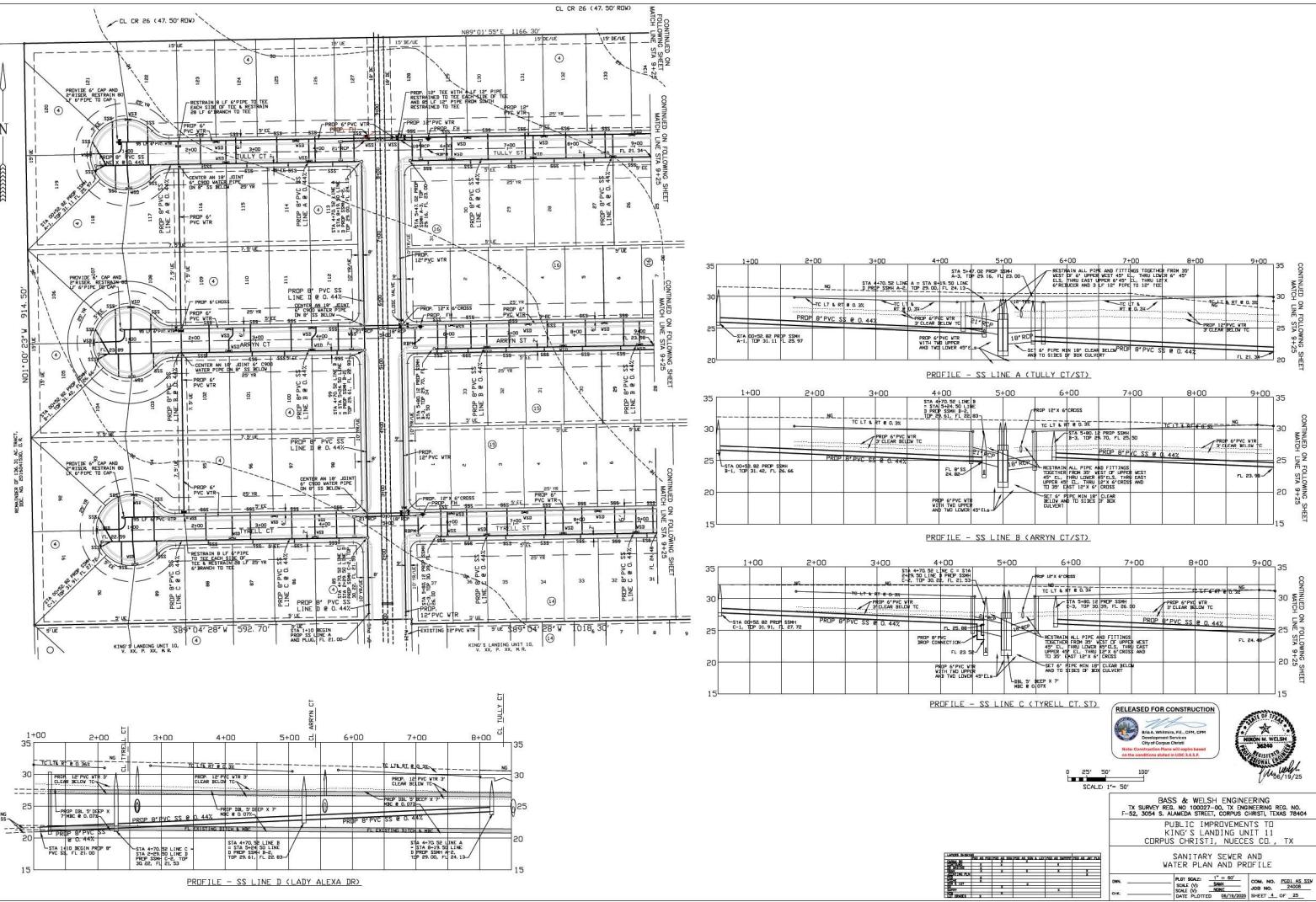
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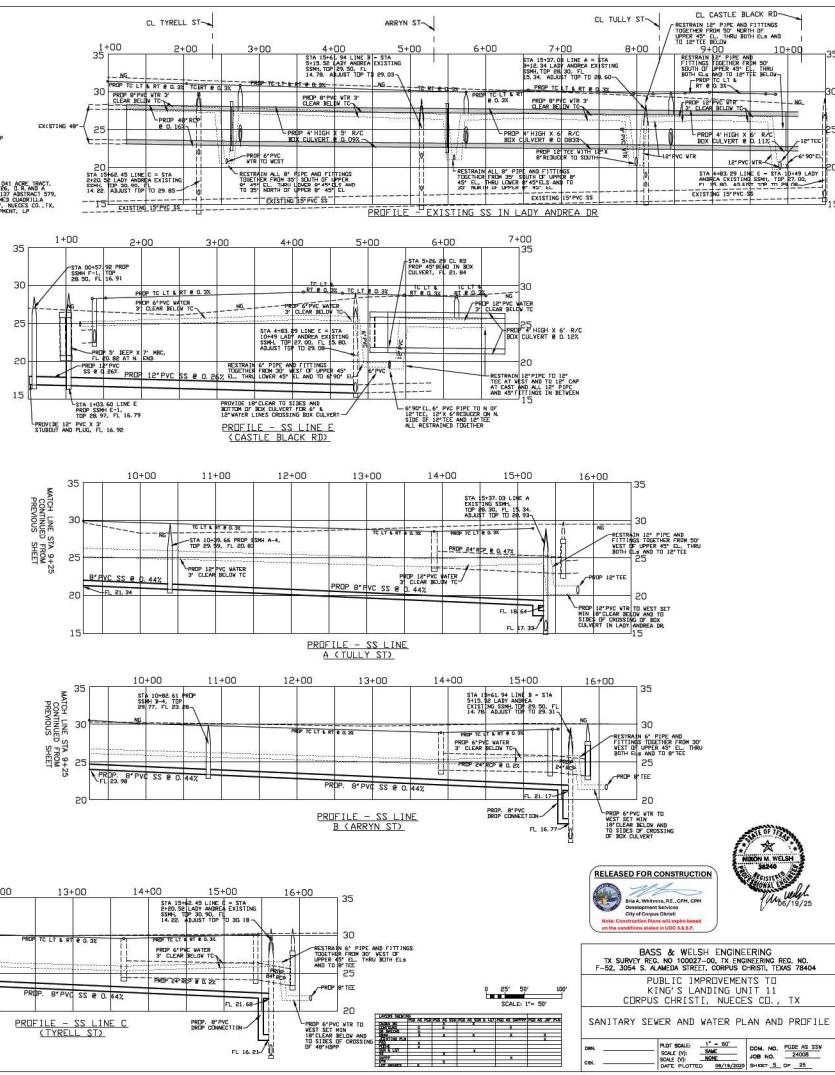
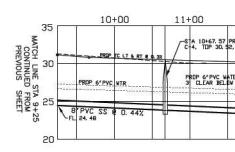
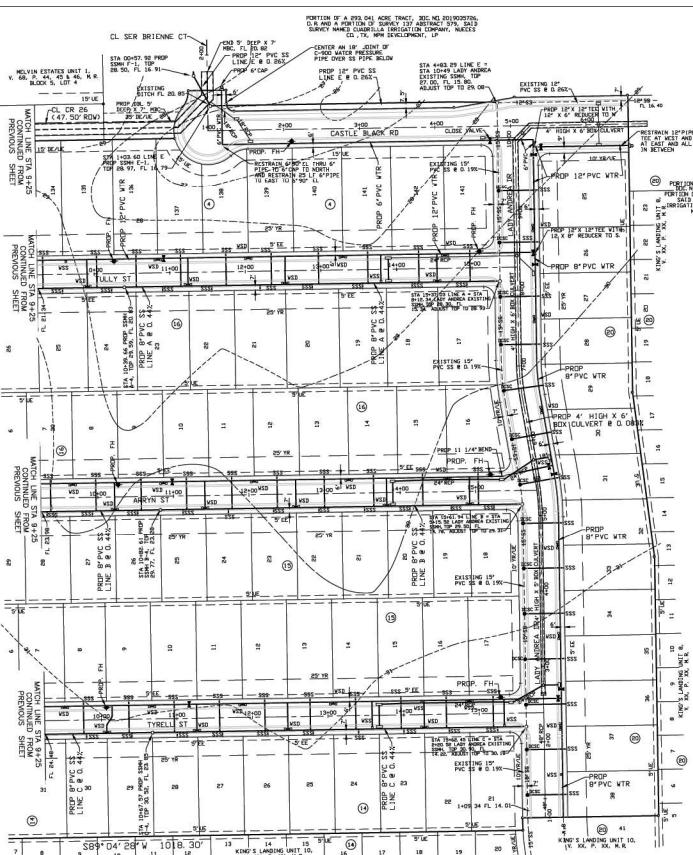
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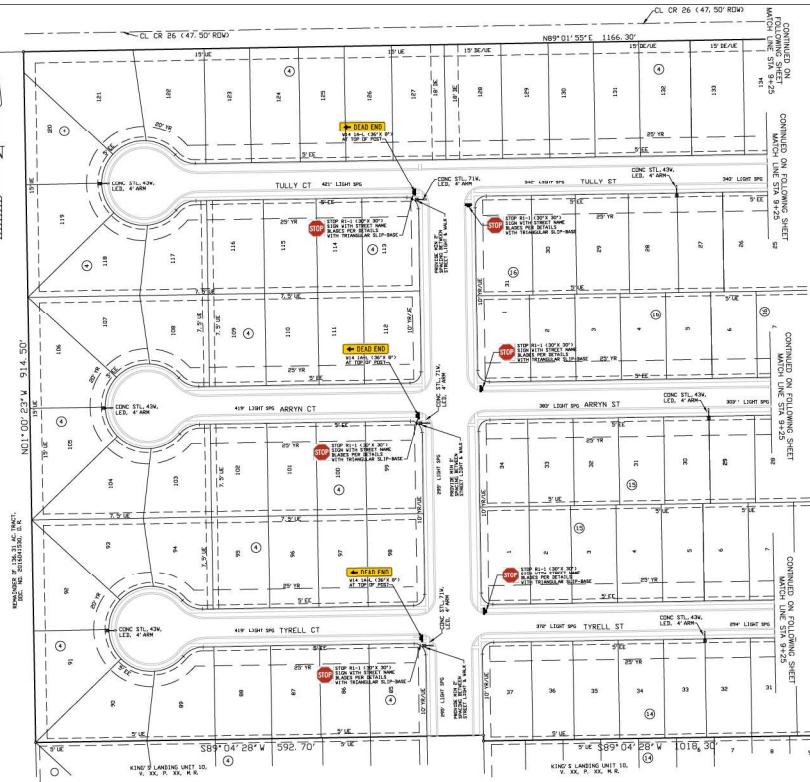
Bria A. Whitsire, P.E., CFM, CPM
Development Services
City of Corpus Christi
**Notarized Construction Plans will expire based
on the date of issuance unless otherwise specified.**

A circular registration stamp for Nixon M. Welsh, Professional Engineer, State of Texas, No. 30340, registered 07/29/25.

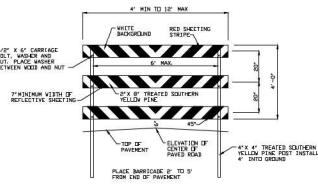
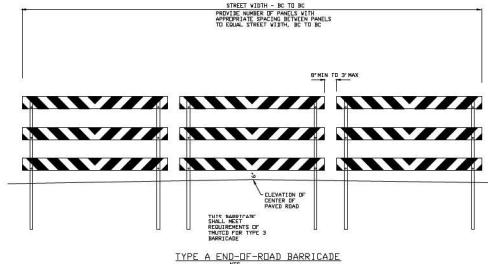
BASS & WELSH ENGINEERING					
TX SURVEY REG. NO. 100027-00, TX ENGINEER REG. NO.					
F-52, 3054 S. ALAMO STREET, CORPUS CHRISTI, TEXAS 78404					
PUBLIC IMPROVEMENTS TO					
KING'S LANDING UNIT 11					
CORPUS CHRISTI, NUECES CO., TX					
PAVING, GRADING AND DRAINAGE					
PLAN AND PROFILE					
DRW.	PLAT	SCALE	1"	CDN. NO.	POSS. DR. POO
DRW.	PLAN	(IN)	80'	DR. 2400	
DRW.	SCALE	(IN)			
DRW.	DATE	PLOTTED	02/29/97	SHET. 2	dr. 25







NOTE:
PER TEXAS MUTCD BASED ON CC UDC ARTICLE 8.1.3.3. A.
ALL TRAFFIC SIGNS SHALL BE FURNISHED AND
INSTALLED BY THE DEVELOPER ACCORDING TO
SPECIFICATIONS OF, AND SUBJECT TO, LATEST
VERSION OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC
CONTROL DEVICES (MUTCD)." PUBLIC IMPROVEMENT
PLAN REVIEWS AND INSPECTIONS, BY THE CITY, THIS
INCLUDES FURNISHING AND INSTALLING "STOP" SIGNS.



TYPICAL BARRICADE PANEL DETAIL

MANUFACTURER'S NOTES

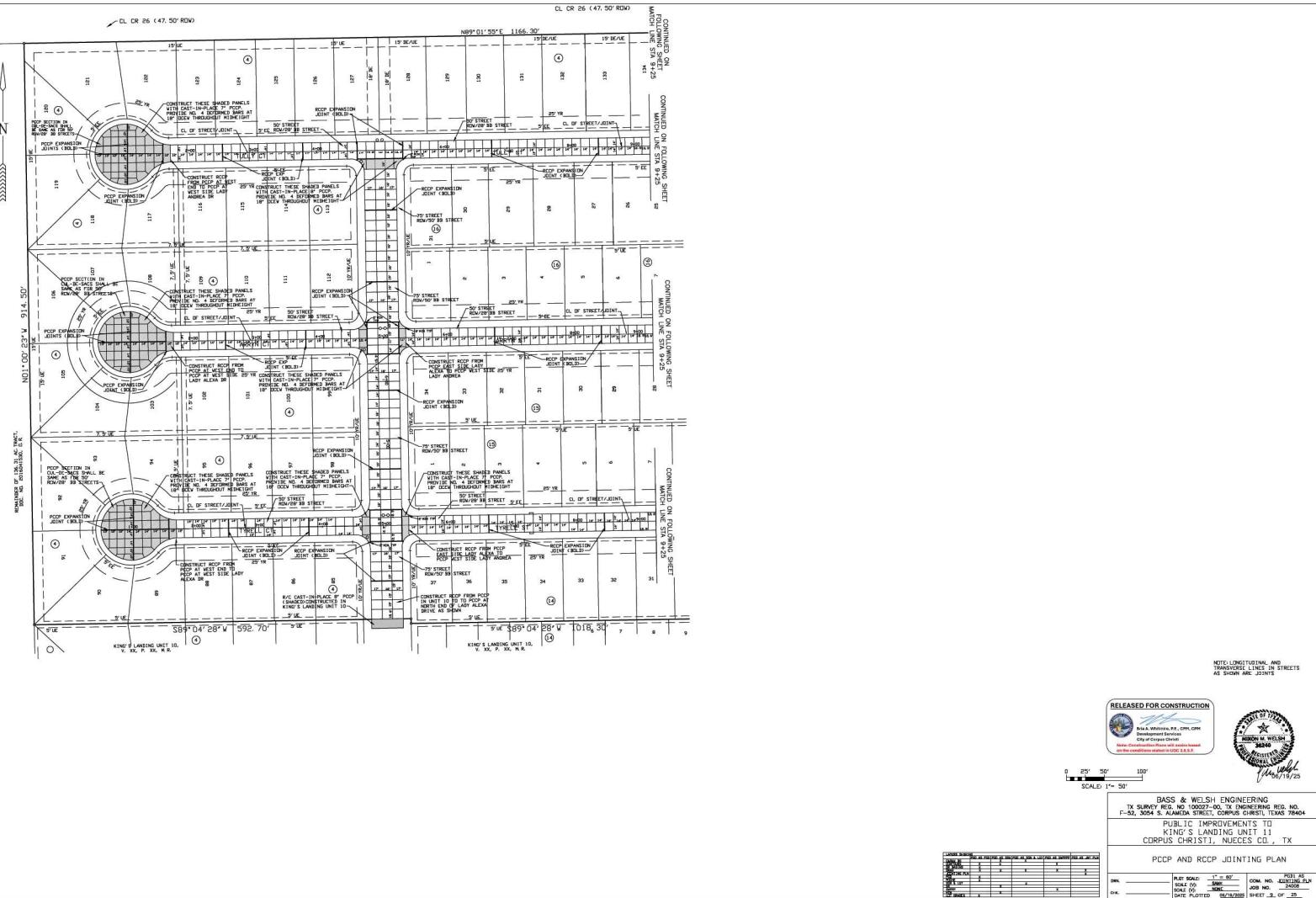
1. **DISCLAIMER:** THESE ARE THE RECOMMENDATIONS OF THE LATEST EDITION OF TEXAS INDUSTRIAL PAINTS AND PRIMER. THESE DO NOT OVERWRITE THE CONTRACTOR'S OWN DISCRETION. THESE ARE NOT THE CONTRACTOR'S DISCRETION.
2. **BRASSWARE MATERIALS AND METHODS:**
 - A. **WOOD:** DO NOT PAINT BRASSWARE LOCATED ON WOODEN SURFACES UNLESS THAT WOOD IS PREVIOUSLY TREATED WITH A WATER-BASED SEALANT. DO NOT PAINT BRASSWARE LOCATED ON WOODEN SURFACES UNLESS THAT WOOD IS PREVIOUSLY TREATED WITH A WATER-BASED SEALANT. DO NOT PAINT BRASSWARE LOCATED ON WOODEN SURFACES UNLESS THAT WOOD IS PREVIOUSLY TREATED WITH A WATER-BASED SEALANT. DO NOT PAINT BRASSWARE LOCATED ON WOODEN SURFACES UNLESS THAT WOOD IS PREVIOUSLY TREATED WITH A WATER-BASED SEALANT.
 - B. **STAINLESS STEEL:** BRASSWARE MADE OF STAINLESS STEEL IS SUSCEPTIBLE TO SPONTANEOUS ELECTROLYTIC CORROSION. THIS CAN BE PREVENTED BY APPLYING A WATER-BASED SEALANT TO THE SURFACE. SUBSEQUENT EXHAUST DRAINS THAT REQUIRE THE USE OF STAINLESS STEEL ARE SUSCEPTIBLE TO SPONTANEOUS ELECTROLYTIC CORROSION. THIS CAN BE PREVENTED BY APPLYING A WATER-BASED SEALANT TO THE SURFACE. SUBSEQUENT EXHAUST DRAINS THAT REQUIRE THE USE OF STAINLESS STEEL ARE SUSCEPTIBLE TO SPONTANEOUS ELECTROLYTIC CORROSION. THIS CAN BE PREVENTED BY APPLYING A WATER-BASED SEALANT TO THE SURFACE.
 - C. **PLASTIC:** DO NOT PAINT BRASSWARE MADE OF PLASTIC. (EXCEPT FOR POLYPROPYLENE AND POLYVINYLPYRROLIDONE).
3. **PAINT AND SHEET MATERIALS:**
 - A. **NOTICE:** THE PAINT MATERIAL WILL BE REQUIRED TO DRY IN A MANNER THAT IS CONSISTENT WITH THE PAINT MANUFACTURER'S RECOMMENDATIONS. THE PAINT MANUFACTURER'S RECOMMENDATION WILL STATE THE POINT THAT THE WOOD MEMBER REQUIRES WATER WHEN IT IS PAINTED. THE PAINT MANUFACTURER'S RECOMMENDATION WILL STATE THE POINT THAT THE WOOD MEMBER REQUIRES WATER WHEN IT IS PAINTED.
 - B. **NOTICE:** THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO PROCEEDING WITH PAINTING. THE PAINT MANUFACTURER'S RECOMMENDATION WILL STATE THE POINT THAT THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO PROCEEDING WITH PAINTING.
 - C. **NOTICE:** THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT. THE PAINT MANUFACTURER'S RECOMMENDATION WILL STATE THE POINT THAT PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT, THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT.
 - D. **NOTICE:** THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT. THE PAINT MANUFACTURER'S RECOMMENDATION WILL STATE THE POINT THAT PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT, THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT.
 - E. **NOTICE:** THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT. THE PAINT MANUFACTURER'S RECOMMENDATION WILL STATE THE POINT THAT PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT, THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT.
 - F. **NOTICE:** THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT. THE PAINT MANUFACTURER'S RECOMMENDATION WILL STATE THE POINT THAT PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT, THE PAINT MATERIAL WILL BE REQUIRED TO DRY PRIOR TO INSTALLATION OF THE CONTRACTOR'S PAINT.

