WASTEWATER TRUNK LINE SYSTEM CONSTRUCTION AND REIMBURSEMENT AGREEMENT

STATE OF TEXAS §

COUNTY OF NUECES §

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

WHEREAS, the Developer/Owner, in compliance with the City's Unified Development Code ("UDC"), has a plat, approved by the Planning Commission on January 24, 2024 to develop a tract of land, to wit approximately 154.426 acres known as Haven Subdivision located northwest of the Haven Dr. and Warrior Rd intersection as shown in the attached Exhibit 1, the content of such exhibit being incorporated by reference into this Agreement;

WHEREAS, under the UDC, the Developer/Owner is responsible for construction of the Trunk Line ("Wastewater Improvements");

WHEREAS, under the UDC, the Developer/Owner is eligible for reimbursement of the Developer/Owner's costs for the construction of Wastewater Improvements;

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

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

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

WHEREAS, the Wastewater Trunk System Trust Fund does not currently have sufficient funds to fully reimburse Developer/Owner for Wastewater Improvements; and

WHEREAS, Developer/Owner may be paid when assets of the Wastewater Trunk System Trust Fund are sufficient, authorized for such purpose, and Developer/Owner has priority per UDC §8.5.2. E.

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

1. TRUSTEE LIABILITY.

a. The City is executing this agreement as trustee of the Wastewater Trust Fund pursuant to UDC §8.5. The City is acting as trustee to further its governmental

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

b. The Wastewater Sanitary Sewer Trunk Line Trust Fund was established by Ordinance No. 17396 to encouraging the orderly development of subdivisions within and surrounding the City of Corpus Christi, Texas and continues pursuant Texas Local Government Code §395.001(4)(C). The revenue generated for funding and continuation of the Wastewater Sanitary Sewer Trunk Line Trust Fund is subject to legislation of the State of Texas and the City of Corpus Christi. Nothing in this agreement guarantees neither the continuation nor future revenues of the Wastewater Sanitary Sewer Trunk Line Trust Fund. The City is not liable for modification or termination of the Wastewater Sanitary Sewer Trunk Line Trust Fund. The Developer/Owner agrees that any modification or termination of the Wastewater Sanitary Sewer Trunk Line Trust Fund is a legislative action and does not constitute a breach of trust, an act of bad faith, an intentional or reckless indifference to the interest of a beneficiary, or a profit derived by the trustee from a breach of trust.

2. PLANS AND SPECIFICATIONS.

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

Item	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL	
BID FORM						
A1	Mobilization	LS	1	\$ 50,000.00	\$ 50,000.00	
A2	Bonds and Insurance	LS	1	\$ 60,000.00	\$ 60,000.00	
A3	SWPPP plan	LS	1	\$ 15,000.00	\$ 15,000.00	
A4	SWPPP BMPs	LS	1	\$ 6,000.00	\$ 6,000.00	
A5	Silt Fence	LF	3739	\$ 8.00	\$ 29,912.00	
A6	Replace Stop Sign	EA	1	\$ 850.00	\$ 850.00	
A7	Traffic Control Plan	LS	1	\$ 15,000.00	\$ 15,000.00	
A8	Temporary Traffic Control Installation and Maintenance	LS	1	\$ 10,000.00	\$ 10,000.00	
A9	Full Depth HMAC Pavement Repair	SY	40	\$ 150.00	\$ 6,000.00	

A10	15" SDR-26 PVC Wastewater Main, Embedment, Trench, and Backfill	LF	3745	\$ 195.00	\$ 730,275.00
A11	4' Diameter Manhole (Up to 10' Depth)	EA	9	\$ 20,000.00	\$ 180,000.00
A12	4' Diameter Manhole (Additional Depth)	VF	20	\$ 7,500.00	\$ 150,000.00
A13	Tie-in Existing Manhole	EA	1	\$ 10,000.00	\$ 10,000.00
A14	Control of WW Flow	LS	1	\$ 15,000.00	\$ 15,000.00
A15	Dewatering	LF	3745	\$ 70.00	\$ 262,150.00
A16	OSHA Trench Safety for Structures	EA	10	\$ 3,500.00	\$ 35,000.00
A17	OSHA Trench Safety for Trench	EA	3745	\$ 9.00	\$ 33,705.00
	TOTAL				
	Contingency 10%:				
	Engineer 13%:				
				GRAND TOTAL	\$ 1,978,937.16

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

3. REIMBURSEMENT.

- a. The cost for the Wastewater Improvements is \$1,978,937.16. Subject to the conditions for reimbursement from the Wastewater Trunk Line System Trust Fund and the appropriation of funds, the City will reimburse the developer, the reasonable actual cost of the Wastewater Improvements up to an amount not to exceed \$1,978,937.16 as shown in the attached **Exhibit 4**, the contents of such exhibit being incorporated by reference into this Agreement.
- b. Subject to the conditions for reimbursement from the Wastewater Trunk Line System Trust Fund per the UDC and this agreement, the City agrees to reimburse the Developer/Owner on a monthly basis upon invoicing for work performed. The submitted invoice shall be deemed administratively complete by the City prior to payment. The reimbursement will be made no later than 30 days from the date of the City's administrative approval of the invoice. Developer/Owner shall submit all required performance bonds and proof of required insurance under the provisions of this Agreement.

- c. Cost-supporting documentation to be submitted shall include:
 - 1. Summary of Costs and Work Performed on Form provided by the Development Services Department.
 - 2. Contractor and professional services invoices detailing work performed.
 - 3. The first reimbursement request requires submittal of invoices for work performed. Future disbursements shall provide evidence of payment by the developer/owner through a cancelled check or bank ACH for the previous submittal. The final reimbursement request shall require evidence that all invoices to date have been paid.
- d. To be eligible for reimbursement, the work must be constructed in a good and workmanlike manner and must have been inspected and accepted by the City. The City agrees to conduct periodic inspections and approve the progress of the work at key points during construction.
- e. The final 5% of the total contract reimbursement amount will be held as retainage until such time the City issues acceptance of public infrastructure in accordance with Unified Development Code.
- f. In the event that this Agreement is terminated by the City as a result of an uncured default by the Developer/Owner and at a time when there has been a partial completion and/or partial payment for the improvements, then the City shall only reimburse the Developer/Owner for its costs that were legitimately incurred towards the completion of the improvements that have been inspected and accepted by the City up to the time that the uncured default occurred.

4. PAYMENTS, CREDITS, AND DEFERRED REIMBURSEMENT.

- a. All payments, credits, priority of reimbursement, and deferred reimbursement shall be made in accordance with UDC §8.5. Developer/Owner understands and agrees that if funds are not available in the Wastewater Trunk System Trust Fund, that reimbursement will not be made until such funds are available, appropriated, and Developer/Owner has priority per UDC §8.5.2. Pursuant UDC §8.5.2. E., priority is determined according to the date the reimbursement agreement is approved by the City Council.
- b. Payments will not be paid when funds are not available in the Wastewater Trunk System Trust Fund. Payments may be made when monies are available in and appropriated from the Wastewater Trunk System Trust Fund and the Developer/Owner has priority in accordance with UDC §8.5.2. E.
- c. If the developer is owed funds from the Wastewater Trunk System Trust Fund, the developer will be given credit for lot or acreage fees that are due on subsequent final plats filed with the County Clerk in accordance with UDC §8.5.2. E. The amounts credited will be deducted from the outstanding amounts owed to the developer by the Wastewater Trunk System Trust Fund until the total amount owed has been paid, provided that the lands being platted are within or contiguous to the boundaries of the preliminary plat of the originally developed property, the land will be served by

the wastewater trunk line for which the credit was given, and an extension of the trunk line was not required to serve the land.

5. <u>DEVELOPER/OWNER TO COMPLETE IMPROVEMENTS</u>. Developer/Owner shall award a contract and complete the Wastewater Improvements under the approved plans and specifications within 24 months from the date of City Council approval of this agreement.

6. NOTICES.

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

MPM Development, LP P.O. Box 331308 Corpus Christi, Texas 78401

2. If to the City:

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

with a copy to:

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

- b. Notice must be made by United States Postal Service, First Class mail, certified, return receipt requested, postage prepaid; by a commercial delivery service that provides proof of delivery, delivery prepaid; or by personal delivery.
- c. Either party may change the address for notices by giving notice of the change under the provisions of this section.
- 7. <u>REQUIRED CONSTRUCTION</u>. Developer/Owner shall construct the Wastewater Improvements in compliance with the City's UDC, the City's Infrastructure Design Manual, and all local, state and federal laws, codes and regulations, in accordance with the plans and specifications submitted to the City's Development Services Department and reviewed and approved by the City's Development Services Engineer.
- 8. <u>SITE IMPROVEMENTS</u>. Prior to the start of construction of the Wastewater Improvements, Developer/Owner shall acquire and dedicate to the City the required additional public utility easements ("Easements"), if any, necessary for the completion of the Wastewater Improvements. If any of the property needed for the Easements is owned by a third party and

the Developer/Owner is unable to acquire the Easements through reasonable efforts, then the City may use its powers of eminent domain to acquire the Easements. Developer will be responsible for cost of acquisition, payable from the reimbursement agreed to in this agreement.

- 9. <u>PLATTING FEES</u>. Developer/Owner shall pay to the City the required acreage fees and prorata fees as required by the UDC.
- 10. TIME IS OF THE ESSENCE. Time is of the essence in the performance of this contract.
- 11. <u>PROMPT AND GOOD FAITH ACTIONS</u>. The parties shall act promptly and in good faith in performing their duties and obligations under this Agreement. If this Agreement calls for review or inspections by the City, then the City's reviews or inspections must be completed thoroughly and promptly.
- 12. DEFAULT. The following events shall constitute default:
 - a. Developer/Owner fails to engage a professional engineer for the preparation of plans and specifications by the 10th calendar day after the date of approval of this Agreement by the City Council.
 - b. Developer/Owner's professional engineer fails to submit the plans and specifications to the City's Director of Engineering Services by the 40th calendar day after the date of approval by City Council.
 - c. Developer/Owner fails to award a contract for the construction of the project, according to the approved plans and specifications, by the 70th calendar day after the date of approval by City Council.
 - d. Developer/Owner's contractor does not reasonably pursue construction of the Wastewater Improvements under the approved plans and specifications.
 - e. Developer/Owner's contractor fails to complete construction of the Wastewater Improvements, under the approved plans and specifications as provided in section 4 of this agreement.
 - f. Either the City or the Developer/Owner otherwise fails to comply with its duties or obligations under this Agreement.

13. NOTICE AND CURE.

- a. In the event of a default by either party under this Agreement, the non-defaulting party shall deliver notice of the default, in writing, to the defaulting party stating, in sufficient detail, the nature of the default and the requirements to cure such default.
- b. After delivery of the default notice, the defaulting party has 15 business days from the delivery of the default notice ("Cure Period") to cure the default.
- c. In the event the default is not cured by the defaulting party within the Cure Period, then the non-defaulting party may pursue its remedies in this section.

- d. Should Developer/Owner fail to perform any obligation or duty of this Agreement, the City shall give notice to Developer/Owner, at the address stated in section 6, of the need to perform the obligation or duty, and should Developer/Owner fail to perform the required obligation or duty within 15 days of receipt of the notice, the City may perform the obligation or duty, charging the cost of such performance to Developer/Owner by reducing the reimbursement amount due Developer/Owner.
- e. In the event of an uncured default by the Developer/Owner, after the appropriate notice and Cure Period, the City has all its common law remedies and the City may:
 - 1. Terminate this Agreement after the required notice and opportunity to cure the default:
 - 2. Refuse to record a related plat or issue any certificate of occupancy for any structure to be served by the project; and/or
 - 3. Perform any obligation or duty of the Developer/Owner under this Agreement and charge the cost of such performance to the Developer/Owner. The Developer/Owner shall pay to the City the reasonable and necessary cost of the performance within 30 days from the date the Developer/Owner receives notice of the cost of performance. In the event the Developer/Owner pays the City under the preceding sentence and is not otherwise in default under this Agreement, then the Agreement shall be considered in effect and no longer in default.
- f. In the event of an uncured default by the City after the appropriate notice and Cure Period, the Developer/Owner has all its remedies at law or in equity for such default.

14. FORCE MAJEURE.

- a. The term "force majeure" as employed in this Agreement means and refers to acts of God; strikes, lockouts, or other industrial disturbances; acts of public enemies; insurrections; riots; epidemics; landslides; lightning; earthquakes; fires; hurricanes; storms; floods; washouts; droughts; arrests; civil disturbances; explosions; or other causes not reasonably within the control of the party claiming the inability.
- b. If, by reason of force majeure, either party is rendered wholly or partially unable to carry out its obligations under this Agreement, then the party claiming force majeure shall give written notice of the full particulars of the force majeure to the other party within ten (10) business days after the occurrence or waive the right to claim it as a justifiable reason for delay. The obligations of the party giving the required notice, to the extent affected by the force majeure, are suspended during the continuance of the inability claimed but for no longer period, and the party shall endeavor to remove or overcome such inability with all reasonable dispatch.
- 15. <u>THIRD-PARTY BENEFICIARY</u>. Developer/Owner's contracts with the professional engineer for the preparation of the plans and specifications for the construction of the Wastewater Improvements, contracts for testing services, and contracts with the contractor for the construction of the Wastewater Improvements must provide that the City is a third-party beneficiary of each contract.

