

DEFERMENT AGREEMENT

STATE OF TEXAS §
§
COUNTY OF NUECES §

This deferment agreement ("Agreement") is entered into between the City of Corpus Christi ("City"), a Texas home-rule municipality, and Puerto Los Caballeros (the "Owner") in order to defer the completion of certain required public improvements prior to recording the final plat of Puerto Los Caballeros Tract, Block 1, Lot 1, Corpus Christi, Nueces County, Texas (the "Plat"). A copy of the Plat is attached and incorporated by reference into this Agreement as **Exhibit 1**.

WHEREAS, the Owner is obligated under Section 8.1 of the Unified Development Code ("UDC") to construct the required public improvements before the final Plat is endorsed by the City's City Engineer or Development Services Engineer, as applicable ("City Engineer");

WHEREAS, the Owner is seeking to delay the construction of the required public improvements ("Deferred Improvements") shown in **Exhibit 2**, which exhibit is attached and incorporated by reference into this Agreement, and to have the Plat filed immediately with the County Clerk of Nueces County, Texas;

WHEREAS, in order to have the Plat filed prior to completion of the Deferred Improvements, the Owner agrees to construct the improvements in Exhibit 2;

WHEREAS, by signing this Agreement, the Owner represent that they have completed all other subdivision and platting requirements under the UDC including required park dedications;

WHEREAS, by signing this Agreement, the Owner represent that they have executed all park deferment agreements, maintenance agreements, and all special covenants required under the UDC, in accordance with the UDC;

WHEREAS, the Owner is entering into this Agreement pursuant to Section 8.1.10 of the UDC in order to defer construction and record the final Plat.

NOW, THEREFORE, for the consideration set forth in this Agreement, the City and Owner agree as follows:

1. The preamble to this Agreement is substantive content in this Agreement and upon which all parties to this Agreement have relied and will continue to rely during the term of this Agreement.
2. Pursuant to the Owner's representations in the preamble to this Agreement and In consideration of the Owner's covenants in this Agreement, the City agrees to waive the requirement that construction of the Deferred Improvements be

completed before the final Plat is endorsed by the City Engineer and filed for record with the County Clerk of Nueces County, and City further agrees to allow the Owner to delay construction of the Deferred Improvements.

3. Detailed construction drawings must be provided by the Owner and accepted by the City's Development Services Engineer prior to the start of construction of the Deferred Improvements.
4. The Owner shall construct the Deferred Improvements in accordance with the River Acres Water System engineering standards in effect at the time of construction and in accordance with the construction drawings accepted pursuant to the paragraph above.
5. No building permit for vertical structures shall be issued for all or any portion of the real property that is subject of the Plat until the Deferred Improvements are constructed, installed in working order, and accepted by the River Acres Water System in accordance with the provisions of this Agreement.
6. Upon completion of the Deferred Improvements by the Owner as verified by the Assistant City Manager and Director of Development Services and acceptance of the Deferred Improvements by the River Acres Water System, this agreement is terminated.
7. The City and Owner agree that if the Owner formally vacates the current Plat with approval of the Planning Commission, this agreement is terminated.
8. If Owner defaults in any of their covenants or obligations under this Agreement, the City shall not issue any building permits for vertical structure or certificate of occupancy for projects subject of the Plat.
9. The City reserves the right not to issue certificates of occupancy for all or any portion of the real property that is subject of the Plat until the Deferred Improvements are constructed, installed in working order, and accepted by the City Engineer in accordance with the provisions of this Agreement.
10. No party may assign this Agreement or any rights under this Agreement without the prior written approval of the other party and by amendment to this Agreement.
11. By execution of this Agreement, the Owner covenants to construct the Deferred Improvements required by this Agreement, and this covenant shall be a covenant running with the land and authorized by the Owner. The City, at the Owner's expense, shall file for record this Agreement in the official public records of Nueces County.
12. The following Plat note will be added to the Final Plat prior to recordation: No certificate of occupancy or building permit will be issued unless water is available

to serve the property and public improvements are constructed pursuant to deferment agreement.

13. No changes or modifications to this Agreement may be made, nor any provisions waived, unless the change or modification is made in writing and signed by persons authorized to sign agreements on behalf of each party.
14. If, for any reason, any section, paragraph, subdivision, clause, provision, phrase, or word of this Agreement or the application thereof to any person or circumstance is, to any extent, held illegal, invalid, or unenforceable under present or future law or by a final judgment of a court of competent jurisdiction, then the remainder of this Agreement, or the application of said term or provision to persons or circumstances other than those as to which it is held illegal, invalid, or unenforceable, will not be affected thereby, for it is the definite intent of the parties to this Agreement that every section, paragraph, subdivision, clause, provision, phrase, or word of this Agreement be given full force and effect for its purpose.
15. The Owner shall, in compliance with Section 2-349 of the City's Code of Ordinances, complete the City's *Disclosure of Interests* form, which is attached to this Agreement as **Exhibit 3**, the contents of which, as a completed form, are incorporated in this Agreement by reference as if fully set out here in its entirety.
16. The Owner shall comply with all federal, state, and local laws, regulations, and rules applicable to performance of this Agreement.
17. This Agreement shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created pursuant to this Agreement are performable in Nueces County, Texas. Venue for all actions arising from or pursuant to this Agreement shall be brought in Nueces County, Texas.
18. Strict performance of the provisions of this Agreement by the Owner is required by the City as a condition of this Agreement. The Owner specifically acknowledge and agree that failure by the Owner to adhere or comply with any term, condition, or requirement of this Agreement constitutes a default of this Agreement.
19. All signatories to this Agreement warrant and guarantee that they have the authority to act on behalf of the person or entity represented and make this Agreement binding and enforceable by their signature.
20. This Agreement is to be executed in **One Original**, of which constitutes an original document. This Agreement becomes effective and is binding upon and inures to the benefit of the City and Owner and their successors and assigns from and after the date the Agreement has been executed by all signatories.

(EXECUTION PAGES FOLLOW)

EXECUTED IN ONE ORIGINAL and made effective this _____ day of _____, 20____.

CITY OF CORPUS CHRISTI
P. O. Box 9277
Corpus Christi, TX 78469-9277
(361) 826-3240 Office
(361) 826-4428 Fax

Signature
Printed Name: _____
Title: Assistant City Manager, or Designee

THE STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on _____, 20____, by _____, _____ (title)
for the City of Corpus Christi, Texas.

Notary Public's Signature

APPROVED AS A STANDARD FORM LEGAL DOCUMENT: _____, 20____.

CITY ATTORNEY

Signature
Printed Name: _____
Title: Assistant City Attorney

OWNER:

PUERTO LOS CABALLEROS, LLC
P.O. BOX 9605
CORPUS CHRISTI, TEXAS 78469
OFFICE: (361)882-8870
FAX: (361)767-1911

Daniel Murphy
Signature

Printed Name: DAN MORPHY

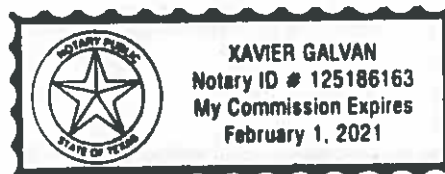
Title: MEMBER

Date: 10-19-18

STATE OF Texas §
COUNTY OF Nueces §

This instrument was acknowledged before me on October 19, 2018, by
Daniel J. Murphy, Member (title) of
PUERTO LOS CABALLEROS, LLC, A TEXAS, LIMITED LIABILITY COMPANY, on
behalf of said corporation.

Xavier Galvan
Notary Public's Signature



Attached and incorporated by reference into this Agreement:

- Exhibit 1 – Plat
- Exhibit 2 – Required Public Improvements
- Exhibit 3 – Disclosure of Interests

Notes:

- 1.) Total platted area contains 39.75 Acres of Land. (Includes Street Dedication)
- 2.) The receiving water for the storm water runoff from this property is the Nueces River upstream of the Calallen Salt Water Intrusion Dam located 1.1 miles from Nueces Bay and the Oso Creek. The TCEQ has classified the aquatic life use for this segment of the Nueces River as "high". TCEQ also categorized the Nueces River as "contact recreation" use. Additional water quality protection measures must be observed for this receiving water due to the TCEQ designation as a "public water supply". 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.) Grid Bearings and Distances shown hereon are referenced to the Texas Coordinate System of 1983, Texas South Zone 4205, and are based on the North American Datum of 1983(2011) Epoch 2010.00.
- 4.) By graphic plotting only, this property is in Zone "C" on Flood Insurance Rate Map, Community Panel No. 485494 0256 C, City of Corpus Christi, Texas, which bears an effective date of March 18, 1985 and is not in a Special Flood Hazard Area.
- 5.) The yard requirement, as depicted is a requirement of the Unified Development Code and is subject to change as the zoning may change.
- 6.) If any lot is developed with residential uses, compliance with open space regulation will be required during the building permit phase.