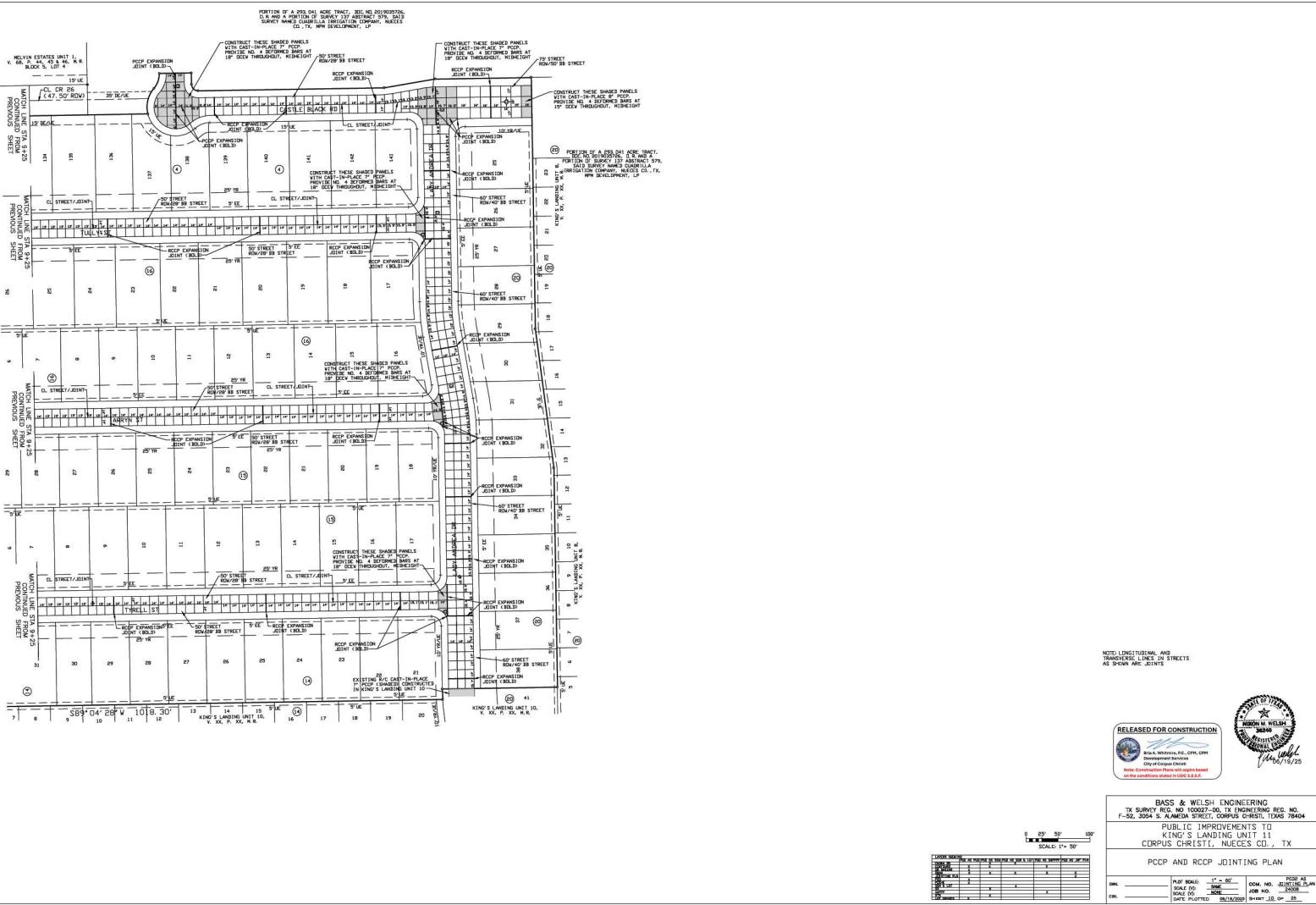


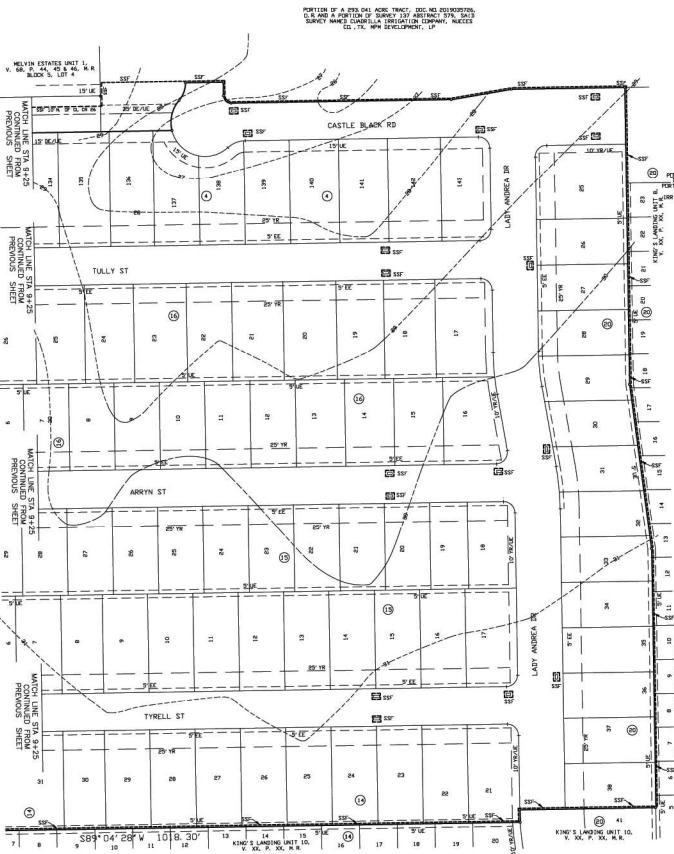
50' 100'
LE 1' = 50'
Mr. S. J. S.
07/09/01

BASS & WELSH ENGINEERING
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. N
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78501
PUBLIC IMPROVEMENTS TO
KING'S LANDING LINTZ 11

BASS & WELSH ENGINEERING
TX SURVEY REG. NO 100027-00, TX ENGINEERING REG. NO.
F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TEXAS 78501







PORTION OF A 250,041 ACRES TRACT,
SEC. NO. 10, BLOK 5, LST. 46, R. 4
U.S. AND A PORTION OF SURVEY 177 ABSTRACT 579,
SALES SURVEY NO. 1000, 1900, 1901, 1902, 1903, 1904
ED. 17, NPM DEVELOPMENT, LP

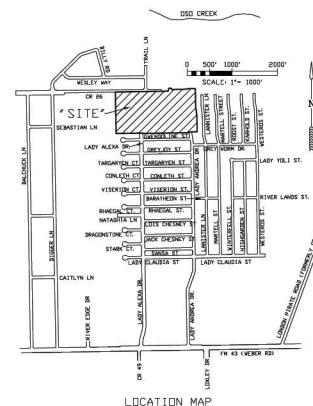
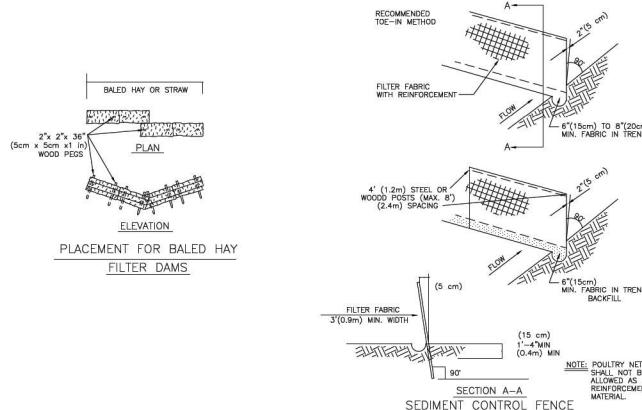
RELEASED FOR CONSTRUCTION
BASS & WELSH ENGINEERING
1000 S. ALAMIDA STREET, CORPUS CHRISTI, TEXAS 78404
Note: Construction Plans will supersede
any conditions listed in LOC D&E

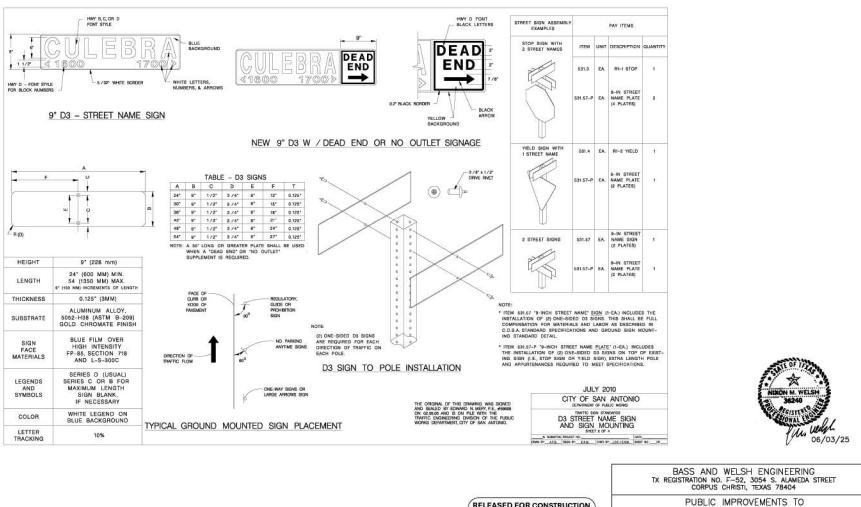
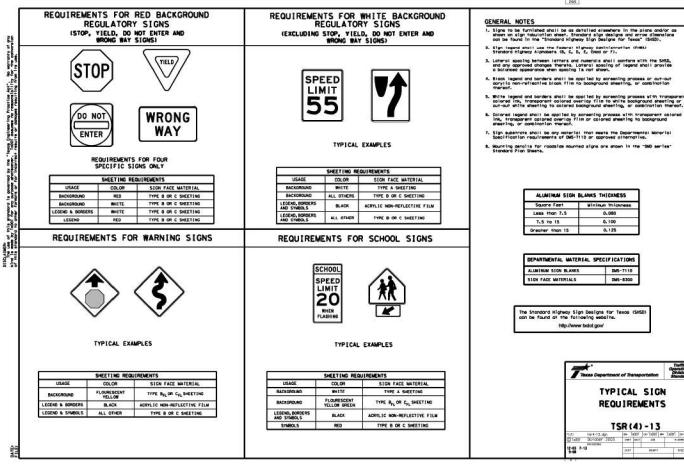
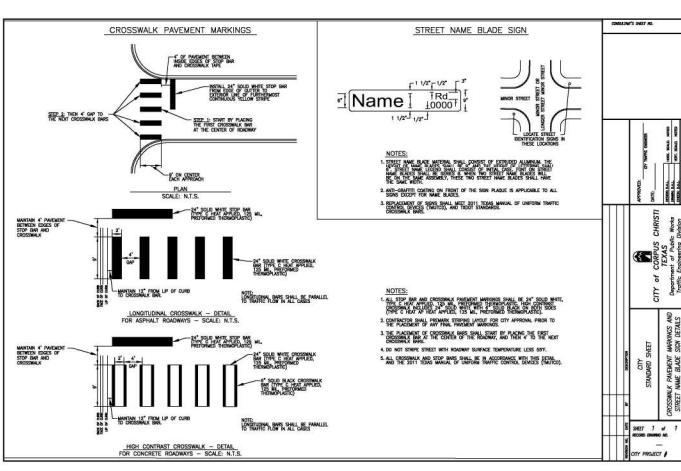
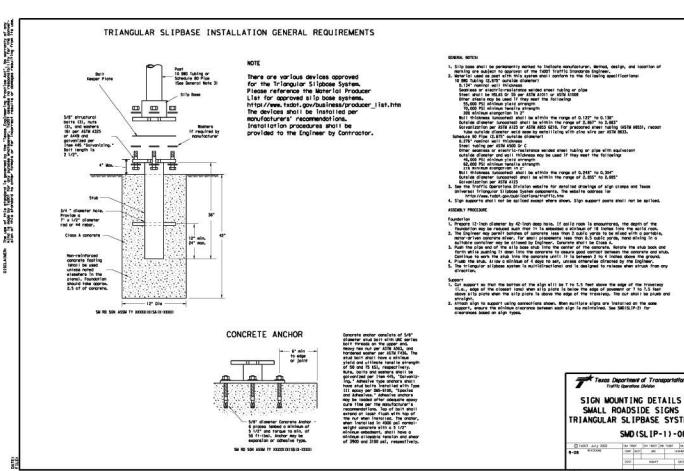


BASS & WELSH ENGINEERING, INC.
1000 S. ALAMIDA STREET, CORPUS CHRISTI, TEXAS 78404
F-52, 3004 S. ALAMIDA STREET, CORPUS CHRISTI, TEXAS 78404
PUBLIC IMPROVEMENTS TO
KING S. LANDING UNIT 10
CORPUS CHRISTI, NUECES CO., TX
STORM WATER POLLUTION PREVENTION PLAN
SHEET 2 OF 3

MAP NUMBER	17 - 87	JOB NO. PIER 42 SUPP
SCALE OR	1" = 50'	DATE DRAWN
DATE PLOTTED	2/13/2003	DATE ISSUED
ON		Sheet 15 of 25