- 16. <u>PERFORMANCE AND PAYMENT BONDS</u>. Developer/Owner shall, before beginning the work that is the subject of this Agreement, furnish a performance bond payable to the City of Corpus Christi if the contract is in excess of \$100,000 and a payment bond if the contract is in excess of \$50,000. Bonds furnished must meet the requirements of Texas Insurance Code 3503, Texas Government Code 2253, and all other applicable laws and regulations. The performance or payment bond must name the City as an obligee. If the Developer/Owner is not an obligor, then Developer/Owner shall be named as a joint obligee. The bond must clearly and prominently display on the bond or on an attachment to the bond:
 - (1) the name, mailing address, physical address, and telephone number, including the area code, of the surety company to which any notice of claim should be sent; or
 - (2) the toll-free telephone number maintained by the Texas Department of Insurance under Subchapter B, Chapter 521, Insurance Code, and a statement that the address of the surety company to which any notice of claim should be sent may be obtained from the Texas Department of Insurance by calling the toll-free telephone number.
- 17. <u>DEDICATION OF WASTEWATER IMPROVEMENTS</u>. Upon completion of the construction, dedication of Wastewater Improvements will be subject to City inspection and approval.
- 18. <u>WARRANTY</u>. Developer/Owner shall fully warranty the workmanship of and function of the Wastewater Improvements and the construction thereof for a period of one year from and after the date of acceptance of the facilities by the City's Director of Engineering Services.
- 19. INDEMNIFICATION. Developer/Owner covenants to fully indemnify, save and hold harmless the City of Corpus Christi, its officers, employees, and agents, ("indemnitees") against any and all liability, damage, loss, claims, demands suits and causes of action of any nature whatsoever asserted against or recovered from city on account of injury or damage to person including, without limitation on the foregoing, workers compensation and death claims, or property loss or damage of any other kind whatsoever, to the extent any injury, damage, or loss may be incident to, arise out of, be caused by, or be in any way connected with, either proximately or remotely, wholly or in part, the Developer/Owner's failure to comply with its obligations under this agreement or to provide city wastewater service to the development, including injury, loss, or damage which arise out of or are in any manner connected with, or are claimed to arise out of or be in any manner connected with the construction, installation, existence, operation, use, maintenance, repair, restoration, or removal of the public improvements associated with the development described above, including the injury, loss or damage caused by the sole or contributory negligence of the indemnitees or any of them, regardless of whether the injury, damage, loss, violation, exercise of rights, act, or

omission is caused or is claimed to be caused by the contributing or concurrent negligence of indemnitees, or any of them, but not if caused by the sole negligence of indemnitees, or any of them, unmixed with the fault of any other person or entity, and including all expenses of litigation, court costs, and attorneys fees, which arise, or are claimed to arise, out of or in connection with the asserted or recovered incident.

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

- (a) all fees incurred in defending any action or proceeding brought by a public or private entity and arising from the presence. containment. use. manufacture. handling. creating, storage, treatment, discharge, release or burial on the property or the transportation to or from the property of any hazardous substance. The fees for which the developer/owner shall be responsible under subparagraph shall include but shall not be limited to the fees charged by (i) attorneys, (ii) environmental consultants, (iii) engineers, (iv) surveyors, and (v) expert witnesses.
- (b) any costs incurred attributable to (i) the breach of any warranty or representation made by Developer/Owner in this agreement, or (ii) any cleanup, detoxification, remediation, or other type of response action taken with respect to any hazardous substance on or under the property regardless of whether or not that action was mandated by the federal, state or local government.

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

- 20. <u>ASSIGNMENT OF AGREEMENT</u>. This Agreement or any rights under this Agreement may not be assigned by the Developer/Owner to another without the written approval and consent of the City's City Manager.
- 21. <u>DISCLOSURE OF INTEREST</u>. Developer/Owner agrees, in compliance with the Corpus Christi Code of Ordinance Sec. 2-349, to complete, as part of this Agreement, the Disclosure of Interest form attached to this Agreement as **Exhibit 5**.

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

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

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

Form 1295 must be electronically filed with the Texas Ethics Commission at https://www.ethics.state.tx.us/whatsnew/elf info form1295.htm. 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.

- 23. <u>CONFLICT OF INTEREST.</u> Developer/Owner agrees to comply with Chapter 176 of the Texas Local Government Code and file Form CIQ with the City Secretary's Office, if required. For more information and to determine if you need to file a Form CIQ, please review the information on the City Secretary's website at http://www.cctexas.com/government/city-secretary/conflict-disclosure/index
- 24. <u>AUTHORITY</u>. All signatories signing this Agreement warrant and guarantee that they have the authority to act on behalf of the entity represented and make this Agreement binding and enforceable by their signature.
- 25. <u>EFFECTIVE DATE</u>. This Agreement becomes effective and is binding upon and inures to the benefit of the City and the Developer/Owner and their respective heirs, successors, and assigns from and after the date of final execution by all parties.

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

EXECUTED IN ONE ORIGINAL this		day of, 20	, 20	
ATTEST:		CITY OF CORPUS CHRISTI		
Rebecca Huerta City Secretary		Albert J. Raymond III, AIA, CBO Director of Development Services		
APPROVED AS TO LEGAL F	ORM:			
Buck Brice Assistant City Attorney	(Date)			

For City Attorney

	DEVELOPER/OWNER:
	MPM Development, LP P.O. Box 331308 Corpus Christi, Texas 78401
	By: Moses Mostaghasi General Partner
STATE OF TEXAS §	
COUNTY OF §	
This instrument was acknowledged before m Moses Mostaghasi, General Partner of MPM Devor of said corporation.	ne on, 20, by relopment, LP, a General Partner, on behalf

Notary Public's Signature

EXHIBIT 1

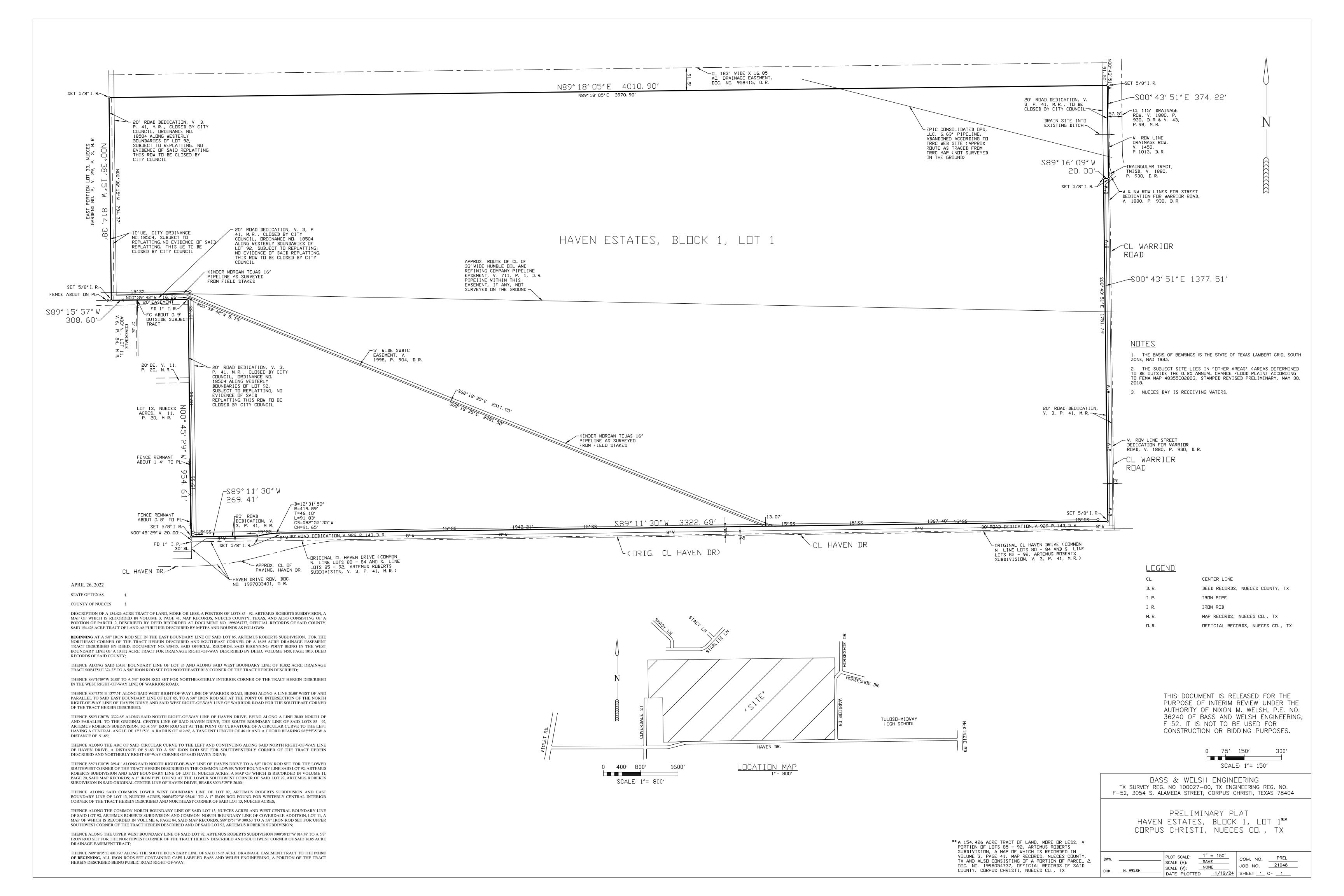


EXHIBIT 2



UDC Agreement Application

Date of Application: 12-18-2023
Type of Agreement Requested: Deferment [] Reimbursement [] Participation []
Approved Plat Name: Haven Drive
Public Improvement Type: Sanitary Sewer Main Line
Approved Public Improvement Plans: Y[] N[]
Cost Estimate for Public Improvements:
Ownership and authorized signatories to enter into the agreement: MPM Development, LF Mossa (Moses) Mostaghasi
Contact Information
Name: Mossa (Moses) Mostaghasi
E-mail address: mothepro99@aol.com
Phone Number: 361-774-3832
Preferred Method of Contact: Email [X Phone [] Other []

If other, provide detail:

Company Address: PO Box 331308 Corpus Christi, TX 78463

Company Name entering into the agreement: MPM Development, LP

General Partner

Applicant's Signature & Title

Submit Application Electronically to: contracts and agreements @cctexas.com

Mail to:

