PARTICIPATION AGREEMENT

For the Subdivision of King's Landing Unit 5 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 5 ("Unit 5");
- **WHEREAS,** as a condition of the Plat for Unit 5, the Developer is required to expand, extend, and construct Lady Alexa Drive (formerly Iron Throne Drive) and Natasha Lane 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 Natasha Lane 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. <u>RECITALS</u>. 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. <u>ROLLER COMPACTED CONCRETE PAVEMENT.</u> 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 5 per the terms of the Pilot Program.

- (a) Developer agrees to construct all roadway improvements within Kings Landing Subdivision Unit 5 with roller compacted concrete pavement (RCC pavement), except those portions of the roadways that are cul-de-sacs, in which case traditional rebarreinforced 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 5, 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. <u>TERM</u>. 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 5, the Developer must complete the Lady Alexa Drive (formerly Iron Throne Drive) and Natasha Lane 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. <u>DEVELOPER PARTICIPATION</u>. Subject to the terms of this Agreement, the Developer will construct Lady Alexa Drive (formerly Iron Throne Drive) and Lady Natasha as 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 Natasha Lane. Further, subject to the limitations set forth below, the City shall pay for a portion of the construction costs of Lady Alexa Drive (formerly Iron Throne Drive) up to \$846,528.72.

Section 5. <u>CITY PARTICIPATION</u>. 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) shall not exceed \$846,528.72.

Section 6. <u>REIMBURSEMENT</u>. The Developer shall be responsible for the entire up-front expenses of the Roadway Improvements for Lady Alexa Drive (formerly Iron Throne Drive) and Natasha Lane. The City shall reimburse the Developer upon completion of all Roadway Improvements within Kings Landing Unit 5 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), 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 Natasha Lane to ensure the completion of the project.

Section 8. MAINTENANCE BONDS.

- (a) For King's Landing Unit 5, the Developer shall provide a Maintenance Bond with a term of 7 years following completion of the Roadway Improvements within King's Landing Unit 5. The maintenance bond will be renewable biennially for the first six years and annual for the last year. The surety must give 60 days' notice of their intention not to renew the bond and failure to renew the bond is not a basis for claim on the expiring instrument. If the surety declines to renew the bond, the Developer must provide an acceptable replacement maintenance bond, irrevocable letter of credit, or cash deposit before the expiration of the maintenance bond. It is a breach of this agreement if Developer fails to provide a maintenance bond, irrevocable letter of credit, or cash deposit for the full 7-year term. The maintenance bonds, irrevocable letter of credit, or cash deposit will cover 100 percent of the replacement cost for Lady Alexa Drive (formerly Iron Throne Drive) and Roadway Improvements within the King's Landing Unit 5 with traditional rebar-reinforced portland cement concrete pavement. In addition, before any reimbursement to the Developer for the construction of Lady Alexa Drive (formerly Iron Throne Drive), the developer shall submit the maintenance bond for King's Landing Unit 5 and associated power of attorney to the City Engineer in forms approved by the City Attorney, said form attached hereto and labeled as **Exhibit 7**.
- (b) If a letter of credit is utilized as financial security under this Agreement, the content of the irrevocable letter of credit must be pre-approved by the City's Chief Financial Officer and City Attorney, be issued by a banking institution having a local branch office within the State of Texas, be valid for a period of 12 months from the date of issuance or longer. The Developer must ensure that the letter of credit is kept valid at all times during the maintenance period. The letter of credit must be renewed by the Developer before expiration, and proof of such renewal must be received by the City at least thirty days prior to the expiration of the then current letter of credit. If timely renewal is not received by the City, or cash in lieu thereof is not deposited as financial security with the City, the City may, after ten days prior written notice to the Developer, call (redeem) the letter of credit for failure to timely renew. If the letter of credit is called for failure to timely renew, the funds will be held in an account as if cash had been posted by the Developer for this Agreement in lieu of the letter of credit. The City shall not be liable for interest on any letter of credit so called nor shall the City be liable to the Developer for the accrual or payment of interest on any type of financial security posted by the Developer pursuant to this Agreement.
- (c) If financial security is provided and the Developer fails to maintain and repair streets as stated in this Agreement, the Developer agrees that the City, after notice in writing to the Developer, may transfer the cash funds received or call (redeem) the letter of credit and transfer the funds (if the financial security provided was in the form of a letter of credit) to the appropriate City account. If the maintenance and repair cost exceed the irrevocable letter of credit or cash deposit, the Developer shall reimburse the City for

any additional costs related to maintenance and repair within 30 days after the City invoices.

Section 9. 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 5 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 60 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 ½-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 ½-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 10. 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 60 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 ¼-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 off 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 11. <u>WARRANTY</u>. 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 60 days after notice, correct such defects and/or faults to the satisfaction of the City.

Section 12. <u>INSURANCE</u>. Insurance requirements are as stated in **Exhibit 8**, the content incorporated by reference into this Agreement as if fully set out here in its entirety. Before performance can begin under this Agreement, the Developer must deliver a certificate of insurance ("COI"), as proof of the required insurance coverages, to the City's Risk Manager and Development Services Department. Additionally, the COI must state that the City will be given at least 30 days' advance written notice of cancellation, material change in coverage, or intent not to renew any of the policies. The City must be named as an additional insured. The City Attorney must be given copies of all insurance policies within 10 days of the written request.

Section 13. <u>CONSTRUCTION</u>. 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 14. 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 60 days of that plan unless the Developer and its approved contractor are delayed by force majeure or other events beyond its control.

Section 15. <u>INDEMNIFICATION</u>.

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 16. <u>DEFAULT</u>. 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, 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 17. 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 18. 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 19. 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

If to the Developer: MPM Development, L.P.

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

Attn: Moses Mostaghasi PO Box 331308 Corpus Christi, Tx 78401

with a copy to:

City of Corpus Christi
Attn: City Engineer
1201 Leopard Street / 78401
P. O. Box 9277 / 78469-9277
Corpus Christi, Texas

- (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 20. <u>PROJECT CONTRACTS</u>. 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 21. <u>DISCLOSURE OF INTEREST</u>. 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 9**.

Section 22. <u>CERTIFICATE OF INTERESTED PARTIES</u>. 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;
 - 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 23. <u>CONFLICT OF INTEREST</u>. 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 24. <u>SEVERABILITY</u>. 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 25. <u>COOPERATION</u>. The Parties agree to cooperate at all times in good faith to effectuate the purposes and intent of this Agreement.

Section 26. <u>ENTIRE AGREEMENT</u>. 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 27. <u>AMENDMENTS.</u> Any amendment of this Agreement must be in writing and shall be effective if signed by the authorized representatives of both Parties.

Section 28. <u>APPLICABLE LAW; VENUE</u>. 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 29. <u>AUTHORITY</u>. Each Party represents and warrants that it has the full right, power, and authority to execute this Agreement.

Section 30. <u>INDEPENDENT CONTRACTOR.</u> 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 31. <u>NON-APPROPRIATION</u>. 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 32. <u>WAIVER OF TRIAL BY JURY</u>. 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 33. <u>ATTORNEY FEES.</u> 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 34. <u>NO WAIVER</u>. 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 35. 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 5

Exhibit 2 - Public Improvement Plans - King Landing Unit 5

Exhibit 3 – Geotechnical Report (Specific to Kings Landing Unit 5)

Exhibit 4 – Cost Estimate

Exhibit 5 – Performance Bond

Exhibit 6 – Payment Bond

Exhibit 7 – Maintenance Bond

Exhibit 8 – Insurance

Exhibit 9 – 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 Dev	velopment, LP
Moses Mostaghasi General Partner	Date
STATE OF TEXAS	§
COUNTY OF NUECES	§ § §
	owledged before me on, 2024, by Mosestner of MPM Development, LP, on behalf of said company.
	N. C. D. Li'll Circle
	Notary Public's Signature

EXECUTED IN ONE ORIGINAL this _	day of	, 20
ATTEST:	CITY OF CORPUS C	HRISTI
Rebecca Huerta City Secretary	Albert J. Raymond III Director of Developm	
APPROVED AS TO LEGAL FORM:		
Buck Brice (Date Deputy City Attorney For City Attorney	e)	

EXHIBIT 1

STATE OF TEXAS §	
COUNTY OF NUECES §	
WE, MPM DEVELOPMENT, LP, HEREBY CERTIFY THE EMBRACED WITHIN THE BOUNDARIES OF THE FOR OF, THAT WE HAVE HAS SHOWN, THAT STREETS AND EASEMENTS AS SOR IF NOT PREVIOUSLY DEDICATED, ARE HEREBY	EGOING PLAT, SUBJECT TO A LIEN IN FAVOR HAD SAID LAND SURVEYED AND SUBDIVIDED SHOWN HAVE BEEN HERETOFORE DEDICATED,
AND THAT THIS PLAT WAS MADE FOR THE PURPO	DSES OF DESCRIPTION AND DEDICATION.
THIS THE DAY OF	20
	MOSSA MOSTAGHASI, GENERAL PARTNER
STATE OF TEXAS §	
COUNTY OF NUECES §	
THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE MPARTNER OF MPM DEVELOPMENT, LP.	ME BY MOSSA MOSTAGHASI, GENERAL
THIS THE DAY OF	
	NOTARY PUBLIC, IN AND FOR THE STATE OF TEXAS
STATE OF TEXAS §	
COUNTY OF NUECES §	
I, NIXON M. WELSH, REGISTERED PROFESSIONAL ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRE	OING PLAT WAS PREPARED FROM A
ENGINEERING, HEREBY CERTIFY THAT THE FOREG	OING PLAT WAS PREPARED FROM A ECTION.
ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRE	OING PLAT WAS PREPARED FROM A ECTION 20
ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRE	OING PLAT WAS PREPARED FROM A ECTION.
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ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRE	OING PLAT WAS PREPARED FROM A ECTION 20
ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRE	OING PLAT WAS PREPARED FROM A ECTION 20
ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRECTOR THIS THE DAY OF	OING PLAT WAS PREPARED FROM A ECTION 20
ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRECT THIS THE DAY OF STATE OF TEXAS COUNTY OF NUECES \$	OING PLAT WAS PREPARED FROM A ECTION.
ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRECTOR THIS THE DAY OF	REBY CERTIFY THAT WE ARE THE HOLDERS OF DUNDARIES OF THE FOREGOING MAP AND THAT
ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRE THIS THE DAY OF STATE OF TEXAS COUNTY OF NUECES WE, (NAME), HERE A LIEN ON THE LAND EMBRACED WITHIN THE BUY WE APPROVE THE SUBDIVISION AND DEDICATION	REBY CERTIFY THAT WE ARE THE HOLDERS OF DUNDARIES OF THE FOREGOING MAP AND THAT
ENGINEERING, HEREBY CERTIFY THAT THE FOREG SURVEY MADE ON THE GROUND UNDER MY DIRE THIS THE DAY OF STATE OF TEXAS COUNTY OF NUECES WE, (NAME), HERE A LIEN ON THE LAND EMBRACED WITHIN THE BUY WE APPROVE THE SUBDIVISION AND DEDICATION	REBY CERTIFY THAT WE ARE THE HOLDERS OF DUNDARIES OF THE FOREGOING MAP AND THAT FOR THE PURPOSES AND CONSIDERATIONS
STATE OF TEXAS \$ COUNTY OF NUECES \$ WE,(NAME), HER A LIEN ON THE LAND EMBRACED WITHIN THE BY WE APPROVE THE SUBDIVISION AND DEDICATION THEREIN EXPRESSED.	REBY CERTIFY THAT WE ARE THE HOLDERS OF DUNDARIES OF THE FOREGOING MAP AND THAT FOR THE PURPOSES AND CONSIDERATIONS BY:
STATE OF TEXAS \$ COUNTY OF NUECES \$ WE,	REBY CERTIFY THAT WE ARE THE HOLDERS OF DUNDARIES OF THE FOREGOING MAP AND THAT FOR THE PURPOSES AND CONSIDERATIONS BY:
STATE OF TEXAS \$ COUNTY OF NUECES \$ WE APPROVE THE SUBDIVISION AND DEDICATION THEREIN EXPRESSED.	OING PLAT WAS PREPARED FROM A ECTION.
STATE OF TEXAS \$ COUNTY OF NUECES \$ WE,	OING PLAT WAS PREPARED FROM A ECTION.
STATE OF TEXAS \$ COUNTY OF NUECES \$ WE,	OING PLAT WAS PREPARED FROM A ECTION.

NOTARY PUBLIC, IN AND FOR THE STATE OF TEXAS

PLAT OF

KING'S LANDING UNIT 5

A 27.311 ACRE TRACT OF LAND, MORE OR LESS, A PORTION OF A 293.041 ACRE TRACT, DOC.

NO. 2019035726, D.R. AND A PORTION OF A 130.570 ACRE TRACT, DOC. NO. 2019051482,

O.R., SAID 27.311 ACRE TRACT BEING A PORTION OF SURVEY 135 ABSTRACT 581, CERTIFICATE
29 AND SURVEY 139, ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS NAMED CUADRILLA

IRRIGATION COMPANY, NUECES CO., TX

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: 07/07/23 COMP. NO.: PLAT-SH1 JOB NO.: 23007 SCALE: 1" = 50' PLOT SCALE: SAME SHEET 1 OF 3

LEGEND:

DE DRAINAGE EASEMENT

D.R. DEED RECORDS, NUECES CO., TX

M.R. MAP RECORDS, NUECES CO., TX

O.R. OFFICIAL RECORDS, NUECES CO., TX

UE UTILITY EASEMENT

STATE OF TEXAS \$

COUNTY OF NUECES \$

THE FINAL PLAT OF THE HEREIN DESCRIBED PROPERTY WAS APPROVED BY THE DEPARTMENT OF DEVELOPMENT SERVICES OF THE CITY OF CORPUS CHRISTI, TEXAS

BRIA A. WHITMIRE, P.E., CFM, CPM
DEVELOPMENT SERVICES ENGINEER

DATE

STATE OF TEXAS

COUNTY OF NUECES

THE FINAL PLAT OF THE HEREIN DESCRIBED PROPERTY WAS APPROVED ON BEHALF OF THE CITY OF CORPUS CHRISTI, TEXAS BY THE PLANNING COMMISSION.

THIS THE _____ DAY OF ________, 20______.

KAMRAN ZARGHOUNI AL RAYMOND, III, AIA

SECRETARY

STATE OF TEXAS

COUNTY OF NUECES

I, KARA SANDS, CLERK OF THE COUNTY COURT IN AND FOR SAID COUNTY,

DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT DATED THE ______

DAY OF ______, 20_____ WITH ITS CERTIFICATE OF

AUTHENTICATION, WAS FILED FOR RECORD IN MY OFFICE THE _______ DAY

OF ______, 20_____ AT ______ O'CLOCK ______, M.,

AND DULY RECORDED THE ______ DAY OF ______, 20_____ AT

______ O'CLOCK ______, M. IN THE MAP RECORDS OF SAID COUNTY IN

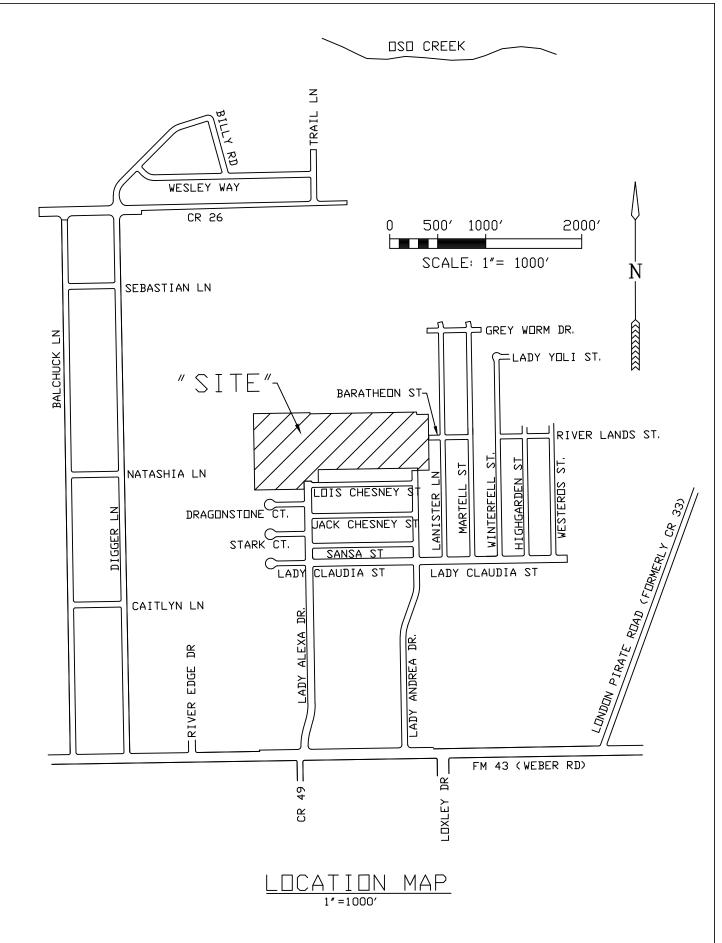
VOLUME __PAGE ____INSTRUMENT NUMBER _______, WITNESS

MY HAND AND SEAL OF THE COUNTY COURT IN AND FOR SAID COUNTY AT
OFFICE IN CORPUS CHRISTI, NUECES COUNTY, TEXAS, THE DAY AND YEAR