SITE DESCRIPTION	
PROJECT LIMITS: KING'S LANDING UNIT 11	NEY 10 Scale
PROJECT DESCRIPTION: CONSTRUCTION OF SINGLE-FAMILY RESIDENTIAL SUBDIVISION. THE PRIMARY ACTIVITIES WILL BE PAVEMENT CONSTRUCTION, EARTHWORK CONSTRUCTION, STORM SEWER AND UTILITY CONSTRUCTION AND LOT GRADING AND CLEARING AND GRUBBING	
MAJOR SOIL DISTURBING ACTIVITIES: PAVEMENT AND EARTHWORK CONSTRUCTION, LOT GRADING & STORM SEWER AND UTILITY CONSTRUCTION	
TOTAL PROJECT AREA: 38.1 ACRES	
TOTAL AREA TO BE DISTURBED: 38.1 ACRES	
WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 55%	
EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: SOIL CLASSIFICATION (USDA) - SOILS AT THE SUBJECT SITE ARE VICTORIA CLAY, 0 TO 2% SLOPES, Vg. SITE IS UNDER CULTIVATION, INTERMITTENT VEGETATIVE COVER	
NAME OF RECEIVING WATERS: OGD CREEK	
NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:	
<p><u>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</u></p> <ol style="list-style-type: none"> 1. CONSTRUCT "SILT FENCE", CLEAR WORK AREA, INSTALL UTILITIES (WATER/WASTE, STORM WATER AND POTABLE WATER), STREET EARTHWORK AND PAVING AND LOT GRADING. 2. Grade proposed prepared to subgrade elevation, compact subgrade construction material. 3. UPON COMPLETION OF CONSTRUCTION, TEMPORARY CONTROL STRUCTURES WILL REMAIN IN PLACE UNTIL LANDSCAPING OR GRASSIS ARE IN PLACE. 	
STORM WATER MANAGEMENT: STORM WATER DRAINAGE WILL BE PROVIDED BY THE STREET SECTION, INLETS AND PIPES. CURB AND GUTTER WILL CARRY THE RUNOFF TO THE COLLECTION POINTS (INLETS).	
SOIL STABILIZATION PRACTICES:	
<p><input checked="" type="checkbox"/> TEMPORARY SEEDING</p> <p><input type="checkbox"/> PERMANENT PLANTING, SODDING, OR SEEDING</p> <p><input type="checkbox"/> MULCHING</p> <p><input type="checkbox"/> BUFFER RETENTION BLANKET</p> <p><input type="checkbox"/> BUFFER ZONES</p> <p><input type="checkbox"/> PRESERVATION OF NATURAL RESOURCES</p>	
OTHER DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND DO WITHIN 21 DAYS.	
STRUCTURAL PRACTICES:	
<p><input checked="" type="checkbox"/> SILT FENCES</p> <p><input type="checkbox"/> HAY BALD DAM</p> <p><input type="checkbox"/> ROCK BERM</p> <p><input type="checkbox"/> DIVERSION, INTERCEPTOR, OR PERIMETER Dikes</p> <p><input type="checkbox"/> DIVERSION, INTERCEPTOR, OR PERIMETER SWALES</p> <p><input type="checkbox"/> DIVERSION, DIKE AND SWALE COMBINATIONS</p> <p><input type="checkbox"/> PIPING AND DRAINS</p> <p><input type="checkbox"/> PAVED DUMPS</p> <p><input type="checkbox"/> ROCK BEDDING AT CONSTRUCTION EXIT</p> <p><input type="checkbox"/> TYPICAL DUMPS AT CONSTRUCTION EXIT</p> <p><input type="checkbox"/> CHANNEL LINERS</p> <p><input type="checkbox"/> SEDIMENT TRAPS</p> <p><input type="checkbox"/> SEDIMENT BARRIERS</p> <p><input type="checkbox"/> STORM DRAINS, SEDIMENT TRAP</p> <p><input type="checkbox"/> STONE OUTLET STRUCTURES</p> <p><input type="checkbox"/> CURBS AND GUTTERS</p> <p><input type="checkbox"/> STORM SEWERS</p> <p><input type="checkbox"/> VELDGY CONTROL DEVICES</p>	
EROSION AND SEDIMENT CONTROLS	
MAINTENANCE: ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD CONDITION, BUT NOT LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CRUCKS AND DRAGGERS/SHOVELS SHALL HAVE PRIORITY PROVIDED BY THE DRIVER PROTECTING SHOVELS/CRUCKS.	
INSPECTION: INSPECTION WILL BE PERFORMED BY AN INSPECTOR EVERY WEEK AS WELL AS AFTER ANY ONE INCH OR MORE OF RAIN (AS RECORDED ON A NON-PRINTER RAIN GAUGE) IS LOCATED ON THE SITE. THE INSPECTOR'S INSPECTION AND MAINTENANCE REPORT WILL BE MADE PPR EACH INSPECTION. BASED ON THE INSPECTION REPORTS, THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORT.	
WASTE MANAGEMENT: CONTRACTOR SHALL PROVIDE A WAITING AREA FOR CONCRETE TRUCKS. THIS AREA SHALL BE LOCATED AS FAR AS POSSIBLE FROM THE WORK AREA AND SHALL NOT ENTER THE INLETS OR STORM SEWER SYSTEM. ALL MEASURES SHALL BE TAKEN TO PROTECT THE SURROUNDING AREA FROM CONTAMINATION. WASH OUT AREA SHALL BE RESTORED UPON PROJECT COMPLETION. CONCRETE TRUCKS SHALL NOT BE PARKED ON SITE UNTIL REMOVAL FROM JOBSITE. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE.	
SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY.	
OFFSITE VEHICLE TRACKING:	
<p><input type="checkbox"/> HARD ROADS DAMPENED FOR DUST CONTROL</p> <p><input type="checkbox"/> LOADERS, BACKHOES, AND CRUCKS EQUIPPED WITH TARP/PAULINING</p> <p><input checked="" type="checkbox"/> EXCESS DIRT ON ROAD REMOVED DAILY</p> <p><input type="checkbox"/> STABILIZED CONSTRUCTION ENTRANCE</p>	
REMARKS: DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. CONSTRUCTION AREAS NOT RELATED TO THE CONSTRUCTION OF STREETS, ROADS, OR STREAMBED, CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERFALLS, TRESTLES, AND SPANNING AREAS AS WELL AS CONSTRUCTION AREAS, TEMPORARY BRIDGES, MATING, TALKWORK, PILING, DECKS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.	
CONTRACTOR SHALL PROVIDE ALL PERMITS AND INSPECTIONS AS MAY BE REQUIRED BY TCEQ AND EPA. CONTRACTOR SHALL PROVIDE NOT AND NOT.	

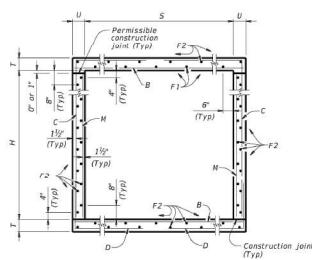




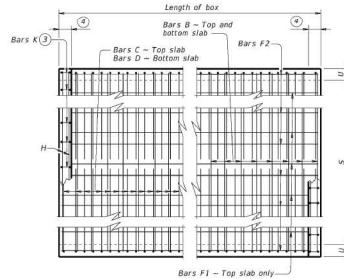
SECTION DIMENSIONS		BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																		QUANTITIES																						
		Bars B			Bars C & D			Bars E			Bars F1 ~ #4			Bars F2 ~ #4			Bars M ~ #4			Bars Y & Z ~ #4			Bars H 4 ~ #4		Bars K		Per Foot of Barrel	Curb	Total													
S	H	T	U	No.	Size	Sq	Length	Wt	No.	Size	Sq	Length	Wt	No.	Size	Sq	Length	Wt	No.	Size	Sq	Length	Wt	No.	Size	Sq	Length	Wt	No.	Size	Sq	Length	Wt	Length	Wt	No.	Conc (CY)	Reinf (Lb)	Conc (Lb)	Reinf (CY)	Conc (Lb)	Reinf (Lb)
2	7'-0"	7'-0"	10'	8"	108 #6 9"	15'-9"	2,555	162 #5 6"	8"-2"	1,380	7'-3"	1,225	108 #6 9"	7"-6"	1,217	10	18' 39"-9"	266	54	18' 39"-9"	1,434	82	12' 3"-0"	164	41	12' 5"-0"	137	7'-8"	210	15'-9"	42	34	102	1,210	214.7	1.2	144	496	8,732			
4	7'-0"	7'-0"	10'	8"	108 #6 9"	22'-5"	3,299	162 #5 6"	8"-2"	1,380	7'-3"	1,225	108 #6 9"	14"-6"	2,352	15	18' 39"-9"	398	77	18' 39"-9"	2,045	82	12' 3"-0"	164	82	12' 5"-0"	274	7"-8"	63	50	150	1,237	301.4	1.2	213	72.0	12,604					
5	7'-0"	7'-0"	10'	8"	108 #6 9"	31"-1"	5,042	162 #5 6"	8"-2"	1,380	7'-3"	1,225	108 #6 9"	21"-6"	3,488	20	18' 39"-9"	531	100	18' 39"-9"	2,655	82	12' 3"-0"	164	123	12' 5"-0"	411	7"-8"	63	66	198	2,305	388.2	2.3	281	94.5	15,807					
6	7'-0"	7'-0"	10'	8"	108 #6 9"	38"-9"	6,286	162 #5 6"	8"-2"	1,380	7'-3"	1,225	108 #6 9"	28"-6"	4,623	25	18' 39"-9"	664	123	18' 39"-9"	3,266	82	12' 3"-0"	164	164	12' 5"-0"	548	7"-8"	846	38"-9"	104	80	240	2,852	474.9	2.9	344	117.0	19,340			
2	7'-0"	4"-0"	10'	8"	108 #6 9"	15'-9"	2,555	162 #5 6"	9"-2"	1,380	7'-3"	1,225	108 #6 9"	14"-6"	1,217	10	18' 39"-9"	266	54	18' 39"-9"	1,434	82	12' 3"-0"	164	205	12' 5"-0"	688	7"-8"	1,035	46"-5"	124	96	289	3,399	561.7	3.4	413	139.4	22,880			
7	7'-0"	4"-0"	10'	8"	108 #6 9"	23"-5"	3,799	162 #5 6"	9"-2"	1,380	7'-3"	1,225	108 #6 9"	14"-6"	2,352	15	18' 39"-9"	398	77	18' 39"-9"	2,045	82	12' 4"-0"	219	82	12' 5"-0"	274	9"-8"	538	23"-5"	63	50	150	1,856	309.8	1.7	213	76.0	12,604			
4	7'-0"	4"-0"	10'	8"	108 #6 9"	31"-1"	5,042	162 #5 6"	9"-2"	1,380	7'-3"	1,225	108 #6 9"	21"-6"	3,488	20	18' 39"-9"	531	100	18' 39"-9"	2,655	82	12' 4"-0"	219	82	12' 5"-0"	411	7"-8"	66	198	2,426	397.9	2.3	281	99.4	16,195						
5	7'-0"	4"-0"	10'	8"	108 #6 9"	38"-9"	6,286	162 #5 6"	9"-2"	1,380	7'-3"	1,225	108 #6 9"	28"-6"	4,623	25	18' 39"-9"	664	123	18' 39"-9"	3,266	82	12' 4"-0"	164	164	12' 5"-0"	548	7"-8"	846	38"-9"	104	80	240	3,039	509.8	2.3	344	117.0	19,340			
6	7'-0"	5"-0"	10'	8"	108 #6 9"	15'-9"	2,555	162 #5 6"	10"-2"	1,380	7'-3"	1,225	108 #6 9"	35"-6"	5,759	30	18' 39"-9"	797	146	18' 39"-9"	3,077	82	12' 5"-0"	219	205	12' 5"-0"	695	9"-8"	1,324	46"-5"	124	96	289	3,572	574.1	3.4	413	146.3	23,378			
2	7'-0"	5"-0"	10'	8"	108 #6 9"	23"-5"	3,799	162 #5 6"	10"-2"	1,380	7'-3"	1,225	108 #6 9"	21"-6"	3,488	20	18' 39"-9"	531	110	18' 39"-9"	2,821	82	12' 5"-0"	274	123	12' 5"-0"	411	11"-8"	959	31"-1"	83	66	198	2,551	414.2	2.3	281	104.4	16,850			
3	7'-0"	5"-0"	10'	8"	108 #6 9"	31"-1"	5,042	162 #5 6"	10"-2"	1,380	7'-3"	1,225	108 #6 9"	21"-6"	3,488	20	18' 39"-9"	531	110	18' 39"-9"	2,821	82	12' 5"-0"	274	123	12' 5"-0"	411	11"-8"	1,04	80	240	3,148	505.0	2.9	344	128.8	20,545					
4	7'-0"	5"-0"	10'	8"	108 #6 9"	38"-9"	6,286	162 #5 6"	10"-2"	1,380	7'-3"	1,225	108 #6 9"	28"-6"	4,623	25	18' 39"-9"	664	135	18' 39"-9"	3,585	82	12' 5"-0"	274	164	12' 5"-0"	548	11"-8"	1,278	38"-9"	104	80	240	3,148	505.0	2.9	344	128.8	20,545			
5	7'-0"	5"-0"	10'	8"	108 #6 9"	46"-5"	7,530	162 #5 6"	10"-2"	1,380	7'-3"	1,225	108 #6 9"	35"-6"	5,759	30	18' 39"-9"	797	146	18' 39"-9"	4,248	82	12' 5"-0"	274	205	12' 5"-0"	695	11"-8"	1,598	46"-5"	124	96	289	3,745	595.9	3.4	413	153.2	24,247			
6	7'-0"	5"-0"	10'	8"	108 #6 9"	46"-5"	7,530	162 #5 6"	10"-2"	1,380	7'-3"	1,225	108 #6 9"	35"-6"	5,759	30	18' 39"-9"	797	160	18' 39"-9"	4,248	82	12' 5"-0"	274	205	12' 5"-0"	695	11"-8"	1,598	46"-5"	124	96	289	3,745	595.9	3.4	413	153.2	24,247			
2	7'-0"	6"-0"	10'	8"	108 #6 9"	15'-9"	2,555	162 #5 6"	6"-17"-2"	1,380	7'-3"	1,225	108 #6 9"	14"-6"	1,217	10	18' 39"-9"	266	66	18' 39"-9"	1,752	82	12' 6"-0"	320	41	12' 7"-0"	133	11"-8"	320	15"-9"	42	34	102	1,432	243.6	1.2	144	58.5	9,886			
3	7'-0"	6"-0"	10'	8"	108 #6 9"	23"-5"	3,799	162 #5 6"	6"-17"-2"	1,380	7'-3"	1,225	108 #6 9"	21"-6"	3,488	20	18' 39"-9"	398	85	18' 39"-9"	2,257	82	12' 6"-0"	274	82	12' 7"-0"	274	9"-8"	639	23"-5"	63	50	150	1,955	323.4	1.7	213	79.9	13,149			
4	7'-0"	6"-0"	10'	8"	108 #6 9"	31"-1"	5,042	162 #5 6"	6"-17"-2"	1,380	7'-3"	1,225	108 #6 9"	21"-6"	3,488	20	18' 39"-9"	531	120	18' 39"-9"	1,886	82	12' 6"-0"	320	123	12' 7"-0"	411	11"-8"	66	198	2,675	430.6	2.3	281	109.3	17,503						
5	7'-0"	6"-0"	10'	8"	108 #6 9"	38"-9"	6,286	162 #5 6"	6"-17"-2"	1,380	7'-3"	1,225	108 #6 9"	28"-6"	4,623	25	18' 39"-9"	664	135	18' 39"-9"	3,585	82	12' 6"-0"	274	164	12' 7"-0"	548	11"-8"	1,278	38"-9"	104	80	240	3,148	505.0	2.9	344	128.8	20,545			
6	7'-0"	6"-0"	10'	8"	108 #6 9"	46"-5"	7,530	162 #5 6"	6"-17"-2"	1,380	7'-3"	1,225	108 #6 9"	35"-6"	5,759	30	18' 39"-9"	797	174	18' 39"-9"	4,248	82	12' 6"-0"	274	205	12' 7"-0"	695	11"-8"	1,598	46"-5"	124	96	289	3,745	595.9	3.4	413	160.3	21,177			
2	7'-0"	7"-0"	10'	8"	108 #6 9"	15'-9"	2,555	162 #5 6"	7"-12"-2"	1,380	7'-3"	1,225	108 #6 9"	7"-6"	1,217	10	18' 39"-9"	266	66	18' 39"-9"	1,752	82	12' 7"-0"	320	41	12' 8"-0"	363	11"-8"	429	15"-9"	42	34	102	1,506	250.5	1.2	144	61.4	10,164			
3	7'-0"	7"-0"	10'	8"	108 #6 9"	23"-5"	3,799	162 #5 6"	7"-12"-2"	1,380	7'-3"	1,225	108 #6 9"	21"-6"	3,488	20	18' 39"-9"	398	85	18' 39"-9"	2,257	82	12' 7"-0"	320	82	12' 8"-0"	363	9"-8"	858	23"-5"	63	50	150	2,152	345.4	1.7	213	87.8	14,027			
4	7'-0"	7"-0"	10'	8"	108 #6 9"	31"-1"	5,042	162 #5 6"	7"-12"-2"	1,380	7'-3"	1,225	108 #6 9"	21"-6"	3,488	20	18' 39"-9"	531	120	18' 39"-9"	1,886	82	12' 7"-0"	320	123	12' 8"-0"	363	11"-8"	1,287	31"-1"	83	66	198	2,798	440.2	2.3	281	114.2	17,890			
5	7'-0"	7"-0"	10'	8"	108 #6 9"	38"-9"	6,286	162 #5 6"	7"-12"-2"	1,380	7'-3"	1,225	108 #6 9"	28"-6"	4,623	25	18' 39"-9"	664	147	18' 39"-9"	3,083	82	12' 7"-0"	320	164	12' 8"-0"	548	11"-8"	1,716	38"-9"	104	80	240	3,444	535.1	2.9	344	140.6	21,748			
6	7'-0"	7"-0"	10'	8"	108 #6 9"	46"-5"	7,530	162 #5 6"	7"-12"-2"	1,380	7'-3"	1,225	108 #6 9"	35"-6"	5,759	30	18' 39"-9"	797	174	18' 39"-9"	4,260	82	12' 7"-0"	320	205	12' 8"-0"	695	11"-8"	2,145	46"-5"	124	96	289	4,091	630.0	3.4	413	167.1	25,613			

HL93 LOADING SHEET 2 OF 2

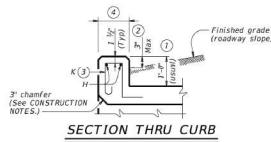
Texas Department of Transportation		Bridge Division Standard	
		MULTIPLE BOX CULVERTS CAST-IN-PLACE 7'-0" SPAN 2' TO 23' FILL MC-7-23	
File #	CD-NCTD-20.0p	Conc (CY)	Reinf (Lb)
Entered	February 2020	66	198
Revised		2,675	430.6
Entered		2	281
Revised		109.3	17,503
RELEASED FOR CONSTRUCTION			
Bass & Welsh Engineering TX Registration No. F-52, 3054 S. Alameda Street Public Improvements To King's Landing Unit 11 Corpus Christi, Nueces Co., TX			
IX001 MULTIPLE BOX CULVERT DETAILS SHEET 2 OF 2			
Dim	Scale (in)	As Shown	Job No.
1	1/4"	1/4"	14 THICK MC
2	1/4"	1/4"	1/4"
3	1/4"	1/4"	1/4"
4	1/4"	1/4"	1/4"
5	1/4"	1/4"	1/4"
6	1/4"	1/4"	1/4"
7	1/4"	1/4"	1/4"
8	1/4"	1/4"	1/4"
9	1/4"	1/4"	1/4"
10	1/4"	1/4"	1/4"
11	1/4"	1/4"	1/4"
12	1/4"	1/	



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 or curbs taller than 7'-0", refer to the Extended Curb detail sheet. For structures with bridge rail, refer to the bridge rail detail sheet. Refer to the Mounting Details for T631 & T631LS Rails (T631-CM) standard sheet. Refer to the Rail Anchorage Curb (RAC) standard sheet for structures with bridge rail other than T631.