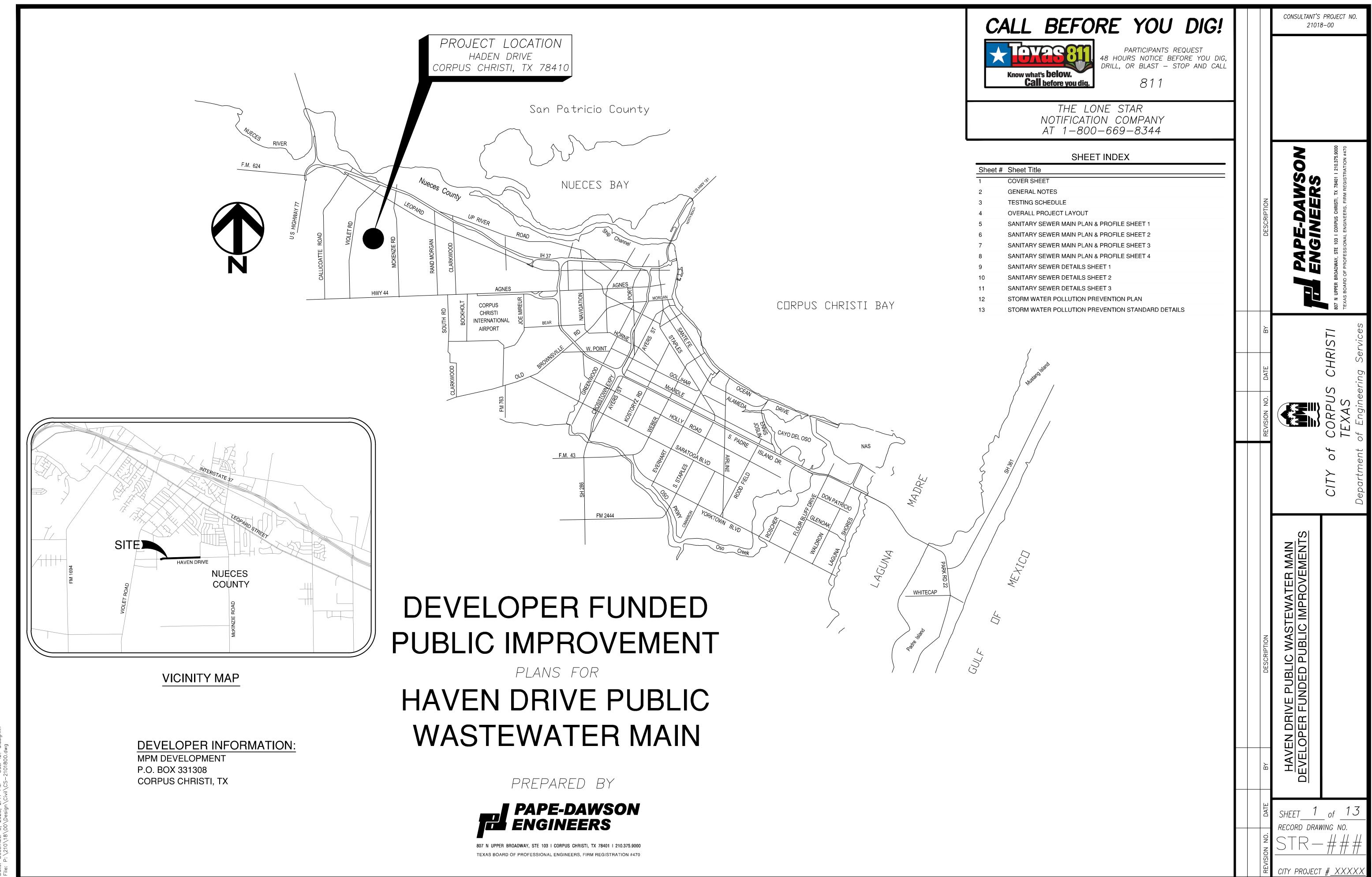
Development Services

Attn: Business Manager

2406 Leopard St. Suite 100

Corpus Christi, Texas 78408

EXHIBIT 3



- 2. THE CONTRACTOR'S TEAM IS RESPONSIBLE TO PERFORM FIELD VERIFICATION OF THE EXISTING CONDITIONS AND THE PROPOSED CONDITIONS PRIOR TO COMMENCING CONSTRUCTION, FABRICATION, AND/OR ACQUIRING MATERIALS. IF AT ANY POINT SHOULD A DIFFERENCE BE DETERMINED, THE CONTRACTOR IS TO CONTACT THE OAR IMMEDIATELY. CONFLICTS ARISING DUE TO LACK OF VERIFICATION SHALL DE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR TO PROTECT ALL INFRASTRUCTURES. DAMAGE TO THE EXISTING OR NEW GROUNDS AND/OR FACILITIES CAUSED BY CONSTRUCTION TRAFFIC OR CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO MATCH OR EXCEED EXISTING/NEW UNDAMAGED CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING A SAFE PROJECT SITE 24 HOURS A DAY.
- 5. THE CONTRACTOR WILL USE "DOOR HANGERS" AS NOTICES TO PROPERTY OWNERS OF THE UPCOMING WORK ON THEIR STREET. THE CONTRACTOR WILL PROVIDE NOTICES TO EACH RESIDENT AND BUSINESS LOCATED ON THE STREETS AS DIRECTED BY THE OAR DURING THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PUBLIC OR PRIVATE UTILITY LINES INCLUDING BUT NOT LIMITED TO WATER LINES, SANITARY LINES, PROCESS LINES, STORM SEWERS, GAS, COMMUNICATIONS AND ELECTRIC, DURING CONSTRUCTION, WHETHER SHOWN ON THE PLANS OR NOT. ALL DAMAGES SHALL BE REPAIRED AT NO COST TO THE OWNER. CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS IN THE VICINITY OF OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL ABIDE BY NATIONAL ELECTRIC CODE AND / OR ANY REQUIREMENTS OF THE OWNER OF THE ELECTRIC LINE.
- ANY CHANGES OR REVISIONS TO THESE PLANS MUST BE SUBMITTED TO THE OAR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 8. THE OWNER/OAR RESERVE THE RIGHT TO MAKE REASONABLE ADJUSTMENTS IN LINE AND/OR GRADE IN ORDER TO AVOID CONFLICTS WITH STRUCTURES OR OTHER UTILITIES. THE CONTRACTOR AGREES TO MAKE REASONABLE ADJUSTMENTS AT NO COST TO THE OWNER OR OAR.
- EXISTING PAVING, BUILDINGS, AND OTHER ITEMS SHOWN ON PLANS BUT NOT SPECIFICALLY RELATED TO THE WORK OF THE CONTRACTOR ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY BE SHOWN TO A LESSER ACCURACY OR TO A LESSER DEGREE OF DETAIL THAN THE REMAINDER OF THE PLANS.
- 10. CONTRACTOR SHALL CONTACT TEXAS 811/LONE STAR AND CITY TRAFFIC ENGINEERING AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION.

II. STREETS

- 1. ALL STREET DIMENSIONS SHOWN ON PLANS ARE TO BACK OF CURB, UNLESS NOTED OTHERWISE.
- 2. TRANSITIONS TO EXISTING PAVEMENTS SHALL BE GRADED TO PRODUCE A SMOOTH RIDE. LONGITUDINAL HMACP JOINT LOCATIONS SHALL BE APPROVED BY THE OAR.
- WHERE PROPOSED CONCRETE TIES INTO EXISTING CONCRETE, CONTRACTOR SHALL PLACE AN EXPANSION JOINT WITH 1/2" X 18" SMOOTH DOWELS DRILLED AND EPOXY SET WITH AN EXPANSION CAP AT ONE END. DOWELS SHALL BE SET AT 18" C-C.
- PRIMING AND HOT-MIX PLACING OPERATIONS SHALL NOT BE CONDUCTED ON DAYS FOR WHICH AN OZONE ADVISORY HAS BEEN ISSUED, EXCEPT FOR REPAIRS.

V. UTILITIES

- 1. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT EXISTING UTILITIES. ALL PIPES AND UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE CITY'S SATISFACTION. WITH NO SEPARATE PAYMENT.
- PAVEMENT REPAIR SHALL BE PAID FOR ONLY IF THE REPAIR OCCURS OUTSIDE THE LIMITS OF PROPOSED STREET EXCAVATION. TRENCH RESTORATION, ALONG EXISTING PAVEMENTS THAT ARE SCHEDULED FOR SUBSEQUENT STREET EXCAVATION. SHALL INCLUDE REPLACEMENT OF BASE WITH LOW P.I. MATERIAL THAT IS CONDUCTIVE FOR SALVAGE.
- TIES OR CONNECTIONS OF PROPOSED STORM WATER TO EXISTING MANHOLES OR EXISTING LINES SHALL BE SUBSIDIARY WORK UNLESS PAID FOR UNDER A SPECIFIC BID
- 4. PRE-CAST CURB INLETS, IF ALLOWED SHALL HAVE CAST-IN-PLACE THROAT AND TOP.
- A PIPE COLLAR SHALL BE USED WHERE PROPOSED STORM WATER IS TO BE CONNECTED TO EXISTING LIKE SIZED STORM WATER PIPE. COLLARS SHALL NOT BE PAID FOR SEPARATELY BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS. PIPE COLLARS SHALL NOT BE REQUIRED AT TONGUE AND GROOVE CONNECTIONS WHERE ENDS ARE IN GOOD CONDITION.
- ALL OPEN EXCAVATION SHALL BE ENCLOSED WITH ORANGE SAFETY FENCE AND BARRELS.
- 7. UNLESS SHOWN OTHERWISE IN THE PLANS OR SPECIFICATIONS, DEWATERING OF UTILITY LINE AND STORM WATER WILL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE ITEMS IT MAY BE ASSOCIATED WITH.
- WHERE UTILITY AND/OR STORM WATER WORK IS PERFORMED UNDER AREAS OF THE EXISTING ROADWAY OR TEMPORARY DETOURS THAT ARE REQUIRED TO CARRY TRAFFIC PRIOR TO COMPLETION OF THE STREET IMPROVEMENTS. THE CONTRACTOR SHALL APPLY SURFACE TREATMENT ON TOP OF THE BASE OR BACKFILL MATERIAL UNTIL SUCH TIME THAT THE PROPOSED PAVEMENT SECTION IS CONSTRUCTED. THESE TEMPORARY PAVEMENTS (INCLUDING BACKFILL, BASE MATERIAL AND SURFACE TREATMENT) WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE BID ITEM TRAFFIC CONTROL.
- ALL UTILITY VALVES SHALL BE ACCESSIBLE AT ALL TIMES.
- 10. TESTING AND TELEVISING OF ALL LINES UNDER PAVEMENT MUST BE COMPLETED BEFORE PLACEMENT OF FINAL PAVEMENT.
- 11. ALL UTILITIES PLACED WITHIN 10'OF EXISTING PAVEMENT TO REMAIN, OR PROPOSED PAVEMENT REQUIRE BACKFILL TESTING ON ALL LIFTS PRIOR TO PLACEMENT OF PROPOSED PAVEMENT AND/OR ACCEPTANCE OF UTILITIES.

- 12. IF ANY PORTION OF TRENCH LIES WITHIN 2' OF PAVEMENT OR CURB. THE TRENCH BACKFILL REQUIREMENTS FOR UTILITIES BENEATH PAVEMENT APPLIES. INCLUDING CEMENT
- 13. THE CONTRACTOR SHALL PERFORM PRELIMINARY EXPLORATORY EXCAVATION AS NEEDED TO VERIFY ALL TIE-INS, SIZES, CONNECTIONS PIPE ORIENTATION, AND RELATED UTILITY ADJUSTMENTS PRIOR TO ORDERING PRECAST STRUCTURES.
- 14. CONTRACTOR SHALL PROTECT EXISTING INFRASTRUCTURE. THIS INCLUDES, BUT IS NOT LIMITED TO EXISTING GAS LINES, PRODUCT PIPELINES, FIBER OPTIC LINES, UTILITY POLES, TELEPHONE/CABLE TV PEDESTALS, ELECTRICAL DUCT BANKS, JUNCTION BOXES, VALVES. ETC. DAMAGE CAUSED BY CONSTRUCTION ACTIVITY OR CONSTRUCTION TRAFFIC SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-DAMAGE OR BETTER CONDITION AT NO ADDITIONAL COST TO CITY OR INFRASTRUCTURE OWNER.
- 15. ALL VALVE BOXES AND MANHOLES RIMS REQUIRING ADJUSTMENT SHALL BE LOCATED BY STATION AND OFFSET AND TIED TO EXISTING FEATURES THAT WILL REMAIN IN PLACE. ALL NEW AND EXISTING VALVES AND MANHOLES SHALL BE EXTENDED TO FINISHED GRADE. ELEVATION ADJUSTMENTS FOR NEW MANHOLES AND VALES SHALL BE CONSIDERED SUBSIDIARY AND SHALL NOT BE PAID FOR SEPARATELY.
- 16. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER PRIOR TO ACCESSING PRIVATE PROPERTY INCLUDING UTILITY EASEMENTS. ALL PERIMETER FENCE REMOVED TO GAIN ACCESS TO THE SITE SHALL BE REPLACED WITH NEW FENCE OF THE SAME MATERIAL. CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY HIS ACTIVITIES TO PRE-CONSTRUCTION CONDITION. RESTORATION EFFORTS INCLUDE, BUT ARE NOT LIMITED TO ALL EQUIPMENT, LABOR AND MATERIALS REQUIRED TO PLACE TOPSOIL AND SOD, CONSTRUCTION ASPHALT PAVEMENT REPAIRS, CONCRETE SIDEWALK REPAIRS, CONCRETE DRIVEWAY REPAIRS, AND CONCRETE PAVEMENT REPAIRS, AS NEEDED, UNLESS NOTED OTHERWISE, ALL OF THE WORK LISTED HEREIN SHALL BE SUBSIDIARY TO PAY ITEMS AND WILL NOT BE PAID FOR SEPARATELY.

VI. WATER LINES

- 1. WATER METERS SHALL BE ACCESSIBLE DURING CONSTRUCTION.
- 2. VALVE BOXES TO REMAIN IN SERVICE SHALL BE ADJUSTED TO FINISH GRADE AND COLLARS SHALL BE PROVIDED.
- 3. WHERE WASTEWATER AND WATERLINES CROSS, THE WATERLINE SHALL BE PLACED OVER THE SEWER WITH A MINIMUM SEPARATION OF 2'. IF THIS IS NOT POSSIBLE, EITHER THE SWORD OR THE WATERLINE SHALL BE ENCASED WITH A STANDARD 20' LENGTH OF PRESSURE PIPE. THE CASING PIPE SHALL NOT BE PAID DIRECTLY BUT SHALL BE SUBSIDIARY TO THE CARRIER PIPE.
- 4. ALL EXISTING WATERLINES TO BE ABANDONED MUST BE DETACHED A MINIMUM OF 10' FROM THE CONNECTION, GROUT FILLED, AND CAPPED.

VII. GAS LINES

- 1. GAS DEPARTMENT WILL BE RESPONSIBLE FOR ADJUSTMENT OF EXISTING GAS LINES, IF REQUIRED. CONTRACTOR SHALL COORDINATE WITH GAS DEPARTMENT REPRESENTATIVE TO SCHEDULE ADJUSTMENT AS WORK PROCEEDS. AS THE CONTRACTOR PROCEEDS THROUGH THE PHASED CONSTRUCTION HE SHALL SET UP THE TRAFFIC CONTROL, COORDINATE WITH GAS DEPARTMENT AND REMOVE ASPHALT AND CONCRETE PAVEMENT IN THE AREA WHERE GAS LINE IS TO BE ADJUSTED. GAS DEPARTMENT WILL EXCAVATE AND MAKE ADJUSTMENT TO THE GAS PIPING PRIOR TO THE CONTRACTOR CONSTRUCTING PROPOSED IMPROVEMENTS IN THE AREA OF THE GAS LINE. CONTRACTOR SHALL PLAN FOR AND COORDINATE WITH THE GAS DEPARTMENT TO ALLOW TIME FOR THE ADJUSTMENTS TO BE PERFORMED.
- 2. BACKFILL OF TRENCHES FROM GAS IMPROVEMENTS MUST MEET OR EXCEED THE CITY STANDARD REQUIREMENTS OF THE BACKFILL REQUIRED FOR WATER MAINS.