BY: DEPUTY

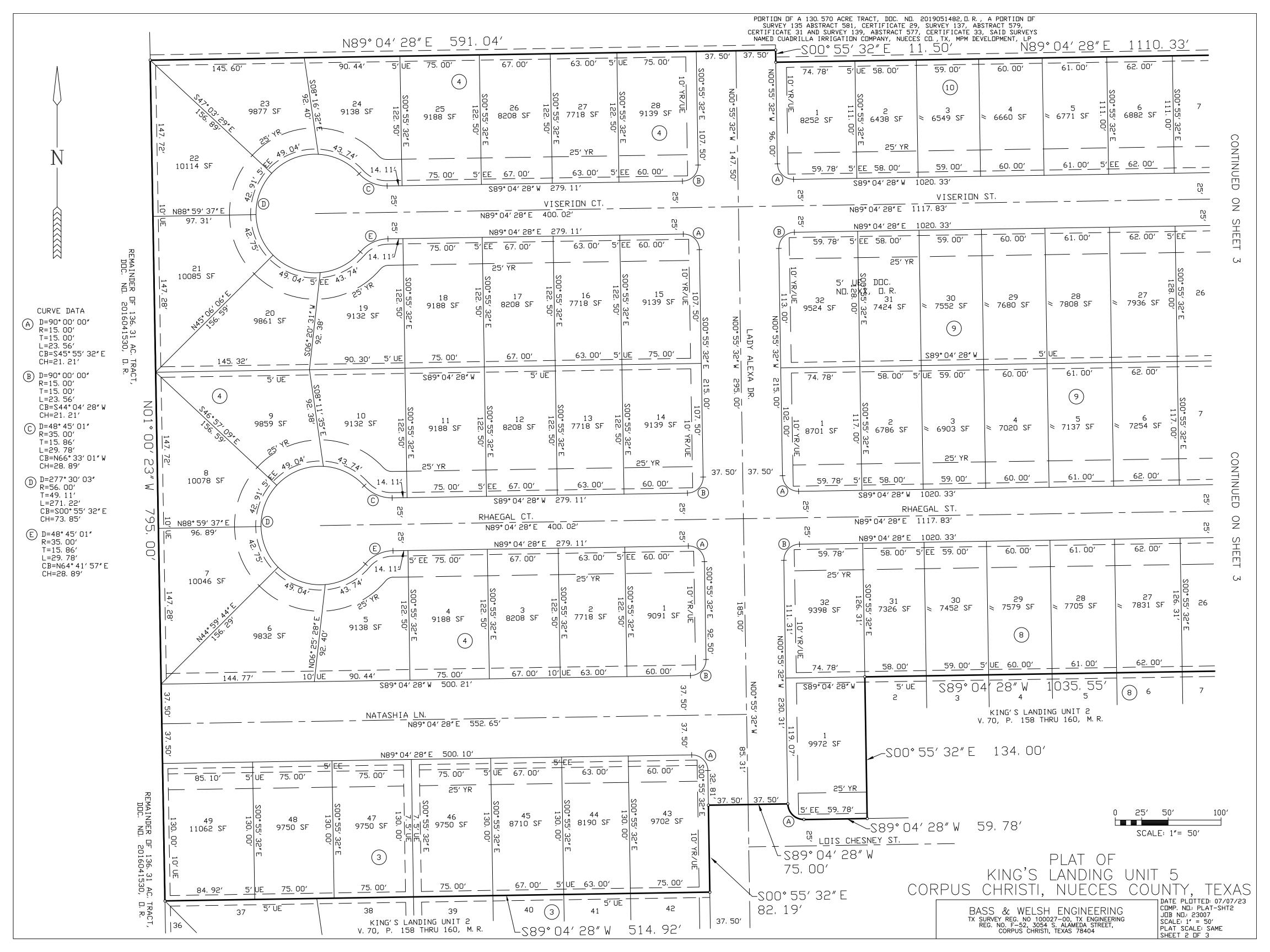
CHAIRMAN

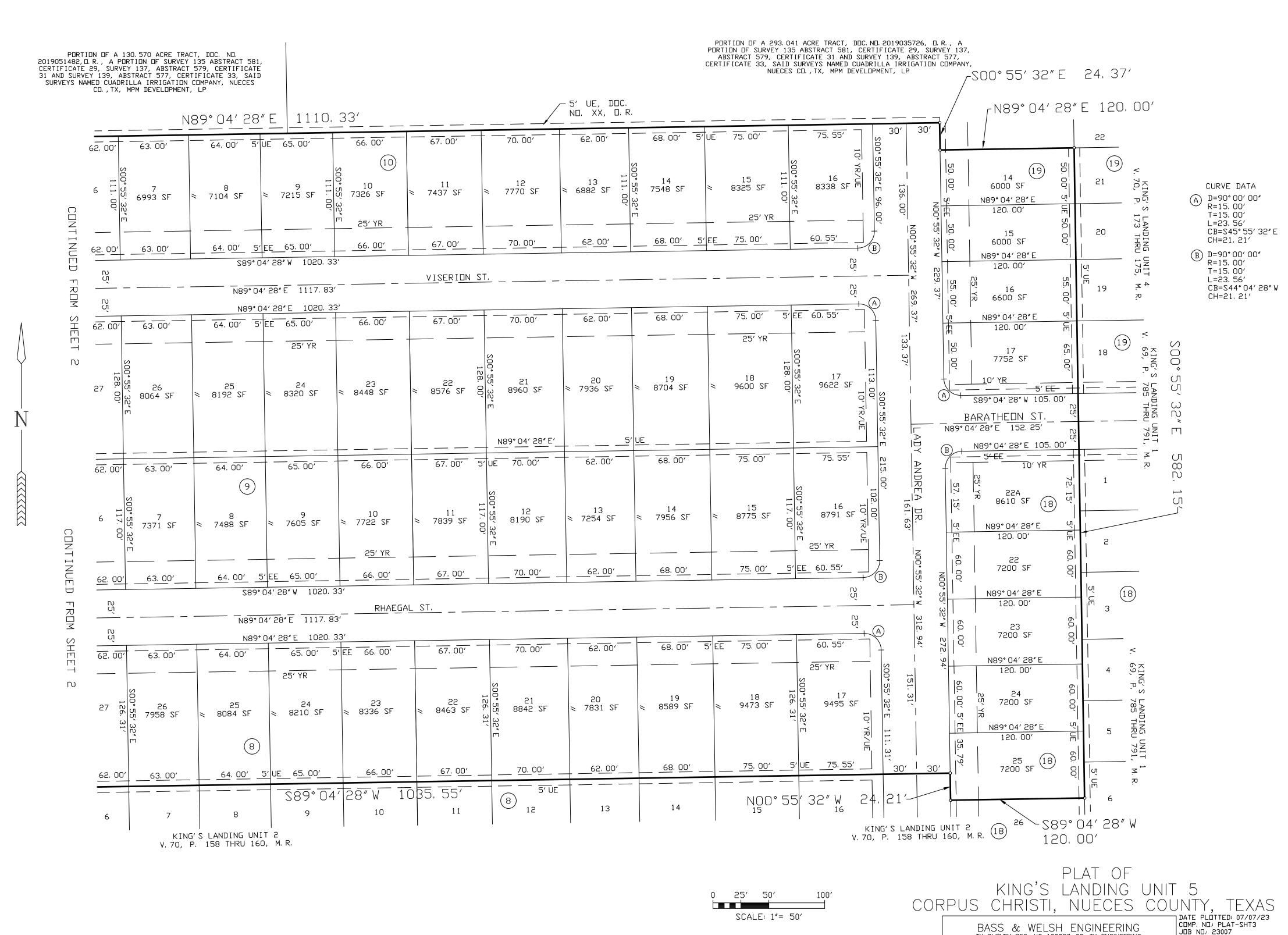
KARA SANDS, CLERK COUNTY COURT NUECES COUNTY, TEXAS



NOTES

- SET 5/8" IRON RODS WHERE POSSIBLE AT ALL LOT CORNERS; WHERE NOT POSSIBLE TO SET 5/8" IRON RODS, SET NAILS OR CHISEL MARKS AT LOT CORNERS IF POSSIBLE. ALL IRON RODS SET CONTAIN PLASTIC CAPS LABELED BASS AND WELSH ENGINEERING.
- 2. THE RECEIVING WATER FOR THE STORM WATER RUNOFF FROM THIS PROPERTY IS THE OSO CREEK. THE TCEQ HAS NOT CLASSIFIED THE AQUATIC LIFE USE FOR THE OSO CREEK, BUT IT IS RECOGNIZED AS AN ENVIRONMENTALLY SENSITIVE AREA. THE OSO CREEK FLOWS DIRECTLY INTO THE OSO BAY. THE TCEQ HAS CLASSIFIED THE AQUATIC LIFE USE FOR THE OSO BAY AS "EXCEPTIONAL" AND "OYSTER WATERS" AND CATEGORIZED THE RECEIVING WATER AS "CONTACT RECREATION" USE.
- 3. THE BASIS OF BEARINGS IS THE STATE OF TEXAS LAMBERT GRID, SOUTH ZONE, NAD 1983.
- 4. THE ENTIRE SUBJECT SITE IS IN FEMA ZONE X, OTHER AREAS, MAP NO. 48355C0505G (10/13/2022).
- 5. LEGAL DESCRIPTION: A 27.311 ACRE TRACT OF LAND, MORE OR LESS, A PORTION OF A 293.041 ACRE TRACT, DOC. NO. 2019035726, O.R. AND A PORTION OF A 130.570 ACRE TRACT, DOC. NO. 2019051482, O.R., SAID 27.311 ACRE TRACT BEING A PORTION OF SURVEY 135 ABSTRACT 581, CERTIFICATE 29 AND SURVEY 139, ABSTRACT 577, CERTIFICATE 33, SAID SURVEYS NAMED CUADRILLA IRRIGATION COMPANY, NUECES CO., TX
- 6. THE TOTAL PLATTED AREA CONTAINS 27.311 ACRES OF LAND INCLUDING STREET DEDICATIONS.
- 7. THE YARD REQUIREMENT, AS DEPICTED, IS A REQUIREMENT OF THE UNIFIED DEVELOPMENT CODE AND IS SUBJECT TO CHANGE AS THE ZONING MAY CHANGE.
- 5. ALL DRIVEWAYS TO RESIDENTIAL AND COLLECTOR PUBLIC STREETS WITHIN THE SUBDIVISION SHALL CONFORM TO ACCESS MANAGEMENT STANDARDS OUTLINED IN ARTICLE 7 OF THE UDC.





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

SCALE: 1'' = 50'PLAT SCALE: SAME SHEET 3 DF 3

EXHIBIT 2

CORPUS CHRISTI, NUECES COUNTY, TEXAS PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 5,

THE TOLLOWING OTF OF CORPS, CHIRST STAGAGG SPOTSFLOWING OF WHICH CAN BE TOLLOWING OTF OF CORPS, CHIRST STAGAGGG SPOTSFLOWING OF WHICH CAN BE TOLLOWING PROPERTY OF THESE SPOTSFLOWING PROPERTY OF THESE SPOTSFLOWING PROPERTY OF THESE SPOTSFLOWING PROPERTY OF THESE SPOTSFLOWING PROPERTY OF THE SPOTSFLOWING PR

CONTRACTOR SAME AND THE TO SEE A WEST INDIFFERENCE OF SAME AND THE TO SAME AN	REINFORCING STEEL	
N 50,000	032020	

CONCRETE STRUCTURES FRAMES, GRATES, RINGS AND COVERS

- THE OUTER 2" OF ALL STREET PAYING AND WALKS ARE SHOWN POCHED (SHACED), EXISTING CAG PAYING SHOWN WITH DASHED LINES (TYPICAL). PAVING, GRADING AND DRAINAGE NOTES
- PRIOR TO ANY DESTINOUS, ALL TREES, MEDITADON, CROANC MATERIA, MOL ANY DELIFICIOS SUBSTANCES LA GENERACIO TONNE POR PROSENTE CONTROL OF THE SET & DAMENT AND LARGED ONDEX OF PROPRESSED STREET PANNES SHALL SELLY THAN UNAMBRED. ATTER RELAVAL, OF ALL WISCHMOST, PROPRESSED STREET PANNES SHALL SELLY AND THAN UNAMBRED. ATTER RELAVAL, OF ALL WISCHMOST PUBLIMIENT CLI AND TILL DEPUBLISS. ON LOT GOLDAN AND LEMINORS ASSOCIATED WIN STEELS.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENCTH OF 4,000 PSI AT 28 DAYS FOR PICOP, ROCH WALKS, ALL STREIL REMPORCING SHALL BE GRADE 60 (60,000 PSI YELD STRENCTH) IN ACCORDANCE WITH ASIN A 615.
- REINFORCED CONCRETE STORM SEMER PIPE SHALL BE CLASS III, STANDARD STRENGTH OR CONTRACTOR MAY SUBSTITUTE HOPP PIPE THROUGHOUT PROJECT, STORM SEMER MANHOLES SHALL BE PRE-CAST CONCRETE.
- INTERPOLATE BETWEEN GRADES AS SHOWN TO DETERMINE A PROPOSED GRADE AT ANY PARY UNEARLY POINT.
- CURB ALDAMONT STALL PADALID, ADACENT ROTH-OF-WAY UNES DOCETY WHERE INSUCATED OTHERWISE.
 ALL CURBS STANDES AS TESTED INTERSECUED STALL BE 27 REC. DOCETY FOR THE RETURNS AT
 WAIS SIZE OF UVAN ALXA DRIVE WHICH SHALL BE 27 REC.
- THE THE PROPERTY OF HAMPS AT METER INTERECTIONS AND AS DECIMINE AND ADDRESSION. IT IS THE PROPERTY OF THE PROP
 - CONTRACTOR SHALL MET ALL CONTRAMENTAL ONE-CALL AND OTHER REGULATIONS WITH REGARD TO EXISTING UNDERGROUND FACLIFIES AND PRELIMES.
 - ADA CURB RAMPS. THE CITY NO LONGER ALONS THE PAVER OPTION AT CURB RAMPS. THE CONTRACTOR SHALL INSTALL COMPOSITE TACTLE WIRRING PAMELS AT ALL AGA CURB RAMPS.

ALL WATER SERVICE LINES SHALL BE 1" DAMETER FOR SHALLE AND DOLBLE WATER SERVICES.
ALL PUBLIC WATER LINE CONSTRUCTION AND WITEMALS SHALL BE IN ACCORDINGNE TO CORREST OF CORREST DESCRIPTIONER ESSIVE WANNEL FRE IMPORTS WILL BE LOCKED DIRTO WATER CANNES FOR DIS-

WATER USE 3 GPU/LOT X 109 LOTS X 60 MIN/HS X 24 HR/DAY = 0.47 MGD. UNE LOCATOR TAPE AND TRACER WIRE ARE TO BE INSTALLED WITH PROPOSED W AUGUSAN—B.

CONTRACTOR SHALL VERIEY ADEQUATE JOINT RESTRAIN TO ANY WATER CONSTRUCTION.

ALL WATER WANS 6" AND LANGER SHALL BE DRIB PAC WITH DUCTILE IRON MECHANICAL JOIN PITTINGS AND SHALL BE BEDDED IN (ENCASED IN) SAND TO 6" ALL AROUND PIPE.

- SET BIOS OF SERVICE LINES AID LIOT PROVINGE UNITSS SHOWN OFFERWISE, SANTHAPF SEWER STATIONING IS AUSSEED ACKNOT HE CONTROL USE OF PROPOSED STREETS, EXCENNO SS LINES ARE SHOWN LONFYDONED, PROVIDED SEVEN AND SHOWN CONTINUIDE/HEAVY
- ALL GAWT STAKE PETS 8 THRU 16 YALL BE POT, ER 25 AND SULL BE ERDED IN SAND WITH PI LESS THAN 10 TO 8" SELON AND 6" TO SIZES OF PET (I'ULL HEIGHT OF PET). IN ACCIREDANCE WITH CITY STAMBARD SPECIFICATIONS, BED 4" AND SAMLER PIETS IN EARTH FROM THE EXCANATION.
 - NO SEAMATE PAY FOR ANY DE-WATERNG OR SPECIAL EMBENMENT REQUIRED FOR 6", 10" & 12" SAMITAR SEWER FIPES AND MANHOLES.
 - THE WORDS SANTHRY SENER SHULL MEAN WASTE WATER AND VOE VERSA, WW USE 109 LOTS X 3.5 PERS/LOT X 80 GPGPB X PF 4 = 0.12 MGD.

EGEND - EXISTING FACILITIES AND APPURTENANCES

LEGEND - PROPOSED FACILITIES AND APPURTENANCES

THE SEC A THE PROPERTY OF THE SECOND SECOND

WARTELL ST.

WINTERFELL ST.

WINTERFELL ST.

WINTERFELL ST.

DSO CREEK

- ASPIALT PARABETT
 ELOCK NO. 1

 of R/C CLRB AND GUTTER
 4' R/C WALK

 EDG E-PARABETT
 WAF PECOROS

 18" REMICROED CONCRETE PI RIGHT-OF-WAY LINE RIGHT-OF-WAY LINE
- 8" SANTARY SEWER LI UTILITY EAGEMENT 8" WATER LINE YAPO REQUIREMENT

8 8 † (§) + d ≥ 8

SACK OF CURB TO BACK OF CURB CONCRETE WALK

DOUBLE WATER SERVICE (1" PIPE, FITTINGS, CORPORATION STOP AND ANGLE METER VALVES) SEDIMENTATION SCREENING FENCE ALSO KNOWN AS SILT FENCE OR TEMPORARY SEDIMENT CONTROL FENCE SINGLE WATER SERVICE (1" PIPE, FITTINGS, STOP AND ANGLE METER VALVE) ROLLER COMPACTED CONCRETE F REINFORCED CONCRETE PIPE ROLLER COMPACTED CONCRETE SANTARY SEWER MANHOLE WATER VALVE SYMBOL SANTARY SEMER TOP OF CURB GRADE BREAK (CHANGE OF DRAINAGE DIRECTION OR SLOPE) DEEP CUT SERVICE CONNECTION (SAN. SEWER) DRAWAGE DIRECTION OR DMENSION ARROW FINISHED GROUND ELEVATION POINT OF CURMITURE (BECKNING OF CURVE) PORTLAND CEMENT CONCRETE PAMNG, CAST IN PLACE, STEEL REINFORCED, 7 THCX TOW LINE OR INVERT ELEVATION THISHED WALK ELEVATION AULTIPLE BOX CULVERT (R/C)

НОРР

PAVING, GRADING AND DRAINAGE PLAN & PROFILE, SWOMP

COVER SHEET AND MISCELLANEOUS INFORMATION

DCATION MAP

PAVING, GRADING AND DRAINAGE PLAN AND PROFILE

SHEET 3

SHEET 2 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 9

SANITARY SEWER AND WATER PLAN AND PROFILE SANITARY SEWER AND WATER PLAN AND PROFILE

CALL BEFORE YOU DIG!

A GVESSII 40 HOUS MONE REMEST TOU DO.
ARLI, OR BLOST STOP AND OLD
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CONTRACTOR SHALL REPENSE, A TRAFFE CONTRACTAL AND BARROGURD FAMA AND SUBART TO THE CONTRACT WHITE RESIDENCE AND SHALL DE THE RESIDENCE AND SHALL DO IN WIRST UNIT HE WAS RECEVED WHITE APPROVAL FIRST AND SHALL FIRST APPROVAL SHALL FIRST CONTRACT AND BERROCUROR SHALL BE ACCONTRISED IN ACCORDANCE WITH SAD PLANT. TALL TRAFFIC CONTRACT AND BERROCUROR SHALL BE ACCONTRISED IN ACCORDANCE WITH SAD PLANT.

R.O.W. FERMITS ARE REQUIRED PRICE TO STARTING WORK IN ANY PUBLIC STREET RIGHT-OF-WAY. THE "CONTRICTOR SHALL CONTROL TO PRESENCE TO DETERMINE ALL APPLICABLE REQUIREDRING FORMS, TRAFFIC CONTROL PLAN, FEES, FEE,.)

CONTINUOUS/HENY IN PLAK AND DOTTED/HENY IN PROPOSED WATER LINES ARE SHOWN CONTINUOUS/HENY IN PLAK AND DOTTED/HENY IN PROFILE.

PROVIDE CAST IRON BOXES AND PAC PIPE EXTENSIONS WITH CONCRETE AT GATE VALVES PURSUA TO CITY STANDARD WATER DETAILS.