② For vehicle safety, the following requirements must be met:

For structures without bridge rail, construct curbs no higher than 3' above

For structures with bridge rail, construct curbs flush with finished grade.

Reduced curb heights, if necessary, to meet the above requirements. No changes will be made to the curb height or the bridge rail height without coordination with the City of Corpus Christi.

③ For cover 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'-3" when the Rail Anchorage Curb (RAC) standard sheet is referred to elsewhere in the plans.

The Contractor may replace Bars B, C, D, E, F1, F2, M, Y, and/or Z with deformed twisted wire reinforcement. The use of twisted wire reinforcement is not permitted for structures with bridge rail. The area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. Spacing of wire reinforcement is to be determined by the engineer. When required, provide lap splices 2 1/2' W of the same size required for the equivalent conventional bar sizes. The lap length required for WWR is 12'-0" (12'-0" / 1.88 = 6.33'). Max spacing. Required lap length for the provided D306 wire is 2'-1" (the same minimum lap length required for uncoated #5 bars, as listed under MATERIAL NOTES).

Example conversion: Replacing No. 6 @ 6 ft @ 6 ft Spacing with WWR. Required WWR = 0.44 sq. in. per 0.5 ft. (60 ksi / 70 ksi) = 0.755 sq. in. per ft. If D306 wire is used to replace the 0.755 sq. in. per ft. requirement, in this example, the spacing would be 12'-0" / 1.88 = 6.33' (12'-0" / 6.33' = 1.88'). Max spacing. Required lap length for the provided D306 wire is 2'-1" (the same minimum lap length required for uncoated #5 bars, as listed under MATERIAL NOTES).

CONSTRUCTION NOTES:

Do not use permanent forms. Change the height of the top slab 3' at the entrance. Optionally, raise construction joints shown at the flow line by a maximum of 6". If this option is taken, Bars M may be cut off or raised, Bars C and D may be reversed.

MATERIAL NOTES:

Provide galvanized reinforcing steel. Provide galvanized reinforcing steel if required elsewhere in the plans.

Provide class C concrete (3000 psi) for invert, barrel, and curb, with the following exception: Provide class S concrete (4000 psi) for top slab if:

- culverts with overlay,
- culverts with a coarse surface treatment, or
- culverts with the top slab as the final riding surface.

Provide class S concrete as follows:

- Uncoated or galvanized - #4 = 1'-0" Min
- Uncoated or galvanized - #5 = 2'-1" Min
- Uncoated or galvanized - #6 = 4'-0" Min

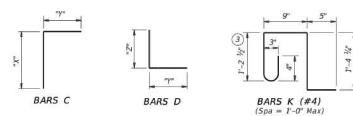
GENERAL NOTES:

Design according to AASHTO LRFD Bridge Design Specifications for the range of H-80 vehicles.

See the Single Box Culverts Cast-In-Place Miscellaneous Detail (SCC-MD) standard sheet for details pertaining to skewed ends, angle sections, and lengthening.

Cover dimensions are clear dimensions, unless noted otherwise.

Reinforcing bar dimensions shown are out-to-out of bar.



HL93 LOADING SHEET 1 OF 2

Texas Department of Transportation
Bridge Division Standard

SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL

SCC-5 & 6

File CD-SCC5-21.dwg Job T201 Inv. BMD Date 1/20/2001 Tex. T201

07/01/2001 February 2000 REVISIONS

07/01/2001 07/01/2001 07/01/2001

07/01/2001 07/01/2001 07/01/2001

RELEASED FOR CONSTRUCTION
Bob A. Whitehouse, P.E., CFPE, CPW
City of Corpus Christi
Note: This drawing is subject to change based on the conditions stated in DC 3.8.2.F.



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

PUBLIC IMPROVEMENTS TO
KING'S LANDING UNIT 11
CORPUS CHRISTI, NUECES CO., TX
(XU01) SINGLE BOX CULVERT UALHLS SHEET 1 OF 2

07/01/2001 07/01/2001 07/01/2001
07/01/2001 07/01/2001 07/01/2001
07/01/2001 07/01/2001 07/01/2001

PLAT SHEET NO. 1 OF 2 JOB NO. 17-1907-98
SCALE 1:100 DATE 07/01/2001
FILE NO. 07/01/2001 07/01/2001
DATE PLOTTED 07/01/2001 SHEET 11 OF 20

SECTION DIMENSIONS												BILLS OF REINFORCING STEEL (For Box Length = 40 feet)												QUANTITIES															
S	H	T	D	FILL HEIGHT (S)				Bars B				Bars C				Bars D				Bars F1 ~ #4 at 18" Spa		Bars F2 ~ #4 at 18" Spa		Bars H 4 ~ #4		Bars K		Per Foot of Barrel	Curb	Total									
				No.	Size	Spa	Length	Weight	No.	Size	Spa	No.	Size	Spa	Length	Weight	No.	Size	Spa	Length	Weight	No.	Length	Wt.	No.	Length	Wt.	Conc (C7)	Reinf (LB)	Conc (C7)	Reinf (LB)								
5'-0"	2'-0"	8"	7"	26	108	#6 9"	5'-11"	960	108	#5 9"	6'-3"	704	2'-6"	3'-9"	108	#5 9"	6'-5"	2'-8"	108	9"	2'-0"	144	4'-39"-9"	106	22	39'-9"	584	5'-11"	16	14	39	0.391	80.5	0.5	55	16.1	3,276		
5'-0"	2'-0"	9"	7"	30	108	#6 9"	5'-11"	960	108	#5 9"	6'-4"	713	2'-7"	3'-9"	108	#5 9"	6'-6"	2'-9"	108	9"	2'-0"	144	4'-39"-9"	106	22	39'-9"	584	5'-11"	16	14	39	0.429	81.0	0.5	55	17.6	3,294		
5'-0"	3'-0"	8"	7"	26	108	#6 9"	5'-11"	960	108	#5 9"	7'-3"	817	3'-6"	3'-9"	108	#5 9"	6'-5"	2'-8"	108	9"	2'-0"	216	4'-39"-9"	106	20	39'-9"	609	5'-11"	16	14	39	0.434	87.8	0.5	55	17.8	3,567		
5'-0"	3'-0"	9"	7"	30	108	#6 9"	5'-11"	960	108	#5 9"	7'-4"	826	3'-6"	3'-9"	108	#5 9"	6'-6"	2'-8"	108	9"	2'-0"	216	4'-39"-9"	106	20	39'-9"	609	5'-11"	16	14	39	0.474	88.0	0.5	55	17.8	3,585		
5'-0"	4'-0"	8"	7"	26	108	#6 9"	5'-11"	960	108	#5 9"	8'-0"	924	3'-6"	3'-9"	108	#5 9"	6'-5"	2'-8"	108	9"	2'-0"	289	4'-39"-9"	106	26	39'-9"	690	5'-11"	16	14	39	0.515	92.9	0.5	55	21.1	3,771		
5'-0"	5'-0"	8"	7"	26	108	#6 9"	5'-11"	960	108	#5 9"	9'-3"	1,042	3'-6"	3'-9"	108	#5 9"	6'-5"	2'-8"	108	9"	2'-0"	361	4'-39"-9"	106	30	39'-9"	797	5'-11"	16	14	39	0.521	99.7	0.5	55	21.3	4,044		
5'-0"	5'-0"	9"	7"	30	108	#6 9"	5'-11"	960	108	#5 9"	9'-4"	1,051	3'-7"	3'-9"	108	#5 9"	6'-6"	2'-9"	108	9"	2'-0"	361	4'-39"-9"	106	30	39'-9"	797	5'-11"	16	14	39	0.559	100.2	0.5	55	22.8	4,062		
6'-0"	2'-0"	8"	7"	20	108	#6 9"	6'-11"	1,122	108	#5 9"	6'-7"	742	2'-6"	4'-1"	108	#5 9"	6'-9"	2'-8"	108	9"	2'-0"	144	5'-39"-9"	133	25	39'-9"	664	6'-11"	18	16	45	0.440	89.1	0.5	63	18.1	3,628		
6'-0"	2'-0"	9"	7"	26	108	#6 9"	6'-11"	1,122	108	#5 9"	6'-8"	1,124	2'-7"	4'-1"	162	#5 6"	6'-10"	1,155	4'-1"	2'-9"	108	9"	2'-0"	144	5'-39"-9"	133	25	39'-9"	664	6'-11"	18	16	45	0.485	108.6	0.6	63	19.9	4,407
6'-0"	2'-0"	10"	8"	30	108	#6 9"	7'-11"	1,149	162	#5 6"	6'-10"	1,155	2'-8"	4'-2"	162	#5 6"	7'-0"	1,183	4'-2"	2'-10"	82	12"	2'-0"	110	5'-39"-9"	133	25	39'-9"	664	7'-11"	19	18	50	0.557	109.9	0.5	69	22.6	4,463
6'-0"	3'-0"	8"	7"	26	108	#6 9"	6'-11"	1,122	108	#5 9"	6'-7"	1,205	3'-7"	4'-1"	162	#5 6"	6'-8"	1,155	4'-1"	2'-9"	108	9"	2'-0"	216	5'-39"-9"	133	29	39'-9"	770	6'-11"	18	16	45	0.528	117.3	0.5	63	21.6	4,754
6'-0"	3'-0"	9"	7"	26	108	#6 9"	6'-11"	1,122	162	#5 6"	6'-8"	1,205	3'-7"	4'-1"	162	#5 6"	6'-10"	1,155	4'-1"	2'-9"	108	9"	2'-0"	216	5'-39"-9"	133	29	39'-9"	770	6'-11"	18	16	45	0.527	101.0	0.5	63	21.6	4,104
6'-0"	4'-0"	8"	7"	20	108	#6 9"	6'-11"	1,122	108	#5 9"	8'-7"	967	4'-6"	4'-1"	108	#5 9"	6'-9"	760	4'-1"	2'-8"	108	9"	4'-0"	289	5'-39"-9"	133	29	39'-9"	770	6'-11"	18	16	45	0.571	123.3	0.5	63	23.4	4,996
6'-0"	4'-0"	9"	7"	30	108	#6 9"	6'-11"	1,122	108	#5 9"	8'-8"	1,464	4'-7"	4'-1"	162	#5 6"	6'-10"	1,155	4'-1"	2'-9"	108	9"	4'-0"	289	5'-39"-9"	133	29	39'-9"	770	6'-11"	18	16	45	0.650	123.7	0.5	69	26.5	5,016
6'-0"	4'-0"	10"	8"	30	108	#6 9"	7'-11"	1,149	162	#5 6"	8'-10"	1,493	4'-8"	4'-2"	162	#5 6"	7'-0"	1,183	4'-2"	2'-10"	82	12"	4'-0"	219	5'-39"-9"	133	29	39'-9"	770	7'-11"	19	18	50	0.650	123.7	0.5	69	26.5	5,016
6'-0"	5'-0"	8"	7"	26	108	#6 9"	6'-11"	1,122	108	#5 9"	9'-7"	1,633	4'-7"	4'-1"	162	#5 6"	7'-10"	1,155	4'-1"	2'-9"	108	9"	6'-0"	361	5'-39"-9"	133	33	39'-9"	876	6'-11"	18	16	45	0.614	132.0	0.5	63	25.1	5,343
6'-0"	5'-0"	10"	8"	30	108	#6 9"	7'-11"	1,149	162	#5 6"	9'-10"	1,661	5'-8"	4'-2"	162	#5 6"	7'-0"	1,183	4'-2"	2'-10"	82	12"	5'-0"	274	5'-39"-9"	133	33	39'-9"	876	7'-11"	19	18	50	0.700	131.9	0.5	69	28.5	5,345
6'-0"	6'-0"	8"	7"	20	108	#6 9"	6'-11"	1,122	108	#5 9"	10'-7"	1,192	6'-6"	4'-1"	108	#5 9"	6'-9"	760	4'-1"	2'-8"	108	9"	6'-0"	433	5'-39"-9"	133	37	39'-9"	992	8'-11"	18	16	45	0.613	115.6	0.5	63	25.0	4,685
6'-0"	6'-0"	9"	7"	26	108	#6 9"	6'-11"	1,122	162	#5 6"	10'-8"	1,802	6'-7"	4'-1"	162	#5 6"	6'-10"	1,155	4'-1"	2'-9"	108	9"	6'-0"	433	5'-39"-9"	133	37	39'-9"	992	6'-11"	18	16	45	0.657	140.7	0.5	63	26.8	5,690
6'-0"	6'-0"	10"	8"	30	108	#6 9"	7'-1"	1,149	162	#5 6"	10'-10"	1,830	6'-8"	4'-2"	162	#5 6"	7'-0"	1,183	4'-2"	2'-10"	82	12"	6'-0"	329	5'-39"-9"	133	37	39'-9"	992	7'-1"	19	18	50	0.749	140.2	0.5	69	30.5	5,675

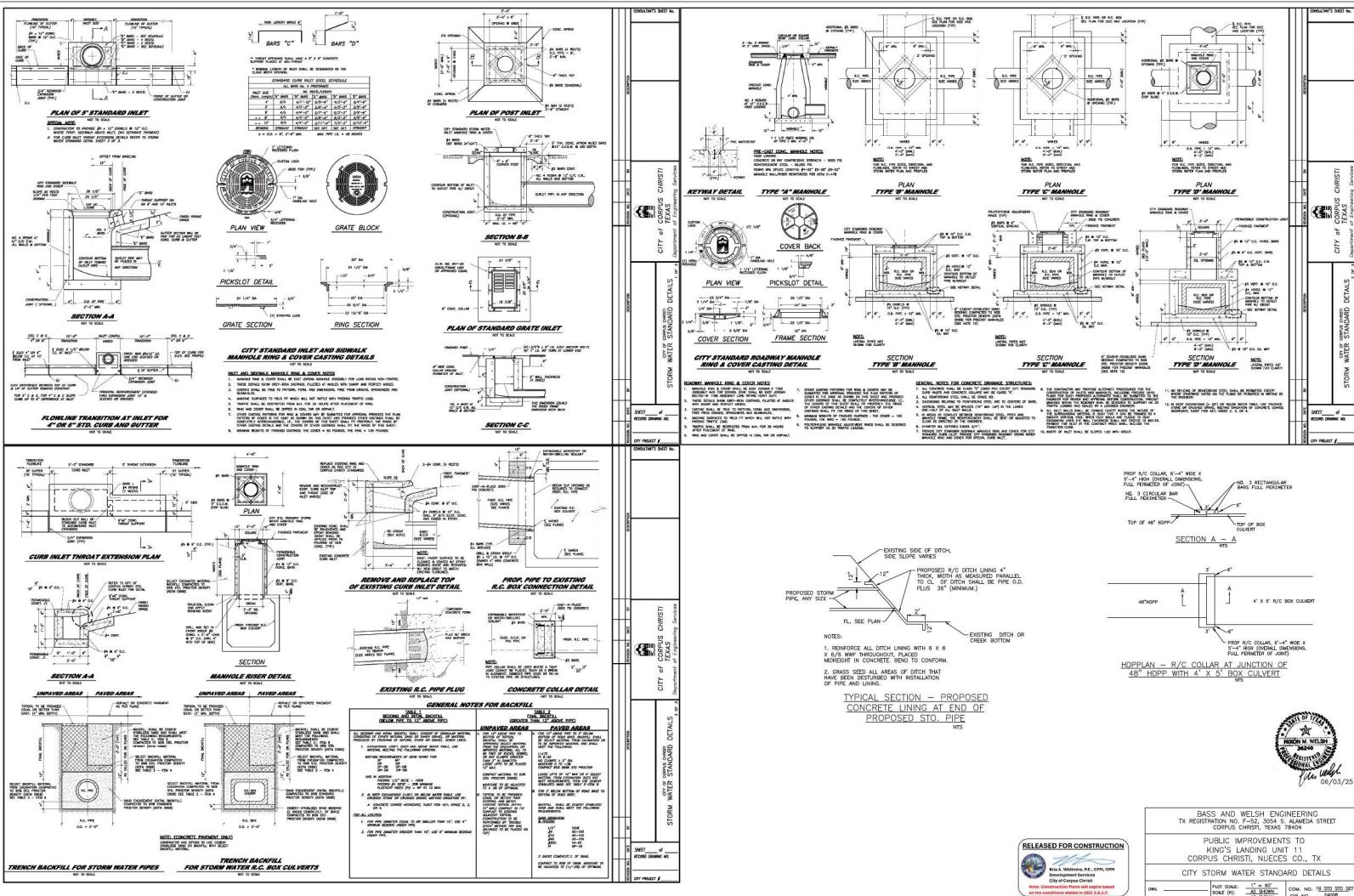
(5) For direct 10' x 10' covers (If height ≤ 2 ft.), identify the required box size and select the option with the minimum H height.