IX. MISCELLANEOUS

- 1. ALL AREAS DISTURBED BY THE CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION THAN AT THE START OF CONSTRUCTION. ALL REMOVED OR DAMAGED FENCES, IMPROVEMENTS, LANDSCAPING, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, UNLESS OTHERWISE STIPULATED IN EASEMENTS.
- 2. ALL TRASH SHALL BE PICKED UP AND REMOVED AT THE END OF EACH DAY.
- 3. CONTRACTOR SHALL VERIFY ALL SURFACE CONDITIONS ALONG THE PROPOSED ROUTE PRIOR TO PREPARING AND SUBMITTING ITS BID.
- 4. CONTRACTOR SHALL COORDINATE SCHEDULE, PUBLIC NOTIFICATIONS, ETC., WITH CITY PUBLIC INFORMATION OFFICER.
- 5. WHERE THE WORD "PROPOSED", "PROP", OR "PRO" IS UTILIZED IN THIS SET OF DOCUMENTS, IT SHALL MEAN "NEW CONSTRUCTION TO BE PERFORMED AS PART OF THIS CONTRACT." THIS NOTE SHALL NOT REQUIRE "PROPOSED", "PROP", OR "PRO" AS AN INDICATOR OF A REQUIRED ITEM.
- 6. ALL AREAS RE-GRADED BY THE CONTRACTOR SHALL BE PROVIDED WITH TOPSOIL THAT IS FREE OF DEBRIS, BASE, ASPHALT, AND CONCRETE.
- 7. EXCAVATIONS SHALL NOT BE MADE DURING OR PENDING FORECASTED INCLEMENT WEATHER. WATER ACCUMULATIONS EXCEED 1" SHALL BE PUMPED OUT AND UNDERLYING MATERIAL SHALL MEET MOISTURE AND COMPACTION REQUIREMENTS PRIOR TO PLACEMENT OF BEDDING, BACKFILL, PAVEMENTS, OR BASE MATERIAL
- 8. CEMENT STABILIZED BACKFILL FOR THE UTILITIES AND STRUCTURES SHALL BE UNIFORMLY MOISTENED AND MIXED PRIOR TO PLACEMENT. REQUIREMENTS IN THE STANDARD SPECS AND DETAILS THAT CALL FOR 2 SACKS/CY ARE REVISED TO 1.5 SACKS/CY.
- 9. THE CONTRACTOR SHALL MAINTAIN AND PROVIDE SUITABLE TEMPORARY DRAINAGE ALONG, ACROSS, AND THROUGHOUT THE ENTIRE WORK AREA INCLUDING TEMPORARY DETOUR ROUTES AND TEMPORARY ROAD WIDENING DURING THE VARIOUS SEQUENCES OF WORK, UNTIL SUCH TIME AS PERMANENT DRAINAGE STRUCTURES ARE COMPLETED. THE EXPENSE FOR PROVIDING SAID SUITABLE TEMPORARY DRAINAGE, INCLUDING CONSTRUCTION OF TEMPORARY SWALES, INSTALLATION AND REMOVAL OF TEMPORARY PIPES AND OTHER ASSOCIATED WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
- 10. TRAFFIC CONTROL, INCLUDING BLUE BUSINESS SERVICE SIGNS, SHALL BE IN PLACE BEFORE CONSTRUCTION COMMENCEMENT.

- 11. ANY TRAFFIC CONTROL SUBMITTAL BY THE CONTRACTOR WHICH DIFFERS FROM THE PROPOSED TRAFFIC CONTROL PLAN MUST BE SEALED BY A PROFESSIONAL ENGINEER AND SUBMITTED TO THE TRAFFIC ENGINEERING DEPARTMENT FOR REVIEW AND ACCEPTANCE PER THEIR TIMELINES AND REQUIREMENTS.
- 12. A MINIMUM 14-DAY REVIEW PERIOD IS REQUIRED FOR TRAFFIC CONTROL PLANS SUBMITTED. TIMELINE FOR APPROVAL AND REVISIONS SHOULD ACCOMMODATE THIS REVIEW TIMEFRAME.
- 13. ANY POTENTIAL DISTURBANCE TO TRAFFIC GOING TO AND FROM SURROUNDING SCHOOLS SHALL BE COORDINATED WITH THE SCHOOLS.
- 14. LANE CLOSURES SHALL BE MINIMIZED TO THE FULLEST EXTENT POSSIBLE..
- 15. IF THE PROJECT IS DELAYED, THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL TCP COSTS IF THE WORK EXCEEDS THE ALLOWABLE NUMBER OF CONSTRUCTION DAYS UNLESS A CHANGE IS AGREED TO IN WRITING VIA A CHANGE ORDER.

SURVEY

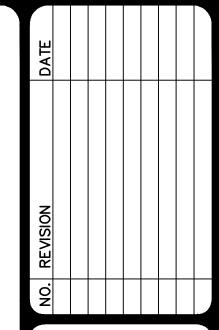
1. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. IT IS THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY TO INVESTIGATE AND LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES SUFFICIENTLY IN ADVANCE OF TRENCHING AND EXCAVATION OPERATIONS TO AVOID DAMAGING EXISTING UTILITIES OR CAUSING UNNECESSARY DELAYS. THIS INCLUDES EXPOSING UTILITY TIE-INS AND CROSSINGS FOR VERIFICATION PRIOR TO LAYING NEW LINES.

XII. COORDINATION

- 1. COORDINATE ALL SERVICE SHUTDOWNS WITH THE APPROPRIATE UTILITY DEPARTMENT CONSTRUCTION OBSERVER AT LEAST 48 HOURS PRIOR TO THE ANTICIPATED UTILITY SERVICE SHUTDOWN.
- 2. COORDINATE WITH AFFECTED PROPERTY OWNERS IN WRITING AT LEAST 24 HOURS PRIOR TO ANY ANTICIPATED UTILITY SERVICE SHUTDOWN. CITY TO RECEIVE A COPY OF ALL WRITTEN CORRESPONDENCE.
- 3. COORDINATE INSPECTIONS WITH THE UTILITY DEPARTMENT INSPECTOR PRIOR TO ALL WORK BEING COVERED 24 HOURS IN ADVANCE.
- 4. COORDINATE ACCESS ISSUES WITH PROPERTY OWNERS. ACCESS MAY ONLY BE AFFECTED DURING WORK HOURS AND SHALL NOT LAST MORE THAN 6 HOURS CONSECUTIVELY.
- 5. COORDINATE CROSSING THE KINDER MORGAN PIPELINE WITH KINDER MORGAN PERSONNEL 14-DAYS IN ADVANCE OF CROSSING THE PIPELINE. KINDER MORGAN MAY REQUIRE A MEMBER OF THEIR TEAM TO BE ON-SITE AND MAY CONTROL REQUIRE ADDITIONAL PROTECTION OF THEIR INFRASTRUCTURE AT THEIR DISCRETION.

SANITARY SEWER NOTES

- 1. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 P.S.I. AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20' JOINT CENTERED AT WATER MAIN.
- 2. NO VERTICAL STACKS SHALL BE ALLOWED
- 3. WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN IS LESS THAN 9 FT. OF SEPARATION, SEWER MAIN SHALL BE INSTALLED WITH 160 PSI (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH THE CITY OF CORPUS CHRISTI CONSTRUCTION CRITERIA FOR CONSTRUCTION OF SEWER MAINS IN THE VICINITY OF WATER MAINS.
- 4. ALL SEWER PIPES SHALL BE PVC (SDR 26), UNLESS OTHERWISE NOTED.
- 5. PRIOR TO CONSTRUCTION CONTRACTOR IS TO VERIFY EXISTING INVERT OF EXISTING SANITARY SEWER MAINS AND ALERT ENGINEER IMMEDIATELY OF ANY DIFFERENCE FROM INVERT SHOWN ON PLANS.
- 6. CONTOURS SHOWN ARE FOR GRAPHICAL USE ONLY.
- 7. MANHOLE OPENINGS ARE 30" AS PER TCEQ CHAPTER 217.55
- 8. CONTRACTOR TO INSTALL PERMANENT MARKERS AT THE END OF ALL SEWER LATERALS, PER HOUSE LATERAL DETAIL DD-854-01.
- 9. ALL 6" SEWER LATERALS WILL BE SET AT A MINIMUM 2% SLOPE.
- 10. TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE 0.50 FEET ABOVE FINISHED GROUND ELEVATIONS IN UNPAVED AREAS WITH WATER TIGHT LIDS.





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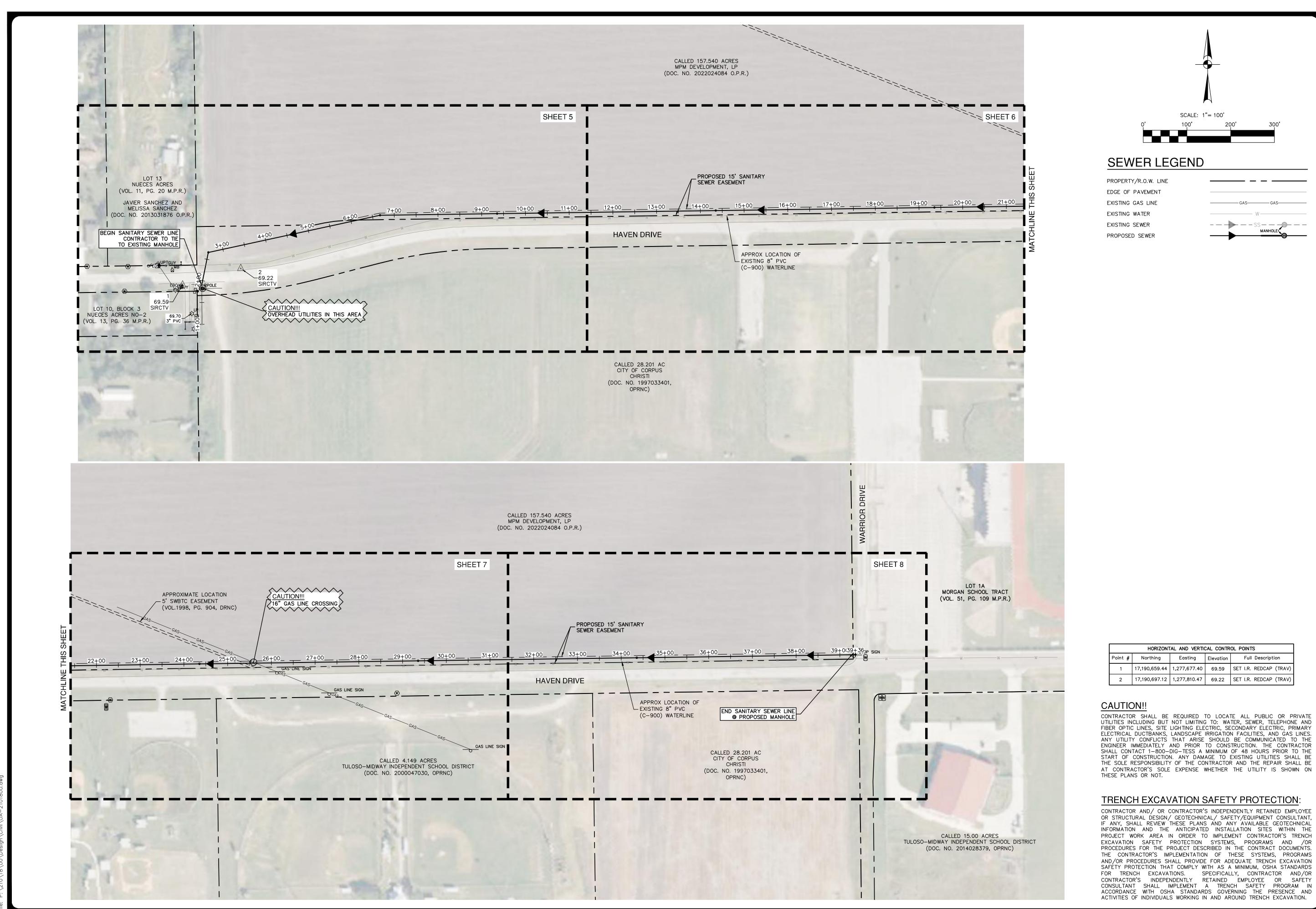
TESTING SCHEDULE

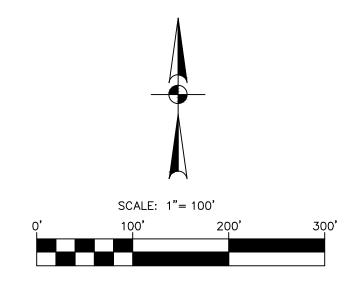
ERIAL SOURCE EET/MATERIAL LF TRENCH/LIFT LF/LANE/LIFT LF/LANE/LIFT RIVEWAYS O SF LF LF - LF - - - - - - - - - - - - -
EET/MATERIAL – LF TRENCH/LIFT – LF/LANE/LIFT – LF/LANE/LIFT RIVEWAYS – 0 SF –
LF TRENCH/LIFT - LF/LANE/LIFT - LF/LANE/LIFT RIVEWAYS - 0 SF -
LF/LANE/LIFT - LF/LANE/LIFT - RIVEWAYS - O SF -
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^{1.} THE ABOVE TESTING RATES ARE ONLY ANTICIPATED GUIDELINES, THE ENGINEER RESERVES THE RIGHT TO CONDUCT ADDITIONAL TESTING AT THE ENGINEER'S DISCRETION. RE-TEST FOR FAILURES ARE NOT INCLUDED.

^{2.} MOISTURE CONTENTS TO BE INCLUDED WITH DENSITY TEST.

^{3.} IN THE EVENT OF FAILURES, ADDITIONAL TESTS WILL BE REQUIRED. IF EXCESSIVE RAIN OR DRY PERIOD OCCURS ON A PREVIOUSLY TESTED SECTION, THE CITY MAY ORDER RE—TESTS AS NECESSARY.