2" TEMPORARY WATER LINES SHALL BE SCHEDULE 40 PVC PAY FOR 2" HTTINGS NOR 2" X 6" CONNECTOR STRAPS.

CONSTRUCT WATER RISERS AT END CAPS ON PIPES AND 2. BLOW-OFF VALUES FOR FILLING TESTING PURPOSES PURSUANT TO DETAILS AS SHOWN IN CITY STANDARD WATER DETAILS.

CONSTRUCT WATER SERVICE LINES AND CO SHOWN IN CITY STANDARD WATER DETAILS.

SOLVENT WELDED JOINTS, NO SEPARATE

STORM WATER POLLUTION PREVENTION PLAN, SHEET 2 OF 3 STORM WATER POLLUTION PREVENTION PLAN, SHEET 3 OF 3

STORM WATER POLLUTION PREVENTION PLAN, SHEET 1 OF 3

SHEET 11

PCCP AND RCCP PAVEMENT DETAILS AND SIDEWALK DETAILS

SHEET 8 SHEET 10 SHEET 12 SHEET 13 SHEET 14 SHEET 15 SHEET 16 SHEET 17

PCCP AND RCCP JOINTING PLAN PCCP AND RCCP JOINTING PLAN

STREET SIGN AND LIGHT POLE PLAN, ESTIMATE SUMMARY AND BARRICADE DETAILS STREET SIGN AND LIGHT POLE PLAN AND BASE MAPS TXDOT SINGLE BOX CULVERTS, CAST IN PLACE, SCC-8, 1 0F 2 TXDOT SINGLE BOX CULVERTS, CAST IN PLACE, SCC-8, 2 OF 2

CITY STORM WATER STANDARD DETAILS CITY WASTE WATER STANDARD DETAILS

CITY WATER STANDARD DETAILS

CITY CURB RAMP STANDARDS

SHEET 20 SHEET 21 SHEET 19

SHEET 18

TXDOT AND CITY SIGN AND PAVEMENT MARKING REQUIREMENTS AND DETAILS

- GORDAL TO A PRICIONAL ASSERBATI AND/OR BENELISSIND'Y ARE BENG REQUESTED BY THE DEPELOPER/BIGNERS. THEN PRICH TO STAPT OF CONSTRUCTION, CITY COUNCIL MUST APPROVE SUD AGREDICAT. HIS WORK WILL EE INSPECTED BY THE CITY'S CONSTRUCTON NOPECTION DIVISION, CONSTRUCTION INSPECTION SHOULD BE CONTACTED AT LEAST 72 HOUR TO START OF CONSTRUCTION. S (361) 826-3240.
 - ceptioper/depeloper's acent shall ensure that best wavefairet practices to minaze eroson and sedmentation are being used and that any and all ticeo permits where needed have been obtained.
 - EDRIGORY/DEVELOREN'S AGENT SHALL ENSIRE THAT TRAFFIC CONTROL MEASURES ARE INPLEMENTED AS NEEDED. ANY WORK IN RIGHT-OF-MAY REQUIRES A PEGALIF FROM THE CITY'S TRAFFIC ENGINEERING DANSION.
- ALL PUBLIC UMPROYADENTS SHYLL BE WARRANTED BY THE DEFACEOPER PER UNPER DEFACEOPUENT CODE (UDC) SECTION 8.1.8 FROM THE DATE OF INCREMENTS OF THICKEN BY THE DIRECTION OF SYGNETHING.
- APROVAL FOR PUBLIC IMPROVEMENTS ASSOCIATED WITH A BULLDING PERMIT SHALL EXPIRE IF THE BULLDING PERMIT EXPIRES, A BULLING PERMIT EXPIRES AS USE FROM THE DATE OF ISSUANCE UNLESS AN EXTENSION HAS BEEN GRANTED BY BULLDING INSPECTIONS.
 - WITH STREAM TO STREAM THE WAS COLOURS AS A STREAM THE WAS COLOURS AS A STREAM THE COLOURS AS A STREAM THE WAS COLO
 - THE CONTROL CASE OF PERSONS AND REPORTED FOR PERSONS AND THE CONTROL SHALL BE WEST FORCES. TO CHARGE AND THE WAS THOSE OF THE CONTROL SHALL BE WEST FORCES. THE CONTROL SHALL BE WAS THOSE OF THE CONTROL SHALL BE WAS THE WAS THOSE OF THE CONTROL SHALL BE WAS THOSE OF THE CONTROL SHALL BE WAS THE WAS MY EQUANTORS ALONED BY THE DRECTOR OF DEVELOPMENT SERVICES ON CONCRETE STREETS MAST BE PERFORMED IN SLICH A WAY DITREE CONCRETE PAREL IS REPUGED.
- THE STATE OF THE S

SHALL BE GRASS SEEDED IN

PAY FOR ALL STORM WATER FOLLITION PREVENTION MEASURES, SOLD WASTE DISPOSAL, SOIL TRACKING, SEEDING, ETC., AS PART OF "STORM WATER POLLITION PREVENTION".

UPON COMPLETION OF IMPROFEDENTS HERROF, ALL DISTURBED, AFRIC SHALL BE GRASS SEEDE ACCORANCE, WITH OTH STANDARD SPECIFICATION OS 2000 SEEDING.

THE PROSE SPECIAL CAN BE TROUGHO STATIONARD OS SEEDE SPECIFICATION OF THE CONTRACT OF THE STANDARD OF THE CONTRACT OF THE STANDARD OF THE CONTRACT OF THE STANDARD OF THE STAND

- ALL CONSTRUCTON PROCEDURES, TESTING PROCEDURES AND CONSTRUCTION MATERIALS AND APPURITEMANCES SHALL ADHERE AND BE IN COUNTURING THE LATES TRANSOROS OF THE COTT OF CORPUS CHARIST PROCEDURED EDISON MANULL, UNITED DELIZIONEMEN COLOG. CONCERNACES, TISCE AND ANY OTHER LOCAL, STATE AND EXERCILE LOCAL CONTRACTOR OF THIS PROLECT FOR THE DIRECTION OF THE PROLECT.
 - 14. THESE PARS HAVE BEEN DORLOPED AND BROWERSED TO MEET ALL LOOL, STATE AND FEDERAL CORES NICLIDIAN BHT NOT LIMITED TO THE LOURS OF OF ORDINANCES COCO, DO. TORE OF THE COR'S NICHIBLISE AT THE TIME OF SOMINA AND SOJAKA, THESE PARS HAVE HAVE SHOWN PROMISE. THE WAS THE CORES NICHIBLISE.

MOSES MOSTAGHASI P.D. BOX 331308, CORPUS CHRIST, TEXAS 784-3832

OFFSITE DRANAGE PLAN AND PROFILE, EXHIBIT FOR USE OF HDPP

Bria A. Whitmire, whime, Pt. Chy. Cha.
P.E., CFM, CPM, Date: 2023 1234 1731:10

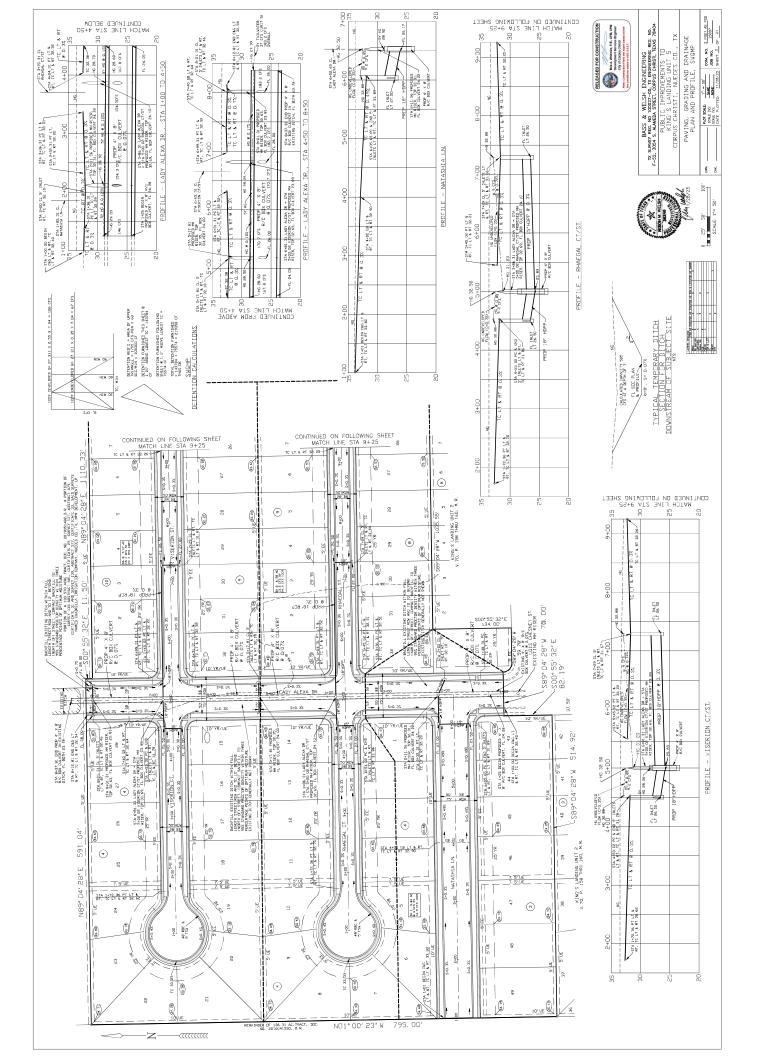
Bris A. Weitmer, P.E., CPM, CPM, CPM, CPM, CPM, CPM, Copper Control Copy of Copyes Control Copy Copyes Control Copy Copyes RELEASED FOR CONSTRUCTION

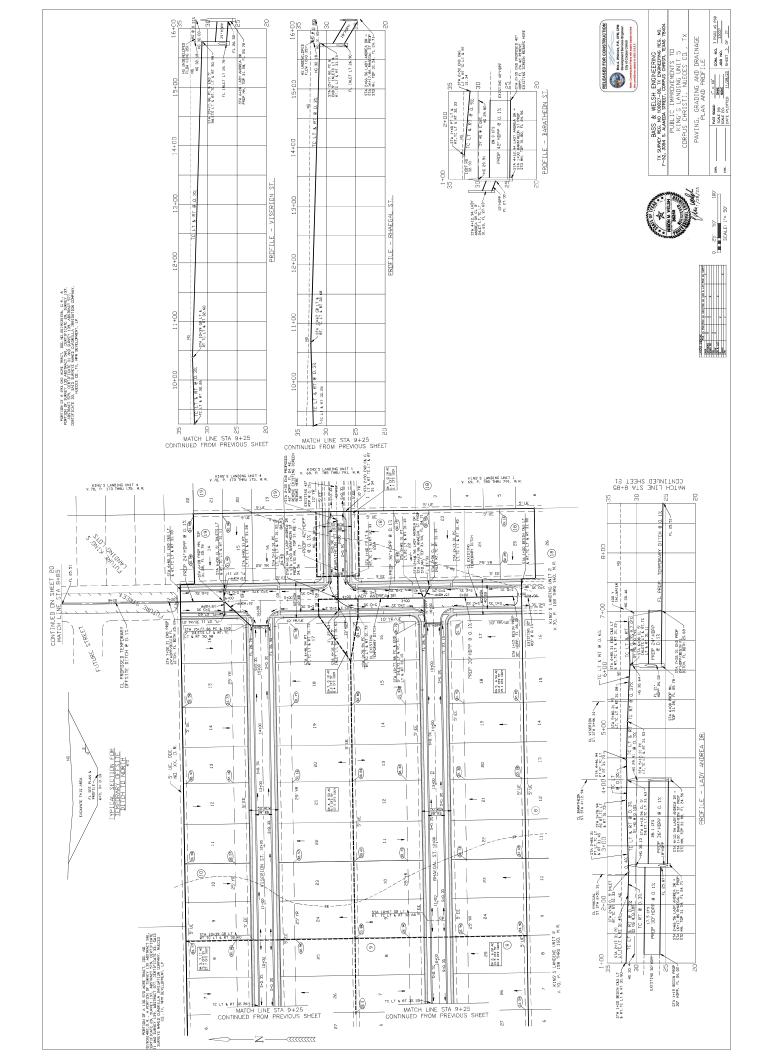


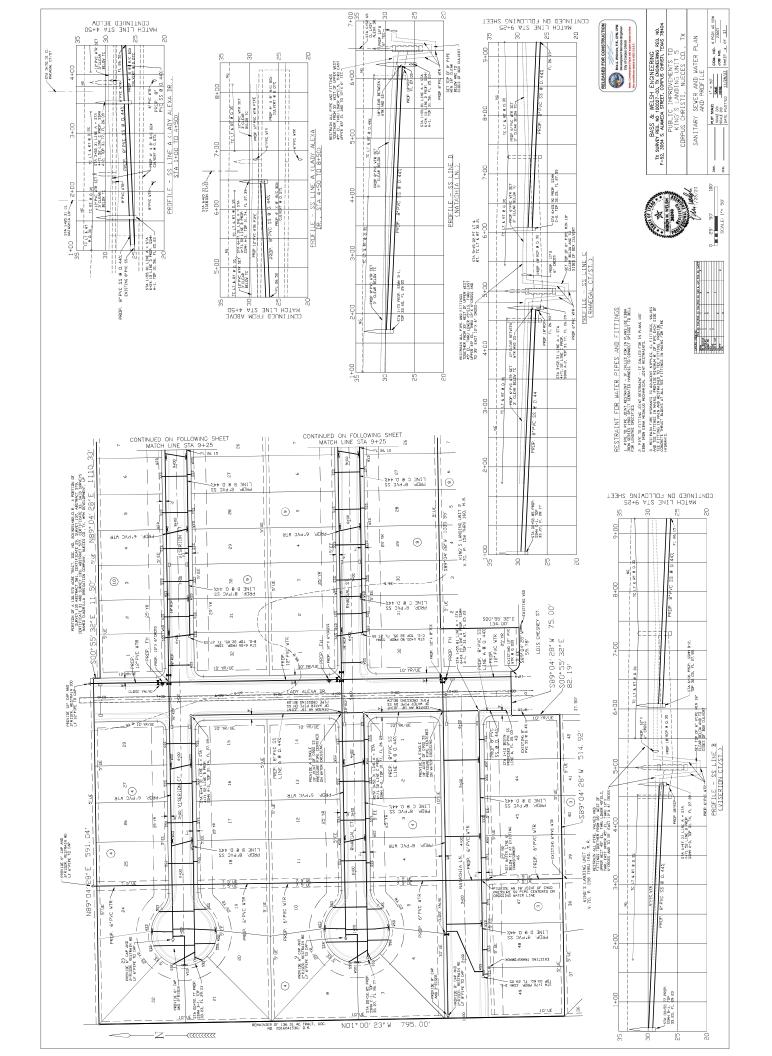
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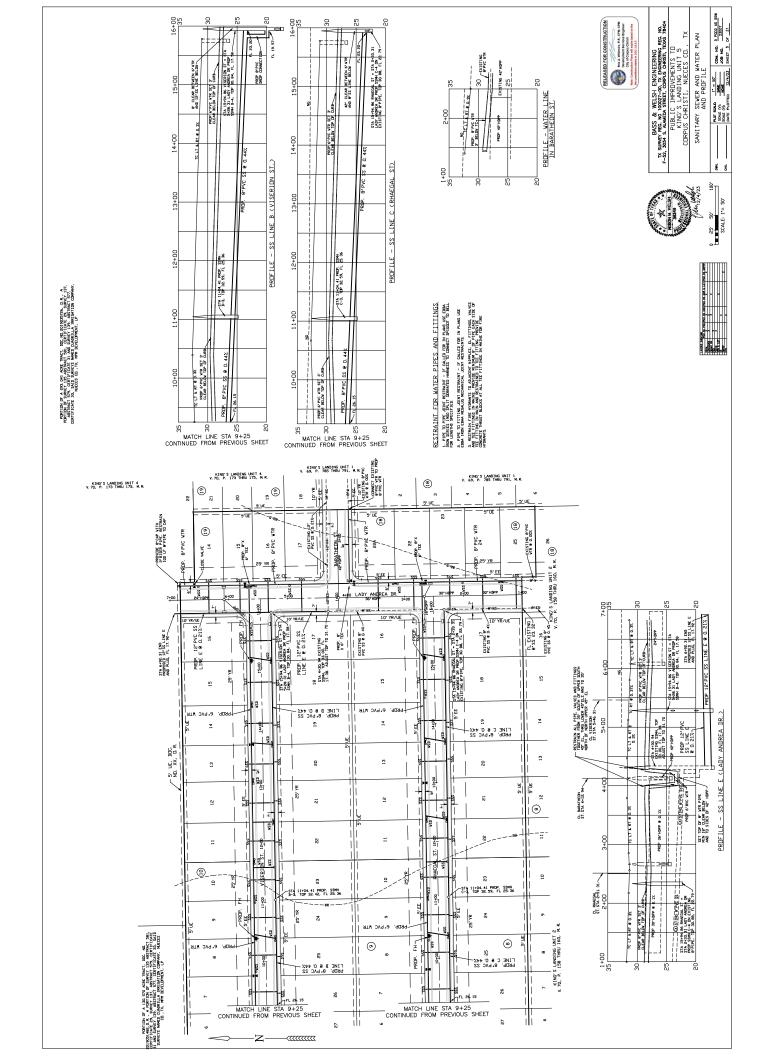
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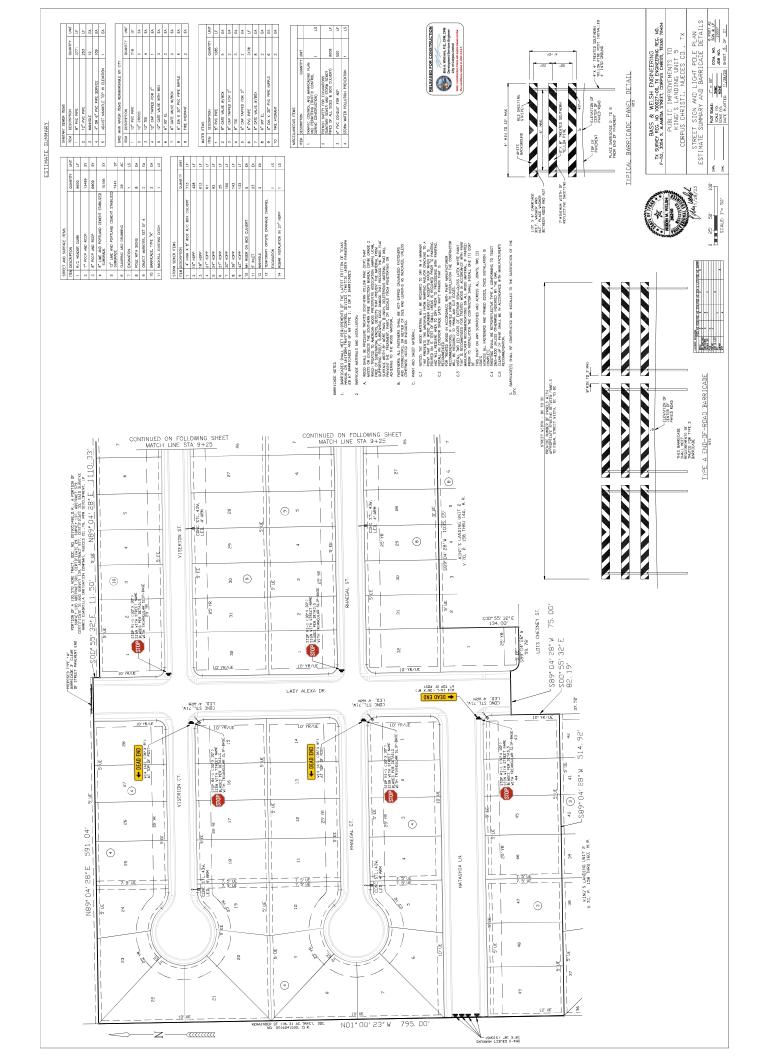