State of Texas
County of Nueces

Puerto Los Caballeros, LLC, a Texas limited liability company, hereby certifies that it is the owner of the lands embraced within the boundaries of the foregoing plat; that it has had said lands surveyed and subdivided as shown; that streets shown are dedicated to the public use forever; that easements as shown are dedicated to the public use for the installation, operation and use of public utilities; and that this map was made for the purpose of description and dedication.

This the _____ day of _____, 20____

By: Puerto Los Caballeros, LLC, a Texas limited liability company

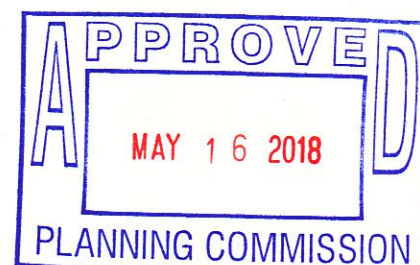
By: _____
Daniel J. Murphy, member

State of Texas
County of Nueces

This instrument was acknowledged before me by Daniel J. Murphy, member of Puerto Los Caballeros, LLC, a Texas limited liability company, on behalf of said entity in said capacity.

This the _____ day of _____, 20____

Notary Public in and for the State of Texas



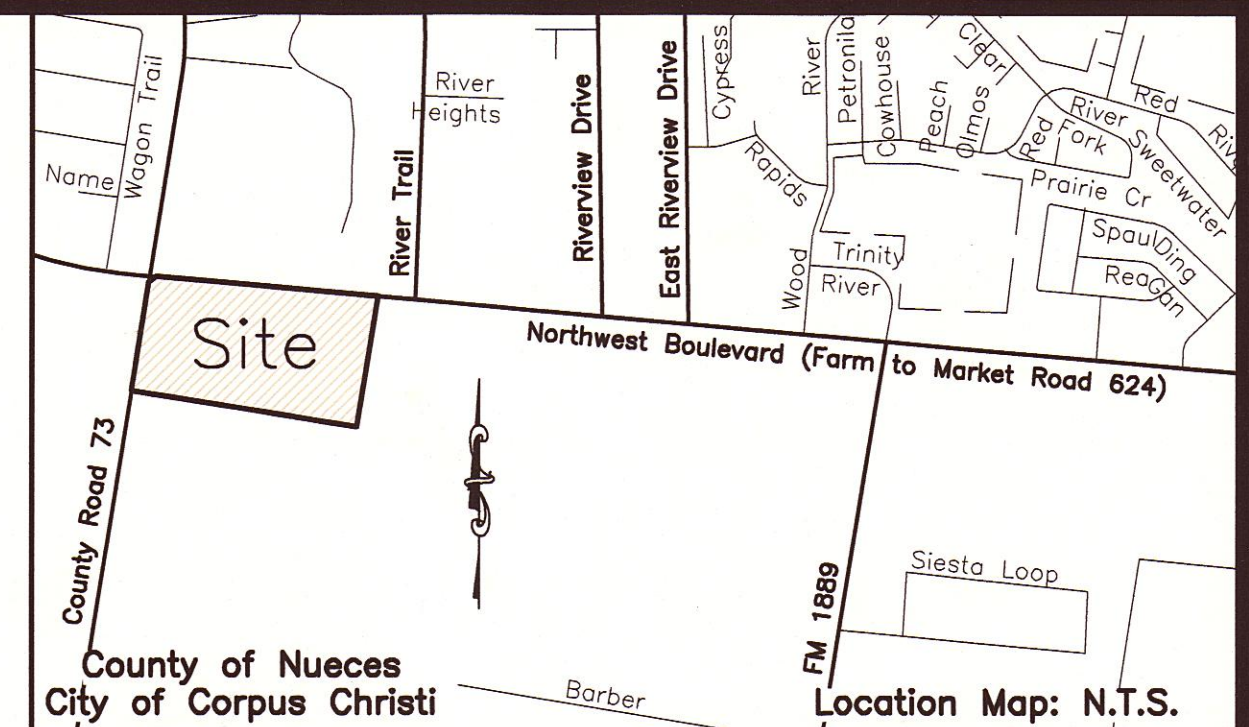
Plat of
Puerto Los Caballeros Tract
Block 1, Lot 1

39.750 Acres, situated in the Mariano Lopez de Herrera Grant, Abstract No. 606, Nueces County, Texas, being the same 39.750 Acre Tract described in Warranty Deed from 624 Property, LLC, a Texas limited liability company to Puerto Los Caballeros LLC, as recorded in Document No. 2017042666, Official Public Records of Nueces County, Texas.

State of Texas
County of Nueces

This final plat approved by the Corpus Christi - Nueces County Health Department. This the _____ day of _____, 2018. Any private sewage system shall be approved by the Corpus Christi - Nueces County health Department prior to installation.

Lauren Rabe, MPA
Nueces County, Health Department



State of Texas
County of Nueces

This final plat of the herein described property was approved by the Department of Development Services of the City of Corpus Christi, Texas.

This the _____ day of _____, 20____

William J. Green, P.E.
Development Services Engineer

State of Texas
County of Nueces

This 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____

Nina Nixon-Mendez, FAICP
Secretary

Eric Villarreal, P.E.
Chairman

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 said County in Volume _____, Page _____, Map Records.

Witness my hand and seal of the County Court, in and for said County, at office in Corpus Christi, Texas, the day and year last written.

No. _____
Filed for Record
at _____ O'clock _____M.,
_____, 20____

Kara Sands, County Clerk
Nueces County, Texas

By: _____
Deputy

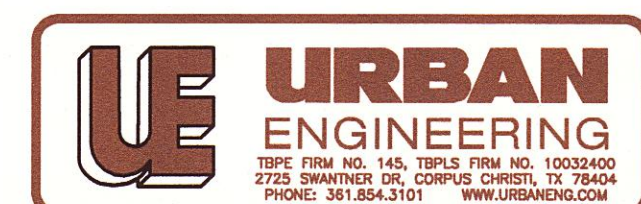
State of Texas
County of Nueces

I, James D. Carr, a Registered Professional Land Surveyor for Urban Engineering, have prepared the foregoing map from a survey made on the ground under my direction and is true and correct to the best of my knowledge, information and belief; I have been engaged under contract to set all Lot and Block corners as shown herein and to complete such operations with due and reasonable diligence consistent with sound professional practice.