SEWER LEGEND

PROPERTY/R.O.W. LINE EDGE OF PAVEMENT EXISTING GAS LINE EXISTING WATER EXISTING SEWER PROPOSED SEWER

-GAS	—— GAS———
W	
 - — - SS	MANHOLE

12/15/2023

'E PUBLIC WASTEWAT ORPUS CHRISTI, TEXAS

FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE

TRENCH EXCAVATION SAFETY PROTECTION:

HORIZONTAL AND VERTICAL CONTROL POINTS

2 | 17,190,697.12 | 1,277,810.47 | 69.22 | SET I.R. REDCAP (TRAV)

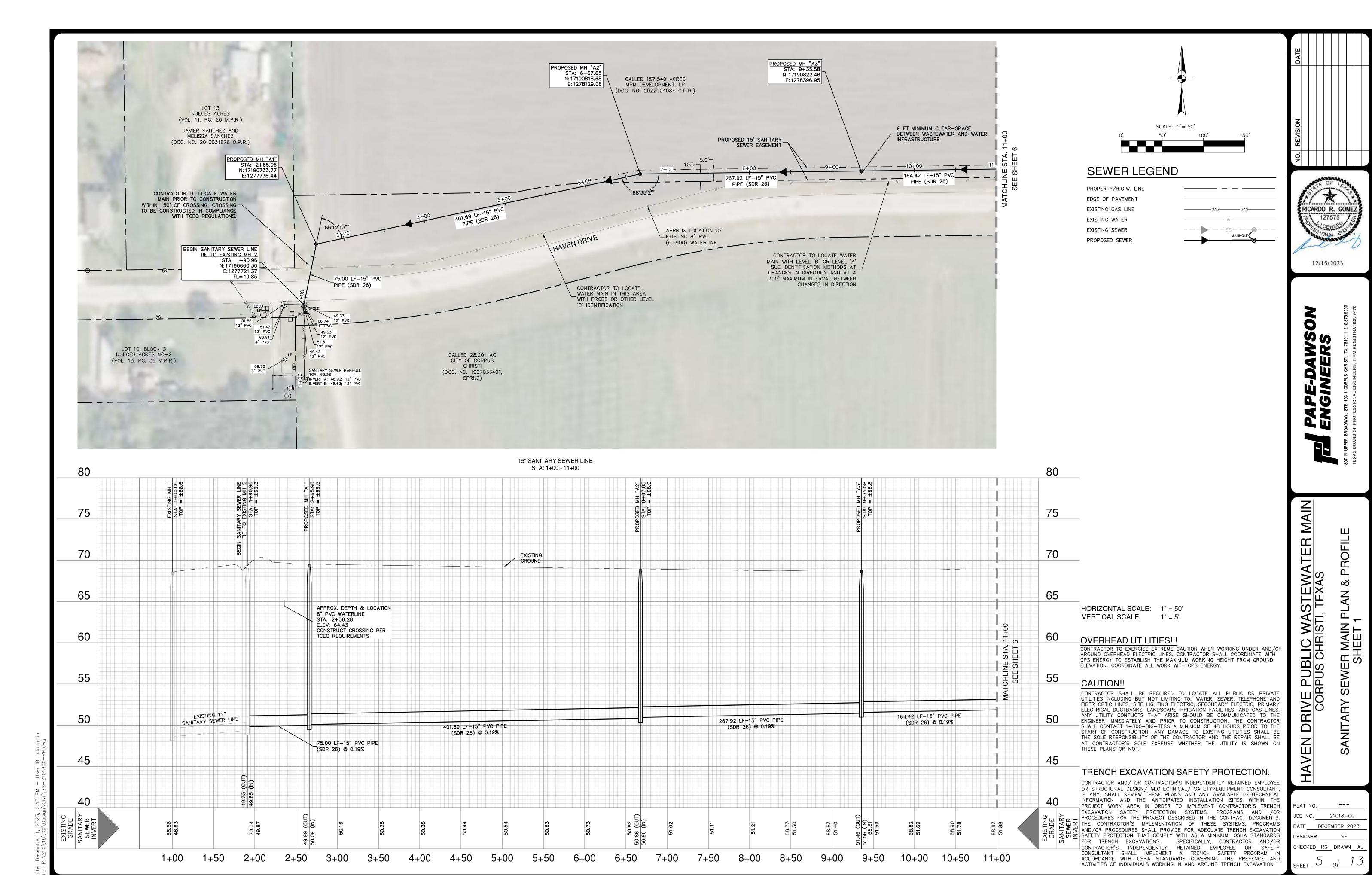
17,190,659.44 | 1,277,677.40 | 69.59 | SET I.R. REDCAP (TRAV)

Northing

Easting | Elevation | Full Description

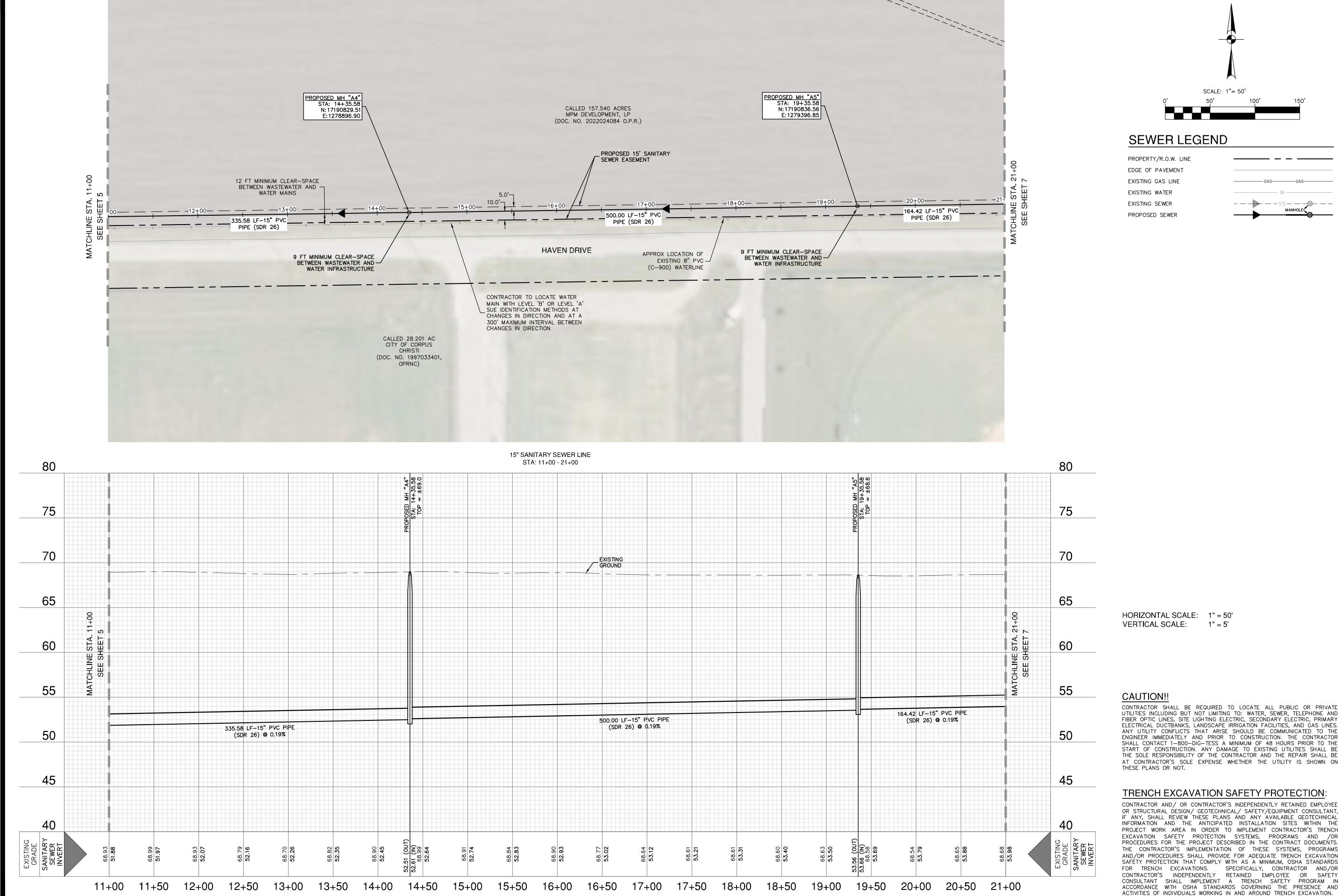
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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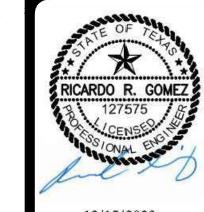


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PRELIMINARY



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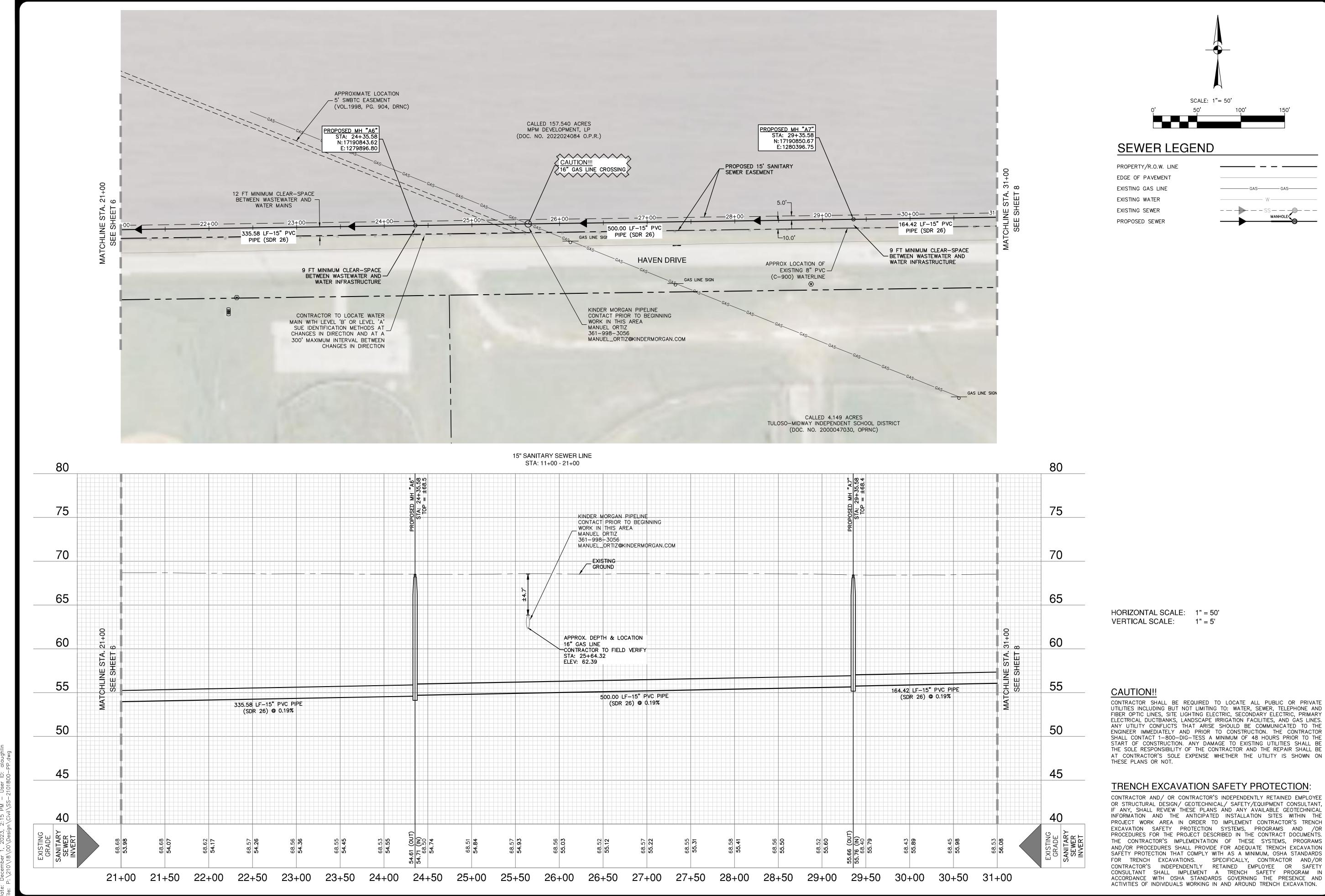
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HIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2016,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

SCALE: 1"= 50'