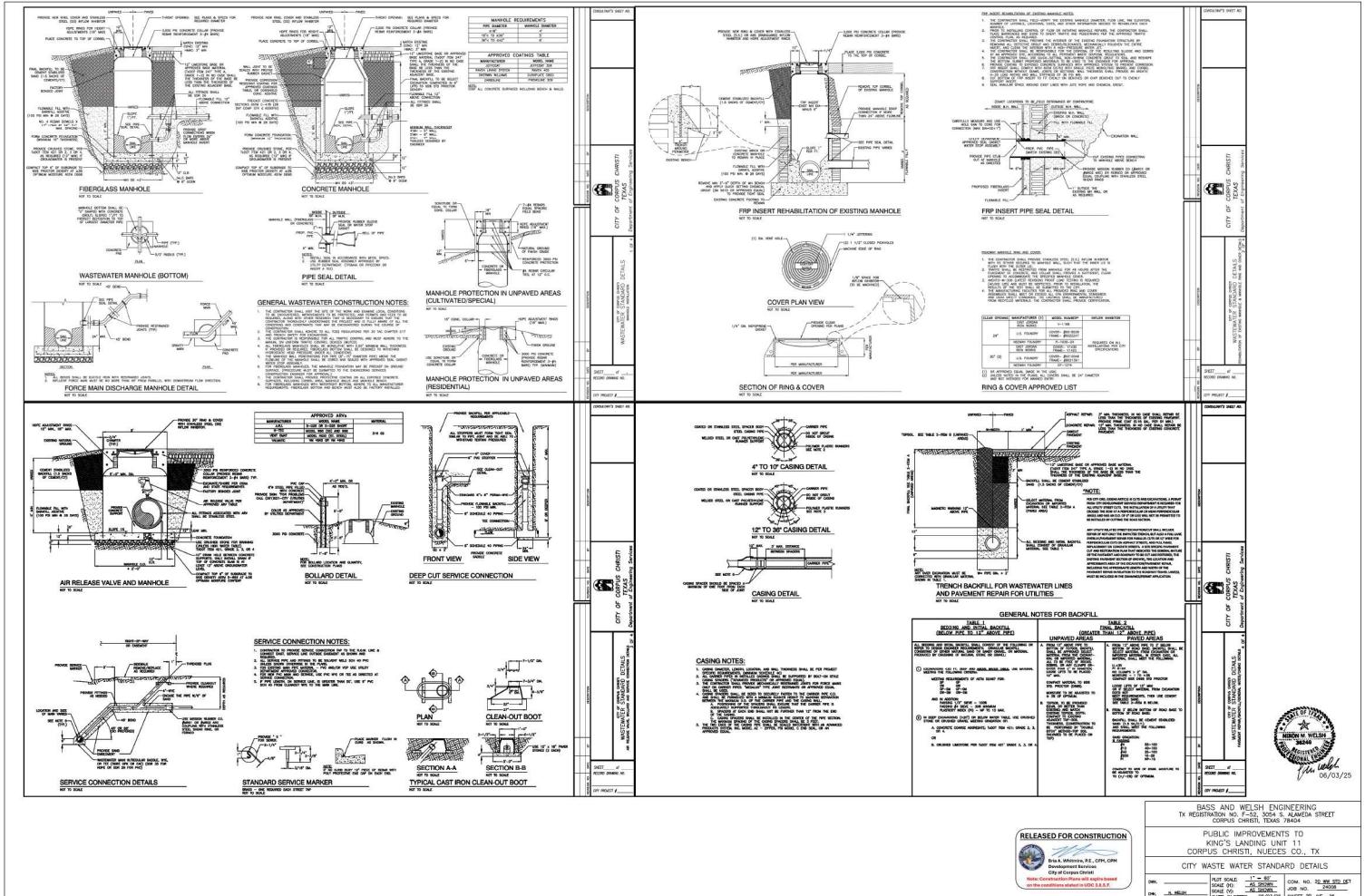
SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL			
SCC-5 & 6			
Per: CD-SCC56-21.dwg	Inv TBE	Inv BMP	Inv TJO/TB
CF/TxDOT	February 2002	CONC	JOBT
REF ID: 33333333			
02/02/2002	CREATED	MODIFIED	REMOVED

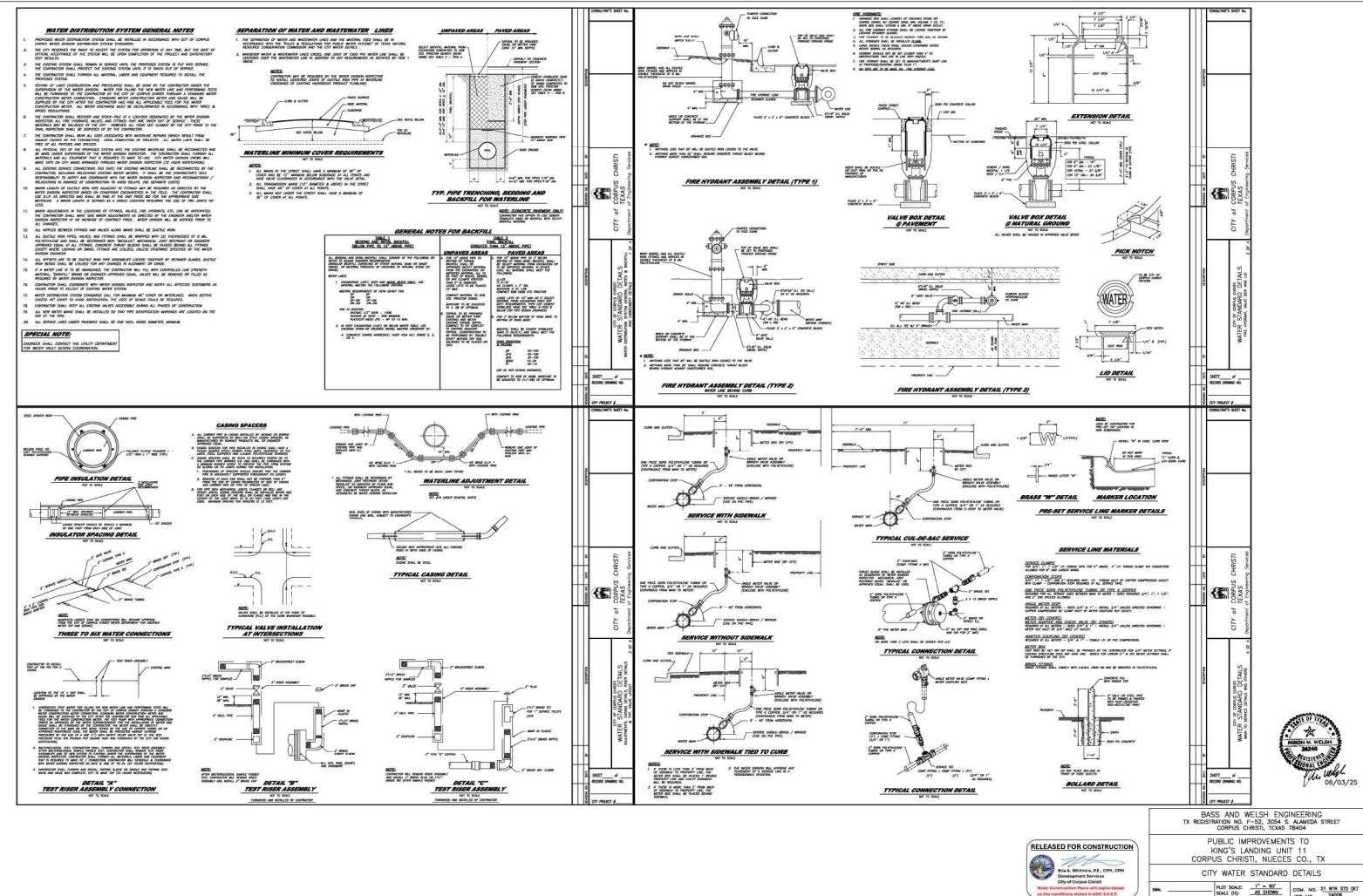
RELEASED FOR CONSTRUCTION

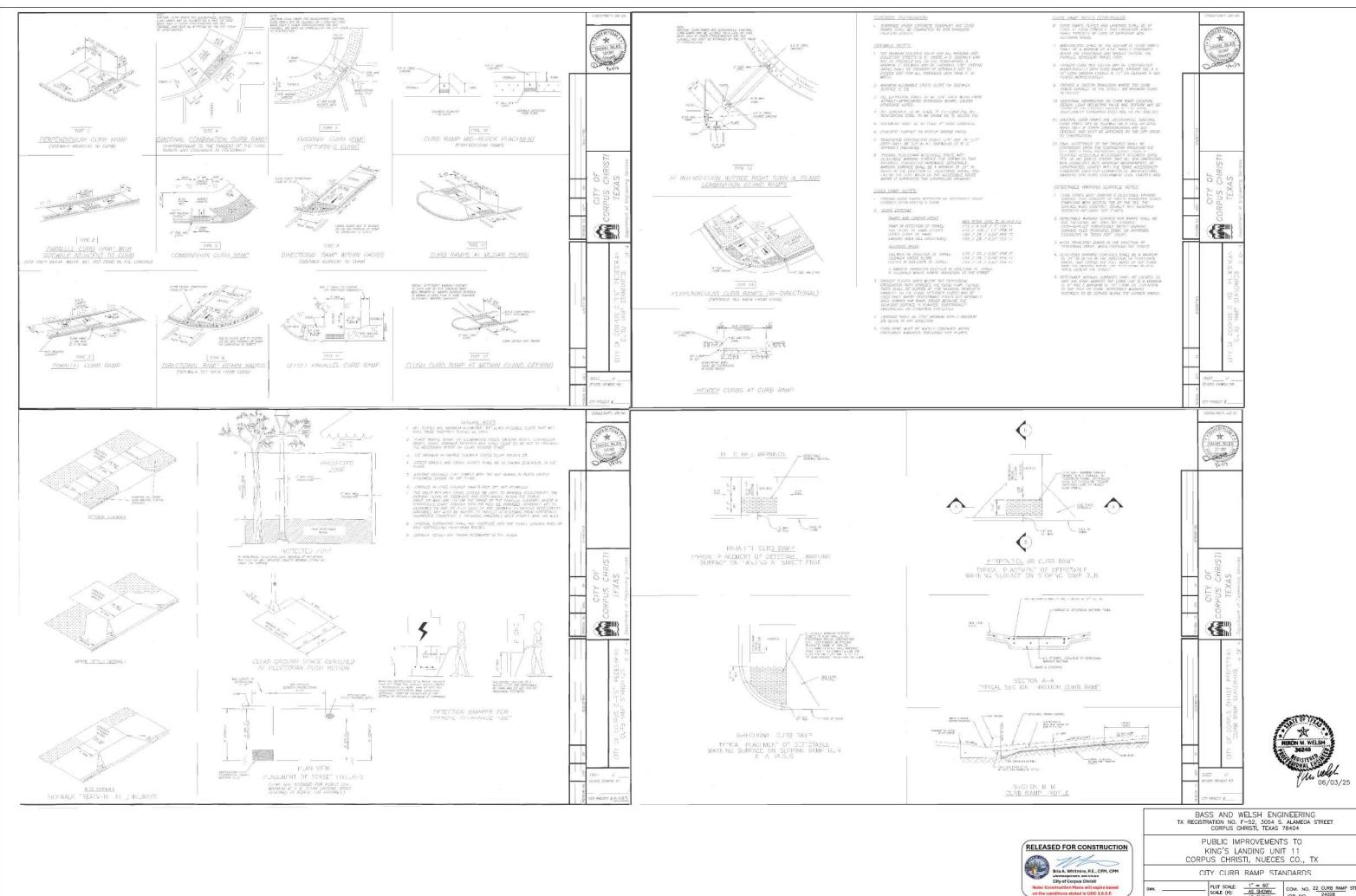
Brian A. Whitehouse, P.E., CFPE, CPMP
City of Corpus Christi, TX
Note: This drawing is copyrighted by the City of Corpus Christi, TX.
It is the property of the City of Corpus Christi, TX and is loaned to the engineer.
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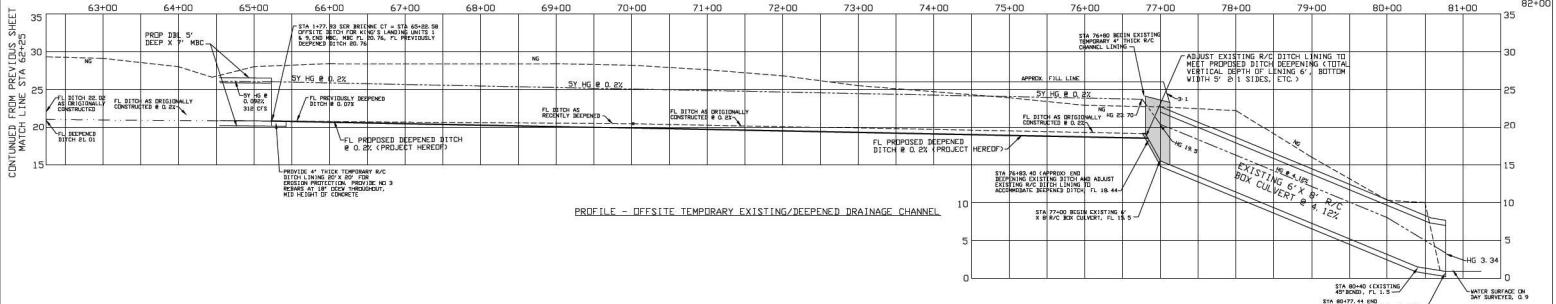
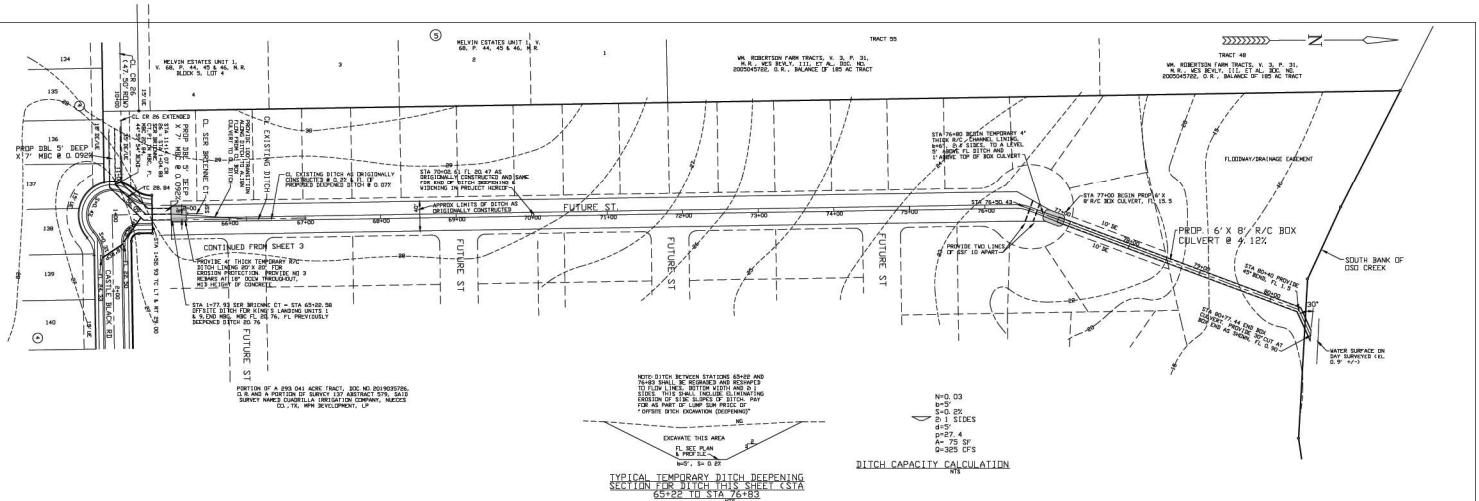
BASS AND WELSH ENGINEERING TX REGISTRATION NO. F-52 3054 S. ALAMO STREET CORPUS CHRISTI, TX 78401			
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 11 CORPUS CHRISTI, NUECES CO., TX			
1X001 SING. BOX CULVERT SHEET 1 OF 2			
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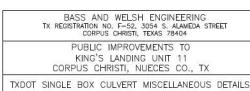
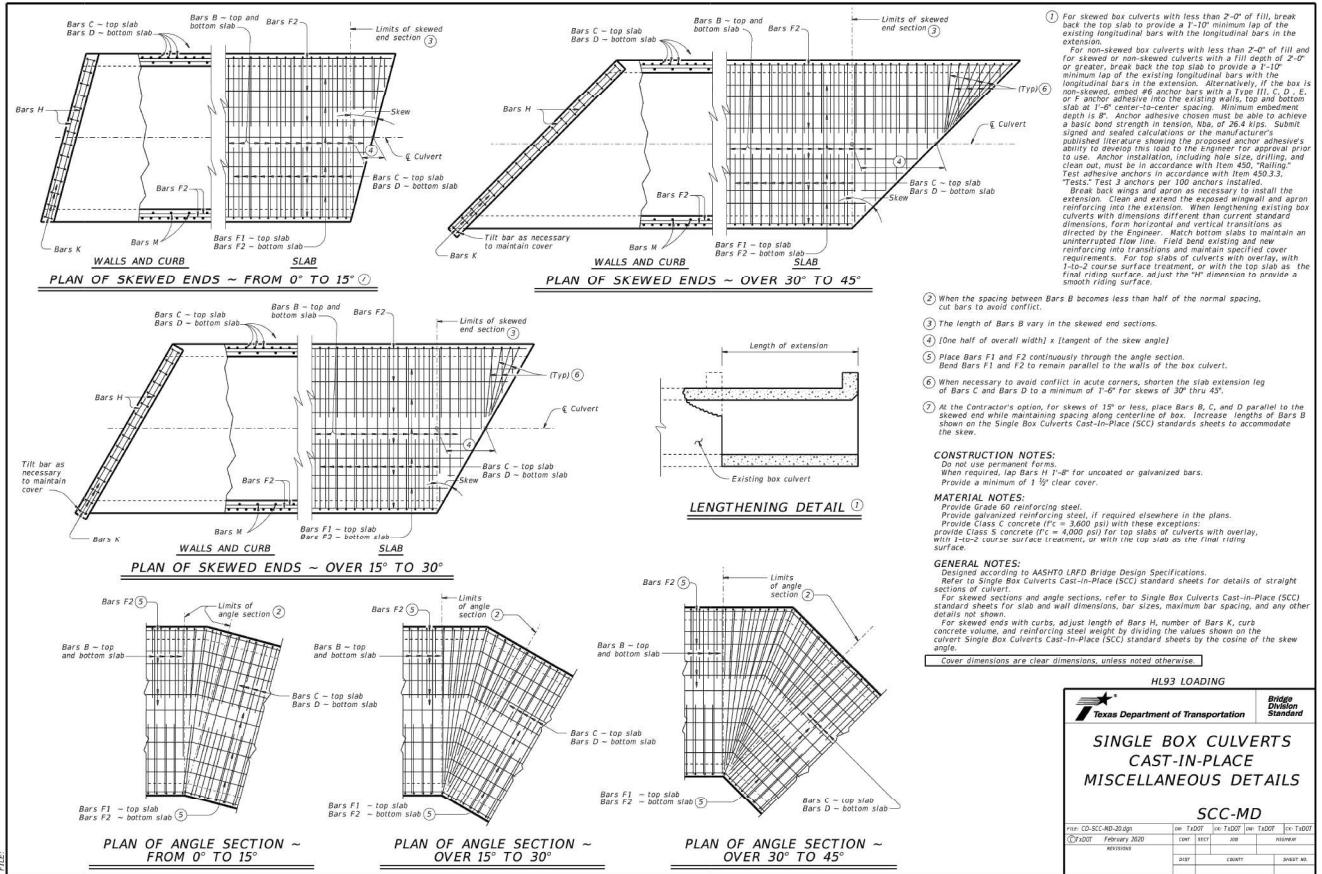
[Signature]