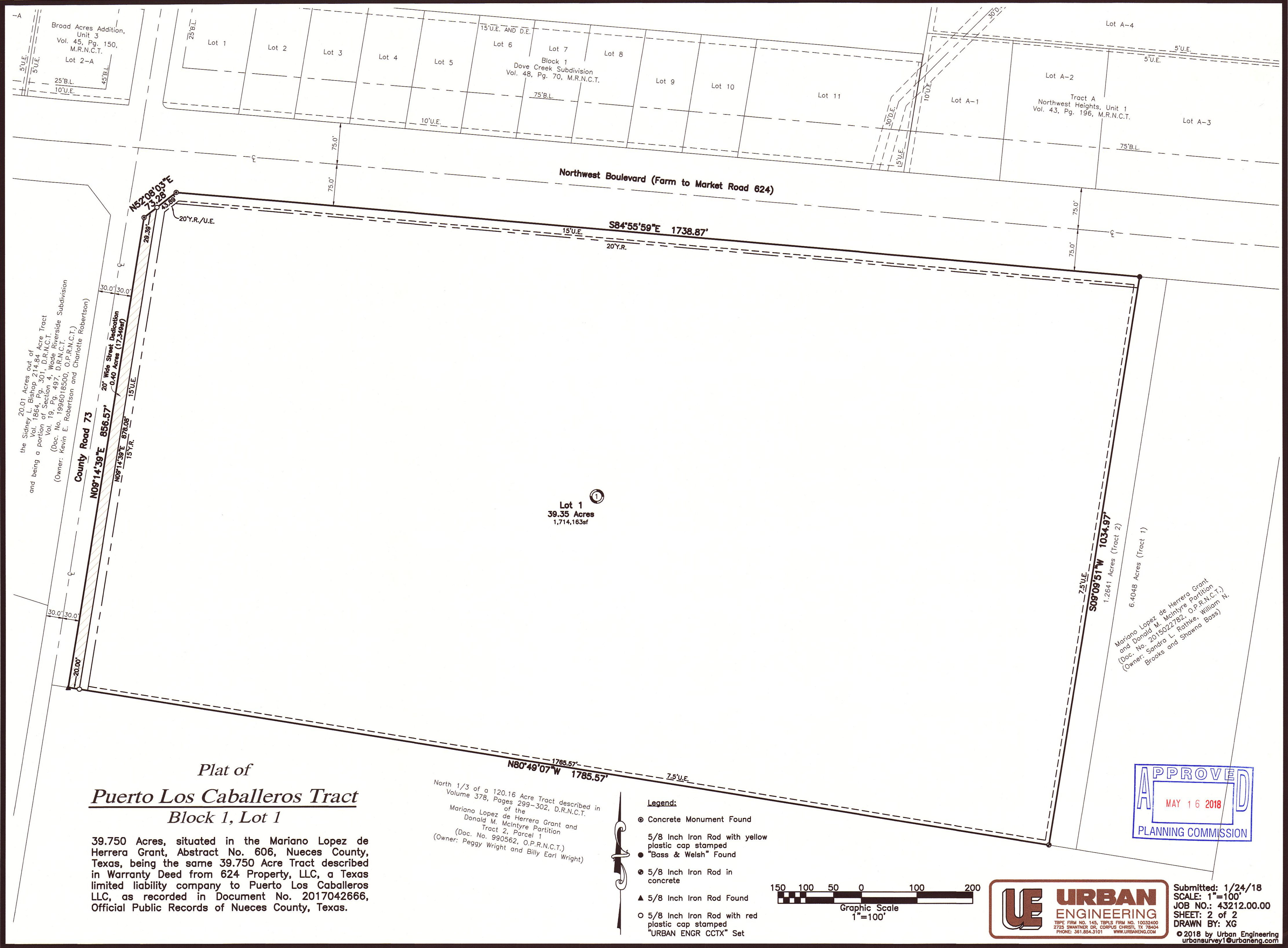
This the _____ day of _____, 20____

Preliminary, this document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

James D. Carr, R.P.L.S.
Texas License No. 6458



Submitted: 1/24/18
SCALE: 1"=100'
JOB NO.: 43212.00.00
SHEET: 1 of 2
DRAWN BY: XG
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urbansurvey1@urbaneng.com



20.01 Acres out of
the Sidney L. Bishop 214.84 Acre Tract
Vol. 1864, Pg. 301, D.R.N.C.T.
and being a portion of
Vol. 19, Section 4, West Riverside Subdivision
(Doc. No. 497, D.R.N.C.T.)
(Owner: Kevin E. Robertson and Charlotte Robertson)

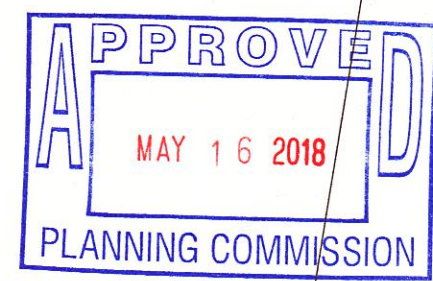
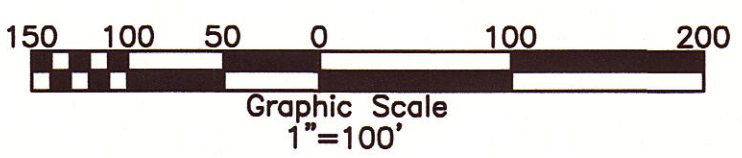
County Road 73
N09°14'39"E 856.57'
20' Wide Street Dedication
0.40 Acres (17,346sf)
N09°14'39"E 878.08'
15'Y.R.

Plat of
Puerto Los Caballeros Tract
Block 1, Lot 1

39.750 Acres, situated in the Mariano Lopez de
Herrera Grant, Abstract No. 606, Nueces County,
Texas, being the same 39.750 Acre Tract described
in Warranty Deed from 624 Property, LLC, a Texas
limited liability company to Puerto Los Caballeros
LLC, as recorded in Document No. 2017042666,
Official Public Records of Nueces County, Texas.

North 1/3 of a 120.16 Acre Tract described in
Volume 378, Pages 299-302, D.R.N.C.T.
of the
Mariano Lopez de Herrera Grant and
Donald M. McIntyre Partition
Tract 2, Parcel 1
(Doc. No. 990562, O.P.R.N.C.T.)
(Owner: Peggy Wright and Billy Earl Wright)

- Legend:**
- Concrete Monument Found
 - 5/8 Inch Iron Rod with yellow plastic cap stamped
 - "Bass & Welsh" Found
 - 5/8 Inch Iron Rod in concrete
 - ▲ 5/8 Inch Iron Rod Found
 - 5/8 Inch Iron Rod with red plastic cap stamped
 - "URBAN ENGR CCTX" Set



Submitted: 1/24/18
SCALE: 1"=100'
JOB NO.: 43212.00.00
SHEET: 2 of 2
DRAWN BY: XG
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urbansurvey1@urbaneng.com

CONSTRUCTION PLANS FOR

WATERLINE EXTENSION

SEPTEMBER 2018

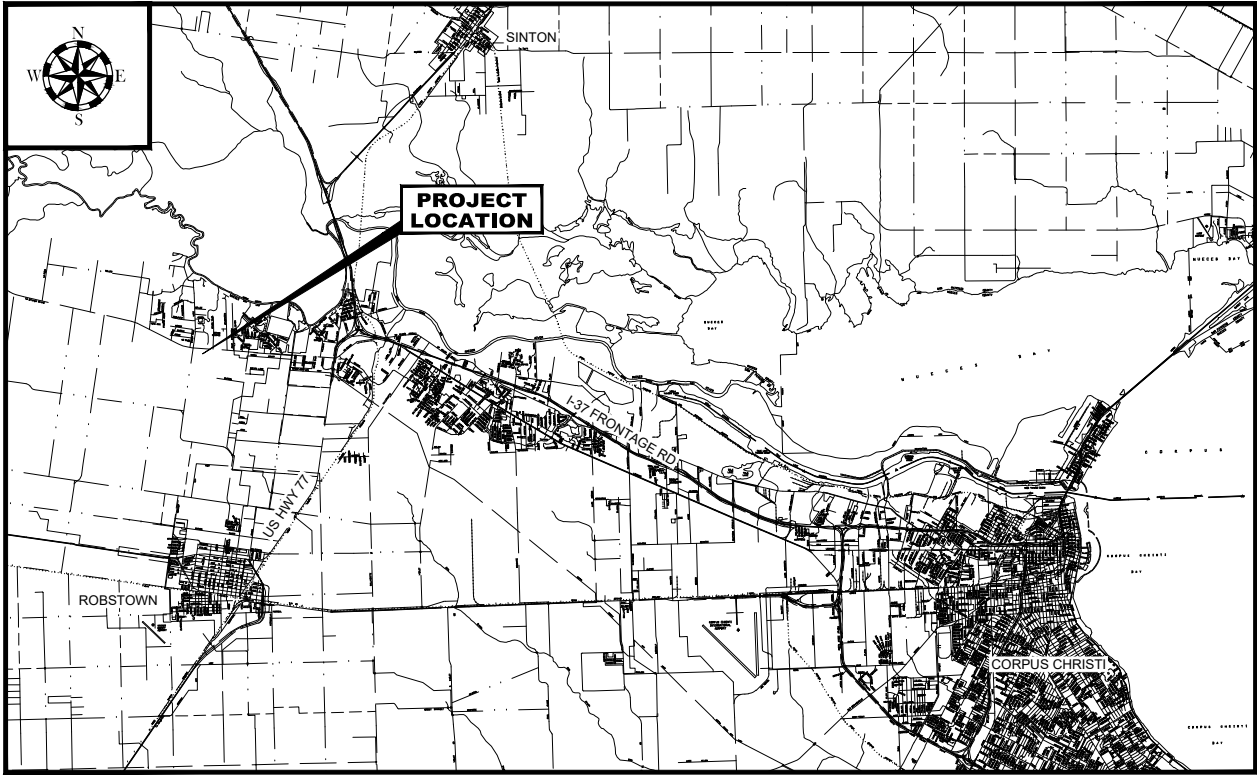
PREPARED FOR
MURPHY LLC - RAW'S CORP.
NUECES COUNTY, TEXAS