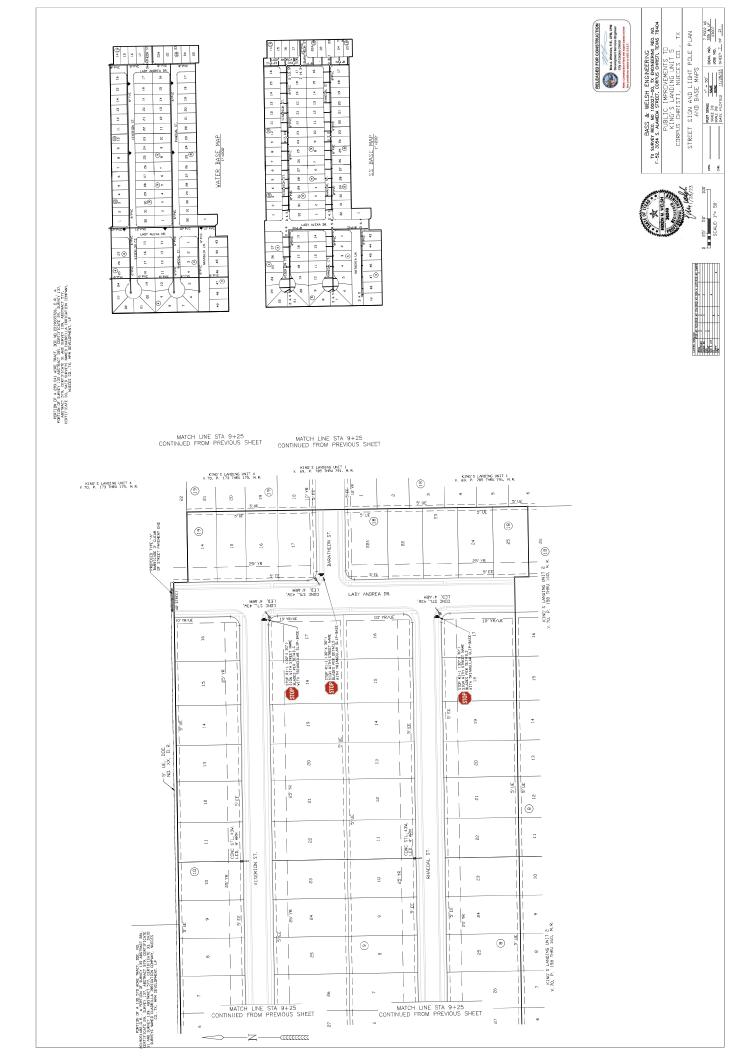


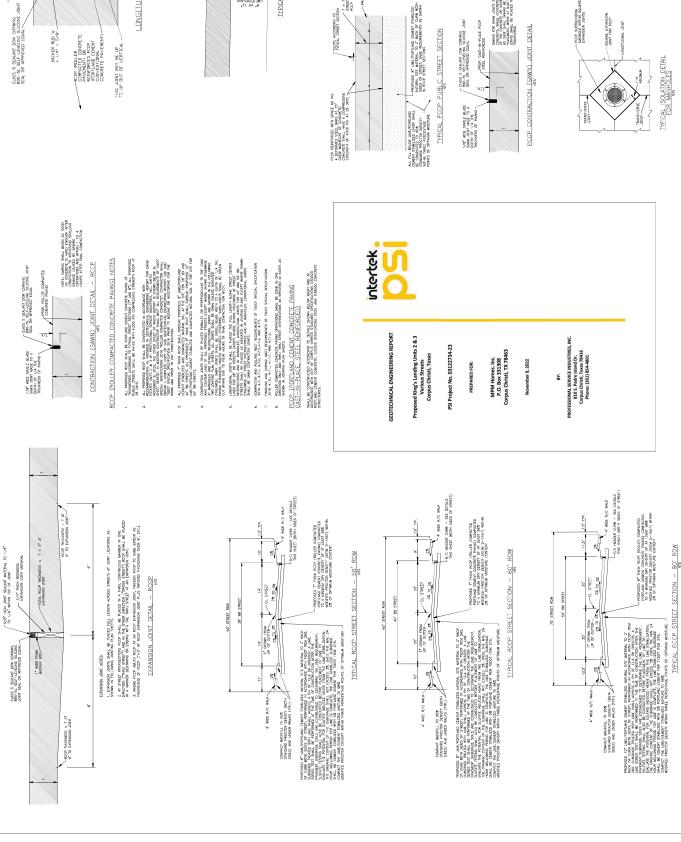


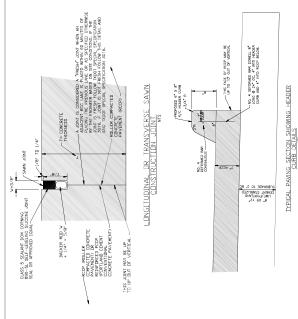


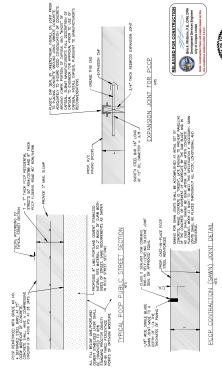






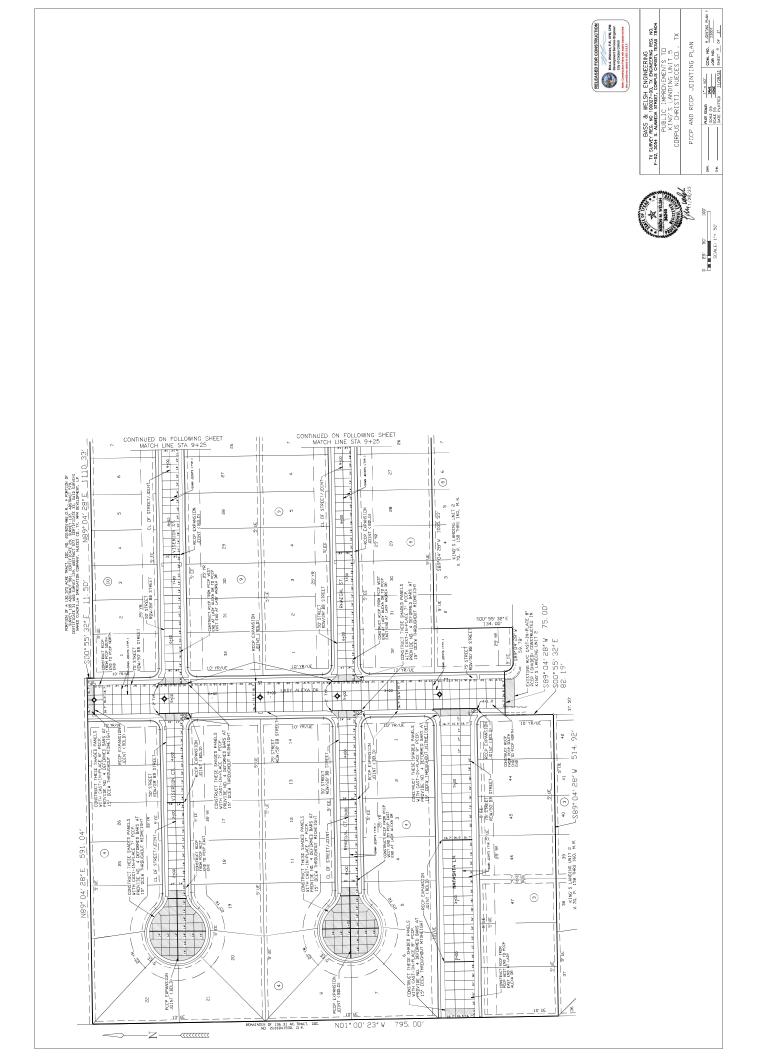


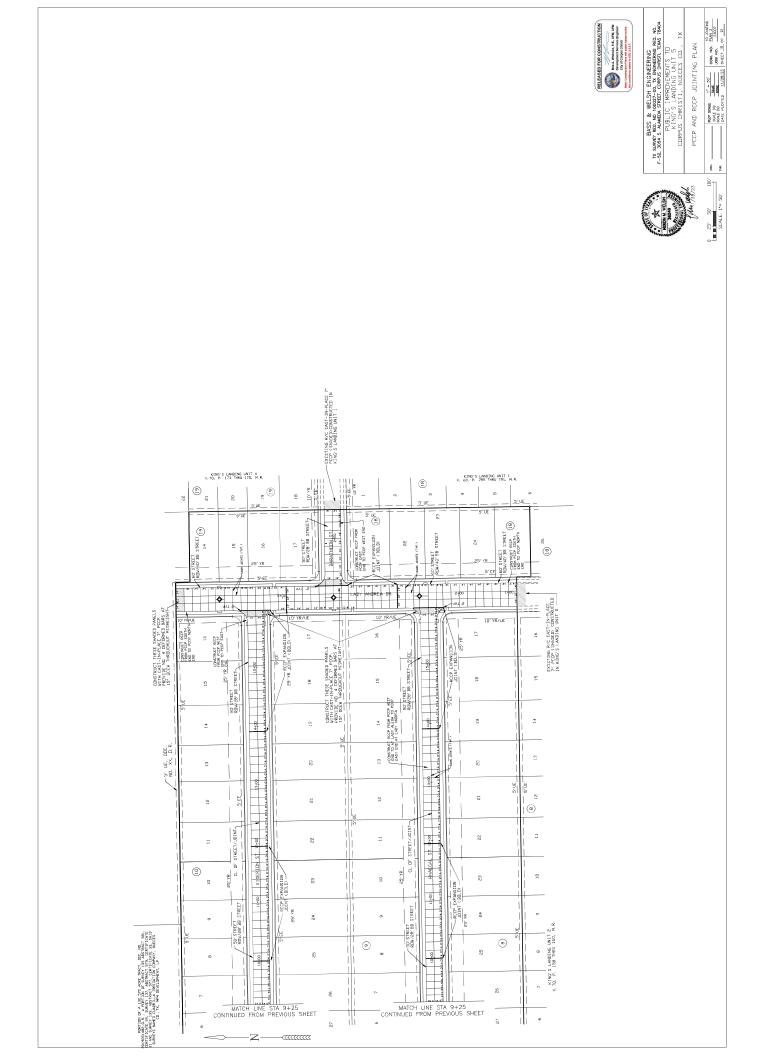


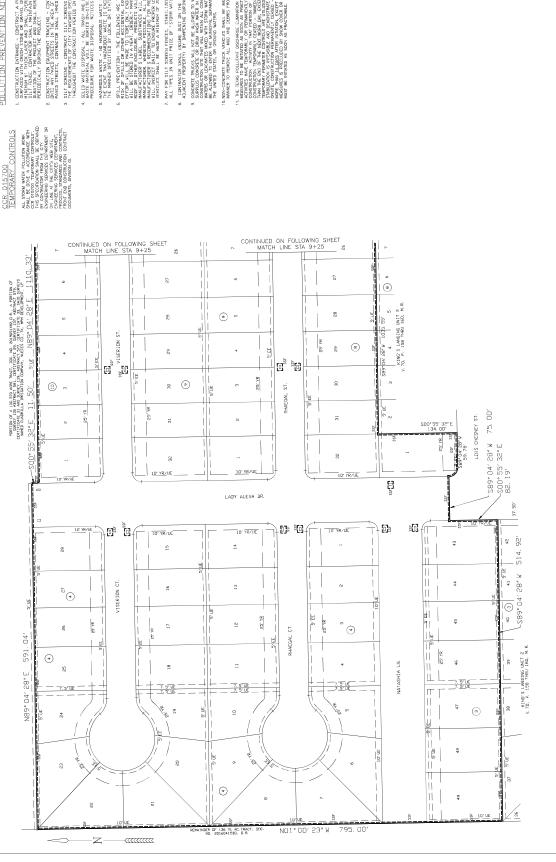




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TTED 11/28/23 SHEET 8 OF 21







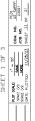
POLLUTION PREVENTION NOTES

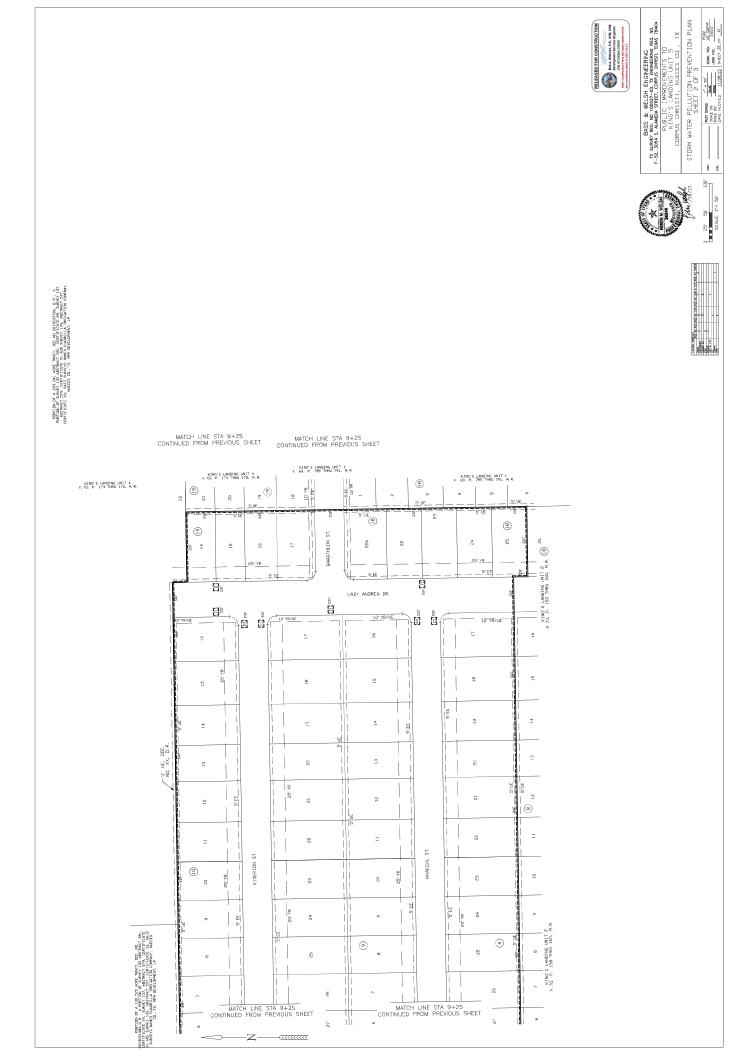
- - CONSTRUCTION EQUIPMENT TRACKING CONTRACTORS SHALL ENSURE THAT NO HUD DR ANY DITHER DEBRIS BE TRACKED INTO ANY HOURD STREETS, IN THE AREA IF THIS PROJECT, SHOLD, BAY HOURD DRIVED ERSHIS BE TRACKED DATIO WAYED STREETS, CONTRACTOR SHALL IMPEDIATELY CLEANUE SHAR AT HIS DAN EXPENSE. SILT SCREENS — CONSTRUCT SILT SCREENS AT LIDEATIDNS AS SHOWN IN THE PLANS. ALL SILT SCREENS SHALL MEET REQUIREMENT IN EINT STRANDES SHALL BE INSPECTION OF SAULD BE INSPECTION OF SHALL BE INSPECTION OF A WEEKL BASIS AND SHALL BE REPAIRED/REDAKEDAD ON RECESSARY.
 - SOLID WASTE DISPUSAL ALL TRASH AND DERRIS WILL BE HALLED TO AN APPROVED LANDFILL. NO CONSTRUCTION WASTE MERRAN LILL BY BRIEF DAYS THE CHRECKT THE PROVIDED BE READING WITH ED THREEFT PROJECTED FOR THE UP WASTE DISPUSAL, UNITIES STATING HESE PROVIDES. SPALL BE DISPUSAL AND THE JUB SITE.
- SEXT PRESENTED THE ACCOUNT WE SET TO THE ACCOUNT SE 5. HAZARDIS WASTE – NO HAZARDIS WASTE IS EXPECTED TO BE GENERATED DR ENCONTERED IN THIS PROJECT. IN THE EVENT THE HAZARDIS WASTE AS ENCOUNTED ALL HAZARDIS WASTE HERRALS WILL BE DISPUSSED OF IN THE MANNES SPECIFIED BY LOCAL OF STATE REGULATIONS OF BY THE MANNES SPECIFIED BY LOCAL OF STATE REGULATIONS OF BY
 - PAY FOR SILT SCREEN FENCES, STABILIZED CONSTRUCTION ENTRANCE AND ALL POLLUTION ALL TYPES IN UNIT PRICE OF "STORM WATER POLLUTION PREVENTION".
 - CENTRACTUR SHALL ENSURE DUST ON THE STITE IS CONTROLLED (NOT ALLOWED TO BLOW TO ADJACENT PROPERTY) BY DAMPENING DURING CONSTRUCTION
- SERVICE TROUGS WITH OFF EALERSY TO WEAR OFF AWARDERS OF THE SERVICE STATES THE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE OF THE SERVICE SERVICE SERVICE SERVICE WAS THE SERVICE SERVICE OFFICE WAS THE SERVICE OFFICE WAS THE SERVICE OFFICE WAS THE SERVICE OFFICE WAS THE SERVICE SERVICE WAS THE SERVICE SERV
 - ANAINER TO REMOVE ALL MUD AND DEBRIS FROM THE TIRES.
- IN IT TON SOUTH DEPONDED. SHOWING PROSTED GROUND WITH TROPKS SHOULD WESTERN TO BE UNIVERSE SOON AS PROGRESSED AND ASSESSED OF BEINGTON, ACCOUNTED WESTERN OF A USE BE WITHOUT CASESSED ON SOUTH BE WITHOUT CASESSED AND WESTERN OF PROMISED CONSTRUCTION. ACCOUNTED WESTERN OF PROMISED CONSTRUCTION. ACCOUNTED WESTERN OF PROMISED CONSTRUCTION. ACCOUNTED WESTERN OF PROMISED CONSTRUCTION OF ACCOUNTED AND ASSESSED CONSTRUCTION OF ASSESSED CONSTRUCTION.