SEWER LEGEND

PROPERTY/R.O.W. LINE EDGE OF PAVEMENT EXISTING GAS LINE EXISTING WATER EXISTING SEWER PROPOSED SEWER

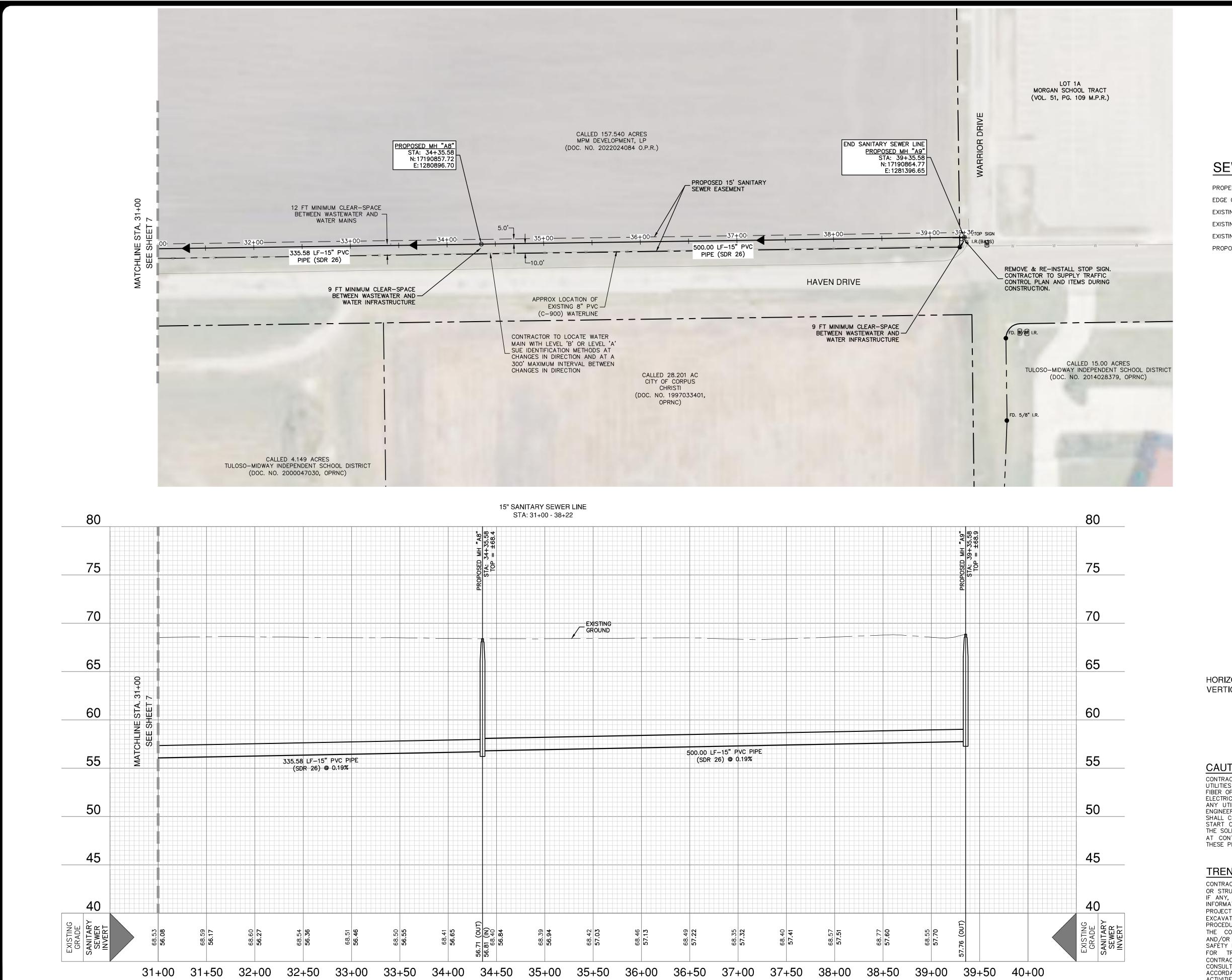
RICARDO R. GOMEZ 12/15/2023

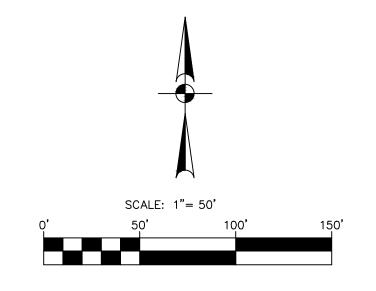
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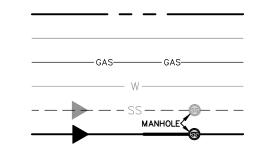
1" = 5'





SEWER LEGEND

PROPERTY/R.O.W. LINE EDGE OF PAVEMENT EXISTING GAS LINE EXISTING WATER EXISTING SEWER PROPOSED SEWER



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'E PUBLIC WASTEWAT ORPUS CHRISTI, TEXAS

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION:

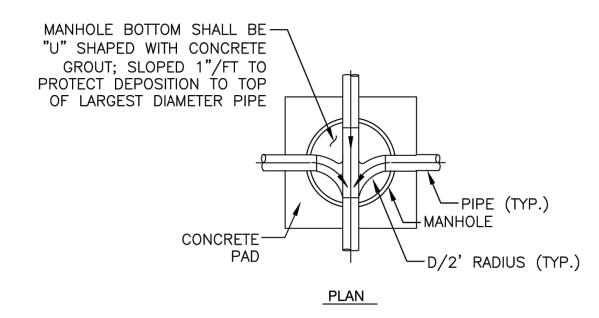
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

21018-00 DESIGNER CHECKED RG DRAWN AL

MANHOLE REQUIREMENTS		
PIPE DIAMETER	MANHOLE DIAMETER	
≤18"	4'	
18"< TO ≤36"	5'	
36"< TO ≤42"	6'	

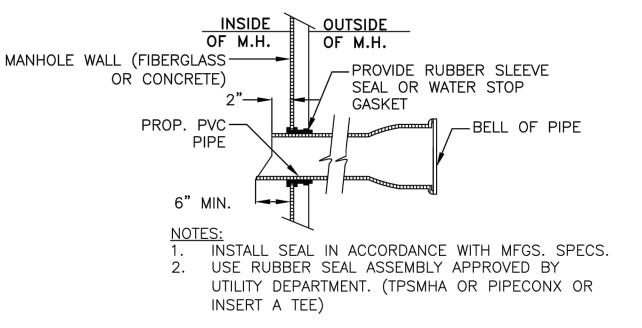
)	APPROVED COATINGS TABLE		
	MANUFACTURER	MODEL NAME	
	JEFFCOAT	JEFFCOAT 326	
	RAVEN LINING SYSTEM	RAVEN 405	
	SHERWIN WILLIAMS	DURAPLATE 5800	
	CARBOLINE	PHENOLINE 309	

NOTE: COAT ALL CONCRETE SURFACES INCLUDING BENCH & WALLS.



WASTEWATER MANHOLE (BOTTOM)

NOT TO SCALE



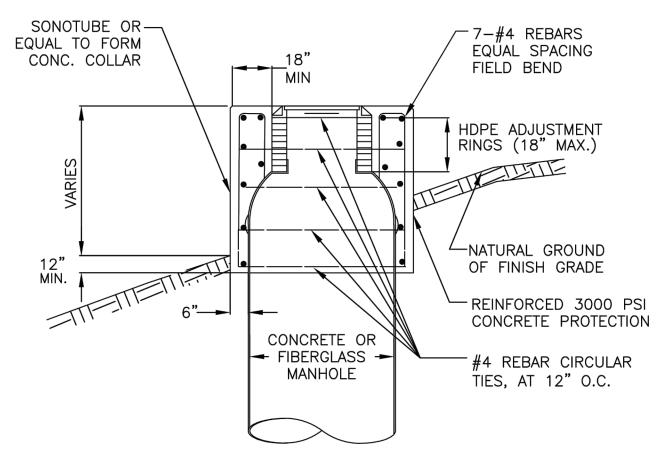
PIPE SEAL DETAIL

NOT TO SCALE

NOT TO SCALE

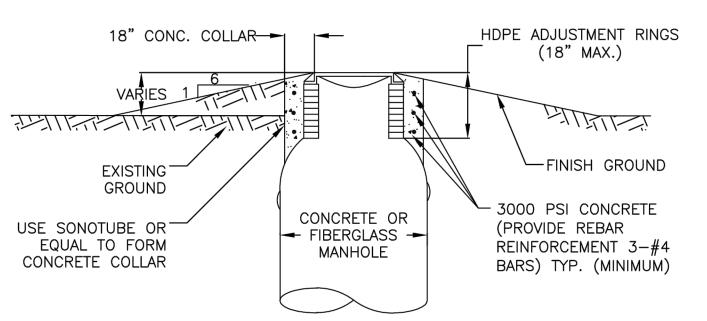
GENERAL WASTEWATER CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND EXAMINE LOCAL CONDITIONS TO BE ENCOUNTERED, IMPROVEMENTS TO BE PROTECTED, AND PERMITS AND FEES TO BE REQUIRED, ALONG WITH OTHER RESEARCH THAT IS NECESSARY TO ENSURE THAT THE CONTRACTOR THOROUGHLY UNDERSTANDS THE PROJECT AND IS FULLY AWARE OF ALL THE CONDITIONS AND CONSTRAINTS THAT MAY BE ENCOUNTERED DURING THE COURSE OF
- 2. THE CONTRACTOR SHALL ADHERE TO ALL TCEQ REGULATIONS PER 30 TAC CHAPTER 217 AND TRENCH SAFETY FOR EXCAVATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND MUST ADHERE TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 4. ALL FIBERGLASS MANHOLES SHALL BE MONOLITHIC WITH 0.50" MINIMUM WALL THICKNESS. IF PROVIDED OR REQUIRED, FIBERGLASS BOTTOM SHALL BE DESIGNED TO WITHSTAND HYDROSTATIC HEAD PRESSURE UNDER ALL CONDITIONS.
- THE MANHOLE WALL PENETRATIONS FOR PIPE (8"-15" DIAMETER PIPE) ABOVE THE FLOWLINE OF THE MANHOLE SHALL BE CORED AND SEALED WITH APPROVED SEAL GASKET WATER STOP ASSEMBLY.
- 6. FOR FIBERGLASS MANHOLES, THE MANHOLE FOUNDATION MAY BE PRECAST ON GROUND SURFACE. (PROCEDURE MUST BE SUBMITTED TO THE ENGINEERING SERVICES CONSTRUCTION ENGINEER FOR APPROVAL.)
- THE CONTRACTOR SHALL PROVIDE PROTECTIVE COATING ON ALL EXPOSED CONCRETE SURFACES, INCLUDING CORBEL AREA, MANHOLE WALLS AND MANHOLE BENCH.
- FOR FIBERGLASS MANHOLES WITH WATERTIGHT BOTTOM, ADHERE TO ALL MANUFACTURER
- REQUIREMENTS. FIBERGLASS BOTTOM AND BENCH MUST ALSO BE FACTORY INSTALLED.



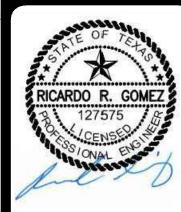
MANHOLE PROTECTION IN UNPAVED AREAS (CULTIVATED/SPECIAL)

NOT TO SCALE



MANHOLE PROTECTION IN UNPAVED AREAS (RESIDENTIAL)

NOT TO SCALE



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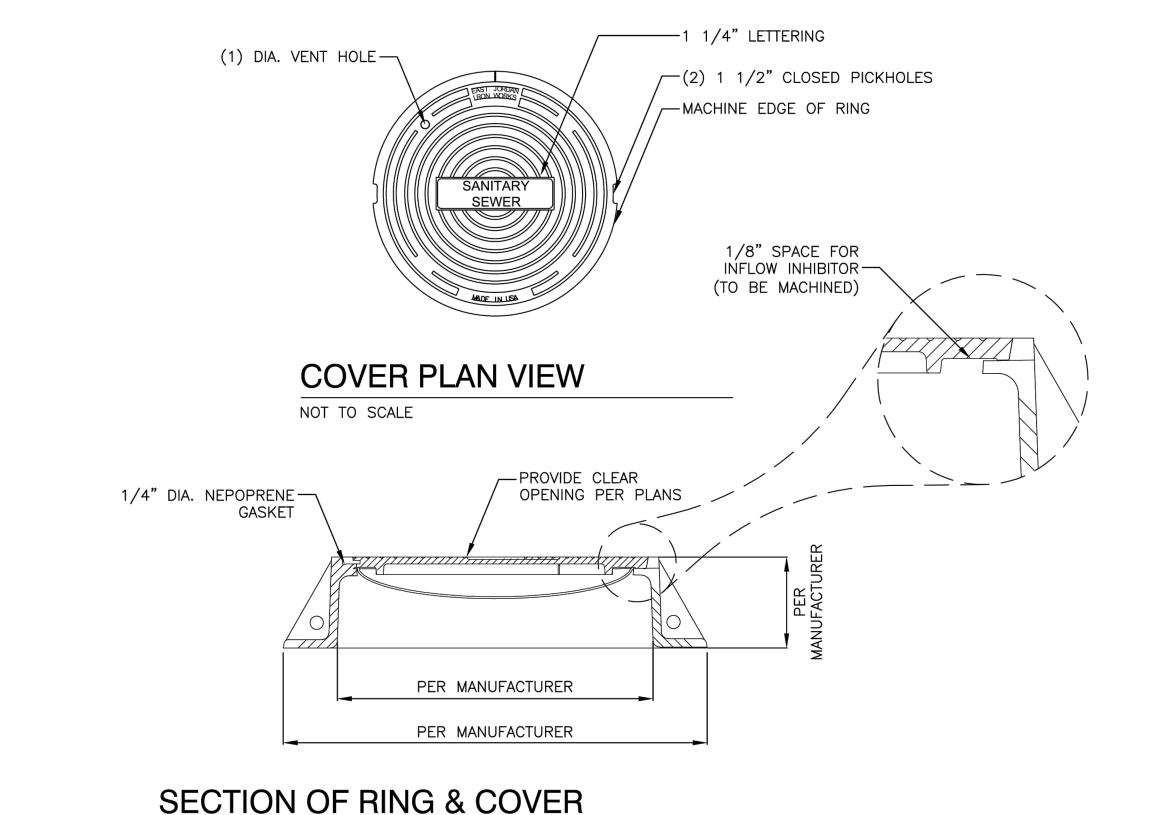
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PLAT NO. JOB NO. 21018-00 DATE DECEMBER 2023 DESIGNER CHECKED RG DRAWN AL SHEET 9 of 13