SHEET INDEX

1	COVER SHEET
2	GENERAL NOTES
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4	WATERLINE ALIGNMENT
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5	STORM WATER POLLUTION PREVENTION PLAN
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7	DETAILS 2 OF 2

BOARD MEMBERS

PRESIDENT.....	KYLE CLARK
VICE PRESIDENT.....	
SEC./TREASURER.....	DARRELL DUSEK
DIRECTOR.....	CLAUDE BRADSHAW, JR.
DIRECTOR	CHARLES TENPENNEY
DIRECTOR.....	RONNIE LIGHTFOOT
FIELD MANAGER.....	BRENT BURKHART



LOCATION MAP

10000 5000 0 10000 20000
GRAPHIC SCALE IN FEET



VICINITY MAP

500 0 500 1000
GRAPHIC SCALE IN FEET

CALL BEFORE YOU DIG!



PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG,
DRILL, OR BLAST - STOP AND CALL

811

THE LONE STAR
NOTIFICATION COMPANY
AT 1-800-669-8344



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Hanson Professional Services Inc.

4501 Gollihar Rd.
Corpus Christi, Texas 78411
TBPE F-417 / TBPLS F-10039500 / TBAE F-BR 2458

THIS DOCUMENT IS RELEASED
FOR THE PURPOSE OF REVIEW
UNDER THE AUTHORITY OF:

Name: PAUL M. PIARCZYK, P.E.
Serial No. 82080
Date: 8/10/2018

AND IT IS NOT TO BE USED
FOR ANY OTHER PURPOSE.

1

GENERAL NOTES

1. GENERAL REQUIREMENTS

- A. WORK AREAS SHALL BE KEPT, AT ALL TIMES, FREE OF DEBRIS AND NON-HAZARDOUS MATERIAL TO THE SATISFACTION OF THE OWNER. ALL EXISTING PIPING AND CONDUITS SHALL HAVE TEMPORARY PROTECTION DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE STORAGE OF MATERIALS, PARKING OF VEHICLES, AND RESTRICTIONS OF WORK WITH THE OWNER. AFTER PROJECT COMPLETION, THE SITE SHALL BE CLEANED UP TO ITS CONDITION PRIOR TO THE START OF CONSTRUCTION TO THE SATISFACTION OF THE OWNER.
- B. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS REMOVED WHICH ARE NOT TO BE REINSTALLED OR SALVAGED ON THE PROJECT. DISPOSAL OF MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- C. UNLESS PRIOR PERMISSION IS OBTAINED FROM THE OWNER, THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY, STAGING, AREAS, ETC. WITHIN THE LIMITS OF CONSTRUCTION.
- D. ADEQUATE BARRICADES, WARNINGS, AND LIGHTING WILL BE EMPLOYED FOR SAFETY AND TRAFFIC FLOW. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE TEXAS MANUAL OF UNIFORM CONTROL DEVICES FOR STREETS AND HIGHWAYS, AT NO SEPARATE PAY.
- E. THE CONTRACTOR SHALL REMOVE, REPLACE, AND RESTORE TO ORIGINAL CONDITION, ELEVATION AND LOCATION, ALL EXISTING CULVERTS, MAILBOXES, AND OTHER EXISTING IMPROVEMENTS, INCLUDING DRIVEWAYS AND ROADS ENCOUNTERED DURING CONSTRUCTION. ALL ENTRANCES SHALL BE RESTORED IMMEDIATELY. INGRESS AND EGRESS TO PROPERTY ADJACENT TO CONSTRUCTION SHALL BE MAINTAINED BY THE CONTRACTOR, AT NO SEPARATE PAY. DRIVEWAYS SHALL BE SAW CUT AND REPLACED WITH MATERIALS MEETING THE SAME DEPTH AND WIDTH REQUIREMENTS AS THE EXISTING DRIVEWAYS.
- F. TREE TRIMMING SHALL BE DONE IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICES. TREES WITHIN THE RIGHT OF WAY SHALL BE REMOVED AS DIRECTED BY THE OWNER.
- G. BRUSH CLEARING SHALL BE DONE WHEN NECESSARY. ALL CLEARED BRUSH SHALL BE REMOVED FROM THE SITE.
- H. EXCAVATIONS SHALL NOT BE MADE DURING INCLEMENT WEATHER. WATER ACCUMULATION IN EXCAVATIONS EXCEEDING ONE INCH (1") SHALL BE PUMPED OUT BEFORE THE UTILITY LINE IS PLACED.
- I. CONTRACTOR SHALL MARK ALL AS-BUILT CONDITIONS FOR UTILITY LINES ON THE PLANS AND SUBMIT TO THE ENGINEER AT THE END OF THE PROJECT.
- J. THE CONTRACTOR SHALL BE AVAILABLE FOR A PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, NUECES COUNTY, AND RIVER ACRES WATER SUPPLY CORPORATION PRIOR TO THE START OF CONSTRUCTION. THE TIME AND PLACE OF THE CONFERENCE SHALL BE SET BY THE COUNTY FOLLOWING AWARD OF THE CONTRACT.
- K. THE CONTRACTOR SHALL PROVIDE INTERIM DRAINAGE DURING CONSTRUCTION AS REQUIRED. USE PUMPS, TEMPORARY DITCHES, ETC. TO MAINTAIN WELL DRAINED SITE FREE OF STANDING WATER AND WATER SOFTENED SOILS.
- L. THE CONTRACTOR SHALL "POTHOLE" ALL FIBER OPTIC AND UTILITY LINES AHEAD OF THE CONSTRUCTION CREWS AND VERIFY EXISTING VERTICAL ELEVATIONS PRIOR TO START OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH POTHOLING SHALL BE PAID FOR BY THE CONTRACTOR. ONE CALL SHALL MARK THE LINES PRIOR TO POTHOLING.
- M. PERMITS HAVE BEEN ACQUIRED FROM THE COUNTY FOR COMPLETION OF THIS PROJECT. THE CONTRACTOR SHALL REVIEW THESE PERMITS AND MEET ANY CONSTRUCTION REQUIREMENTS OUTLINED WITHIN THE DOCUMENTS. A COPY OF ALL THE DOCUMENTS SHALL BE KEPT ON THE CONSTRUCTION SITE AT ALL TIMES.

2. UTILITY COORDINATION

- A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE IN ORDER TO BECOME FAMILIAR WITH THE SITE CONDITIONS PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR IS TO RESEARCH THE EXISTING CONDITIONS AND PROPOSED WORK TO BECOME FULLY AWARE OF THE INTENT OF THE WORK. THE CONTRACTOR WILL BE REQUIRED TO ACQUIRE ALL NECESSARY PERMITS AND PAY ASSOCIATED FEES.
- B. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED BY THE SURVEY PARTY CREWS, FROM THE OWNER, AND FROM UTILITY RECORDS REGARDING THE LOCATION AND NATURE OF PIPELINES, STORM SEWER, WATERLINES, SEWER LINES, TELEPHONE CONDUITS, GAS LINES, ETC. HOWEVER, THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE SUCH UNDERGROUND FEATURES SUFFICIENTLY IN ADVANCE OF OPERATION TO PRECLUDE DAMAGE TO SAME. DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- C. CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY OF FIELD VERIFYING EACH UTILITY LOCATION AT LEAST FORTY EIGHT (48) HOURS PRIOR TO COMMENCING ANY ITEMS OF WORK.
- D. THE CONTRACTOR SHALL NOTIFY ALL RESIDENTIAL/BUSINESS OWNERS, UTILITY COMPANIES, AND STATE/LOCAL OFFICIALS (WHEN APPLICABLE) ALONG THE UTILITY ALIGNMENT A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION. THE FOLLOWING ARE TELEPHONE NUMBERS FOR ENTITIES MOST LIKELY TO BE AFFECTED:
- Dig Toss

1-800-344-8377

Texas One Call System

1-800-245-4545

Texas Excavation Safety System

1-800-344-8377

Lone Star Notification Company

1-800-669-8344

Southwestern Bell Locate Group

1-800-628-5127

City of Aransas Pass

1-361-758-3111

Texas Department of Transportation

1-361-364-6405

County Commissioner Nina Trevino

1-361-364-6170

- E. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAKE CHANGES IN WATERLINE GRADES TO PERMIT THE LINES TO PASS ALL UNDERGROUND LINES, AS AUTHORIZED BY THE ENGINEER, AND IN ACCORDANCE WITH TCEQ'S "TEXAS ADMINISTRATIVE CODE" CHAPTER 217, SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET CHAPTER 290.44(E) OF THE CURRENT RULES. THESE ADJUSTMENTS SHALL BE PERFORMED BY THE CONTRACTOR AT NO INCREASE IN THE CONTRACT PRICE, NOR ANY ADJUSTMENT TO THE CONTRACT TIME DUE TO DELAYS DUE TO UTILITY CONFLICTS.