Bill A. Whiteman, P.E., CFM, CPM
Development Services
City of Corpus Christi
Note: Construction Plans will expire based
on the date of issuance or 120 days after the date of issue.

BASS & WELSH ENGINEERING TX SURVEY CO., INC. NO. 104, TX ENGINEERING REG. NO. F-52, 3054 S. ALAMEDA STREET, CORPUS CHRISTI, TX 78404	
PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 11 CORPUS CHRISTI, NUECES CO., TX	
OFFSITE DRAINAGE CHANNEL PLAN AND PROFILE	
DRW:	PILOT DATE: 1-16-02
DRW:	SCALE (IN): 1" = 50'
DRW:	JOB NO.: 24009
DRW:	33-05-08

DISCLAIMER. The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TADOT for any purpose whatsoever.

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A rectangular stamp with a decorative border. The top line reads "RELEASED FOR CONSTRUCTION". Below this is a circular emblem featuring a lighthouse and the text "CORPUS CHRISTI". A handwritten signature is written across the center of the stamp.

EXHIBIT 3

GEOTECHNICAL ENGINEERING REPORT

**Proposed King's Landing Unit 11
Various Streets
Corpus Christi, Texas**

PSI Project No. 03123568-3

PREPARED FOR:

**MPM Development, LP
P.O. Box 331308
Corpus Christi, TX 78463**

BY:

**PROFESSIONAL SERVICE INDUSTRIES, INC.
810 S. Padre Island Dr.
Corpus Christi, Texas 78416
Phone: (361) 854-4801**





Professional Service Industries, Inc.
810 S. Padre Island Drive
Corpus Christi, Texas 78416
Office (361) 854-4801

MPM Development, LP

P.O. Box 331308
Corpus Christi, TX 78463

Attn: Mr. Moses Mostaghasi

**RE: GEOTECHNICAL ENGINEERING REPORT
PROPOSED KING'S LANDING UNIT 11
VARIOUS STREETS
CORPUS CHRISTI, TEXAS
PSI Project No. 03123568-3**

Mr. Mostaghasi:

Professional Service Industries, Inc. (PSI), an Intertek company, is pleased to submit this Geotechnical Engineering Report for the referenced project. This report includes the results from the field and laboratory investigation along with recommendations for use in preparation of the appropriate design and construction documents for this project.

PSI appreciates the opportunity to provide this Geotechnical Engineering Report and looks forward to continuing participation during the design and construction phases of this project. PSI also has great interest in providing materials testing and inspection services during the construction of this project and will be glad to meet with you to further discuss how we can be of assistance as the project advances.

If there are questions pertaining to this report, or if PSI may be of further service, please contact us at your convenience.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Texas Board of Professional Engineers Certificate of Registration # F003307

Philip L. Johnson, P.E.
Principal Consultant
Senior Geotechnical Engineer



Dexter Bacon, P.E.
Chief Engineer



1.0 PROJECT INFORMATION

1.1 PROJECT AUTHORIZATION

Professional Service Industries, Inc. (PSI), an Intertek company, has completed a field exploration and geotechnical evaluation for the proposed King's Landing Unit 11 project. Mr. Moses Mostaghasi representing MPM Development, authorized PSI's services on 6/9/2025 by signing PSI Proposal No. 384952. PSI's proposal contained a proposed scope of work, lump sum fee, and PSI's General Conditions.

1.2 PROJECT DESCRIPTION

Based on information provided by the Client, PSI's review of a site plan entitled Public Improvements to King's Landing, and prepared by Bass and Welch Engineering, and the results of this geotechnical investigation, a summary of our understanding of the proposed project is provided in the following General Project Description table.

TABLE 1.1: GENERAL PROJECT DESCRIPTION

Project Items	New streets for a new King's Landing Unit 11 residential development
Existing Grade Change within Building Pad Area	Relatively Flat
Existing Grade Change within Project Site Area	± 2 feet (estimated from Google Earth)
Finished Floor Elevation	Not Provided
Pavement for Parking and Drives	RCC Pavement

The geotechnical recommendations presented in this report are based on the available project information, structure locations, and the subsurface materials encountered during the field investigation. If the noted information or assumptions are incorrect, please inform PSI so that the recommendations presented in this report can be amended, as necessary. PSI will not be responsible for the implementation of provided recommendations if not notified of changes in the project.

1.3 PURPOSE AND SCOPE OF SERVICES

The purpose of this study is to evaluate the subsurface conditions at the site and develop geotechnical engineering recommendations and guidelines for use in preparing the design and other related construction documents for the proposed project. The scope of services included drilling soil borings, performing laboratory testing, and preparing this geotechnical engineering report.

This report briefly outlines the available project information, describes the site and subsurface conditions, and presents the recommendations regarding the following:



- General site development and subgrade preparation recommendations;
- Estimated potential soil movements associated with collapsing, shrinking and swelling soils and methods to reduce these movements to acceptable levels;
- Recommendations for site excavation, fill compaction, and the use of on-site and imported fill material under pavements;
- Recommendations for the design and construction considerations for roller compacted concrete (RCC) pavement for the proposed streets; and
- Utility design and construction considerations.

The scope of services for this geotechnical exploration did not include an environmental, mold nor detailed seismic/fault assessment for determining the presence or absence of wetlands, or hazardous or toxic materials in the soil, bedrock, surface water, groundwater, or air on or below, or around this site. Statements in this report or on the boring logs regarding odors, colors, and unusual or suspicious items or conditions are strictly for informational purposes.



2.0 SITE AND SUBSURFACE CONDITIONS

2.1 SITE DESCRIPTION

The following table provides a generalized description of the existing site conditions based on visual observations during the field activities, as well as other available information.

TABLE 2.1: SITE DESCRIPTION

Site Location	CR 49 and FM 43, Corpus Christi, Nueces County, Texas
Site History	Farm Land, New Residential Construction
Existing Site Ground Cover	Grass, weeds
Existing Grade/Elevation Changes	± 2 feet (estimated from Google Earth)
Site Boundaries/Neighboring Development	North: Undeveloped Cultivated Fields East: London School South: Weber Road West: Residential Subdivision
Ground Surface Soil Support Capability	Good enough for construction vehicles when dry; Poor when wet

2.2 FIELD EXPLORATION

Field exploration for the project consisted of drilling a total of 17 borings. The boring design element, boring labels, approximate depths and drilling footage are provided in the following table.

TABLE 2.2: FIELD EXPLORATION SUMMARY

Design Element	Number of Borings	Boring Depth (ft)	Drilling Footage (feet)
Pavement	15	10	130
Pavement/Utilities	2	20	40
TOTAL:	17		170

The boring locations were selected by PSI personnel and located in the field using a recreational-grade GPS system. Elevations of the ground surface at the boring locations were not provided and should be surveyed by others prior to construction. The references to elevations of various subsurface strata are based on depths below existing grade at the time of drilling. The approximate boring locations are depicted on the Boring Location Plan provided in the Appendix.



TABLE 2.3: FIELD EXPLORATION DESCRIPTION

Drilling Equipment	Truck-Mounted Drilling Rig
Drilling Method	Continuous Flight Augers
Drilling Procedure	Applicable ASTM and PSI Safety Manual
Field Testing	Hand Penetrometer, Standard Penetration Test (ASTM D1586)
Sampling Procedure	ASTM D1587/1586
Sampling Frequency	Continuously to a Depth of 10 Feet and at 5-foot Intervals Thereafter
Frequency of Groundwater Level Measurements	During and After Drilling
Boring Backfill Procedures	Soil Cuttings

During field activities, the encountered subsurface conditions were observed, logged, and visually classified (in general accordance with ASTM D2487). Field notes were maintained to summarize soil types and descriptions, water levels, changes in subsurface conditions, and drilling conditions.

2.3 LABORATORY TESTING PROGRAM

PSI supplemented the field exploration with a laboratory testing program to determine additional engineering characteristics of the subsurface soils encountered. The laboratory testing program included:

TABLE 2.4: LABORATORY TESTING PROGRAM

Laboratory Test	Procedure Specification
Visual Classification	ASTM D2488
Moisture Content	ASTM D2216
Atterberg Limits	ASTM D4318
Material Finer than No. 200 Sieve	ASTM D1140

The laboratory testing program was conducted in general accordance with applicable ASTM Test Methods. The results of the laboratory tests are provided on the Boring Logs in the Appendix. Portions of samples not altered or consumed by laboratory testing will be discarded 60 days from the date shown on this report.

2.4 SITE GEOLOGY

As shown on the Geologic Atlas of Texas, Corpus Christi Sheet, reprinted in 1975, the site is located in an area where the **Beaumont Formation (Qb)** is present at or near the ground surface. The Beaumont



Formation consists mostly of clay and sand intermixed with gravel. The Beaumont Formation thickness varies from 3 to 10 meters to over 100 meters toward the southeast.

2.5 SUBSURFACE CONDITIONS

The results of the field and laboratory investigation have been used to generalize a subsurface profile at the project site. The following subsurface descriptions provide a highlighted generalization of the major subsurface stratification features and material characteristics.

TABLE 2.5: GENERALIZED SOIL PROFILE

Stratum	Top (ft)	Bot. (ft)	Soil Type	LL (%)	PI	% Passing #200 Sieve	PP (Avg)
1	0	20	Fat Clay	75	43	88	2.3

Where: LL = Liquid limit (%)

PI = Plasticity Index

PP – Hand Penetrometer (tsf)

The boring logs included in the Appendix should be reviewed for specific information at individual boring locations. The boring logs include soil descriptions, stratifications, locations of the samples, and field and laboratory test data. The descriptions provided on the logs only represent the conditions at that actual boring location; the stratifications represent the approximate boundaries between subsurface materials. The actual transitions between strata may be more gradual and less distinct. Variations will occur and should be expected across the site.

2.5.1 GROUNDWATER INFORMATION

Water level measurements were performed during drilling and after completion of drilling. Specific information concerning groundwater is noted on each boring log presented in the Appendix of this report. Groundwater **was not** encountered during the field investigation of this site. Groundwater levels fluctuate seasonally as a function of rainfall, proximity to creeks, rivers and lakes, the infiltration rate of the soil, seasonal and climatic variations and land usage. In relatively pervious soils, such as sandy soils, the indicated depths are a relatively reliable indicator of groundwater levels. In relatively impervious soils, water levels observed in the borings may not provide a reliable indication of groundwater elevations, even after several days. If a detailed water level evaluation is required, observation wells or piezometers can be installed at the site to monitor water levels.

The groundwater levels presented in this report were measured at the time of PSI field activities. The contractor should determine the actual groundwater levels at the site before construction activities.

3.0 GEOTECHNICAL EVALUATION AND RECOMMENDATIONS



3.1 GEOTECHNICAL DISCUSSION

The following design recommendations have been developed based on the previously described project characteristics and subsurface conditions encountered. If there are changes in the project criteria, PSI should be retained to determine if modifications in the recommendations will be required. The findings of such a review would be presented in a supplemental report. Once final design plans and specifications are available, a general review by PSI is recommended to observe that the conditions assumed in the project description are correct and to verify that the earthwork and foundation recommendations are properly interpreted and implemented within the construction documents.

3.2 POTENTIAL VERTICAL MOVEMENT OF EXPANSIVE SOILS

The soils encountered at the soil boring locations exhibit a **high** potential for volumetric changes, due to fluctuations in soil moisture content. PSI has conducted laboratory testing on the soils to estimate the expansive soil potential with soil moisture variations. These soil moisture variations are based on historical climate change data for a particular site. Determining the soil potential for shrinking and swelling, combined with historical climate variation, aids the engineer in quantifying the soil movement potential of the soils supporting the floor slab and shallow foundations. Shrink/swell movement procedures using two soil modeling systems, the Post Tensioning Institute's (PTI) "Design of Post-Tensioned Slabs-on-Ground, 3rd Edition" and Texas Department of Transportation (TxDOT) method TEX-124-E, were utilized to approximate the Potential Vertical Movement (PVM) for this location.

3.2.1 SHRINK/SWELL MOVEMENT (PVM) ESTIMATE

Based on laboratory testing results and the TEX-124-E and the PTI methods, the potential vertical movement (PVM) within the proposed project area is estimated to be approximately **4 inches**.

It is not possible to accurately quantify actual soil moisture changes and resulting shrink/swell movements. The PVM (*often referred to as PVR*) and referenced structural movements values provided should not be considered absolute values that could occur in the field, but approximate values based on industry standard practice and experience. Extreme soil moisture variations could occur due to unusual drought severity, leaking water or sewer lines, perched groundwater infiltration, or seasonal springs. Also, soil desiccation from trees located adjacent to or previously underneath the building, downspouts directing roof discharge under the foundation, poor drainage or irrigation line breaks could lead to moisture content changes greater than accounted for from normal climate variations and result in excessive foundation movements.

The unknown factors previously mentioned cannot be determined at the time of the geotechnical study. Therefore, estimated shrink/swell movements are calculated only in consideration of historical climate data related to soil moisture variations. Movements in excess of these assumed variations should be anticipated and regular maintenance should be provided to address these issues throughout the life of the structure.



3.3 UTILITY EXCAVATION AND LATERAL EARTH PRESSURE CONSIDERATIONS

New utility lines may be installed below the pavement. The pipe designer should account for sustained loads due to the soil overburden pressures and potential surcharge loads that may be applied to the pipe. The load due to the soil overburden pressures can be estimated using the total and effective unit weights of the soil and depths of each layer of soil. A total unit weight of 110 pcf or buoyant weight of 64 pcf may be assumed for on-site clayey material. In addition, hydrostatic pressures and/or surcharge loads, if present, should also be accounted for in the design.

Unbalanced thrust forces could also be developed in the pipeline due to changes in direction, cross-sectional areas, or if the pipe is terminated. These forces may cause joints to disengage if not adequately restrained. To resist movement and overstressing the pipe, suitable buttressing should be provided. In general, thrust blocks and/or concrete encasement are common methods of providing reaction for the thrust restraint design. For design of thrust blocks and similar other thrust restraints may be designed in consideration of an allowable passive resistance of **1,200 psf**.

Unbalanced forces produced by grade and alignment changes can be resisted by friction on the pipe. The frictional resisting force can be computed by multiplying the pressure produced by the combined weight of the pipe, contained water, and soil overburden by a coefficient of friction between the pipe and underlying bedding material. Based upon the recommended pipe installation and bedding, the unfactored coefficient of friction is anticipated to be approximately 0.3.

The Occupational Safety and Health Administration (OSHA) Safety and Health Standards (29 CFR Part 1926, Revised October 1989), require that excavations be constructed in accordance with the current OSHA guidelines. Furthermore, the State of Texas requires that detailed plans and specifications meeting OSHA standards be prepared for trench and excavation retention systems used during construction.