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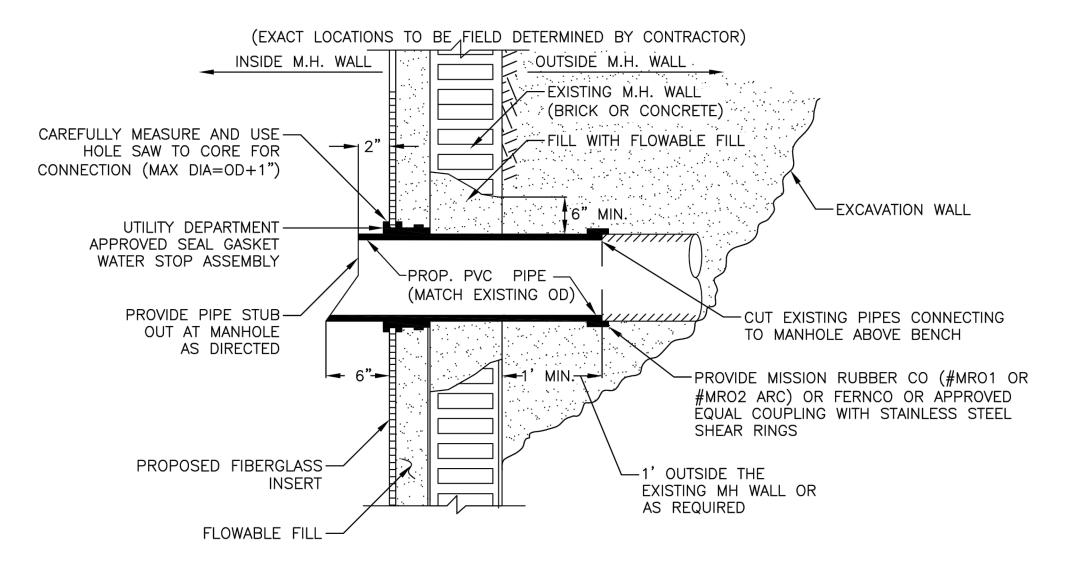
FRP INSERT REHABILITATION OF EXISTING MANHOLE

NOT TO SCALE



FRP INSERT REHABILITATION OF EXISTING MANHOLE NOTES:

- 1. THE CONTRACTOR SHALL FIELD—VERIFY THE EXISTING MANHOLE DIAMETER, FLOW LINE, RIM ELEVATION, NUMBER OF LATERALS, LOCATIONS, SIZES, AND OTHER INFORMATION NEEDED TO REHABILITATE EACH MANHOLE.
- 2. PRIOR TO INSTALLING CONTROL OF FLOW OR INITIATING MANHOLE REPAIRS, THE CONTRACTOR SHALL PLACE BARRICADES AND SIGNS TO DIVERT TRAFFIC AND PEDESTRIANS PER THE APPROVED TRAFFIC CONTROL PLAN, AS REQUIRED.
- 3. THE CONTRACTOR SHALL PREPARE THE INTERIOR OF THE EXISTING FOUNDATION STRUCTURE BY REMOVING ALL DEFECTIVE GROUT AND DEBRIS/BLOCKAGES, MECHANICALLY ROUGHEN THE ENTIRE INVERT, AND CLEAN THE INTERIOR WITH A HIGH-PRESSURE WATER JET.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF THE RESULTING SLUDGE AND DEBRIS AT AN APPROVED SITE, ACCORDING TO ALL PERTINENT WASTE DISPOSAL REGULATIONS.
- 5. THE CONTRACTOR SHALL USE QUICK—SETTING, NON—SHRINK CONCRETE GROUT TO SEAL AND RESHAPE THE BOTTOM. SUBMIT PROPOSED MATERIALS TO BE USED TO THE ENGINEER FOR APPROVAL.
- PROVIDE COATING TO EXPOSED CONCRETE SURFACES WITH APPROVED SYSTEM TO PREVENT CORROSION.
 FRP INSERT SHALL COMPLY WITH ASTM D3753 WITH SINGLE PIECE MONOLITHIC BARREL AND CORBEL CONSTRUCTION WITHOUT SEAMS, JOINTS OR SECTIONS. WALL THICKNESS SHALL PROVIDE AN AASHTO H-20 LOAD RATING AND WALL STIFFNESS OF 36 PSI MIN.
- 8. CUT BOTTOM OF FRP INSERT TO FIT EVENLY ON BENCHES OR CHIP BENCHES OUT TO EVENLY SUPPORT INSERT.
- 9. SEAL ANNULAR SPACE AROUND EXIST LINES WITH JUTE ROPE AND CHEMICAL GROUT.



FRP INSERT PIPE SEAL DETAIL

NOT TO SCALE

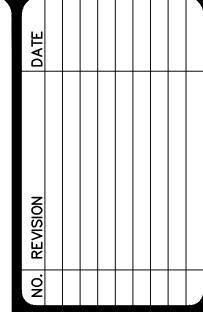
ROADWAY MANHOLE RING AND COVER:

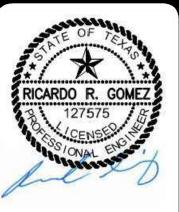
- 1. THE CONTRACTOR SHALL PROVIDE STAINLESS STEEL (S.S.) INFLOW INHIBITOR WITH SS TETHER SECURED TO MANHOLE WALL, SUCH THAT THE INNER LID IS FLUSH WITH THE OUTER LID.
- 2. TRAFFIC SHALL BE RESTRICTED FROM MANHOLE FOR 48 HOURS AFTER THE PLACEMENT OF CONCRETE, AND COLLAR SHALL PROVIDE A SUFFICIENT, CLEAR OPENING TO ACCOMMODATE THE SPECIFIED MANHOLE COVER.
- 3. AASHTO-M-306 (LATEST REVISION) PROOF LOAD TESTING IS REQUIRED (40,000 LBS) AND MUST BE INSPECTED. PRIOR TO INSTALLATION, THE RESULTS OF THE TEST SHALL BE SUBMITTED TO THE CITY.
- 4. THE MANUFACTURING FACILITIES FOR ALL PROVIDED RING AND COVER ASSEMBLIES SHALL MEET OR EXCEED ALL EPA ENVIRONMENTAL STANDARDS AND OSHA SAFETY STANDARDS. THE CASTINGS SHALL BE MANUFACTURED FROM RECYCLED MATERIALS. THE CONTRACTOR SHALL PROVIDE CERTIFICATION.

CLEAR OPENING	MANUFACTURER (1)	MODEL NUMBER*	INFLOW INHIBITOR
	EAST JORDAN IRON WORKS	V-1168	
24"	U.S. FOUNDRY	COVER- #8018538 FRAME- #8022247	
	NEENAH FOUNDRY	R-1930-24	REQUIRED ON ALL
	EAST JORDAN IRON WORKS	COVER- V1430 FRAME- V1420	INSTALLATIONS PER CITY SPECIFICATIONS
30" (2)	U.S. FOUNDRY	COVER- #9210048 FRAME- #8021361	
	NEENAH FOUNDRY	DF-1274	

- (1) OR APPROVED EQUAL (MADE IN THE USA)
- (2) UNLESS NOTED IN THE PLANS, ALL COVERS SHALL BE 24" DIAMETER AND NOT INTENDED FOR MANNED ENTRY.

RING & COVER APPROVED LIST





12/15/2023

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ENGINEERS
BROADWAY, STE 103 I CORPUS CHRISTI, TX 78401 I 210.375.90

JS CHRISTI, TEXAS

HAVEN DRIVE PUBLIC WA CORPUS CHRISTI,

PLAT NO. ______

JOB NO. ______

DATE ______

DECEMBER 2023

DESIGNER _______SS

CHECKED __RG _____ DRAWN __AL

SHEET 10 ______ of 13

NOT TO SCALE

TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

ASPHALT REPAIR: W=WIDTH 1' MIN TOPSOIL SEE TABLE 2-ITEM B (UNPAVED-PAVEMENT AREAS) PAVEMENT 12" LIMESTONE BASE OR APPROVED BASE MATERIAL (TxDOT ITEM 247' TYPE A, GRADE 1-2) IN NO CASE SHALL THE THICKNESS OF THE BASE BE LESS THAN THE THICKNESS OF THE EXISTING ADJACENT BASE. BACKFILL SHALL BE CEMENT STABILIZED SAND (1.5 SACKS OF CEMENT/CY) *NOTE: -SELECT MATERIAL FROM EXCAVATION OR IMPORTED MATERIAL SEE TABLE 2-ITEM A MAGNETIC WARNING 12"— (PAVED AREA) ABOVE PIPE — ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL. SEE TABLE 1

W= PIPE DIA. + 2'

AND PAVEMENT REPAIR FOR UTILITIES

TRENCH BACKFILL FOR WASTEWATER LINES

3" MIN. THICKNESS. IN NO CASE SHALL REPAIR BE LESS THAN THE THICKNESS OF EXISTING PAVEMENT. PROVIDE PRIME COAT (0.15 GAL. PER SY MIN.) CONCRETE REPAIR: 12" MIN. THICKNESS. IN NO CASE SHALL REPAIR BE LESS THAN THE THICKNESS OF EXISTING CONCRETE

PER CITY ORD. 030040 ARTICLE III CUTS AND EXCAVATIONS, A PERMIT

FROM CITY DEVELOPMENT SERVICES DEPARTMENT IS REQUIRED FOR

ALL UTILITY STREET CUTS. THE INSTALLATION OF A UTILITY THAT

ANY UTILITY RELATED STREET EXCAVATION/CUT SHALL INCLUDE REPAIR OF NOT ONLY THE IMPACTED TRENCH, BUT ALSO A FULL LANE

PERPENDICULAR CUTS ON ASPHALT STREETS, AND FULL PANEL

OVERLAY/PAVEMENT REPAIR FOR PARALLEL CUTS OR 12' WIDE FOR

REPLACEMENT ON CONCRETE STREETS. A SITE SPECIFIC PAVEMENT

PAVEMENT REPAIR IN RELATION TO THE ROADWAY TRAVEL LANE(S),

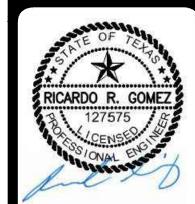
MUST BE INCLUDED IN THE DRAWINGS/PERMIT APPLICATION.

CUT AND RESTORATION PLAN THAT INDICATES THE GENERAL NATURE OF THE PAVEMENT AND ROADWAY TO BE CUT AND RESTORED, THE EXISTING PAVEMENT SECTION (IF KNOWN), THE LOCATION AND APPROXIMATE AREA OF THE EXCAVATION/PAVEMENT REPAIR, INCLUDING THE APPROXIMATE LENGTH AND WIDTH OF THE

BE INSTALLED BY CUTTING THE ROAD SECTION.

CROSSES THE ROW AT A PERPENDICULAR OR NEAR PERPENDICULAR ANGLE AND HAS AN O.D. OF 6" OR LESS WILL NOT BE PERMITTED TO

PAVEMENT.



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GENERAL NOTES FOR BACKFILL

TABLE 1 BEDDING AND INITIAL BACKFILL (BELOW PIPE TO 12" ABOVE PIPE)

ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR REFER TO DESIGN ENGINEER REQUIREMENTS: GRANULAR BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL. OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL:

(1.) EXCAVATIONS <20 FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA.

> MEETING REQUIREMENTS OF ASTM D2487 FOR: GW SP-SM GP-GM SW-SM GW-GM

ANY OVER EXCAVATION MUST BE

SHOWN IN TABLE 1.

CORRECTED WITH GRANULAR MATERIAL

NOT TO SCALE

AND IN ADDITION: PASSING 1/2" SIEVE - 100% PASSING #4 SIEVE - 30% MINIMUM PLASTICITY INDEX (PI) - NP TO 10 MAX.

(2.) IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF:

A. CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3,

B. CRUSHED LIMESTONE PER TxDOT ITEM 421' GRADE 2, 3, OR 4.

TABLE 2 FINAL BACKFILL

UNPAVED AREAS

A. FROM 12" ABOVE PIPE TO BOTTOM OF TOPSOIL BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVAT-ION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GR-EATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 10" MAX.

> COMPACT MATERIAL TO 95% STD. PROCTOR (D698).

MOISTURE TO BE ADJUSTED TO \pm 3% OF OPTIMUM.

B. TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING TOPSOIL DEPTH. COMPACT TO EXISTING ADJACENT TOP-SOIL THICKNESS. (CONSTRUCTION TO BE PERFORMED BY "DOUBLE DITCH" METHOD-TOP SOIL SALVAGED TO BE PLACED ON

(GREATER THAN 12" ABOVE PIPE) **PAVED AREAS**

A. FROM 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR IMPORTED MATERIAL. IN EITHER CASE, ALL MATERIAL SHALL MEET THE FOLLOWING: LL<35 PI 8-20 NO CLUMPS > 2" DIA.

> MOISTURE -1 TO +3%COMPACT 95% D698 STD PROCTOR LOOSE LIFTS OF 12" MAX

OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND. SEE TABLE 2-ITEM B BELOW.

B. FROM 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:

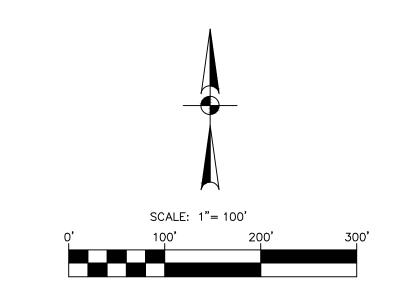
BACKFILL SHALL BE CEMENT STABILIZED SAND (1.5 SK/C.Y.)AND SHALL MEET THE FOLLOWING **REQUIREMENTS:**

SAND GRADATION: **%** PASSING

55-100 40-100 25-100 10-20 #200 NP-10

COMPACT TO 95% OF D588. MOISTURE TO BE ADJUSTED TO TO (+/-2%) OF OPTIMUM.