MINIMUM CLEARANCE BETWEEN WATER AND SEWER LINES, MANHOLES AND/OR SEPTIC TANK DRAINFIELDS AS REQUIRED BY THE TCEQ "DESIGN CRITERIA FOR SEWAGE SYSTEMS" STATES THAT WATER AND SEWER LINES SHALL BE NO CLOSER THAN 9 FEET IN ALL DIRECTIONS AND PARALLEL LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH. IF THE 9 FEET SEPARATION CANNOT BE ACHIEVED, THE FOLLOWING SHALL APPLY:

- A. PARALLEL LINES:
- * SEWER LINE SHALL BE PVC MEETING ASTM SPECIFICATIONS WITH A MINIMUM 150 PSI PRESSURE RATING.
 - * VERTICAL SEPARATION SHALL BE A MINIMUM OF 2 FEET BETWEEN THE OUTSIDE DIAMETERS.
 - * HORIZONTAL SEPARATION SHALL BE A MINIMUM OF 4 FEET BETWEEN OUTSIDE DIAMETERS AND THE SEWER LINE SHALL BE BELOW THE WATER LINE.
- B. CROSSINGS:
- * SEWER LINE SHALL BE PVC MEETING ASTM SPECIFICATIONS WITH A MINIMUM 150 PSI PRESSURE RATING.
 - * AN ABSOLUTE MINIMUM DISTANCE OF 6" BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED.
 - * THE SEWER SHALL BE LOCATED BELOW THE WATER LINE.
 - * ONE 18 FOOT TO 20 FOOT JOINT OF SEWER LINE MUST BE CENTERED ON THE WATER LINE.
- F. IN THE EVENT OF DAMAGE TO UNDERGROUND UTILITIES, WHETHER SHOWN OR NOT IN THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE UTILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACT PRICE. ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY OPERATING THE UTILITY.
- G. IN THE EVENT THAT UNDERGROUND UTILITIES NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONSTRUCT THE WORK AS INTENDED, AT NO INCREASE IN THE CONTRACT TIME AND PRICE.
- H. TRENCH EXCAVATION SHALL NOT PRECEDE BACKFILL BY MORE THAN 200 FEET. NO TRENCH SHALL BE LEFT OPEN AFTER NORMAL WORKING HOURS.

- I. THE SERVICE CONNECTIONS SHALL BE INSTALLED ALONG THE PROPERTY LINES AT THE LOCATIONS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INFORM THE PROPERTY OWNER OF HIS INTENT TO INSTALL THE SERVICE CONNECTION. THE PROPERTY OWNER WILL BE GIVEN THE OPPORTUNITY TO DICTATE THE LOCATION OF THE SERVICE CONNECTION. THE CONTRACTOR IS REMINDED THAT SERVICE CONNECTIONS SHOWN ON THE PLANS ARE FOR BIDDING PURPOSES ONLY, AND SHALL BE LOCATED IN THE FIELD DURING CONSTRUCTION.

- J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE PROPERTY OWNERS COMPLETE AND EXECUTE A "TEMPORARY UTILITY CONSTRUCTION AGREEMENT" PRIOR TO ANY WORK BEING DONE ON PRIVATE PROPERTY. COPIES OF THESE DOCUMENTS SHALL BE MADE AVAILABLE TO THE OWNER AND ENGINEER.

- K. THE CONTRACTOR AND COUNTY INSPECTOR SHALL MEET WITH THE PROPERTY OWNER TO DISCUSS THE METER LOCATION, ALIGNMENT OF SERVICE LINE, AND LOCATION OF CONNECTION TO SERVICE LINE PRIOR TO BEGINNING WORK ON THEIR PROPERTY. A TWO FOOT GAP SHALL BE MAINTAINED BETWEEN CONNECTION AND SERVICE LINE (THIS LINE SHALL BE CAPPED).

- L. A CUSTOMER SERVICE INSPECTION CERTIFICATE SHALL BE COMPLETED PRIOR TO PROVIDING WATER SERVICE TO EACH RESIDENT (INSPECTION FORM IS FOUND IN THE APPENDIX); THIS SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT AND NO SEPARATE PAY WILL BE MADE FOR THIS WORK.

INDIVIDUALS WITH THE FOLLOWING CREDENTIALS SHALL BE RECOGNIZED AS CAPABLE OF PERFORMING A CUSTOMER SERVICE INSPECTION CERTIFICATION.

- * PLUMBING INSPECTORS AND WATER SUPPLY PROTECTION SPECIALISTS LICENSED BY THE TEXAS STATE BOARD OF PLUMBING EXAMINERS
- * CUSTOMER SERVICE INSPECTORS WHO HAVE COMPLETED A COMMISSION APPROVED COURSE, PASSED AN EXAMINATION ADMINSTRATED BY THE EXECUTIVE DIRECTOR, AND HOLD A PROFESSIONAL LICENSE AS A CUSTOMER SERVICE INSPECTOR.

- M. PIPE LINE INSTALLATION WORK INVOLVING OPEN CUTTING OR BORING WILL BE CONSIDERED SUBSIDIARY TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. IF OPEN CUT, DRIVEWAY SHALL BE REPAIRED OR REPLACED WITH MATERIALS MEETING THE SAME DEPTH AND WIDTH REQUIREMENTS ON THE EXISTING DRIVEWAYS.

3. WATERLINE CONSTRUCTION

- A. ANY WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TCEQ RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TAC CHAPTER 290 SUBCHAPTER D, AND NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.
- B. ANY CONNECTION TO EXISTING WATERLINES SHALL BE COORDINATED WITH THE WATERLINE OWNER. THE CONTRACTOR WILL NOT BE ALLOWED TO OPERATE EXISTING VALVES WITHOUT PERMISSION FROM THE BAFFIN BAY WATER SUPPLY CORPORATION.
- C. PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW).
- D. UNLESS OTHERWISE NOTED, ALL NEW WATERLINES SHALL BE PVC MEETING THESE MINIMUM REQUIREMENTS:

* 4" THROUGH 12", AWWA C-900, DR 18

IN ADDITION, ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO THE AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI/NSF.