Most soils at this site consist primarily of clays that would be classified as OSHA Type "B" soils requiring a temporary excavation slope no steeper than 1H:1V. However, any soils below the groundwater table would be classified as Type "C" soils requiring temporary slopes no steeper than 1 ½ H: 1V.

Groundwater was not encountered in the test borings during our field exploration. We recommend that the contractor perform an investigation to establish groundwater levels prior to construction to evaluate sloping and dewatering requirements prior to construction.

3.4 DISCUSSION OF BEDDING AND BACKFILL MATERIALS

Typically, the bedding and initial backfill around a buried pipeline is designed to support and protect the pipe. Secondary backfill is then placed over the initial backfill and pipe to help protect the pipe, reestablish the ground surface at the trench, and provide support to structures overlying the trench.

Generally, the bedding and initial backfill materials for piping consist of a graded gravel. The existing soils at the pipe bearing levels should be removed to a minimum depth of six (6) inches below the bottom of the pipe and replaced with gravel bedding. The bedding material should embed the lower quadrant or to the midpoint of the pipe at a minimum and should be compacted in maximum compacted thickness of eight (8) inches with mechanical hand compaction equipment. The initial backfill should extend from the



 Corpus Christi, Texas

surface of the bedding to a point one (1) foot above the top of the pipe and should be compacted in maximum compacted thickness of eight (8) inches with mechanical hand compaction equipment.

The secondary backfill may consist of material excavated from the trench. The secondary backfill should be free of debris and should not contain stones greater than three (3) inches in diameter. The secondary backfill should be placed at moisture contents between optimum and plus four (+4) percentage points of optimum and compacted to at least 95 percent of the maximum dry density as determined by ASTM D698. Each lift should be placed with a maximum compacted thickness of six (6) inches. Care should be taken during backfill compaction to prevent structural damage to the pipe.

3.5 EXCAVATION AND SHORING CONSIDERATIONS

Lateral earth pressures from the soils will be applied to the trench shoring. Additionally, hydrostatic pressures and any equipment loads, and other surcharges should be considered for trench shoring design. The follow table should be utilized for the design of the allowable temporary slopes and trench shoring.

TABLE 3.1: EXCAVATION AND SHORING DATA

Material Type	OSHA Soil Type	At-Rest Condition, K _o
Fat and Lean Clay (CH and CL)	"B"	0.60
Fat and Lean Clay below GWT (CH and CL), Clayey Sands (SC)	"C"	0.60

A lateral earth pressure of $120 \text{pcf} * K_o * \text{depth(ft)}$ should be used to evaluate lateral earth pressures applied to the shoring in a rectangular distribution. These values do not consider hydrostatic pressures. We recommend that the hydrostatic pressure be added to the lateral earth pressure in a triangular distribution of $62.4 \text{pcf} * (X)$ for that portion of the shoring below the groundwater table.

3.6 SITE SEISMIC DESIGN RECOMMENDATIONS

For the purposes of seismic design, based on the encountered site conditions and local geology, PSI interpreted the subsurface conditions to satisfy the **Site Class D** criteria for use at this site as defined by the International Building Code (IBC). The site class is based on the subsurface conditions encountered at the soil borings, the results of field and laboratory testing, experience with similar projects in this area, and considering the site prepared as recommended herein. The table below provides recommended seismic parameters for the project based on the 2018 edition of the IBC.

TABLE 3.2: RECOMMENDED DESIGN SEISMIC PARAMETERS

Seismic Parameter	IBC 2018
0.2 sec (S _s)	0.064g



1.0 sec (S_1)	0.033g
Site Coefficient 0.2sec, F_a	1.6
Site Coefficient 1.0 sec, F_v	2.4
0.2 sec (S_{DS})	0.068g
1.0 sec (S_{D1})	0.053g

4.0 PAVEMENT DESIGN RECOMMENDATIONS

4.1 PAVEMENT DESIGN PARAMETERS

PSI understands that Roller Compacted Concrete pavements are being considered for this project. Pavement design recommendations based on the City of Corpus Christi IDM pavement design requirements for the various planned street types as outlined in Table 4.1 below are provided. In addition, PSI utilized the "AASHTO Guide for Design of Pavement Structures" published by the American Association of State Highway and Transportation Officials to evaluate the pavement thickness recommendations in this report. This method of design considers pavement performance, traffic, roadbed soil, pavement materials, environment, drainage and reliability. Each of these items is incorporated into the design methodology. PSI is available to provide laboratory testing and engineering evaluation to refine the site-specific design parameters and sections, upon request. Details regarding the basis for this design are presented in the table below.

TABLE 4.1: PAVEMENT DESIGN PARAMETERS AND ASSUMPTIONS

Reliability, percent	70 for Residential Street 75 for Local Residential Collector 80 for Minor Residential Collector (C1) 90 for Secondary Collector Street (C2)
Design Life	30 Years
Initial Serviceability Index	4.5
Terminal Serviceability Index	2.5
Traffic Load	Residential Street: 50,000 ESALs Local Residential Collector: 200,000 ESALs Minor Residential Collector (C1): 1,200,000 ESALs Secondary Collector Street (C2): 2,000,000 ESALs
Standard Deviation	0.39
Concrete Compressive Strength	4,000 psi

Estimated Subgrade California Bearing Ratio (CBR)	2.0 for high plasticity clay subgrade
Estimated Subgrade Modulus of Subgrade Reaction, k in pci	200 for lime/cement stabilized subgrade

Pavements supported on expansive soils will be subject to PVM previously presented (approximately 4 inches \pm $\frac{1}{2}$ inch). These soil movements typically occur to some degree over the life of the pavement. Consequently, pavements can be expected to crack and require periodic maintenance. The pavement section thickness of approximately 15 to 16 inches would reduce the anticipated PVR to approximately 2 $\frac{1}{2}$ inches. It is our opinion that this magnitude of PVR can be primarily resisted considering a concrete or RCC pavement section.

During the paving life, maintenance to seal surface cracks within concrete pavement and to reseal joints within concrete pavement should be undertaken to achieve the desired paving life. Perimeter drainage should be controlled to prevent or retard influx of surface water from areas surrounding the paving. Water penetration leads to paving degradation. Water penetration into subgrade materials, sometimes due to irrigation or surface water infiltration, leads to pre-mature paving degradation. Curbs should be used in conjunction with concrete paving to reduce potential for infiltration of moisture into the subgrade. Clay type compacted materials (12-25) or flowable fill should be placed on top of the base and beneath the sidewalk so that a path for moisture infiltration under the curb and into the pavement section is mitigated.

The City of Corpus Christi requires the base and subgrade to be extended beneath the curb and gutter and to 2 feet behind the Curb. In accordance with City Standard Spec 025612 (Concrete Curb and Gutter) there is a requirement for compaction behind the Curb within 48 hours of removing forms.

Material specifications, construction considerations, and thickness section requirements are presented in following sections.

The presented recommended pavement sections are based on the field and laboratory test results for the project, City of Corpus Christi pavement design practice, design assumptions presented herein and previous experience with similar projects. The project Civil Engineer should verify that the design values are appropriate for the expected traffic and design life of the project. PSI should be notified in writing if the assumptions or design parameters are incorrect or require modification.

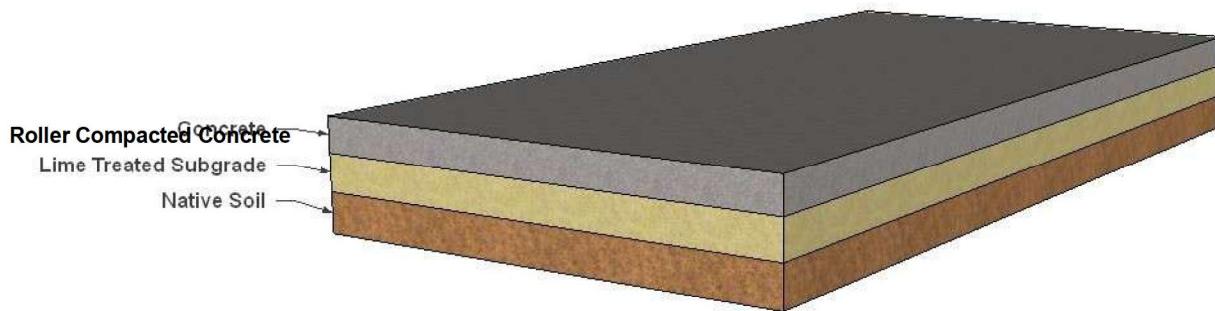
4.2 PAVEMENT SECTION RECOMMENDATIONS

PSI anticipated that the roadways will be used primarily by typical residential traffic primarily consisting of passenger vehicles, pickup trucks, school buses, delivery vehicles, and garbage trucks. PSI is providing thickness sections based on experience with similar facilities constructed on similar soil conditions for the design traffic loading anticipated.

4.2.1 ROLLER COMPACTED CONCRETE PAVEMENT

Thickness recommendations for roller compacted concrete (RCC) pavement are provided below.



**FIGURE 4.1: ROLLER COMPACTED CONCRETE PAVEMENT TYPICAL SECTION****TABLE 4.2: ROLLER COMPACTED CONCRETE PAVEMENT DESIGN THICKNESS**

Material	Thickness (in)			
	Residential Street	Local Residential Collector	Minor Residential Collector (C1)	Secondary Collector (C2)
RCC Pavements	7.0	7.0	7.0	8.0
Lime/Cement Treated Subgrade	8	8	12	12

The AASHTO design calculation spreadsheets for these various street classifications are included in the Appendix.

4.2.2 GENERAL PAVEMENT DESIGN AND CONSTRUCTION RECOMMENDATIONS

Roller compacted concrete pavement should be constructed in general accordance with TxDOT Special Specification 3016, Roller Compacted Concrete (included in the Appendix). Recommendations based upon the TxDOT specification are presented in the following table.

TABLE 4.3: PAVEMENT PROFILE DESIGN AND CONSTRUCTION RECOMMENDATIONS

Minimum Undercut Depth	6 inches or as needed to remove roots
Reuse Excavated Soils	Free of roots and debris and meet material requirements of intended use
Undercut Extent	2 feet beyond back of curb
Exposed Subgrade Treatment	Proof-roll with rubber-tired vehicle weighing at least 20 tons. A representative of the Geotechnical Engineer should be present during proof-roll.

Proof-Rolled Pumping and Rutting Areas	Excavate to firmer materials and replace with compacted general or select fill under direction of a representative of the Geotechnical Engineer
General Fill	Materials free of roots, debris, and other deleterious materials with a maximum rock size of 4 inches with a CBR greater than 3. This will be confirmed by CMT.
Minimum General Fill Thickness	As required to achieve grade
Maximum General Fill Loose Lift Thickness	9 Inches
Lime/Cement Treatment	Performed in general accordance with TxDOT Item 260. Subgrade treated with lime should achieve a pH of 12.4 or greater. A lime series test should be performed at the time of construction after the pavement subgrade soils are established to determine the lime requirement. For estimating purposes, use 3% lime by dry weight. Sulfate testing should also be conducted before placement of lime to evaluate the potential for sulfate induced heave from the lime stabilization. The organic content of the subgrade should not exceed 1%. Once the min. 24 hour mellowing period for lime is complete, the lime stabilized subgrade should be cement stabilized with 5% cement per TxDOT Item 275.
RCC Mix Design	Proposed RCC Mix Design should be reviewed by City of Portland and PSI prior to construction. A trial batch is required to ensure workability and compressive strength.
Concrete Compressive Strength (28 days)	Minimum 4,000 psi
Concrete Cement and Aggregates	Cement: TxDOT Item 421. Aggregates: RCC Combined Aggregates Gradation for RCC Surface Course. Materials Passing the No. 40 Sieve should have a Plasticity Index of less than 4.

Quality Control of RCC Pavements	The RCC should be compacted to a min. dry density of at least 95% of the Modified Proctor (ASTM D-1557) maximum dry density within 2% of optimum moisture content. Molding compressive strength: Per ASTM C1435, 1 set of 4 of cylinders for 2@7 days, 2@28 days compression testing for every 1,500 cy of RCC with a minimum of 2 sets per day.
Placement of RCC Pavements	The concrete batch plant should be within 30 minutes from point of placement. Production of RCC must be adequate to mitigate the potential of unplanned cold joints. The pavement should be placed and compacted as required by TxDOT Special Specification 3016.
Compaction Testing of RCC Pavements	ASTM C1040 - In-Place Density of Unhardened and Hardened Concrete, Including Roller Compacted Concrete, By Nuclear Methods. Single Lift and a minimum of 2 tests per day or per 500 CY. Testing should be completed within 30 minutes after rolling.
RCC Crack Control	Transverse Joints: Maximum 15-foot intervals. Joints should be saw blade width to a depth of at least $\frac{1}{4}$ the pavement thickness and filled and sealed with approved joint sealants and fillers. Expansion and Control Joints: As required. Filled and sealed with approved joint sealants and fillers.

TABLE 4.4: COMPACTION AND TESTING RECOMMENDATIONS FOR PAVEMENT AREAS

Location	Material	Test Method for Density Determination	Percent Compaction	Optimum Moisture Content	Testing Frequency
Pavement Areas	Scarified Onsite Soil (Subgrade)	ASTM D698	$\geq 95\%$	0 to +4%	1 per 7,500 SF; min. 3 tests
	General Fill (Onsite Material)	ASTM D698	$\geq 95\%$	0 to +4%	1 per 10,000 SF; min. 3 per lift
	RCC Pavement	ASTM D1557	$\geq 95\%$	---	Single Lift 1 per 500 CY or
	RCC Pavement	ASTM 1170	$\geq 98\%$		Single Lift 1 per 500 CY

5.0 CONSTRUCTION CONSIDERATIONS

PSI should be retained to provide observation and testing of construction activities involved in the earthwork, pavements and related activities of this project. PSI cannot accept any responsibility for any conditions which deviate from those described in this report, nor for the performance of the pavements if not engaged to also provide construction observation and materials testing for this project. The PSI geotechnical engineer of record should be retained to provide continuing geotechnical consulting services and construction document review, even if periodic on-call testing is contracted with PSI Construction Services.

5.1 INITIAL SITE PREPARATION CONSIDERATIONS

5.1.1 SUBGRADE PREPARATION FOR SITE WORK OUTSIDE PAVEMENT AREAS

Grade adjustments outside of the pavement areas can be made using select or general fill materials. The clean excavated onsite soils may also be reused in areas not sensitive to movement.

TABLE 5.1: SUBGRADE PREPARATION FOR NON-STRUCTURAL - GENERAL FILL

Minimum Undercut Depth	6 inches or as needed to remove roots, organic and/or deleterious materials
Exposed Subgrade Treatment	Proof-roll with rubber-tired vehicle weighing at least 20 tons. A representative of the Geotechnical Engineer should be present during proof-roll.
Proof-Rolled Pumping and Rutting Areas	Excavate to firmer materials and replace with compacted general or select fill under direction of a representative of the Geotechnical Engineer
General Fill Type	Clean material free of roots, debris and other deleterious material with a maximum particle size of 4 inches
Maximum General Fill Loose Lift Thickness	8 inches

TABLE 5.2: FILL COMPACTION RECOMMENDATIONS OUTSIDE OF PAVEMENT AREAS

Location	Material	Test Method for Density Determination	Percent Compaction	Optimum Moisture Content	Testing Frequency
Outside of Pavement Areas	General Fill	ASTM D698	≥ 95%	0 to +4%	1 per 10,000



SF;
min. 3 per
lift

5.2 MOISTURE SENSITIVE SOILS/WEATHER RELATED CONCERNS

The soils encountered are sensitive to disturbances caused by construction traffic and changes in moisture content. During wet weather periods, increases in the moisture content of the soil can cause significant reduction in the soil strength and support capabilities. In addition, soils which become wet may be slow to dry and thus significantly retard the progress of grading and compaction activities. It will, therefore, be advantageous to perform earthwork, foundation, and construction activities during dry weather.

5.3 SULFATES EVALUATION

As indicated previously, the pavement subgrade soils and imported embankment fills should be regularly screened for sulfates during construction. When soluble sulfates are detected above 500 ppm TxDOT Guidelines for Treatment of Sulfate Rich Soils shall be followed. TxDOT has identified mitigation procedures of sulfate bearing soils into three categories, Traditional Treatment, Modified Treatment, and an Alternative Treatment.

The Contractor shall follow the mitigation procedures outlined above when high sulfate concentrations (above 3000 ppm) are encountered along the alignment. The amount of mellowing time and moisture content required shall be determined during the mix design process using Tex-145-E, Part II as outlined in TxDOT Guidelines. Furthermore, the sulfate content and the treatment shall be verified in the field in accordance with project Quality Assurance Procedures and TxDOT specifications.

5.4 EXCAVATION OBSERVATIONS

The excavations should be observed by a representative of PSI prior to concrete placement to assess that the materials are consistent with the materials discussed in this report. This is especially important to identify the condition and acceptability of the exposed subgrades under the pavements. Soft or loose soil zones encountered at the bottom of the beam excavations should be removed to the level of competent soils as directed by the Geotechnical Engineer. Cavities formed as a result of excavation of soft or loose soil zones should be backfilled with compacted select fill or lean concrete.

After opening, excavations should be observed, and concrete placed as quickly as possible to avoid exposure to wetting and drying. Surface run-off water should be drained away from the excavations and not be allowed to pond. If excavations must be left open an extended period, they should be protected to reduce evaporation or entry of moisture.

5.5 DRAINAGE CONSIDERATIONS

Water should not be allowed to collect in or adjacent to excavations or on prepared subgrades within the construction area either during or after construction. Proper drainage around grade supported sidewalks and flatwork is also important to reduce potential movements. Excavated areas should be sloped toward one corner to facilitate removal of collected rainwater, groundwater, or surface runoff.