SITE DESCRIPTION

PROJECT LIMITS: KING'S LANDING UNIT 5

PROJECT DESCRIPTION, CONSTRUCTION OF SINGLE-FAMILY RESIGNATIVE, SUBDIASION, THE PRIMARY ACTIVITIES WITH E PROJECT CONSTRUCTION, LEGINHOND, AND TOLERAIN AND STUB-SION SIGNAL SINGLE AND COT GRADINA, AND CLIPARINA AND SHUBBING UTILLY CONSTRUCTION AND LOT GRADINA, AND CLIPARINA AND SHUBBING UTILLY CONSTRUCTION AND LOT GRADINA, AND CLIPARINA AND SHUBBING UTILLY CONSTRUCTION AND LOT GRADINA, AND CLIPARINA AND SHUBBING UTILLY CONSTRUCTION AND LOT GRADINA. MAJOR SOIL DISTURBING ACTIVITIES: FAVEMENT AND EARTHWORK CONSTRUCTION, LOT GRADING & STORM SEWER AND UTILITY CONSTRUCTION TOTAL PROJECT AREA: 27.311 ACRES

WEIGHTED RUNOFF COEFFICIENT 55% (AFTER CONSTRUCTION): 55%

TOTAL AREA TO BE DISTURBED: 29 ACRES

DESTING COMPANY OF SO, A SCREENNE OF OFFICE SELECT SIE ARE WICHON CLIV. 0 TO 1% SLIPES, VAX. SOE CLASSESTOOR USDO.) SOES A SOLIS AT THE SOURCE SELECT SIE ARE WICHON CHAPLE SOLIS AT THE SOURCE SHOWN STORY. STEEL STATEMENT STORY S NAME OF RECEIVING WATERS: OSO CREEK

THE GREER OF ACTIVITIES WAS LESS FOLLOWS HERE. JUSTICE NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

STORM WATER MANAGENENT, STORM WATER DRANAGE WILL BE PROVIDED BY THE STREET SECTION, INLETS AND PIPES. CURB & CUTTER WILL CARRY THE RUNGE" TO THE COLLECTION POINTS (NIETS).

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

| TEMPOPARY SEDING | PERAPOPARY SEDING | PERAPURIT PLANTING, SODDING, OR SEEDING | MULCHING | SOIL RETEIND BLANKET | BLIFER ZONES | PRESERVATION OF NATURAL RESOURCES |

OTHER, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED (TENPORARLY OR PERMANENT) SHALL BE STRUEDS WITHIN 14 DATS UNLESS ACTIVITES ARE SCHEDULED TO RESUME AND DOWNTHEN 21 DATS.

STRUCTURAL PRACTICES.

— SIL TROUS

— WAY SHEE DAY

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WINDSTRUCE, La ESONDA MAS ESTRENET ORDIGOS WILL BE WASHINGTON TO OCCUPATION OF PROPERTY OF PROPERTY OF PROPERTY OF PROSESSEL, LIN LO LATER THAT O'S ALFORD THE SERVINATION EDUCATION OF PROSESSEL SHOWN ON THE THAT OF THE PROPERTY OF PRO

NSPECTION, ALL INSPECTION WILL BE PERFORDED BY AN INSPECTIOR DERY WERK AS WELL AS TO THE CHEFF WHEN CHECK ON ANNO CT DAIN (AS RECORDED DA A NOVEREZING NOW OLANGE). TO THE LOCATED AT THE PROJECT SITE, AN INSPECTION AND MAINTENANCE REPORT WILL BE WENGED FOR HOW PROPERTION. BEGINN THE ROPECTION RESULTS, THE CONTROLS SHALL BE RANGED FOR THE INSPECTION. BEGINN THE PROPERTION RESULTS, THE CONTROLS SHALL BE RANGED FOR THE INSPECTION. BEGINN THE PROPERTION RESULTS. THE CONTROLS SHALL BE RANGED FOR THE PROPERTION OF THE PROPERTIES.

WAST WATCHES, CONTRICTORS SHALF FROODE, A WISH, OF A FREE, FOR DOCKERS TRIGOS, THE MENTING SHALF BE AT A LOCATION HAT WILL NOT LACK ANY DEFINES OR CONTAMINATION TO EXITE THE ONLINE ON STORM STATES STATEM LANGUAGES SHALL BE WASTO FOR PROTECT STRENDINGTON AREA FROM CONTAMINATION, WAST ON TAKES SHALL BE RESTORED HOUSE PRO-COMPLETION. ALL WISH WATCHAY, LEE COLLECTOR AND STORED WITH TRROWN TO ADMINISTRATION OF THE PROCESS.

SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY

OFFSITE VEHICLE TRACKING:

HAUL ROADS DAMPENED FOR DUST CONTROL

LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN

EXCESS DIRT ON ROAD REMOVED DALLY

STABILIZED CONSTRUCTION ENTRANCE

REDWING STOCKS, AERCY STOCKPETS, AND MULL GODG SHALL IS CONCREGATOR IN A AMMERICAN DAY WILL AUMINIZE AND CONTROL THE ARCHITO OF STIMMAN THAN AND THERE SECTIONAL STATES ADDRESS SHALL MISS SHALL BE CONSTRUCTION STATES SHALL BE CONSTRUCTION STATES SHALL BE CONSTRUCTION STATES SHALL BE CONSTRUCTED AND WERE ADDRESS SHALL BE CONSTRUCTED AND AND WERE ADDRESS SHALL BE CONTROLLED AND AND WERE ADDRESS OF SHALL BE CONTROLLED AS SOON AS DESSIBLE OF THEORYMET DEMANANT, THEORYMENT, THOMAS SHALL BE CLEMED AS SOON AS DESSIBLE OF THEORYMET PLEASANINKE, THOMAS SHALL BE CLEMED AS SOON AS DESSIBLE OF THEORYMET PLEASANINKE, THOMAS SHALL BE CLEMED AS SOON AS DESSIBLE OF THEORYMET PLEASANINKE, THOMAS SHALL BE CLEMED AS SOON AS DESSIBLE OF THEORYMET PLEASANINKE, THOMAS SHALL BE SERVICED SHALL BE SERVICED AND ASSESSED.

CONTRACTOR SHALL PROVIDE ALL PERMITS AND INSPECTIONS AS MAY BE REQUIRED BY TOEQ AND EPA. CONTRACTOR SHALL PROVIDE NOI AND NOT.

DSD CREEK

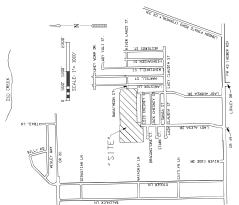
L 6"(15cm) TO 8"(20cm) MIN. FABRIC IN TRENCH

FILTER FABRIC WITH REINFORCEMENT

BALED HAY OR STRAW

2"x 2"x 36" (5cm x 5cm x1 in) WOOD PEGS

RECOMMENDED TOE-IN METHOD



But A. Wheren, P.E., CPM, CPM Devidence of Corpus Cinnal Corpus Cinnal Ciny of Corpus Cin RELEASED FOR CONSTRUCTION



(15 cm) (14 cm) (16 cm) (17 cm) (17 cm) (18 cm

(5 cm)

PLACEMENT FOR BALED HAY
FILTER DAMS

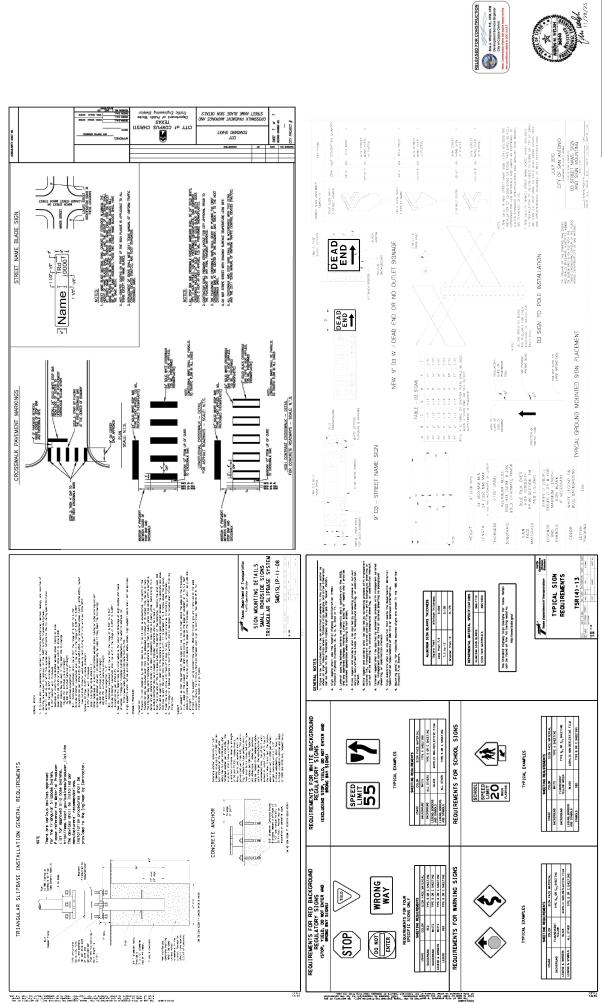
ELEVATION

SEDIMENT CONTROL FENCE

BASS AND WELSH ENGINEERING TX REGISTRATION NO. F-62, 3054 S. ALAMEDA STREET CORPUS CHRISTI, TEXAS 78404

KING'S LANDING UNIT 5
CORPUS CHRISTI, NUECES CO., TX
STORM WATER POLLUTION PREVENTION PLAN
SHEET 3 OF 3 PUBLIC IMPROVEMENTS

DW. N. WEISH



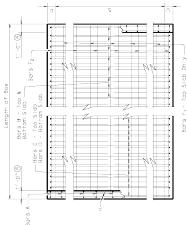


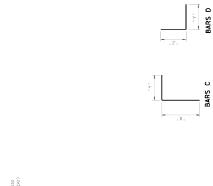
BASS AND WELSH ENGINEERING TX REGISTRATION NO. F-52, 3054 S. ALMEDA STREET CORPUS CHRISTI, TEXAS 79404	PUBLIC IMPROVEMENTS TO KING'S LANDING UNIT 5 CORPUS CHRISTI, NUECES CO., TX	TXDOT & CITY SIGN AND PAVEMENT MARKING REQUIREMENTS AND DETAILS	PAR PLOTTED 17.8 50. COM. HO, PART MASHINGS SHUMN. AS SHOWN. AS SHOWN OF NO. 23007. OW. N. W. SH. SHOWN. AS SHOWN OF NO. 23007. OW. N. W. SH. SHOWN OF NO. 23007. OW. N. W. SH. SH. SHOWN OF NO. 23007. OW. N. W. SH. SH. SHOWN OF NO. 23007. OW. N. W. SH. SH. SHOWN OF NO. 23007. OW. N. W. SH. SH. SH. SHOWN OF NO. 23007. OW. N. W. SH. SH. SH. SH. SH. SH. SH. SH. SH. SH
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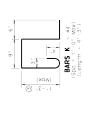
PLAN OF REINF STEEL

TYPICAL SECTION





SECTION THRU CURB





© For vehicle eaterly, the following requirements must be merfor structures without bridge roll, curbs shall project no more than 3' above finished grade.

For structures with bridge roll, curbs shall be fluan with finished grade. Freeze, it necessary, to meet the courb equire shall be reduced; if necessary, to meet the courb equirements. No changes will be made in admittant is and the conference of the

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

 \oplus 1'-0" typical. Z'-0" when RAC standard is referred to elsewhere in the plans.

Example Copyrighm (Reb) desembnt of No. 6 Gr 60 dr 6"
WWF redulined [0.44 sq 1pt/ 0.5") x (60 ke)/10 ke)

= 0.754 sq 1pt/ft.
| f 10.05.6 where is used no meet the 0.754 sq 1pt/ft
| equiverent in this example, the required spacing
| No. 6 where in this example, the required spacing
| No. 6 where the 0.754 sq 1pt/ft = 4,8|r.
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GENERAL NOTES:

GENERAL NOTE: A to AMSHOT LEFT Specifications.

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A III concrete stell the Corde for.

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Bits A. Weltmin, P.E., CPM, CPM Development of Services Inglever City of Corpus Central City of Corpus Central

RELEASED FOR CONSTRUCTION

PUBLIC MAROVEWENTS TO KING'S LANDING UNIT 5 CORPUS CHRISTI, NUECES CO. TX TXDOT SINGLE BOX CULVERTS CAST. IN PLACE SICC. 8, SHEET IO F Z ... IN BARK RM BASS AND WELSH ENGINEERING TX REDISTRATION NO. F-52, 3054 S. ALAMEDA STREET CORPUS CHRISTI, TEXAS 78404 DAN. N. MELSH