- E. FITTINGS UTILIZED FOR THE WATERLINE INSTALLATION SHALL BE DUCTILE IRON. EACH FITTING SHALL BE WRAPPED WITH TWO LAYERS OF POLYETHYLENE (8 MIL THICKNESS). THE WRAPPING SHALL BE LAPPED IN SUCH A MANNER THAT ALL SURFACES OF PIPE VALVES AND FITTING, INCLUDING JOINTS, SHALL HAVE A DOUBLE THICKNESS OF POLYETHYLENE.
- F. THE USE OF PIPES AND PIPE FITTINGS THAT CONTAIN MORE THAN 8% LEAD OR SOLDERS AND FLUX THAT CONTAIN MORE THAN 0.2% LEAD IS PROHIBITED IN THE FOLLOWING CIRCUMSTANCES FOR INSTALLATION OR REPAIR OF ANY PUBLIC WATER SUPPLY AND FOR INSTALLATION OR REPAIR OF ANY PLUMBING IN A RESIDENTIAL OR NON RESIDENTIAL FACILITY PROVIDING FOR HUMAN CONSUMPTION AND CONNECTED TO A PUBLIC DRINKING WATER SUPPLY SYSTEM.
- G. CONTRACTORS SHALL RESTRAIN THE WATER LINE UTILIZING A MECHANICAL RESTRAINT SYSTEM. ALL BENDS, FITTINGS, CHANGES IN DIRECTION OR OTHER PIPE CONFIGURATIONS WHICH COULD RESULT IN PIPE SEPARATION SHALL BE RESTRAINED.
- H. WATER TRANSMISSION AND DISTRIBUTION LINES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION. HOWEVER, THE TOP OF THE WATERLINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATERLINE BE LESS THAN 36 INCHES BELOW GROUND SURFACE AND 48" AT DITCH CROSSINGS. HOWEVER, AT UTILITY CROSSINGS, IT MAY BE NECESSARY TO PLACE THE WATERLINE DEEPER. THE PRIMARY METHOD FOR THESE VERTICAL OFFSETS SHALL BE BELL DEFLECTIONS. THESE ADJUSTMENTS SHALL BE COMPLETED AT NO SEPARATE INCREASE TO THE CONTRACT, AND NEED TO BE COORDINATED WITH THE OWNER.
- I. NEW WATERLINES SHALL BE PRESSURE TESTED, DISINFECTED, AND SHALL PASS TWO BACTERIOLOGICAL TESTS PRIOR TO BEING PLACED INTO SERVICE. DISINFECTION SHALL OCCUR IN ACCORDANCE WITH AWWA STANDARD C851 AND THEN FLUSH AND SAMPLE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1000 FT. OF COMPLETED WATER LINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1000 FT. AS DESIGNATED BY THE DESIGN ENGINEER. PRESSURE TESTING AGAINST NEW VALVES WILL NOT BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, FITTINGS, METERS, VALVES, BACK-FLOW PREVENTORS, ETC. REQUIRED TO COMPLETE THE TEST. IF A COUPLING OR ADAPTER IS REQUIRED FOR THE FINAL TIE-IN, THE CONTRACTOR SHALL PROVIDE ONE AT HIS COST. THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY AWWA FORMULA FOR PVC PIPE: $L = (N)(D)(P)/7400$. THE FORMULA FOR DUCTILE IRON OR CAST IRON IS $L = (S)(D)(P)/133,200$. ALL REQUIRED TESTING SHALL BE PAID BY THE CONTRACTOR, AND ALL RESULTS SHALL BE COPIED TO THE OWNER, RIVER ACRES WATER SUPPLY CORPORATION, AND ENGINEER. A REPRESENTATIVE OF THE OWNER, RIVER ACRES WATER SUPPLY CORPORATION, AND ENGINEER SHALL BE PRESENT FOR ALL TESTS.
- J. WATER FOR THE WATERLINE TESTING MAY BE PURCHASED FROM THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PURCHASE OF WATER.
- K. A PRE TIE-IN MEETING SHALL BE CONDUCTED PRIOR TO CUTTING PAVEMENTS, BLOCKING TRAFFIC, OR CUTTING INTO EXISTING WATERLINES

- L. PRIOR TO SCHEDULING THE TIE-IN TO THE EXISTING WATERLINE, THE CONTRACTOR SHALL EXCAVATE THE EXISTING PIPING AND CONFIRM THE TYPE OF MATERIAL, SIZE, AND DIMENSIONS. ONCE THIS HAS BEEN COMPLETED, HE MAY ORDER ALL MATERIAL REQUIRED FOR THE TIE-IN. ALL TIE-IN WORK WILL BE THROUGH A JOINT EFFORT BETWEEN THE CONTRACTOR, ENGINEER, BAFFIN BAY WATER SUPPLY CORPORATION, AND KLEBERG COUNTY. ONCE THE TIE-IN WORK HAS COMMENCED ON THE SYSTEM, IT SHALL CONTINUE UNTIL WATER SERVICE HAS BEEN RE-ESTABLISHED.

- M. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.

4. DEWATERING

CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AS INDICATED ON PLANS AND WHEN NECESSARY. CONTRACTOR SHALL NOT PUMP WATER IN SUCH A MANOR AS TO FLOOD OR IMPOSE WATER ONTO ADJACENT PROPERTY OWNERS. DEWATERING SHALL BE CONSIDERED SUBSIDIARY TO THE WATERLINE INSTALLATION AND WILL NOT BE PAID SEPARATELY. ANTICIPATED AREAS THAT MAY REQUIRE DEWATERING ARE SHOWN ON THE PLANS.

LEGEND	
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	EXISTING WATER VALVE
	PROPOSED WATER VALVE
	EXISTING WATERLINE
	PROPOSED WATERLINE
	PROPOSED WATER METER
	ASPHALT REPAIR SECTION
	LOT LINE
	CENTER LINE OF ROAD
	EDGE OF PAVEMENT
	EXISTING EASEMENT
	PROPOSED EASEMENT
	RIGHT OF WAY (R.O.W.)
	HOMES RECEIVING SERVICE
	DRIVEWAY REPAIR
	PIPELINE CROSSING
	NG KINDERMORGAN NATURAL GAS
	LP SEADRIFT LIQUID PETROLEUM
	CO KOCH CRUDE OIL
	P ENTERPRISE PIPELINE
	P HOUSTON PIPELINE
	PRIORITY AREA BOUNDARY

NOTICE

1. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) ON THIS PROJECT ARE SOLELY RESPONSIBLE FOR CONTACTING TEXAS 811, LONE STAR 811, AND OTHER UTILITY LOCATING COMPANIES, AS WELL AS LOCAL UTILITIES (WATER, STORM SEWER, SANITARY SEWER, GAS, TRAFFIC, ETC.) BY ALL MEANS POSSIBLE FOR THE LOCATING AND MARKING OF UNDERGROUND AND ABOVE GROUND UTILITIES PRIOR TO CONSTRUCTION.
2. NAISMITH ENGINEERING, INC. AND ITS REPRESENTATIVES MAKE NO GUARANTEES THAT ALL UTILITIES WITHIN AND ADJACENT TO THE PROJECT SITE ARE INDICATED ON THE CONSTRUCTION DRAWINGS.
3. DAMAGES TO UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS SOLE EXPENSE.



1-800-669-8344 OR www.lonestar811.com
GIVE 4 WORKING DAYS (M-F) NOTICE



811 OR 1-800-344-8377 OR www.texas811.org
GIVE 4 WORKING DAYS (M-F) NOTICE

GENERAL NOTES

WATERLINE EXTENSION
MURPHY LLC - RAW'S WATERLINE EXTENSION
NUECES COUNTY, TEXAS

2

MURPHY LLC

15641 Northwest Blvd.
Robstown, TX 78380

FOR INTERIM
REVIEW

THIS DOCUMENT IS RELEASED
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Name: PAUL M. PLAMAZKY, P.E.
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Hanson No. 16L0148B

Filename NEI-8857

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Date 9/10/2018

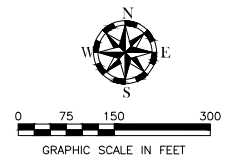
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MURPHY LLC