SWPPP LEGEND

PROJECT LIMITS EXISTING CONTOUR PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) -//-//-//-//-SILT FENCE ******* ROCK BERM GRAVEL FILTER BAGS GRATE INLET PROTECTION SEDIMENT CONTROL ROLLS

LIMITS OF DISTURBED AREA STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)

CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE) CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)

12/15/2023 0

RICARDO R. GOME

'E PUBLIC WASTEWAT ORPUS CHRISTI, TEXAS WATER

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21018-00

DATE DECEMBER 2023

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DESIGNER

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND

FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE

ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR

SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE

THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE

AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON

CAUTION!!

THESE PLANS OR NOT.

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY

CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CURB AND INLET TOP.

CURB INLET - PLAN

NOT TO SCALE

TYPICAL SILT FENCE INSTALLATION AT CURB INLET PRIOR TO PLACEMENT OF

(NORMAL) -SUPPORT POSTS /MANHOLE WALLS SILT FENCE ~ · 32 LF OF SILT FENCE PER MANHOLE

MANHOLE - PLAN

NOT TO SCALE

- 1. FILTER FABRIC INLET PROTECTION SHALL BE USED DURING CONSTRUCTION TO CONTROL SEDIMENTATION.
- 2. PERIMETER SILT FENCING AROUND INLET LOCATIONS SHALL BE INSTALLED AFTER PIPE IS PLACED. 3. FABRIC MATERIAL SHALL BE A NET-REINFORCED
- FENCE, USING WOVEN GEOTEXTILE FABRIC. 4. FENCE SHOULD BE REMOVED UPON COMPLETION OF CONSTRUCTION.

TEMPORARY FILTER FABRIC **INLET PROTECTION DETAIL**

NOT TO SCALE

FILTER FABRIC

4' LONG (MIN.) STEEL "T" POSTS OR WOOD POSTS SPACED AT 6' TO 8' MAXIMUM -FASTEN FABRIC TO TOP STRAND OF WELDED WIRE MESH (W.W.M.) BY HOG RINGS OR CORD AT A MAX. SPACING OF 15" 4 OZ. MIN. WOVEN — - ATTACH THE W.W.M. & FABRIC ON GEOTEXTILE FILTER END POSTS USING 4 EVENLY SPACED STAPLES (WOOD POSTS) OR T-CLIPS FOR STEEL POSTS REFER TO STANDARD SPECIFICATION SECTION 022420 "SILT FENCE" TRENCH PLACE 6" OF FABRIC INTO AND AGAINST THE TRENCH WALL AND APPROX. 2" ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION MINIMUM TRENCH SIZE SHALL BE 6" SQUARE. BACKFILL AND HAND TAMP GALV. W.W. MESH (12.5 GA. MIN.) MAX. OPENING SIZE SHALL BE 2" X 4" EMBED POST 18"

RICARDO R. GOME 12/15/2023

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DATE DECEMBER 2023

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TEMPORARY SEDIMENT CONTROL FENCE DETAIL

SEDIMENT CONTROL FENCE USAGE GUIDELINES:

SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

NOT TO SCALE

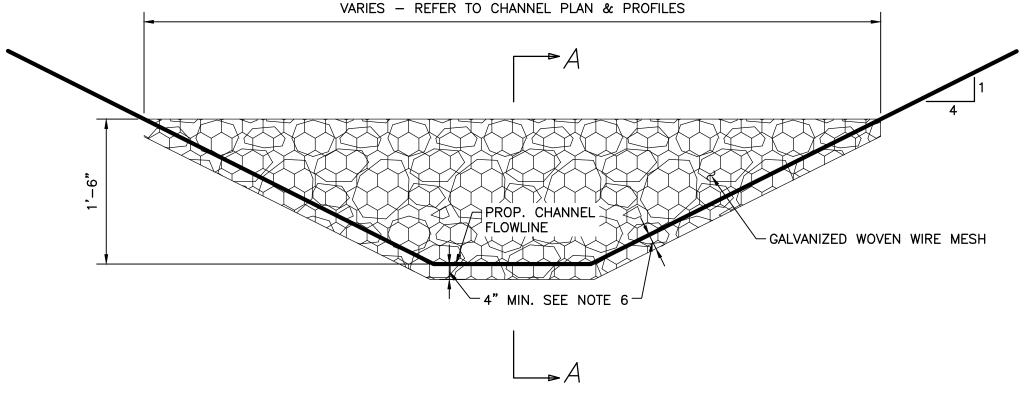
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE LARGER THEN 2 ACRES.

SYMBOL: ---SCF---

* THE GUIDELINES SHOWN HERE ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

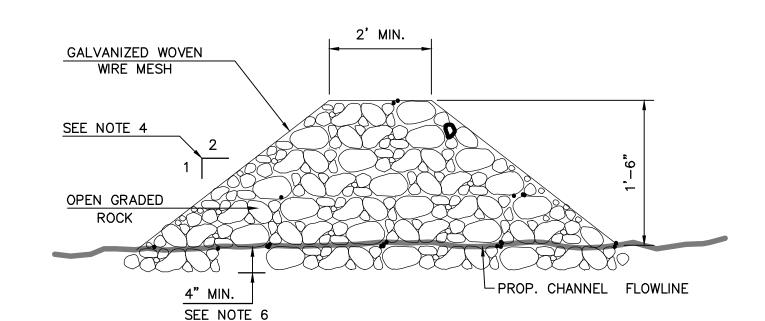
-GRADE TO PREVENT RUNOFF

FROM LEAVING SITE



ROCK FILTER DAM AT EARTHEN BOTTOM CHANNEL

NOT TO SCALE



SECTION A-A NOT TO SCALE

ROCK FILTER DAM NOTES:

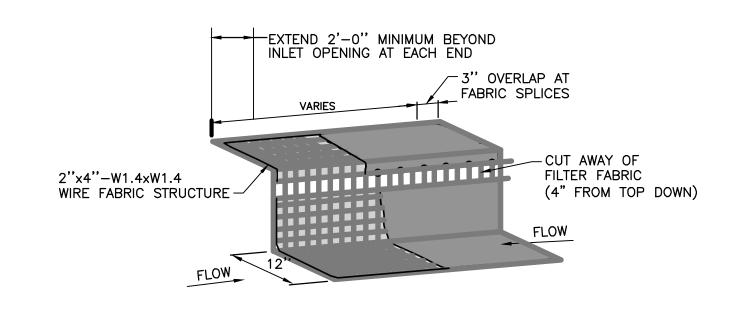
- 1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND/OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
- 2. MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATIONS FOR "ROCK FILTER DAMS FOR EROSION AND SEDIMENT CONTROL."
- 3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE PLANS.
- 4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER. 5. ROCK FILTER DAM SHALL BE A MINIMUM OF TWO FEET IN THICKNESS AT TOP OF DAM
- 6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO EXISTING GROUND.
- 7. THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
- 8. ROCK FILTER DAM SHALL BE SECURED WITH 20 GUAGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT & SLOPE SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
- 9. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.) 10. THE GUIDLELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

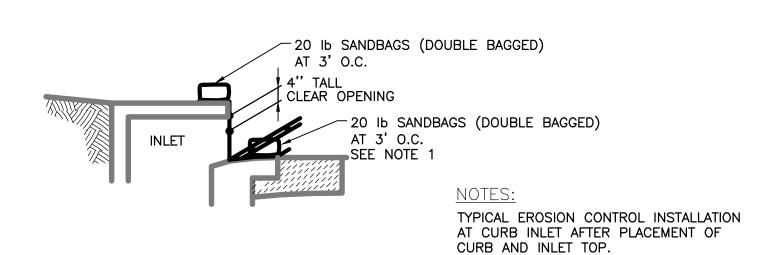
- ROADWAY EXISTING GRADE -PROPARTIKATIKATIKATIKATIKATIKATI PROFILE -PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY PLAN

STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

CONSTRUCTION ENTRANCE NOTES:

- 1. STONE SIZE: 3-5" OPEN GRADED ROCK.
- 2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
- 3. THICKNESS: NOT LESS THAN 8".
- 4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
- WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- 6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
- 7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.





CURB INLET PROTECTION DETAIL NOT TO SCALE

CURB INLET PROTECTION NOTES:

- 1. TO HOLD THE FILTER DIKE IN PLACE, 20 LB SANDBAGS SHALL BE USED AT 3' O.C. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1"X4" BOARD, SECURED WITH 1/4" OR 3/8" CONCRETE SCREWS. THE 1/4" OR 3/8" CONCRETE SCREWS SHALL BE ATTACHED TO THE GUTTER BY DRILLING AN APPROPRIATE PILOT HOLE WITH A CONCRETE BIT AND INSERT PLASTIC FASTENERS. THE TOP OF THE SCREW SHALL BE RECESSED BELOW THE TOP OF THE BOARD. THE SCREWS SHALL BE PLACED ON 3' O.C. THIS METHOD IS USED IN LIEU OF SANDBAGS, IN THE GUTTER ONLY, TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, EITHER LEAVE THE PLASTIC FASTENERS IN PLACE, OR REMOVE THE PLASTIC FASTENERS, CLEAN ANY DIRT/DEBRIS FROM THE SCREW LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH THE SURFACE OF THE GUTTER. THIS METHOD SHALL NOT BE USED ON THE INLET IN LIEU OF SANDBAGS.
- 2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
- 3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2". INLET PROTECTION SHALL BE REPLACED AS NECESSARY DURING CONSTRUCTION DUE TO DAMAGE OR DETERIORATION (SUBSIDIARY TO INLET PROTECTION). 4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL

EVENT AND ONLY REMOVE INLET PROTECTION IF DIRECTED BY THE CITY OF CORPUS CHRISTI, OR IF

5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

CONTRACTOR OBSERVES AN IMMINENT THREAT OF FLOODING OF SURROUNDING PROPERTY.

S DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2016,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

EXHIBIT 4

Project Name:	Haven Drive Public Wastewater Main	
Project #:	roject #: 21018-00	
Owner:	wner: Public Improvements for City of Corpus Christi funded by MPM Development	
Designer:	Stephen Skrobarczyk	

Item	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE		TOTAL		
BID FORM								
A1	Mobilization	LS	1	\$ 50,000.00	\$	50,000.00		
A2	Bonds and Insurance	LS	1	\$ 60,000.00	\$	60,000.00		
А3	SWPPP plan	LS	1	\$ 15,000.00	\$	15,000.00		
A4	SWPPP BMPs	LS	1	\$ 6,000.00	\$	6,000.00		
A5	Silt Fence	LF	3739	\$ 8.00	\$	29,912.00		
A6	Replace Stop Sign	EA	1	\$ 850.00	\$	850.00		
A7	Traffic Control Plan	LS	1	\$ 15,000.00	\$	15,000.00		
A8	Temporary Traffic Control Installation and Maintenance	LS	1	\$ 10,000.00	\$	10,000.00		
A9	Full Depth HMAC Pavement Repair	SY	40	\$ 150.00	\$	6,000.00		
A10	15" SDR-26 PVC Wastewater Main, Embedment, Trench, and Backfill	LF	3745	\$ 195.00	\$	730,275.00		
A11	4' Diameter Manhole (Up to 10' Depth)	EA	9	\$ 20,000.00	\$	180,000.00		
A12	4' Diameter Manhole (Additional Depth)	VF	20	\$ 7,500.00	\$	150,000.00		
A13	Tie-in Existing Manhole	EA	1	\$ 10,000.00	\$	10,000.00		
A14	Control of WW Flow	LS	1	\$ 15,000.00	\$	15,000.00		
A15	Dewatering	LF	3745	\$ 70.00	\$	262,150.00		
A16	OSHA Trench Safety for Structures	EA	10	\$ 3,500.00	\$	35,000.00		
A17	OSHA Trench Safety for Trench	EA	3745	\$ 9.00	\$	33,705.00		

TOTAL \$ 1,608,892.00

Contingency 10%: \$ 160,889.20

Engineer 13%: \$ 209,155.96

GRAND TOTAL \$ 1,978,937.16

EXHIBIT 5



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

TREET: P.O. BO	OX 331308	CITY: CC	RPUS CHI	RISTI ,	78463
IRM is: Corporation	on Partnership	☐ Sole Owner	☐ Association	Other	.ir
		DISCLOSURE QU	JESTIONS		
additional space is ne	cessary, please use	the reverse side of	of this page or attac	ch separate sh	eet
. State the names	of each "employed	e" of the City o	6 Camus Ob. ! !!	having an "	ownership intere
constituting 3% or Name	more of the owner	ship in the above	named "firm".		
N/A			Job Title and C	ity Department	(if known)
IN/A			N/A		
				THE PARTY	
State the names	of each "official"	of the City of	Corpus Christi	having an "c	wnership intere
Name	more of the owners	ship in the above	named "firm".		
N/A			Title		
			N/A		
State the names of constituting 3% or Name	f each "board mem more of the owners	ber" of the City	named "firm".		
The state of the s	more of the owners	ber" of the City ship in the above	Board, Commiss	sion, or Commi	ttee
Name	more of the owners	ber" of the City ship in the above	Board, Commiss	sion, or Commi	ttee
Name Mossa Mostag	hasi	mp in the above	Board, Commiss Capital Impro	sion, or Commi ovement Adv	ttee risory Committe
Mossa Mostage State the names of on any matter relati	each employee or ed to the subject of	officer of a "cons	Board, Commiss Capital Impro	sion, or Commi	ttee risory Committe
Name Mossa Mostag State the names of on any matter relate more of the owners	each employee or ed to the subject of	officer of a "cons	Board, Commiss Capital Impro	sion, or Commi	ttee risory Committe
Name Mossa Mostag State the names of on any matter relate more of the owners Name	each employee or ed to the subject of	officer of a "cons	Board, Commiss Capital Impro sultant" for the Ci d has an "owners Consultant	sion, or Commi	ttee risory Committe
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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.