COM. NO. TXB0T 8' CP.
JOB NO. 23007
SHIEET 15 OF 21

		÷	33	80	92	26	33	-8	5.4	41	22	583	2.9	56	98	20	929	26	40	920	421	169	437	285	72	1-9	514
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QUANTITIES	·	Conc (CY)	81 23.	1 25.	86 29.	86 31.7	87 35.	81 25.2	1 27.5	86 31.	86 33.	87 37.	1 26.	1 29.	86 33.	86 35.	7 39.	1 28.	30.	86 35.	86 37.6	87 42.	81 30,	32.	86 37.3	86 39.	87 44.
Z	Curb	Cono É B (CY)	<u>~</u>	7 81	P-	-	P	P=	7.	h-	N-	P=	18 7.	7 .	P	p	. 7 87	.7 81	.7	P	P-	-	~	0.7 81	0.7	h-	N-
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	Per foot of Barrel		.569 166,	26 173.	175.	74 180.	188.	174.	181.	183.	823 184,	923 212.	655 179.	712 190.	192.	72 193.	978 221.	.699 200.	755 196.	864 198.	.922 208.	034 227.	742 208.	38 205.	14 207.	71 217.0	30 235.
	·	Conc (CY)	ं	0.626	0.716	2 0.774	2 0.867	7 0.612	0.669	2 0, 765	ó	ó	0.	ċ	2 0.815	0.872	٥.	0	i	ं	ं	-	ં	0,798	0.914	2 0.971	1.090
	Bars	No.	20 57	20 57	22 62	22 62	22 62	20 57	20 57	22 62	22 62	22 62	29 02	20 57	22 62	22 62	22 62	20 57	20 57	22 62	22 62	22 62	20 57	20 57	29 22	22 62	22 62
	ors H 4~#4	+W	24	24	24	24	3 25	24	2.4	1 24	1 24	3" 25	24	2.4	1 24	24	3" 25	24	24	1 24	1 24	3" 25	. 24	24	24	1 24	3 25
	Bars 4~#4	Length	87-11	8'-11	- 16	- ,6	òn i	8'-11	8'-11	- ,6	- ,6	9,-3	8'-11	8'-11	- ,6	9 1	9'-3	8'-11	8'-11	9 1	9'-1	- 00	8'-11	8'-11	9 1	- ,6	- jn
	#4 //0x	**	850	850	850	850	903	926	926	926	926	1,009	1,062	1,062	1,062	1,062	1,115	1,062	1,062	1,062	1,062	1,115	1,168	1,168	1,168	1,168	1,221
	Bars F2∼#4 a† 18" Max	Length	397-9	399	397-9"	397 -9"	39, -9:	66	399	397 -9"	39, -9:	397-9"	66	39, -6	39, -9:	39, -9	39, -9	66	39' -9"	39, -9	399	399	39, -9	39, -9	399	399:	397 -9"
	Bar a+	No.	32	32 3	32 3	32	34.3	36 39	36	98	98	38	40 39.	40 3	40 3	40 3	42 3	40 397	40 3	40 3	40 3	42 3	44	44 3	44 3	44 3	46 3
	# 4	#	345	9.1	159	159	159	9" 345	159	9.1159	159	9 159	9" 345	159	9:1	9.159	3" 159	3.13	159	9.159	9 189	1.59	345	9.129	9159	159	9159
e+)	Bars F₁ ~#4	Length	391-9	39.	39 9.	399.	39, -9	39, -9	39, -9,	399.	391-9	39.	39, -9	391-9	391-9	39.	391-91	391-9	391-9	39.	39.	39 9.	391-9	39.	391-9	39 9.	391-9
ě	Bar	Spo Spo	13	9		60		13	9	100 	9		13 7"	60	9	. 8 . 9	.8:9	13 7	9 18	9	9	 	13	9	9	100 	9
9	# Y O	- 3s	150	150	150	150	150	187	187	187	187	187	224	224	224	224	224	262	262	262	262	262	299	299	299	299	299
<u>-</u> ⊊	Bors E~#4 o† 18" Mox	Lengih	4′-0"	4′-0"	4'-0"	4'-0"	4'-0"	0-,9	90	9, -0.	9, -0.	9, -0	0-,9	e, -0	0-,9	0-,9	6'-0"	02	1, -0	0-,2	10-14	1, -0.,	8,-0.	8′-0"	8′-0"	8, -0.	8,-0.
eng	Bars at 18	No. L	999	9.6	9.6	90	90	9.9	96	90	96	96	99	999	96	9.6	96	. 95	90	9.9	99	10	96	9.6	99	96	96
Š L		Z	2' - 7"	2' - 8"	62	- N	27-11"	2' - 7"	82	62	27 - 10"	2' -11"	2 2	2' - B"	2' - 9"	2'-10"	27-11"	1	2' - 8"	2'- 9"	27-10"	27 -111"	2' - 7"	2' - 8"	6 -,2	27 - 10"	27-11"
(For Box Length = 40 feet					32	[K]	 	3.		M		- 2	32	20		3.	32	3 2.	E	3::	3::	2	3	3::	3::	- M	3
Ę.			3 4'-	0 4	.4	54	0 4'-	3 4'-	0 4'-	6 4'-	3 4,	0 4'-	4 -	0 4'-	6 4'-	3 4'-	0 4'-	3 4'-	0 4'-	6 4'-	3 4'-	0 4'-	3 4'-	0 4'-	6 4'-	3 4'-	0 4'-
EF	Bars D	Weigh+	1,383	1,400	1,416	1,555	1,450	1,383	1,400	1,416	1,433	1,450	1,155	1,400	1,416	1,433	1,450	1,383	1,400	1,416	1,433	1,450	1,383	1,400	1,416	1,433	1,450
ST	Ba	Length	67-10"	6'-11"	1.0 - 1.2	9 - , 1	7' - 2"	67-10"	6'-11"	0 -,1	77 - 11	7' - 2"	.01-,9	6'-11"	1.7 - 0.1	1.1	7'- 2"	.019	6'-11"	71-0"	11-11	1,- 5,1	6'-10"	6'-11"	1 0	11-11	7' - 2"
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E B		ez i s	94 #5	94 #5	9.4 #5	38 #6	194 #5	94 #5	94 #5	94 #5	194 #5	94 #5	62 #5	94 #5	94	94 #5	94 #5	94 #5	94 #5	94 #2	94 #5	94	94 #5	94 #2	94 #5	94 #5	94 #5
REINFORCING STEEL			3	316	3" 19	3.1	3	316	316	3	3.1	3" 19	3" 16	3.1	3.1	316	319	3., 16	3	316	318	3	315	316	315	3	3
ь Б		Å.	- 4'-	. 4.	7" 4'-	. 4	. 4	- 4.	6" 4'-	7	.4	- 75	- ,5	- '4	7" 4'-	. 7	- 4	- 4, -	6" 4'-	- , b L	. 4	.4	- 4'-	. 4 9	- , 5	. 4	9
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BILLS	ပ	Welgh+	754	1,770	1,787	1,848	1,821	1,956	1,973	1,990	2,007	, 023	1,802	2,175	192	2,209	2,226	2,361	2,378	2, 394	2,411	428	2,563	2,580	2,597	2,614	2,630
	Bars (: 8	- 60	101	-11-	-0	8	6	-10"-	-11" 2	02	8	- En	-10" 2,	-111-	02	8		-10" 2		0.2	8	-6	-10" 2	-11" 2	- - 0
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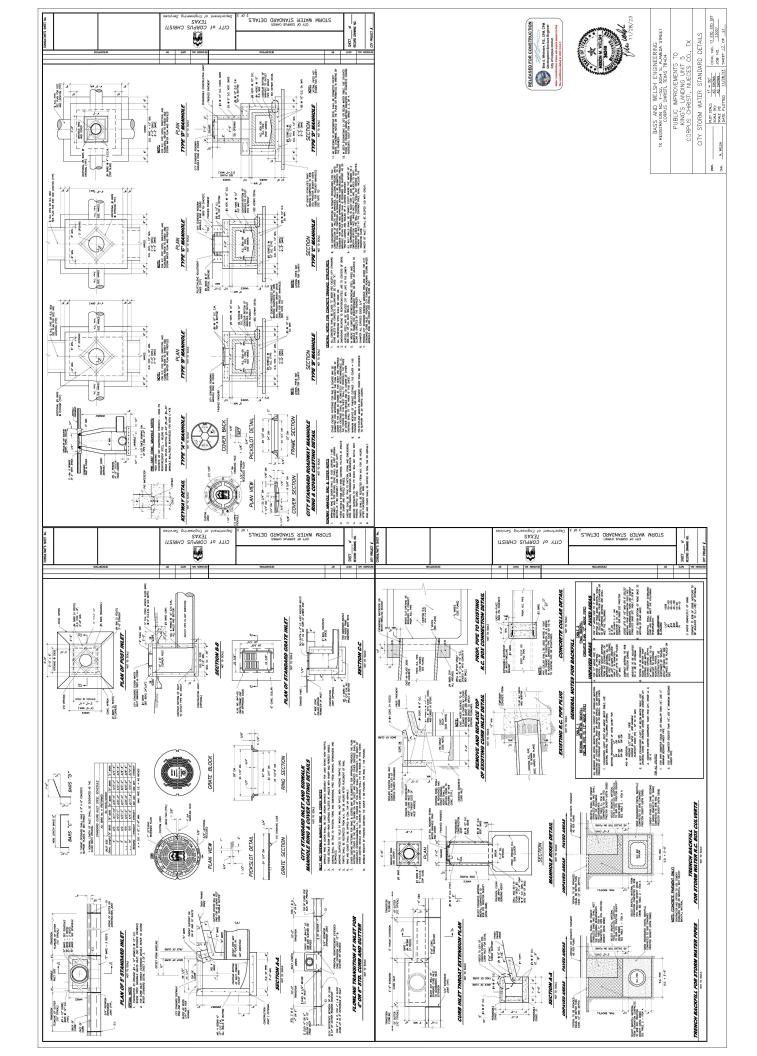
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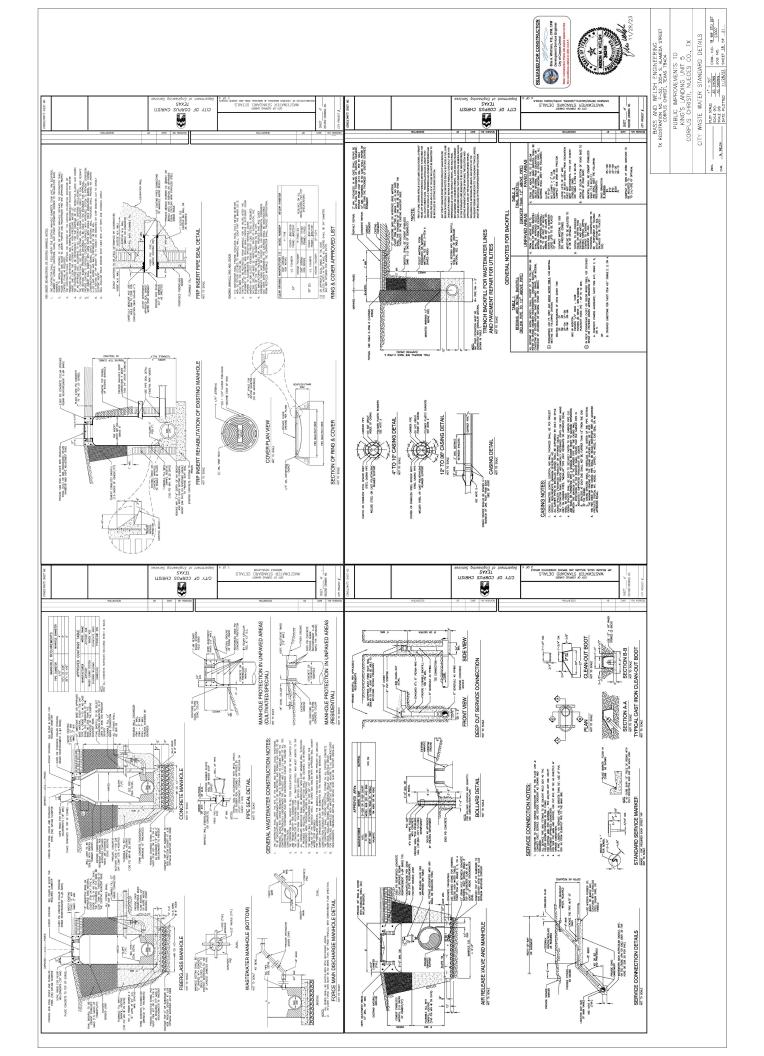
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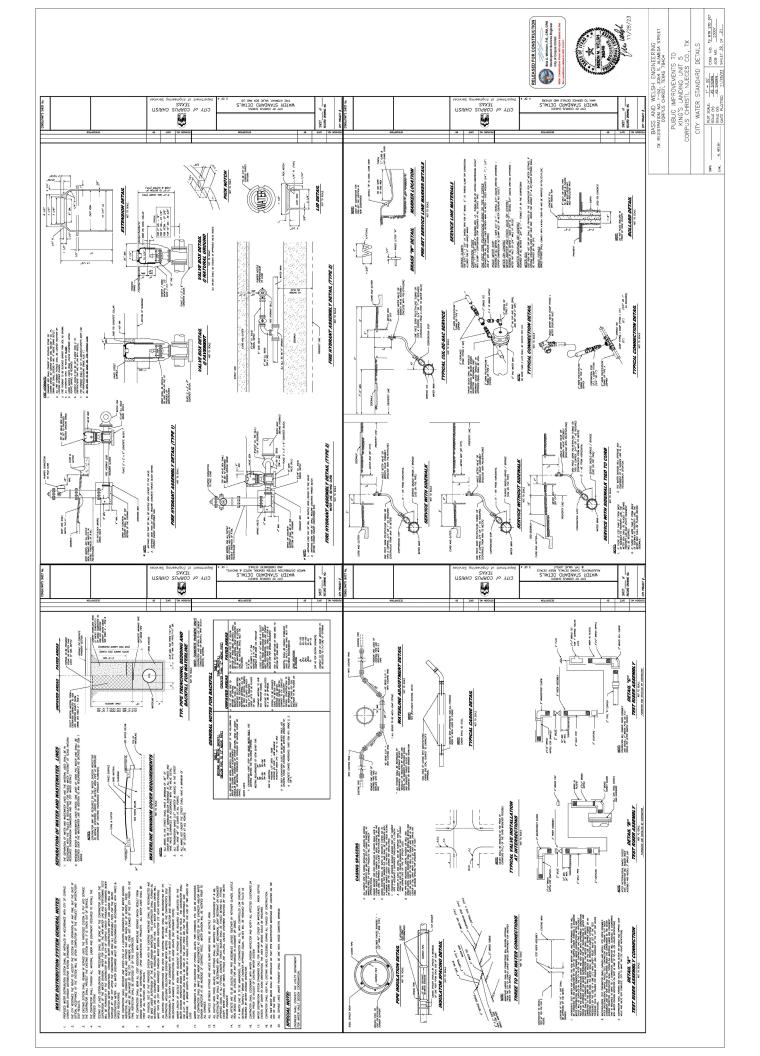
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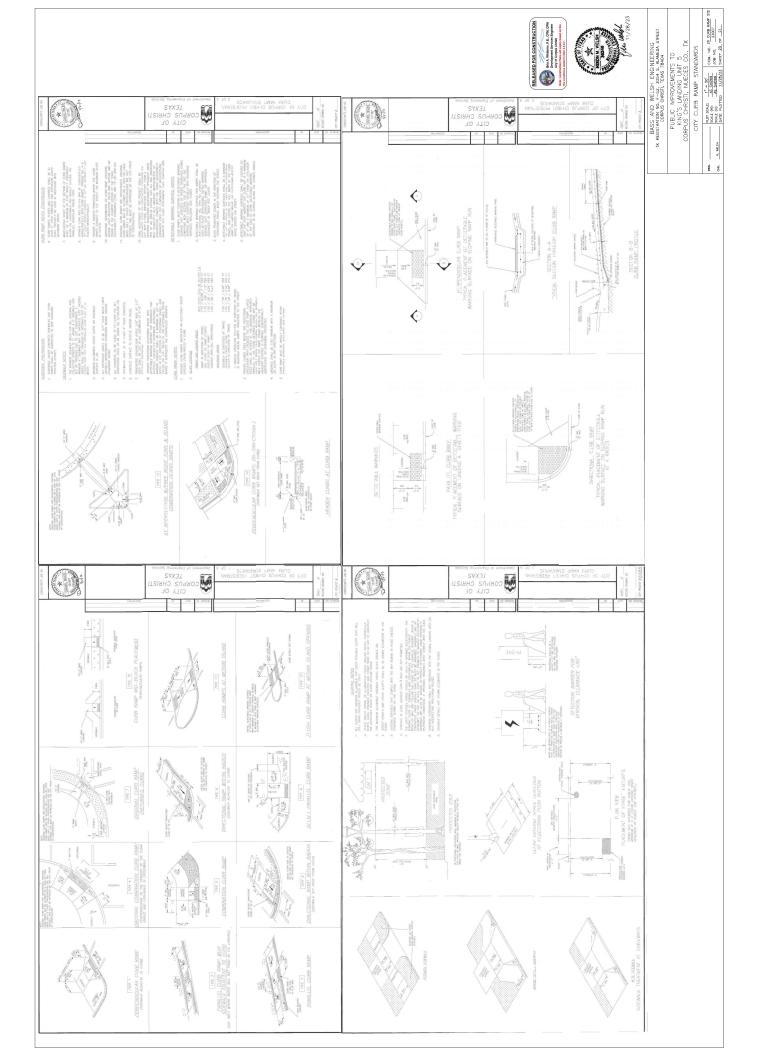


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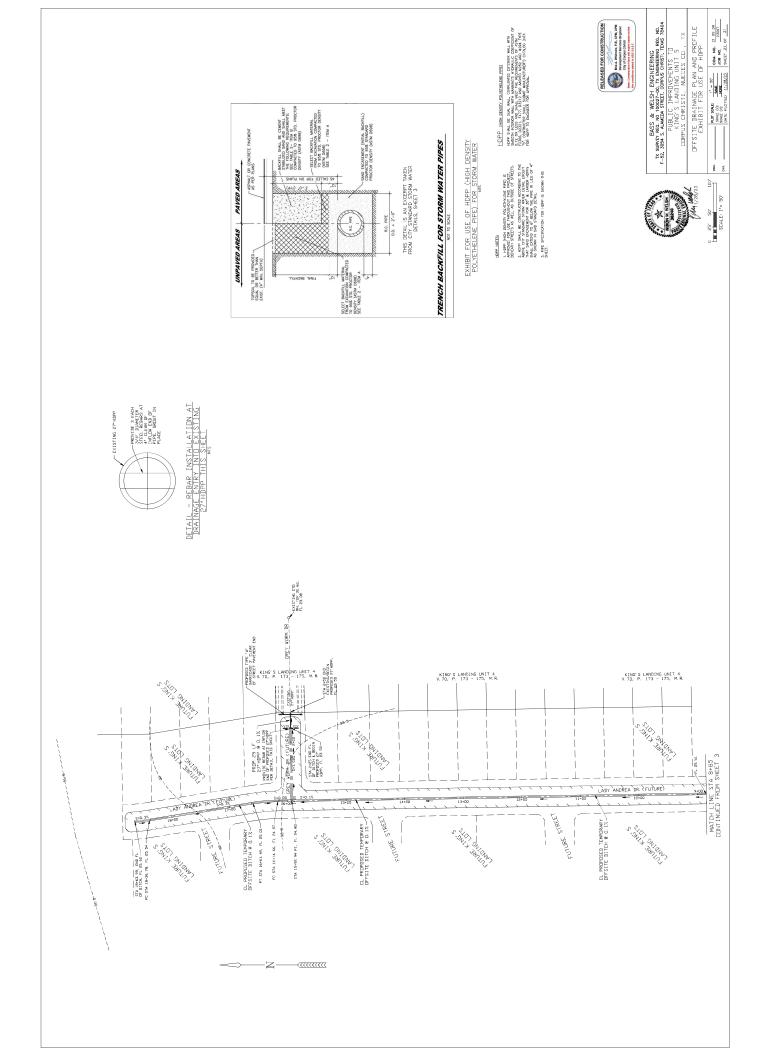


EXHIBIT 3

GEOTECHNICAL ENGINEERING REPORT

King's Landing Unit 5 Pavement Study

Baratheon and Lois Chesney Streets Corpus Christi, Nueces County, Texas

PSI Project No. 03123040

PREPARED FOR:

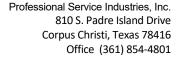
MPM Homes
P.O. Box 331308
Corpus Christi, Texas, 78463

January 24, 2024

BY:

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







January 24, 2024

MPM Homes

P.O. Box 331308 Corpus Christi, Texas, 78463

Attn: Mr. Moses Mostaghasi

RE: GEOTECHNICAL ENGINEERING REPORT
KING'S LANDING UNIT 5 PAVEMENT STUDY
BARATHEON AND LOIS CHESNEY STREETS
CORPUS CHRISTI, NUECES COUNTY, TEXAS
PSI Project No. 03123040

Dear 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 of field and laboratory testing 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. If there are any questions pertaining to this report, or if PSI may be of further service, please contact our office.

PSI also has great interest in providing materials testing and inspection services during the construction of this project. If you will advise us of the appropriate time to discuss these engineering services, we will be pleased to meet with you 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
54560

CENSED

1/22/2024

Dexter Bacon, P.E. Chief Engineer



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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 5 Pavement Study project to be constructed at Baratheon and Lois Chesney Streets in Corpus Christi, Texas. Mr. Mossa Mostaghasi, representing MPM Homes, authorized PSI's services on November 20, 2023, by signing PSI Proposal No. 412319 dated November 9, 2023. PSI's proposal contained a proposed scope of work, 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 Kings Landing Unit 5 Construction Plans, dated 10/19/2023, and prepared by Bass & Welsh Engineering, a summary of our understanding of the proposed project is provided in the following table.

TABLE 1.1: GENERAL PROJECT DESCRIPTION

Project Description	Kings Landing Unit 5 Geotechnical Study for RCC Pavement Design
Existing Grade Change within Project Site	Approximately 3 feet
Design Traffic Load	50,000 for Local Residential Section L-1 (A-B) 1,200,000 for Minor Residential Collector (RC1) 1,200,000 for Collector (C1)

The geotechnical recommendations presented in this report are based on the available project information, structure locations, and the subsurface materials described in this report. If any of the noted information given is 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 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:

- Desktop review of generally available public information; i.e., NRCS, USGS databases.
- Field exploration consisting of drilling and sampling of the subsurface materials and observation of current groundwater levels at the site.
- Laboratory testing of the subsurface materials.



• Performing engineering analysis and providing geotechnical recommendations in written report format.

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. Any 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 and other available information.

TABLE 2.1: SITE DESCRIPTION

Site Location	Baratheon St. and Lois Chesney Street, Corpus Christi, Nueces County, Texas
Site History	Agricultural Land
Existing Site Ground Cover	Cultivated Fields
Site Boundaries/Neighboring Development	Kings Landing Subdivision and farmland

2.2 FIELD EXPLORATION

Field exploration for the project consisted of drilling a total of 13 borings. The boring design element, boring labels, and approximate depths are provided in the following table.

TABLE 2.2: FIELD EXPLORATION SUMMARY

Design Element	Boring Label	Approx. Depth of Boring
Residential Streets	B-1 thru B-13	10 feet

The boring locations were selected by PSI personnel and were located in the field using available landmarks and GPS coordinates using a recreational-grade device. Elevations of the ground surface at the boring locations were not provided to PSI and should be surveyed by others, if required. Therefore, 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 Equipment
Drilling Method	Continuous-Flight Auger
Drilling Procedure	Applicable ASTM and PSI Safety Manual
Field Testing Procedures	Hand Penetrometer Standard Penetration Testing (ASTM D1586)
Sampling Procedure	Split-Barrel Sampling of Soils (ASTM D1586) Thin-Walled Tube Sampling of Soils (ASTM D1587)
Frequency of Groundwater Level Measurements	Initial Reading and After Drilling Reading



Boring Backfill Procedures	Soil Cuttings
Sample Preservation and Transportation Procedure	General accordance with ASTM D4220

During the field activities, the encountered subsurface conditions were observed, logged, and visually classified (in general accordance with ASTM D2488). 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:

- Moisture Content Tests (ASTM D2216)
- Atterberg Limits (ASTM D4318)
- Material Finer than No. 200 (ASTM D1140)
- Unconfined Compression Strength Test (ASTM D2166)

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

2.4 SITE GEOLOGY

As shown on the <u>Geologic Atlas of Texas</u>, <u>Corpus Christi Sheet</u>, reprinted in 1979, the site is located in an area where the <u>Beaumont Formation (Qb)</u> is mapped at or near the ground surface. The formation is from the Quaternary Period and Holocene Epoch. This formation consists of mostly clay, silt, sand and gravel with stream channels, point bars, natural levees and backswamp deposits.