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Robstown, TX 78380

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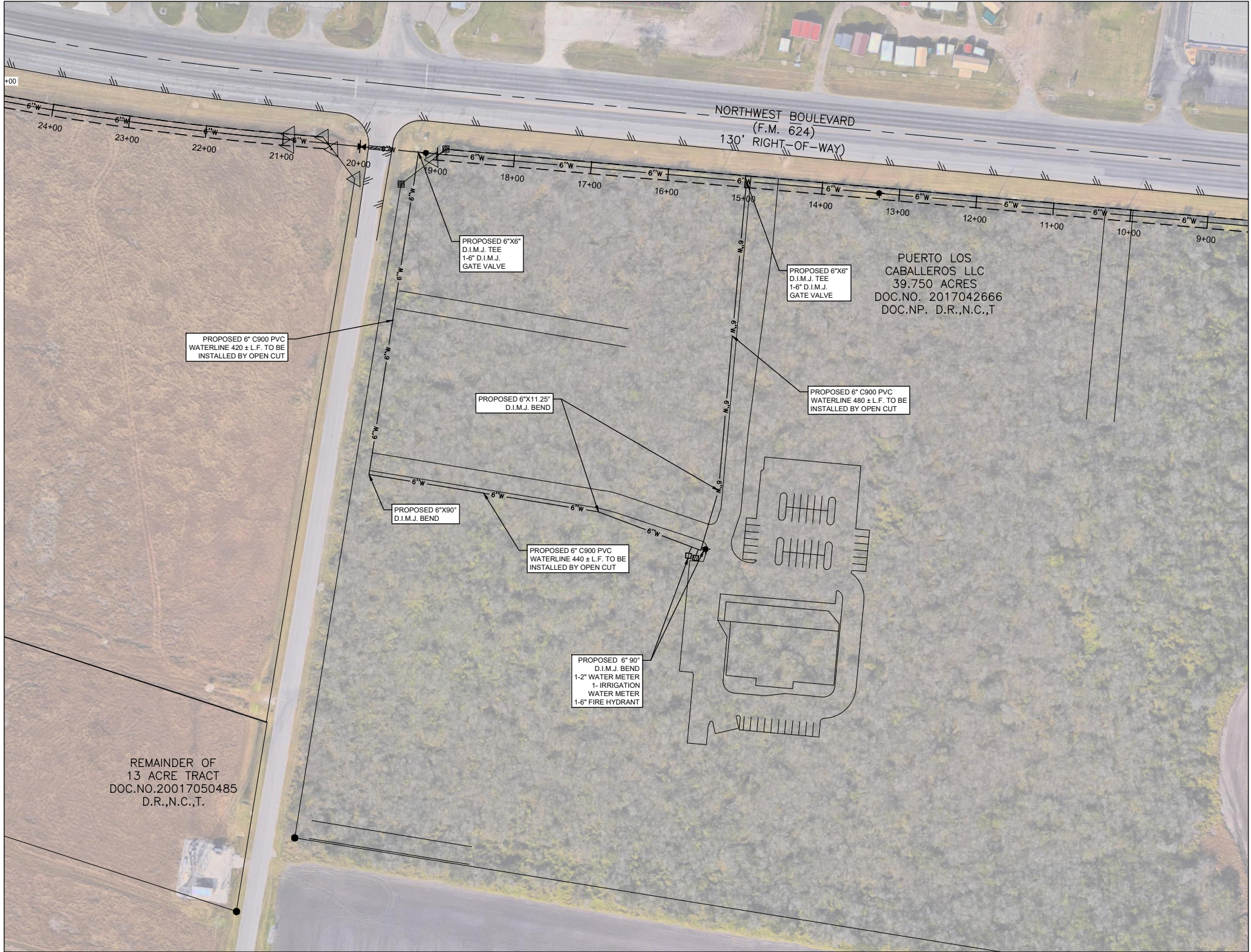
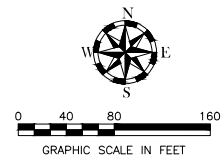
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SITE LAYOUT

WATERLIEN ALIGNMENT

WATERLINE EXTENSION
MURPHY LLC - RAW'S WATERLINE EXTENSION
NUECES COUNTY, TEXAS



NEED TO VERIFY IF ON-SITE
WORK IS TO BE COMPLETED
UNDER THIS CONTRACT

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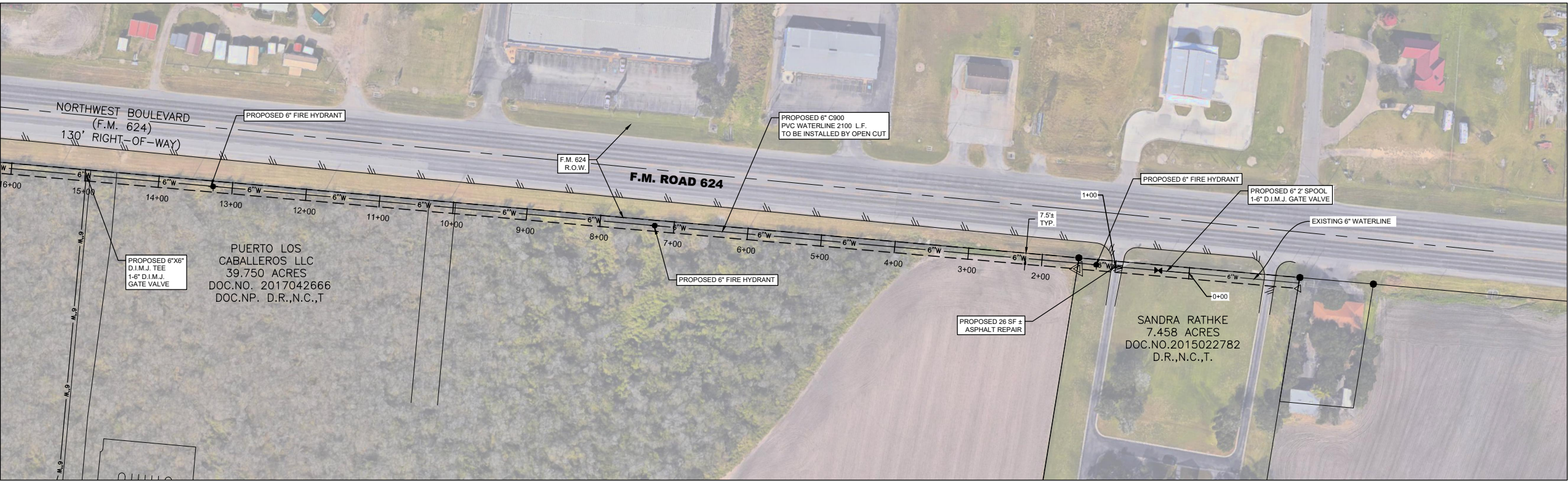
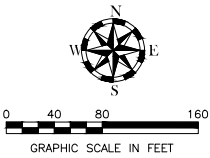
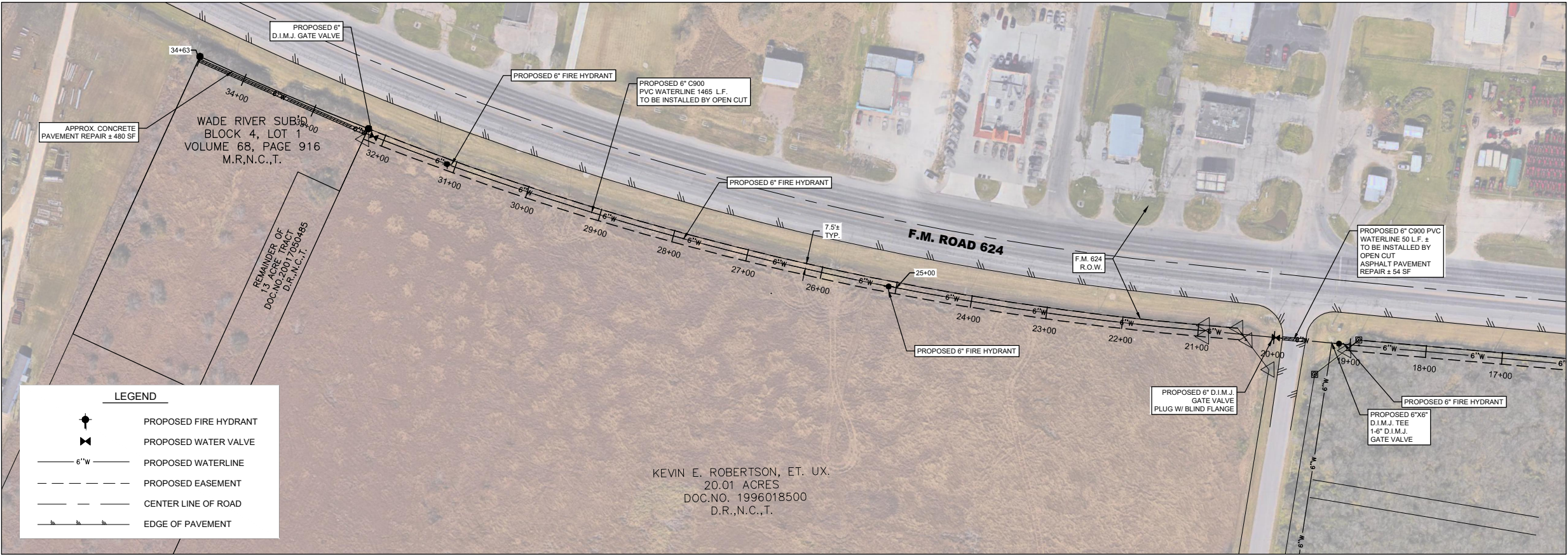
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MURPHY DEVELOPMENT LOOP