5.6 EXCAVATIONS AND TRENCHES

Excavation equipment capabilities and field conditions may vary. Geologic processes are erratic and large variations can occur in small vertical and/or lateral distances. Details regarding "means and methods" to accomplish the work (such as excavation equipment and technique selection) are the sole responsibility of the project contractor. The comments contained in this report are based on small diameter borehole observations. The performance of large excavations may differ.

The Occupational Safety and Health Administration (OSHA) Safety and Health Standards (29 CFR Part 1926, Revised October 1989), require that excavations be constructed in accordance with the current OSHA guidelines. Furthermore, the State of Texas requires that detailed plans and specifications meeting OSHA standards be prepared for trench and excavation retention systems used during construction. PSI understands that these regulations are being strictly enforced, and if they are not closely followed, the owner and the contractor could be liable for substantial penalties.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractor's "responsible person", as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and Federal safety regulations.

PSI is providing this information solely as a service to the client. PSI does not assume responsibility for construction site safety or the contractor's or other parties' compliance with local, state, and Federal safety or other regulations. A trench safety plan was outside the scope of this project.



6.0 REPORT LIMITATIONS

The recommendations submitted in this report are based on the available subsurface information obtained by PSI and design details furnished by the client for the proposed project. If there are revisions to the plans for this project, or if deviations from the subsurface conditions noted in this report are encountered during construction, PSI should be notified immediately to determine if changes in the foundation recommendations are required. If PSI is not notified of such changes, PSI will not be responsible for the impact of those changes on the project.

The Geotechnical Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional Geotechnical Engineering practices in the local area. No other warranties are implied or expressed. This report may not be copied without the expressed written permission of PSI.

After the plans and specifications are more complete, the Geotechnical Engineer should be retained and provided the opportunity to review the final design plans and specifications to check that the engineering recommendations have been properly incorporated in the design documents. At this time, it may be necessary to submit supplementary recommendations. If PSI is not retained to perform these functions, PSI will not be responsible for the impact of those conditions on the project.

This report has been prepared for the exclusive use of MPM Homes, Inc. for specific application to the proposed King's Landing Unit 9 in Corpus Christi, Texas.



APPENDIX



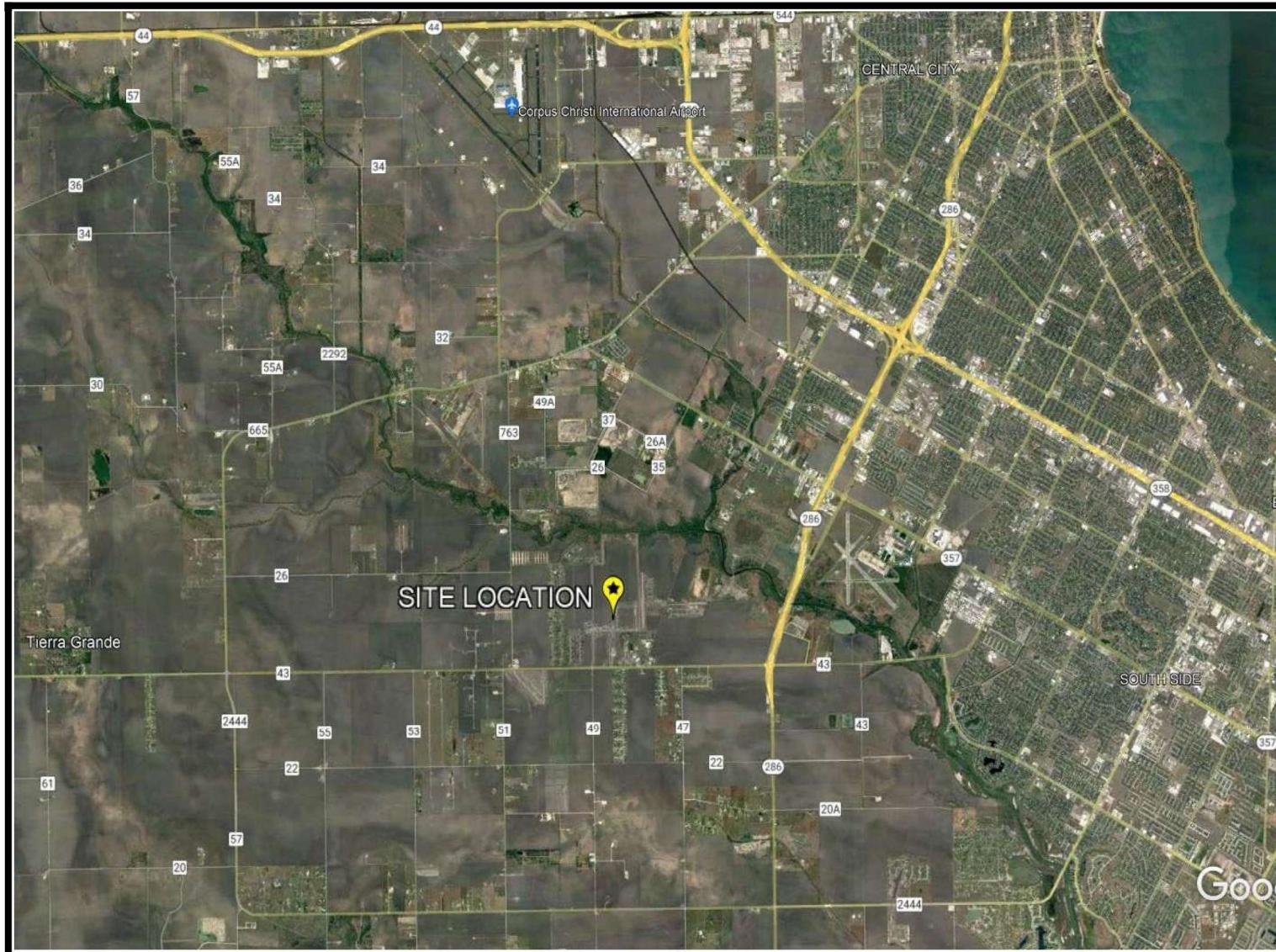


EXHIBIT 4

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.

9/8/2025

**Kings Landing Unit 11 - Cost
Oversize Lady Alexa Dr. & Castle Black Dr.**

Lady Alexa Dr

Cost of Oversized Street

ITEM	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
1	8" PCCP/ RCCP TO LIP OF GUTTER	4011	SY	\$ 95.00	\$ 381,045.00
2	12" LIME STABILIZED SUBGRADE TO 2'BC	4332	SY	\$ 45.00	\$ 194,940.00
3	12" PORTLAND CEMENT STABILIZED SUBGRADE TO 2'BC	4332	SY	\$ 35.00	\$ 151,620.00
4	EXCAVATION TO 2' BC	4332	SY	\$ 4.00	\$ 17,328.00
					\$ 744,933.00

Cost of Residential Street

ITEM	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
1	7" PCCP/RCCP TO LIP OF GUTTER	2246	SY	\$ 72.00	\$ 161,712.00
2	8" LIME STABILIZED SUBGRADE TO 2'BC	2567	SY	\$ 28.00	\$ 71,876.00
3	8" PORTLAND CEMENT STABILIZED SUBGRADE TO 2'BC	2567	SY	\$ 22.00	\$ 56,474.00
4	EXCAVATION TO 2' BC	2567	SY	\$ 4.00	\$ 10,268.00
					\$ 300,330.00

CITY PORTION EQUALS DIFFERENCE IN CONSTRUCTION COST \$ 444,603.00

Castle Black Dr

Cost of Oversized Street

ITEM	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
1	8" PCCP/ RCCP TO LIP OF GUTTER	3090	SY	\$ 95.00	\$ 293,550.00
2	12" LIME STABILIZED SUBGRADE TO 2'BC	3337	SY	\$ 45.00	\$ 150,165.00
3	12" PORTLAND CEMENT STABILIZED SUBGRADE TO 2'BC	3337	SY	\$ 35.00	\$ 116,795.00
4	EXCAVATION TO 2' BC	3337	SY	\$ 4.00	\$ 13,348.00
					\$ 573,858.00

Cost of Residential Street

ITEM	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
1	7" PCCP/RCCP TO LIP OF GUTTER	1730	SY	\$ 72.00	\$ 124,560.00
2	8" LIME STABILIZED SUBGRADE TO 2'BC	1978	SY	\$ 28.00	\$ 55,384.00
3	8" PORTLAND CEMENT STABILIZED SUBGRADE TO 2'BC	1978	SY	\$ 22.00	\$ 43,516.00
4	EXCAVATION TO 2' BC	1978	SY	\$ 4.00	\$ 7,912.00
					\$ 231,372.00

CITY PORTION EQUALS DIFFERENCE IN CONSTRUCTION COST \$ 342,486.00

TOTAL OF LADY ANDREA DIFFERENCE AND CASTLE BLACK DIFFERENCE \$ 787,089.00

11% ENGINEERING, SURVEYING, & TESTING \$ 86,579.79

7% CONTINGENCY \$ 55,096.23

2% BOND \$ 15,741.78

TOTAL AMOUNT REIMBURSABLE \$ 944,506.80

EXHIBIT 5

PERFORMANCE BOND**BOND NO.** _____

Developer as Principal Name: Mailing address (<i>principal place of business</i>):	Surety Name: Mailing address (<i>principal place of business</i>): Physical address (<i>principal place of business</i>):
City as Obligee Name: City of Corpus Christi Mailing address (<i>principal place of business</i>): City of Corpus Christi Attn: Director, Development Services Department 2406 Leopard Street Corpus Christi, Texas 78401	 Surety is a corporation organized and existing under the laws of the state of: _____ <i>By submitting this Bond, Surety affirms its authority to do business in the State of Texas and its license to execute bonds in the State of Texas.</i>
Contract Title of Agreement: For Subdivision: Award Date of the Contract: Total Project Cost/Bond Sum:	Telephone (<i>main number</i>): Telephone (<i>for notice of claim</i>):
Bond Date of Bond: <i>(Date of Bond cannot be earlier than Award Date of the Contract)</i>	Local Agent for Surety Name: Address: Telephone: E-Mail Address: <i>The address of the surety company to which any notice of claim should be sent may be obtained from the Texas Dept. of Insurance by calling the following toll-free number: 1-800-252-3439</i>

Surety and Developer, intending to be legally bound and obligated to Obligee do each cause this Performance Bond to be duly executed on its behalf by its authorized officer, agent or representative. The Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally to this bond. The condition of this obligation is such that if the Developer as Principal faithfully performs the Work required by the Contract, then this obligation shall be null and void; otherwise the obligation is to remain in full force and effect. The Contract between Obligee and Developer is incorporated by reference into this Statutory Performance Bond, pursuant to Chapter 2253 of the Texas Government Code. Provisions of the bond shall be pursuant to the terms and provisions of Texas Insurance Code 3503, Texas Government Code 2253, and all other applicable laws and regulations., and all liabilities on this bond shall be determined in accordance with the provisions of said Chapters to the same extent as if it were copied at length herein.

If Developer does not faithfully construct and complete said Work under its contract with Obligee, and Obligee invokes its contractual rights and declares Developer in default, Surety shall promptly remedy the default, and at Obligee's sole option, Surety shall:

- 1. Within a reasonable time (but not later than 30 days after Surety receives written notice of Developer's default), with written notice to Obligee, step into and assume the role, all rights and all obligations of the defaulting Developer under the Contract. Upon assumption of this role, Surety directly shall contract with a Completion Contractor hired/engaged by Surety to complete the Work. The selection of the Completion Contractor must be approved in writing by Obligee. Surety shall be responsible for any and all costs incurred, up to the Bond Sum, to complete the Work; or*
- 2. In the event Surety fails to contract with a Completion Contractor within 90 days of receipt of Obligee's written notice of Default, Obligee may, at Obligee's sole discretion, select a Completion Contractor in accordance with Texas law to complete the Work. In this event, Surety shall pay Obligee any and all costs, up to the Bond Sum, for Obligee's selected Completion Contractor to complete the Work; or*
- 3. At Obligee's sole discretion, Surety shall pay Obligee the estimated amount for Obligee to execute a Project Completion Contract with a Completion Contractor, selected by Obligee in accordance with Texas Law, solely to complete the Work. Surety shall pay Obligee any and all costs, up to the Bond Sum, for Obligee-selected Completion Contractor to complete the Work.*

The obligations of the parties under this Bond shall be performable in Nueces County, Texas. If legal action, such as civil litigation, is necessary in connection with this Bond, venue shall lie exclusively in Nueces County, Texas.

Developer as Principal Signature: _____ Name: _____ Title: _____ Email Address: _____	Surety Signature: _____ Name: _____ Title: _____ Email Address: _____ <i>(Attach Power of Attorney and place surety seal below)</i>
--	---

END OF SECTION

EXHIBIT 6

PAYMENT BOND**BOND NO.** _____

Developer as Principal Name: Mailing address (<i>principal place of business</i>):	Surety Name: Mailing address (<i>principal place of business</i>): Physical address (<i>principal place of business</i>):
City Name: City of Corpus Christi, Texas Mailing address (<i>principal place of business</i>): City of Corpus Christi Attn: Director, Development Services Department 2406 Leopard Street Corpus Christi, Texas 78401	 Surety is a corporation organized and existing under the laws of the state of: _____ <i>By submitting this Bond, Surety affirms its authority to do business in the State of Texas and its license to execute bonds in the State of Texas.</i>
Contract Title of Agreement: For Subdivision: Award Date of the Contract: Total Project Cost/Bond Sum:	Telephone (<i>main number</i>): Telephone (<i>for notice of claim</i>):
Bond Date of Bond: (<i>Date of Bond cannot be earlier than Award Date of Contract</i>)	Local Agent for Surety Name: Address: Telephone: E-Mail Address:
	 <i>The address of the surety company to which any notice of claim should be sent may be obtained from the Texas Dept. of Insurance by calling the following toll-free number: 1-800-252-3439</i>

Surety and Developer, intending to be legally bound and obligated to City, do each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent or representative. The Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally to this bond. The condition of this obligation is such that if the Developer as Principal pays all claimants providing labor or materials to him or to a Subcontractor in the prosecution of the Work required by the Contract then this obligation shall be null and void; otherwise the obligation is to remain in full force and effect. Provisions of the bond shall be pursuant to the terms and provisions of Chapter 2253 and Chapter 2269 of the Texas Government Code as amended and all liabilities on this bond shall be determined in accordance with the provisions of said Chapter to the same extent as if it were copied at length herein. This Bond is made and entered into solely for the protection of all claimants supplying labor and material in the prosecution of the Work provided for in said Contract, and all such claimants shall have a direct right of action under the Bond as provided in Chapter 2253, Texas Government Code. The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the Work to be performed under the Contract shall in any wise affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the Work to be performed under the Contract.

Venue shall lie exclusively in Nueces County, Texas for any legal action.

Developer as Principal Signature: _____ Name: _____ Title: _____ Email Address: _____	Surety Signature: _____ Name: _____ Title: _____ Email Address: _____ (Attach Power of Attorney and place surety seal below)
--	--

END OF SECTION

EXHIBIT 7



City of
Corpus
Christi

CITY OF CORPUS CHRISTI
DISCLOSURE OF INTEREST

Corpus Christi Code § 2-349, 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". See next page for Filing Requirements, Certification and Definitions.

COMPANY NAME: MPM Development, LP

STREET ADDRESS: 2301 Airline Rd Ste 209 **P.O. BOX:** 331308

CITY: Corpus Christi **STATE:** Texas **ZIP:** 78463

FIRM IS:

1. Corporation	<input type="checkbox"/>	2. Partnership	<input checked="" type="checkbox"/>
4. Association	<input type="checkbox"/>	5. Other	<input type="checkbox"/>

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 <hr/> <hr/> <hr/>	Job Title and City Department (if known) <hr/> <hr/> <hr/>
----------------------------------	--

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 <hr/> <hr/> <hr/>	Title <hr/> <hr/> <hr/>
----------------------------------	-----------------------------------

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 <u>Mossa (Moses) Mostaghaci</u> <hr/> <hr/> <hr/>	Board, Commission or Committee <u>Capital Improvement Advisory Committee</u> <hr/> <hr/> <hr/>
--	---

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 <hr/> <hr/> <hr/>	Consultant <hr/> <hr/> <hr/>
----------------------------------	--

FILING REQUIREMENTS

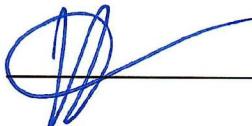
If a person who requests official action on a matter knows that the requested action will confer an economic benefit on any City official or employee that is distinguishable from the effect that the action will have on members of the public in general or a substantial segment thereof, you shall disclose that fact in a signed writing to the City official, employee or body that has been requested to act in the matter, unless the interest of the City official or employee in the matter is apparent. The disclosure shall also be made in a signed writing filed with the City Secretary. [Ethics Ordinance Section 2-349 (d)].

CERTIFICATION

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: Mossa (Moses) Mostaghasi Title: General Partner

Signature of
Certifying Person:



Date:

DEFINITIONS

- a. "Board member." A member of any board, commission, or committee of the city, including the board of any corporation created by the city.
- b. "Economic benefit". An action that is likely to affect an economic interest if it is likely to have an effect on that interest that is distinguishable from its effect on members of the public in general or a substantial segment thereof.
- c. "Employee." Any person employed by the city, whether under civil service or not, including part-time employees and employees of any corporation created by the city.
- d. "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.
- e. "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.
- f. "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 holdings or control established through voting trusts, proxies, or special terms of venture or partnership agreements.
- g. "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.