2.5 SUBSURFACE CONDITIONS

The results of the field and laboratory testing have been used to develop a generalized surface profile of the project site. The following subsurface descriptions highlight the major subsurface stratification features and material characteristics. This soil profile description has been summarized in the following table.

TABLE 2.4: GENERALIZED SOIL PROFILE

Layer	•	th of er (ft) Bot.	Soil Type	LL (%)	PI	% Pass. #200	Range Hand Pen (tsf)	Avg. Hand Pen. (tsf)
1	0	10	Fat Clay	79	55	91	1.0 – 3.0	1.9

Note:

ω: Moisture Content

LL: Liquid Limit

PI: Plasticity Index

% Pass. #200: Percent Passing the No. 200 Sieve by Wash Hand Pen: Field Hand Penetrometer (tons per square foot)



The boring logs included in the Appendix should be reviewed for information at the boring locations. The boring logs include soil descriptions, stratifications, locations of the samples, and field and laboratory test data. The stratifications shown on the boring logs only represent the conditions the specific boring location and represent the approximate boundaries between subsurface materials. The actual transitions between strata may be more gradual or more 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. **No groundwater was encountered** during our drilling and sampling activities.

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. If more detailed water level information is required, observation wells or piezometers should be installed at the site, and water levels monitored.

The groundwater levels presented in this report are the levels that were measured at the time of our field activities. The contractor should be prepared to control groundwater, if encountered, during construction.



3.0 GEOTECHNICAL EVALUATION AND RECOMMENDATIONS

3.1 GEOTECHNICAL DISCUSSION

PSI understands that the City of Corpus Christi pavement design requirements for the new pavements within the subdivision be designed for 50,000 18-kip Equivalent Single Axle Loads with a 30-year design life.

Based upon the information obtained from the soil borings and laboratory testing, the clay soils encountered at this site within the seasonally active zone, estimated to be 10 feet below existing grade, have a **high potential** for expansion. The expansive potential (i.e. "Potential Vertical Movement" or PVM) of these soils should be addressed in the design and construction of this project.

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 review the changes to determine if modifications of the recommendations presented in this report will be required. The findings of such a review will be presented in a supplemental report. Once final design plans and specifications are available, a general review by PSI is recommended to verify that the earthwork and pavement recommendations presented in this report have been 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. 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 pavement systems. Various shrink/swell movement procedures and the Texas Department of Transportation (TxDOT) test method TEX-124-E, were used to estimate the Potential Vertical Movement (PVM) for this location.

3.2.1 SHRINK/SWELL MOVEMENT (PVM) ESTIMATE

Based on laboratory testing results and our analyses, the potential vertical movement was estimated to be approximately **4 inches** $\pm \frac{1}{2}$ **inch**.

It is not possible to accurately quantify actual soil moisture changes and resulting shrink/swell movements. The PVM and referenced structural movement values provided should be considered 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, poor drainage (possibly due to landscape changes after construction), perched groundwater infiltration, springs, etc. Therefore, because of these unknown factors, the shrink/swell potential of soils can often be significantly underestimated using the previously mentioned methods of evaluating PVM.

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 exceeding those estimated should be anticipated and routine maintenance should be provided to address these issues throughout the life of the pavements.



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 be embedded in 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 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 following 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, Ko
Fat Clay (CH and CL)	"B"	0.60
Fat and Lean Clay below		
10 feet (CH and CL),	"C"	0.60
Clayey Sands (SC)		

A lateral earth pressure of 120 pcf*Ko*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 pcf * (X) for that portion of the shoring below the groundwater table.



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 pavement design requirements of 50,000 18-kip Equivalent Single Axle Loads (ESALs) and a 30-year design life. 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 Local Residential Section L-1 (A-B) 70 for Minor Residential Collector (RC1) 80 for Collector (C1)
Design Life	30 Years
Initial Serviceability Index	4.5
Terminal Serviceability Index	2.5
Traffic Load (ESALs) from IDM	50,000 for Local Residential Section L-1 (A-B) 1,200,000 for Minor Residential Collector (RC1) 1,200,000 for Collector (C1)
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	110 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.

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 1 foot 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 the 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.

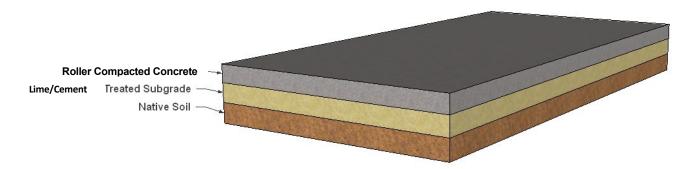


FIGURE 4.1: ROLLER COMPACTED CONCRETE PAVEMENT TYPICAL SECTION

TABLE 4.2: ROLLER COMPACTED CONCRETE PAVEMENT DESIGN THICKNESS

MaterialThickness (in)Local Residential (Section L-1 (A-B))Minor Residential Collector (RC1)RCC Pavements6.57.07.5Lime/Cement Treated Subgrade8812

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 the paving limits								
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								
Minimum General Fill Thickness	As required to achieve grade								
Maximum General Fill Loose Lift Thickness	9 Inches								
Lime/Cement Treatment (3% lime/5% Cement)	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 3%. 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 Corpus Christi 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 the 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 ¼ 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 On-site Soil (Subgrade)	ASTM D698	≥ 95%	0 to +4%	1 per 7,500 SF; min. 3 tests
	General Fill (Onsite Material)	ASTM D698	≥ 95%	0 to +4%	1 per 10,000 SF; min. 3 per lift
	RCC Pavement	ASTM D1557	≥ 95%		Single Lift 1 per 500 CY or
	RCC Pavement	ASTM 1170	≥ 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

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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 for 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 any 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.

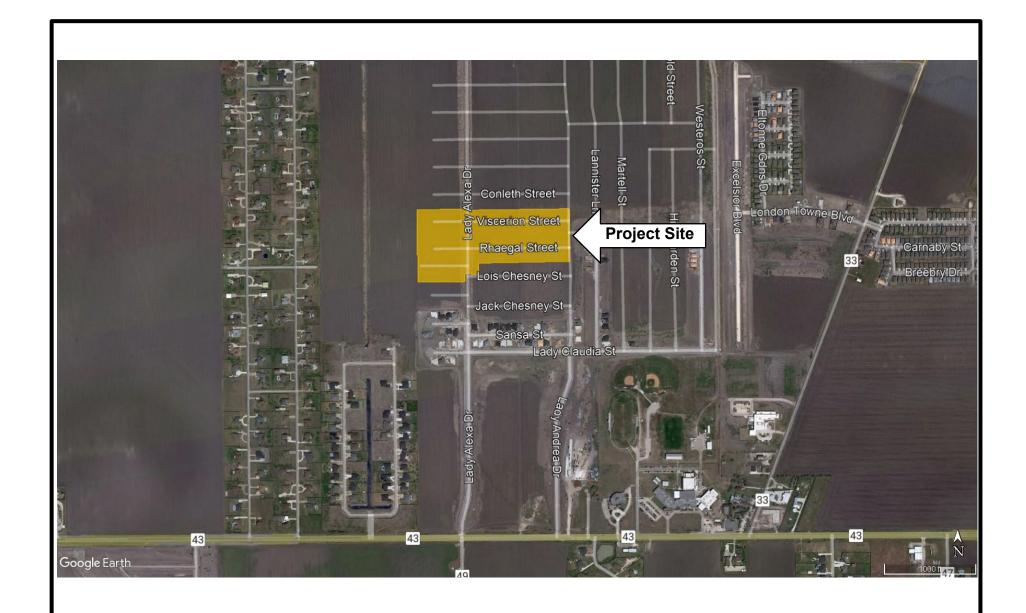
The Geotechnical Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional Geotechnical Engineering practices in the local area. No other warranties are implied or expressed. This report 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 for specific application to the proposed King's Landing Unit 5 Pavement Study to be constructed at CR 49 at FM 43 (Weber Road), Corpus Christi, Nueces County, Texas.









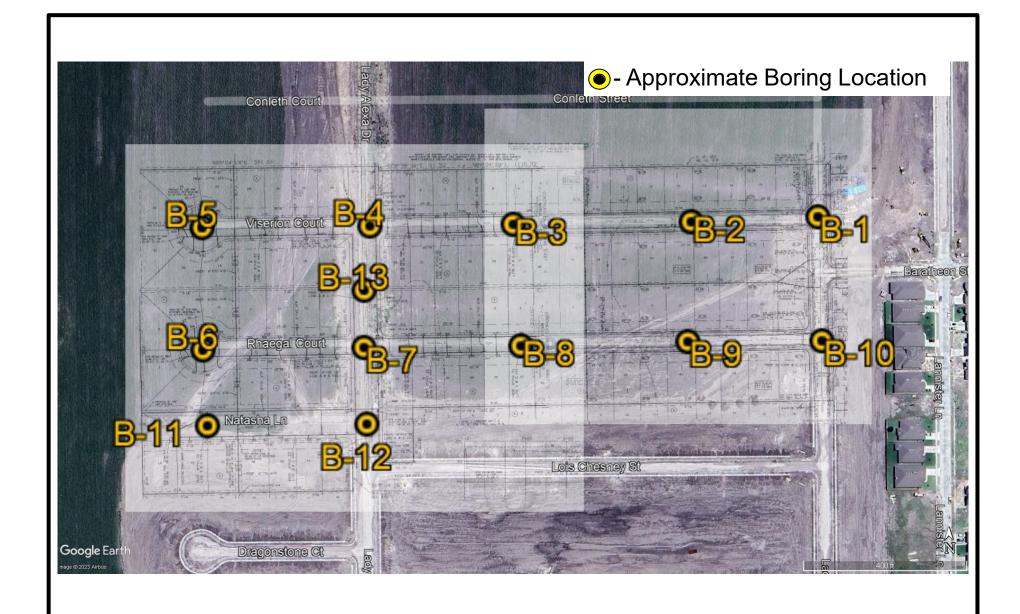
2020 N Loop 499, Ste 302, Harlingen, Texas (956) 423-6826

Site Vicinity Map

Proposed Kings Landing Unit 5 Baratheon St. Nueces county, Texas PSI Project No.: 0312-3040

NOT TO SCALE







2020 N Loop 499, Ste 302, Harlingen, Texas (956) 423-6826

Boring Location Plan

Proposed Kings Landing Unit 5 Baratheon St. Nueces county, Texas PSI Project No.: 0312-3040

NOT TO SCALE



BORING B-1

LOCATION: See Boring Location Plan

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BORING B-2

LOCATION: See Boring Location Plan

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BORING B-3

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BORING B-4

LOCATION: See Boring Location Plan

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Kings Landing Unit 5 Pavement Baratheon Street

Project No. 0312-3040

BORING B-5 LOCATION: See Boring Location Plan % PASSING #200 % RETAINED #4 ○ HAND PEN (TSF) ■ UNC CMP (TSF) PLASTIC LIMIT UNCONF. COMP. (TSF) TOTAL DRY WT. (LB/CU FT) PLASTICITY INDEX LIQUID LIMIT MOISTURE CONTENT DEPTH, FT. SPT (N) & TCP (T) VALUES SYMBOL SAMPLES 2.0 4.0 6.0 WATER % REC %RQD SOIL DESCRIPTION WC LL **X** 20 60 Elevation: FAT CLAY (CH) brown, stiff 37 41 33 93 24 56 80 28 30 Boring terminated at approximate 10 COMPLETION DEPTH: 10.0 Feet **DEPTH TO GROUND WATER** DATE: 12/14/23-12/14/23 SEEPAGE (ft.): NONE ENCOUNTERED END OF DRILLING (ft.): N/A DELAYED WATER LEVEL (FT): N/A

Kings Landing Unit 5 Pavement **Baratheon Street**

Project No. 0312-3040 **BORING B-6**

LOCATION: See Boring Location Plan % PASSING #200 % RETAINED #4 ○ HAND PEN (TSF) ■ UNC CMP (TSF) PLASTIC LIMIT UNCONF. COMP. (TSF) TOTAL DRY WT. (LB/CU FT) PLASTICITY INDEX LIQUID LIMIT MOISTURE CONTENT DEPTH, FT. SPT (N) & TCP (T) VALUES SYMBOL SAMPLES 2.0 4.0 6.0 WATER % REC %RQD SOIL DESCRIPTION WC LL 20 **X** 40 60 Elevation: FAT CLAY (CH) brown, stiff to very 36 φ 41 92 28 69 Φ 97 38 31 30 **★**Φ Boring terminated at approximate 10 COMPLETION DEPTH: 10.0 Feet **DEPTH TO GROUND WATER** DATE: 12/14/23-12/14/23

SEEPAGE (ft.): NONE ENCOUNTERED END OF DRILLING (ft.): N/A DELAYED WATER LEVEL (FT): N/A

BORING B-7

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Kings Landing Unit 5 Pavement Baratheon Street

Project No. 0312-3040

BORING B-8 LOCATION: See Boring Location Plan % PASSING #200 % RETAINED #4 ○ HAND PEN (TSF) ■ UNC CMP (TSF) PLASTIC LIMIT UNCONF. COMP. (TSF) TOTAL DRY WT. (LB/CU FT) PLASTICITY INDEX LIQUID LIMIT MOISTURE CONTENT DEPTH, FT. SPT (N) & TCP (T) VALUES SYMBOL SAMPLES 2.0 4.0 6.0 WATER % REC %RQD SOIL DESCRIPTION WC LL 20 **X** 60 Elevation: FAT CLAY (CH) brown, stiff 38 40 39 29 30 1 89 67 21 46 Φ Boring terminated at approximate 10 COMPLETION DEPTH: 10.0 Feet DEPTH TO GROUND WATER DATE: 12/14/23-12/14/23 SEEPAGE (ft.): NONE ENCOUNTERED END OF DRILLING (ft.): N/A DELAYED WATER LEVEL (FT): N/A

BORING B-9

	BURING B-9 LOCATION: See Boring Location Plan													
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BORING B-10

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BORING B-11

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BORING B-12

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BORING B-13

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1	intertek.	-				END	OF	DRI	LLIN	G (ft.): N/	Ά				
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KEY TO TERMS AND SYMBOLS USED ON LOGS

ROCK CLASSIFICATION

CONSISTENCY OF COHESIVE SOILS

RECOVERY

DESCRIPTION OF RECOVERY	% CORE RECOVERY
Incompetent	< 40
Competent	40 TO 70
Fairly Continuous	70 TO 90
Continuous	90 TO 100

ROCK QUALITY DESIGNATION (RQD)

DESCRIPTION OF ROCK QUALITY	RQD
Very Poor (VPo)	0 TO 25
Poor (Po)	25 TO 50
Fair (F)	50 TO 75
Good (Gd)	75 TO 90
Excellent (ExInt)	90 TO 100

N-VALUE (Blows/Foot)	SHEAR STRENGTH (tsf)	HAND PEN VALUE (tsf)
0 TO 2	0 TO 0.125	0 TO 0.25
2 TO 4	0.125 TO 0.25	0.25 TO 0.5
4 TO 8	0.25 TO 0.5	0.5 TO 1.0
8 TO 15	0.5 TO 1.0	1.0 TO 2.0
15 TO 30	1.0 TO 2.0	2.0 TO 4.0
>30	>2.0 OR 2.0+	>4.0 OR 4.0+
	(Blows/Foot) 0 TO 2 2 TO 4 4 TO 8 8 TO 15 15 TO 30	(Blows/Foot) (tsf) 0 TO 2 0 TO 0.125 2 TO 4 0.125 TO 0.25 4 TO 8 0.25 TO 0.5 8 TO 15 0.5 TO 1.0 15 TO 30 1.0 TO 2.0

SOIL DENSITY OR CONSISTENCY

DENSITY (GRANULAR)	CONSISTENCY (COHESIVE)	THD (BLOWS/FT)	FIELD IDENTIFICATION
Very Loose (VLo)	Very Soft (VSo)	0 TO 8	Core (height twice diameter) sags under own weight
Loose (Lo)	Soft (So)	8 TO 20	Core can be pinched or imprinted easily with finger
Slightly Compact (SICmpt)	Stiff (St)	20 TO 40	Core can be imprinted with considerable pressure
Compact (Cmpt)	Very Stiff (VSt)	40 TO 80	Core can only be imprinted slightly with fingers
Dense (De)	Hard (H)	80 TO 5"/100	Core cannot be imprinted with fingers but can be penetrated with pencil
Very Dense (VDe)	Very Hard (VH)	5"/100 to 0"/100	Core cannot be penetrated with pencil

DEGREE OF PLASTICITY OF COHESIVE SOILS

DEGREE OF PLASTICITY	PLASTICITY INDEX (PI)	SWELL POTENTIAL
None or Slight	0 to 4	None
Low	4 to 20	Low
Medium	20 to 30	Medium
High	30 to 40	High
Very High	>40	Very High

BEDROCK HARDNESS

MORHS' SCALE	CHARACTERISTICS	EXAMPLES	APPROXIM PEN 1	
5.5 to 10	Rock will scratch knife	Sandstone, Chert, Schist, Granite, Gneiss, some Limestone	Very Hard (VH)	0" to 2"/100
3 to 5.5	Rock can be scratched with knife blade	Siltstone, Shale, Iron Deposits, most Limestone	Hard (H)	1" to 5"/100
1 to 3	Rock can be scratched with fingernail	Gypsum, Calcite, Evaporites, Chalk, some Shale	Soft (So)	4" to 6"/100

MOISTURE CONDITION OF COHESIVE SOILS

DESCRIPTION	CONDITION
Absence of moisture, dusty, dry to touch	DRY
Damp but no visible water	MOIST
Visible free water	WET

RELATIVE DENSITY FOR GRANULAR SOILS

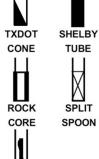
SPT (BLOWS/FT)	CALIFORNIA SAMPLER (BLOWS/FT)	MODIFIED CA. SMAPLER (BLOWS/FT)	RELATIVE DENSITY (%)
0 to 4	0 to 5	0 to 4	0 to 15
4 to 10	5 to 15	5 to 12	15 to 35
10 to 30	15 to 40	12 to 35	35 to 65
30 to 50	40 to 70	35 to 60	65 to 85
>50	>70	>60	85 to 100
-	(BLOWS/FT) 0 to 4 4 to 10 10 to 30 30 to 50	(BLOWS/FT) SAMPLER (BLOWS/FT) 0 to 4 0 to 5 4 to 10 5 to 15 10 to 30 15 to 40 30 to 50 40 to 70	(BLOWS/FT) SAMPLER (BLOWS/FT) SMAPLER (BLOWS/FT) 0 to 4 0 to 5 0 to 4 4 to 10 5 to 15 5 to 12 10 to 30 15 to 40 12 to 35 30 to 50 40 to 70 35 to 60

SAMPLER TYPES



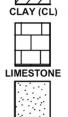
APPARENT DESNITY	SPT (BLOWS/FT)	CALIFORNIA SAMPLER (BLOWS/FT)	MODIFIED CA. SMAPLER (BLOWS/FT)	RELATIVE DENSITY (%)
Very Loose	0 to 4	0 to 5	0 to 4	0 to 15
Loose	4 to 10	5 to 15	5 to 12	15 to 35
Medium Dense	10 to 30	15 to 40	12 to 35	35 to 65
Dense	30 to 50	40 to 70	35 to 60	65 to 85
Very Dense	>50	>70	>60	85 to 100

NO SAMPLE 0 NO **RECOVERY**



AUGER

SAMPLE



SAND

ASPHALT

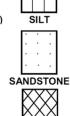


SHALE

GRAVEL

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CONCRETE



FII I

CHALK



ABBREVIATIONS

PL - Plastic Limit

Q_P - Hand Penetrometer

LL - Liquid Limit WC - Percent Moisture

Q_U- Unconfined Compression Test UU - Unconsolidated Undrained Triaxial

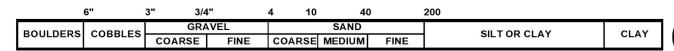
▼ WATER SEEPAGE

Note: Plot Indicates Shear Strength as Obtained By Above Tests

■ WATER LEVEL AT END OF DRILLING

U.S. STANDARD SIEVE SIZE(S)

CLASSIFICATION OF GRANULAR SOILS





A COMPLETE BUILDING SOLUTION

Everything you need from start to finish - Assurance, Testing, Inspection, and Certification



Environmental Consulting & Geotechnical Services

Assuring site and subsurface conditions meet the criteria for purchase, development and construction.

Building Systems Consulting Industry professionals provide

a variety of acoustic, fire, AV, roofing system and enclosure consulting services to ensure proper design and installation of a building's critical systems.

Decommissioning

& Due Diligence
Supporting the redevelopment and transfer of property assets via environmental and property assessments and engineering services.

Building Product & Construction Materials

Testing
Providing testing for virtually all types of building products, construction materials, and systems for safety, retail, code, and performance purposes.

Property Management Support Services

Providing a variety of building systems testing, inspection, and consulting services to optimize the value and life of the property asset.



Product Certification & Code Evaluation The ETL and Warnock

Hersey Marks show a product or system's conformance to code and ensures the on-going verification of compliance.



leakage, and structural performance for fenestration) or in lab validation of a curtain wall's design, workmanship, and material selection to ensure its performance.





Field Labeling

Providing on-site services of opening systems that need to be re-labeled or making recommendations for upgraded materials.

Building Enclosure Commissioning

Design and construction professionals provide solutions to reduce the potential for premature building failure, increase a building's energy efficiency, and expected life cycle.

Industrial Hygiene Services Assessing a building or facility for

a variety of sources (air, asbestos, lead, mold) to minimize the risk of factors adverse to human health.





The ever increasing challenges of designing, constructing, and maintaining a building can be difficult for any organization to navigate. From compliance to local and national codes, to ensuring an efficient design, to property management, Intertek-PSI's team of architects, engineers, scientists, and technicians understand firsthand the complexities of successfully constructing a commercial building. Our full suite of services give us unique insight into all phases of a project. Regardless of the project size or complexity, Intertek-PSI delivers engineering, consulting, and testing services to support site selection, design, construction, and property management.

As a leader in providing comprehensive solutions to industries around the globe, Intertek-PSI prides itself on bringing the expertise and services necessary for our clients to meet all of their needs across their entire operation. **Our Assurance, Testing, Inspection, and Certification (A.T.I.C.)** suite of services ensures that whatever your needs may be – assurance, testing, inspection, certification, or all of the above, that those needs will be met by Intertek-PSI.



800.WORLD.LAB



icenter@intertek.com



intertek.com/building







A diverse range of services from geotechnical investigations, due diligence, industrial hygiene, and site surveys, for your building environment.



Design Phase

Our expertise offers engineering, consulting, evaluation, and peer review to ensure a well designed project.



Building Product & Construction Materials

The most comprehensive suite of testing and certification services for construction materials and building products.



Construction Project

Vital services throughout the construction process including inspection, testing, monitoring, mock-ups, and consulting.



Building Maintenance

Evaluation of a building's condition through inspection and testing, investigation, and remediation plan development.



Decommissioning & Transfer

Services that expedite and ensure compliance of the transfer or decommissioning of property or building.

3054 S. Alameda St. Corpus Christi, TX 78404

P.O. Box 6397 Corpus Christi, TX 78466-6397

9/19/2024

KING'S LANDING UNIT 5 - REIMBURSEMENT COST ESTIMATE LADY ALEXA DR. & NATASHA DR. (C3 TO RESIDENTIAL 28'BB)

LADY ALEXA DR.

COST OF 50' BB ASPHALT STREET (C3)					
ITEM	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
1	8" PCCP/RRCP TO LIP OF GUTTER	3968	SY	90.00	357,119.60
2	12" LIME STABILIZED SUBGRADE TO 2' BC	4289	SY	42.00	180,125.68
3	12" PORTLAND CEMENT STABILIZED SUBGRADE TO 2' BC	4289	SY	30.00	128,661.20
4	EXCAVATION TO 2' BC	4280	SY	3.00	12,840.00

\$678,746.48

COST OF	28' BB STREET				
ITEM	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
1	7" PCCP/RRCP TO LIP OF GUTTER	2218	SY	69.00	153,047.06
2	8" LIME STABILIZED SUBGRADE TO 2' BC	2535	SY	26.00	65,910.75
3	8" PORTLAND CEMENT STABILIZED SUBGRADE TO 2' BC	2535	SY	20.00	50,700.58
4	EXCAVATION TO 2' BC	2535	SY	3.00	7,605.09

\$277,263.48

DIFFERENCE IN CONSTRUCTION COST OF LADY ALEXA DR \$401,483.00

NATASHIA DR.

COST OF	50' BB ASPHALT STREET (C3)				
ITEM	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
1	8" PCCP/RRCP TO LIP OF GUTTER	2755	SY	90.00	247,950.00
2	12" LIME STABILIZED SUBGRADE TO 2' BC	3165	SY	42.00	132,930.00
3	12" PORTLAND CEMENT STABILIZED SUBGRADE TO 2' BC	3165	SY	30.00	94,950.00
4	EXCAVATION TO 2' BC	3165	SY	3.00	9,495.00

\$485,325.00

COST OF	28' BB STREET				
ITEM	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
1	7" PCCP/RRCP TO LIP OF GUTTER	1465	SY	69.00	101,085.00
2	8" LIME STABILIZED SUBGRADE TO 2' BC	1875	SY	26.00	48,750.00
3	8" PORTLAND CEMENT STABILIZED SUBGRADE TO 2' BC	1875	SY	20.00	37,500.00
4	EXCAVATION TO 2' BC	1875	SY	3.00	5,625.00

\$192,960.00

\$292,365.00

TOTAL FOR CITY PORTION OF LADY ALEXA AND NATASHA	\$693,848.00
13% ENGINEERING, SURVEYING, & TESTING	\$90,200.24
7% CONTINGENCY	\$48,569.36
2% BOND	\$13,876.96

DIFFERENCE IN CONSTRUCTION COST OF NATASHA DR

TOTAL AMOUNT REIMBURSABLE \$846,494.57

PERFORMANCE BOND

BOND NO._____

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

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	Surety
Signature:	Signature:
Name:	Name:
Title:	Title:
Email Address:	Email Address:
	(Attach Power of Attorney and place surety seal below)

END OF SECTION

PAYMENT BOND

BOND NO._____

Developer as Principal	Surety
Name:	Name:
Mailing address (principal place of business):	Mailing address (principal place of business):
City Name: City of Corpus Christi, Texas	Physical address (principal place of business):
Mailing address (principal place of business):	
City of Corpus Christi Attn: Director, Development Services Department 2406 Leopard Street	Surety is a corporation organized and existing under the laws of the state of:
Corpus Christi, Texas 78401	By submitting this Bond, Surety affirms its authority to do business in the State of Texas and its license
Contract	to execute bonds in the State of Texas.
Title of Agreement:	Telephone (main number):
For Subdivision:	Telephone (for notice of claim):
	Local Agent for Surety
	Name:
Award Date of the Contract:	Address:
Total Project Cost/Bond Sum:	
Bond	Telephone: E-Mail Address:
Date of Bond:	
(Date of Bond cannot be earlier than Award Date of Contract)	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

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	Surety
Signature:	Signature:
Name:	Name:
Title:	Title:
Email Address:	Email Address: (Attach Power of Attorney and place surety seal below)

END OF SECTION

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT MPM Development, LP, a Texas Limited Partnership, whose address is 426 S.
Staples, Corpus Christi, TX 78401, as Principal and, a
corporation organized under the laws of,
and fully authorized to transact business in the State of Texas, as Surety, do hereby
expressly acknowledge themselves to be held and bound to pay unto the City of Corpus
Christi, a municipal corporation, of the County of Nueces and the State of Texas, the
sum of
dollars (\$ in
lawful money of the United States, for the payment of which sum will truly be made unto said City of Corpus Christi, and its successors, and said Principal and Surety do hereby bind themselves, their assigns and successors jointly and severally. This bond shall automatically be increased by the amount of any increase in the work to be performed, but in no event shall there be a decrease in the sum of this Bond.
THIS obligation is conditioned; however, that whereas, said MPM Development, LP has this day of, 202 entered into a written contract with the said City of Corpus Christi to build and construct all Roadway Improvements within Kings Landing Unit 5 subdivision with Roller Compacted Concrete pavement in conformance with the standards established by the PILOT PROGRAM FOR ROLLER COMPACTED CONCRETE ROADWAY IMPROVEMENTS AND PARTICIPATION AGREEMENT FOR KINGS LANDING SUBDIVISION, which contract and the plans and specifications therein mentioned is hereby expressly made a part of this bond as though the same were written embodied herein.

WHEREAS, Principal binds itself to use of materials and methods of construction such that all roadway improvements will be initially completed free of perceptible defects and will remain in good repair and condition and free of perceptible defects for and during the period of seven (7) years after the date of acceptance of the completed improvements by the City of Corpus Christi, and

WHEREAS, said Principal binds itself to construct said improvements in such a manner and obtain inspection approvals in proper sequence as are required to obtain acceptance by the City of Corpus Christi and to repair or reconstruct the said improvements in whole or in part at any time within said seven (7) years period to such an extent as the City of Corpus Christi deems necessary to properly correct all defects except those which have been caused by circumstances and conditions occurring after the time of construction over which the Principal had no control and which are other than those arising from defect of construction by the Principal; and,

WHEREAS, under the plans, specifications, and contract, it is provided that the Principal will maintain and keep in good repair, the work herein contracted to be done and performed, for a period of seven (7) year from the date of the acceptance of said work, and to do all necessary maintenance, repairing, reconstructing and/or replacement in whole or in part of said improvements that should be occasioned by settlement of foundation, defective workmanship or materials furnished in the construction or any part thereof or any of the accessories thereto constructed by the Principal. It being understood that the purpose of this section is to cover all defective conditions arising by reason of defective material and charge the same against the said Principal, and Surety on this obligation, and the said Principal Surety hereon shall be subject to the liquidation damages mentioned in said contract for each day's failure on its part to comply with the terms of said provisions of said contract.

NOW THEREFORE, if the said Principal shall keep and perform its said agreement to maintain said work and keep the same in repair for the said maintenance period of seven (7) year, as provided, then these presents shall be null and void, and have not further effect, but if default shall be made by said Principal in the performance of its contract to so maintain, repair, reconstruct, and/or replace said work, then these presents shall have full force and effect, and said City of Corpus Christi shall have and recover from the said Principal and its Principal and Surety damages in the premises, as provided; and it is further agreed that this obligation shall be continuing one against the Principal and Surety, hereon, and that successive recoveries may be and had hereon for successive breaches until the full amount shall have been exhausted; and it is further understood that the obligation herein to maintain said work shall continue throughout said maintenance period, and the same shall not be changed, diminished or in any manner affected from any cause during said time.

PROVIDED FURTHER, that if any legal action be filed upon this Bond, exclusive venue shall lie in Nueces County, State of Texas. The construction of this agreement and the rights remedies, and obligations arising there under are governed by the laws of the State of Texas. Both Principal and Surety hereby agree that the Texas conflicts of law rules do not control this agreement and will not be used to cause the application of the laws of a jurisdiction other than the State of Texas. The obligations performable by both Principal and Surety are performable in Corpus Christi, Nueces County, Texas.

AND PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms the Work to be performed thereunder or the specifications accompanying the same shall in anyway 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 work or to the specifications.

executed by and the saidexecuted by its attorney in fact and the said hand, the	has caused these presents to be attorney in fact,, has hereunto set his
Principal	Surety
Ву:	Ву:
Title:	Title: Attorney-in-Fact
Address:	Address:
The name, address, and phone number of th office):	e Resident Agent of Surety is: (must be Texas
-	
*Power of Attorney attached	

INSURANCE REQUIREMENTS

I. DEVELOPER'S AND OR CONTRACTOR'S LIABILITY INSURANCE

- A. Developer and or Contractor shall not commence work under this agreement until all insurance required herein has been obtained and approved by the City's Risk Manager or designee. Developer and or Contractor must not allow any subcontractor to commence work until all similar insurance required of the subcontractor has been so obtained.
- B. Developer and or Contractor shall furnish to the Risk Manager or designee two (2) copies of Certificates of Insurance, with applicable policy endorsements showing the following minimum coverage by an insurance company(s) acceptable to the Risk Manager or designee. The City must be named as an additional insured for the General Liability policy, and a waiver of subrogation is required on all applicable policies.

TYPE OF INSURANCE	MINIMUM INSURANCE COVERAGE
30-Day Notice of Cancellation required on all certificates or by policy endorsement(s)	Bodily injury and Property Damage Per Occurrence / aggregate
Commercial General Liability including: 1. Broad Form 2. Premises – Operations 3. Products/Completed Operations Hazard 4. Contractual Liability 5. Broad Form Property Damage 6. Independent Developer and or Contractors 7. Underground Hazard (if applicable)	\$1,000,000 Per Occurrence
AUTO LIABILITY (including) 1. Owned 2. Hired and Non-Owned 3. Rented/Leased	\$500,000 Combined Single Limit
WORKERS' COMPENSATION	Statutory
EMPLOYER'S LIABILITY	\$500,000 /\$500,000 /\$500,000
POLLUTION LEGAL LIABILITY Including: Sudden and Accidental Pollution Coverage. Cleanup and Remediation.	\$1,000,000 Per Claim (Defense costs not included in face value of the policy) If claims made policy, retro date must be prior to inception of agreement, have extended reporting period provisions and identify any limitations regarding who is insured.

C. In the event of accidents of any kind related to this project, Developer and or Contractor shall furnish the Risk Manager with copies of all reports of such accidents within ten (10) days of the accident.

II. ADDITIONAL REQUIREMENTS

- A. Developer and or Contractor must obtain workers' compensation coverage through a licensed insurance company in accordance with Texas law. The contract for coverage must be written on a policy and endorsements approved by the Texas Department of Insurance. The coverage provided must be in amounts sufficient to assure that all workers' compensation obligations incurred will be promptly met.
- B. Developer and or Contractor shall obtain and maintain in full force and effect for the duration of this Contract, and any extension hereof, at Developer and or Contractor's sole expense, insurance coverage written on an occurrence basis, by companies authorized and admitted to do business in the State of Texas and with an A.M. Best's rating of no less than A- VII.
- C. The City shall be entitled, upon request and without expense, to receive copies of the policies, declarations page and all endorsements thereto as they apply to the limits required by the City. Developer and or Contractor shall be required to comply with any such requests and shall submit a copy of the replacement certificate of insurance to City at the address provided below within 10 days of the requested change. Developer and or Contractor shall pay any costs incurred resulting from said changes. All notices under this Article shall be given to City at the following address:

City of Corpus Christi Attn: Risk Manager P.O. Box 9277 Corpus Christi, TX 78469-9277

- D. Developer and or Contractor agrees that with respect to the above required insurance, all insurance policies are to contain or be endorsed to contain the following required provisions:
 - Name the City and its officers, officials, employees, volunteers, and elected representatives as additional insured by endorsement, as respects operations and activities of, or on behalf of, the named insured performed under contract with the City, with the exception of the workers' compensation policy;
 - Provide for an endorsement that the "other insurance" clause shall not apply to the City of Corpus Christi where the City is an additional insured shown on the policy;
 - Workers' compensation and employers' liability policies will provide a waiver of subrogation in favor of the City; and
 - Provide thirty (30) calendar days advance written notice directly to City of any suspension, cancellation, non-renewal or material change in coverage, and not less than ten (10) calendar days advance written notice for nonpayment of premium.
- E. Within five (5) calendar days of a suspension, cancellation, or non-renewal of coverage, Successful Bidder shall provide a replacement Certificate of Insurance and applicable endorsements to City. City shall have the option to suspend Developer and or Contractor's performance should there be a lapse in coverage at any time during this contract. Failure to provide and to maintain the required insurance shall constitute a material breach of this contract.
- F. In addition to any other remedies the City may have upon Developer and or Contractor's failure to

provide and maintain any insurance or policy endorsements to the extent and within the time herein required, the City shall have the right to order Developer and or Contractor to stop work hereunder, and/or withhold any payment(s) which become due to Developer and or Contractor hereunder until Developer and or Contractor demonstrates compliance with the requirements hereof.

- G. Nothing herein contained shall be construed as limiting in any way the extent to which Developer and or Contractor may be held responsible for payments of damages to persons or property resulting from Developer and or Contractor's or its subDeveloper and or Contractor's performance of the work covered under this agreement.
- H. It is agreed that Developer and or Contractor's insurance shall be deemed primary and non-contributory with respect to any insurance or self insurance carried by the City of Corpus Christi for liability arising out of operations under this agreement.
- I. It is understood and agreed that the insurance required is in addition to and separate from any other obligation contained in this agreement.

2024 Insurance Requirements Exhibit Legal Dept. – Development Services Participation Agreement for Developers 06/07/2024 Risk Management – Legal Dept.



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

DISCLOSURE OF INTERESTS

IDM : CO C	Sole Owner Association Other
	_ offici
	LOSURE QUESTIONS
State the re	verse side of this page or attach separate sheet.
constituting 3% or more of the ownership i	the City of Corpus Christi having an "ownership interes
Ivallie	Job Title and City Department (if known)
N/A	N/A
State the names of each "official" of the	014.
of the ownership if	ne City of Corpus Christi having an "ownership interes
Name	Title
N/A	N/A
and the state of the ownership in	the above named "firm".
State the names of each "board member" constituting 3% or more of the ownership in Name Mossa Mostaghasi	Board, Commission, or Committee
Name Mossa Mostaghasi State the names of each employee or officer	Board, Commission, or Committee Capital Improvement Advisory Committee r of a "consultant" for the City of Corpus Christi who worke contract and has an "ownership interest" constituting 3% of firm".
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DEFINITIONS

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