WATERLINE EXTENSION
MURPHY LLC - RAW'S WATERLINE EXTENSION
NUECES COUNTY, TEXAS

4A



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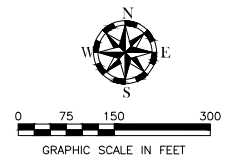
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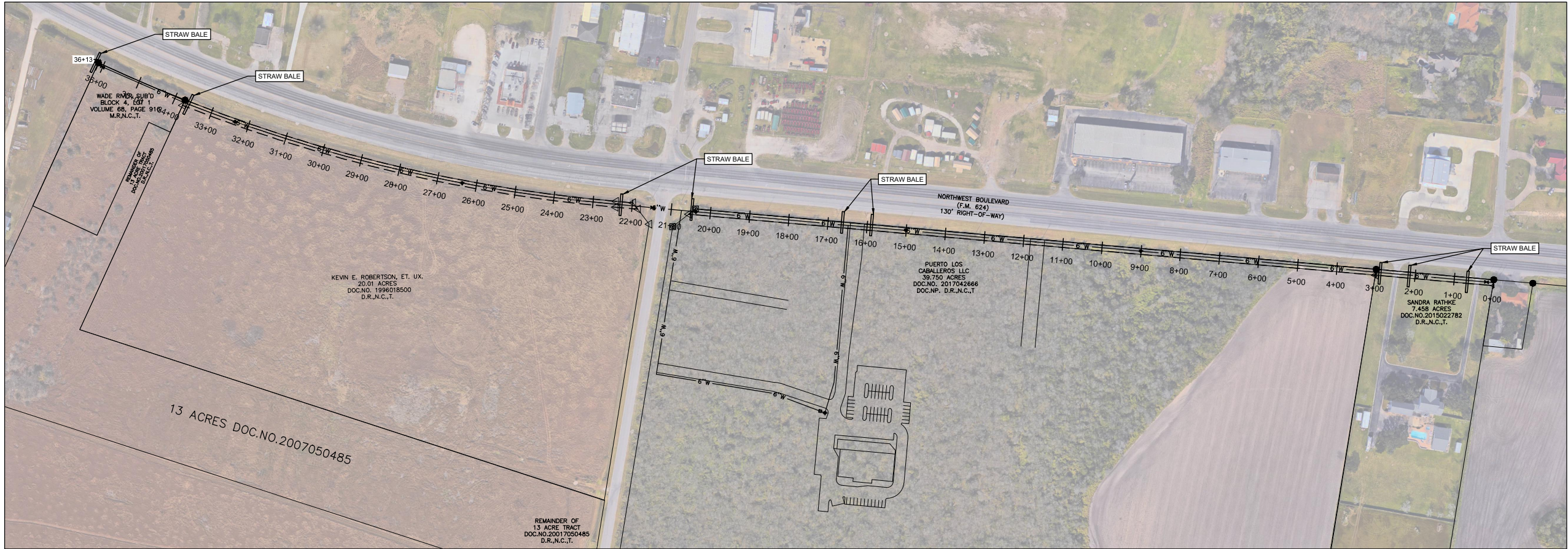
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WATERLINE ALIGNMENT

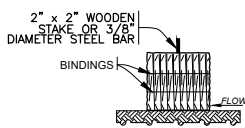
WATERLINE EXTENSION
MURPHY LLC - RAW'S WATERLINE EXTENSION
NUECES COUNTY, TEXAS



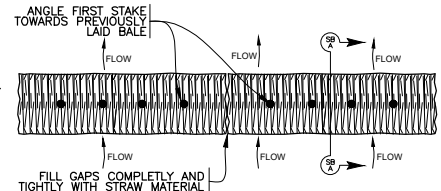
- LEGEND
- SBF
 - STRAW BALE FENCE
 - STRAW BALE



- STRAW BALE (SB) NOTES:
1. SHALL BE INSTALLED AS SOON AS PRACTICABLE.
 2. SHALL REMAIN IN PLACE AND MAINTAINED UNTIL DISTURBED AREA IS STABILIZED BY PERMANENT MEASURES OR ENGINEER OR OWNER APPROVES REMOVAL.
 3. DAILY INSPECTION IS TO BE MADE BY THE CONTRACTOR.
 4. SILT ACCUMULATION OF 1/3 THE HEIGHT OF THE STRAW BALE FENCE SHALL BE REMOVED PRIOR TO A STORM EVENT AND IMMEDIATELY AFTERWARDS.



SB
A
SECTION
NOT TO SCALE
STRAW BALE (SB)
NOT TO SCALE



- STRAW BALE REQUIREMENTS:
1. STRAW BALE MATERIAL SHALL BE COMPOSED OF NATURAL VEGETATIVE MATERIAL APPROVED BY THE ENGINEER.
 2. STRAW BALE SIZE: SHALL BE A MINIMUM LENGTH OF 30 INCHES, A WIDTH OF 14 INCHES, A HEIGHT OF 18 INCHES AND WEIGH A MINIMUM OF 50 LBS.
 3. BINDINGS: SHALL BE OF WIRE (14 GAUGE MIN.), NYLON OR POLYPROPYLENE ROPE (12 GAUGE MIN.). JUTE AND COTTON BINDING IS NOT ALLOWED.
 4. STRAW BALE PLACEMENT: BUTT THE ENDS OR SIDES OF THE STRAW BALES TIGHTLY AGAINST EACH OTHER. ANY GAPS SHALL BE FILLED COMPLETELY WITH STRAW MATERIAL.
 5. STAKE MATERIAL: WOOD STAKE - MADE FROM NON-TREATED LUMBER OF SHAPE AND SIZE STATED WHICH IS FREE OF ANY DEFECTS. STEEL BAR REINFORCEMENT - SHALL BE A MINIMUM 3/8 INCH IN DIAMETER.
 6. IMMEDIATELY REPLACE STRAW BALES THAT ARE DAMAGED OR DETERIORATING.

NOTE:

- STRAW BALE, OR ENGINEER APPROVED EQUAL SHALL BE PLACED ACROSS EXISTING DITCHES WITHIN THE R.O.W. (STRAW BALES ARE NOT DRAWN TO SCALE AND SHALL NOT BE PLACED WITHIN THE ROADWAY).

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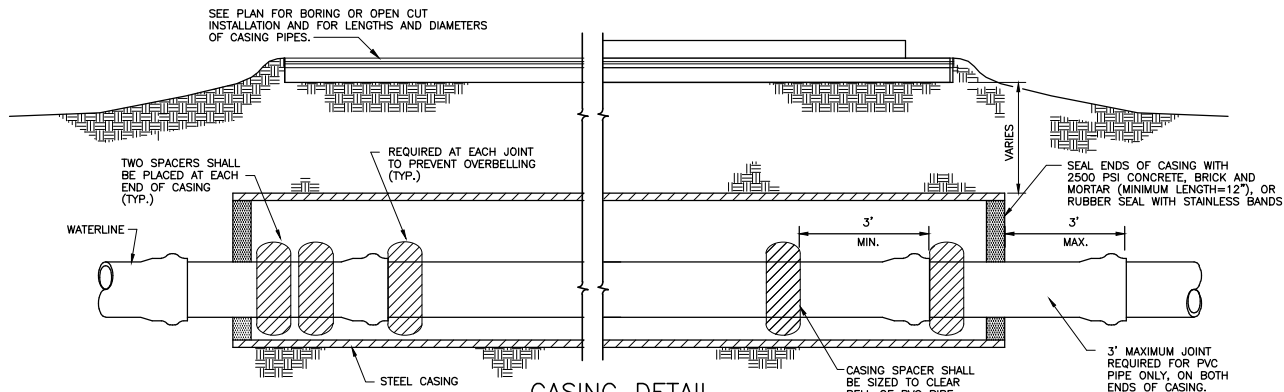
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STORM WATER POLLUTION PREVENTION PLAN

WATERLINE EXTENSION
MURPHY LLC - RAW'S WATERLINE EXTENSION
NUECES COUNTY, TEXAS



CASING DETAIL

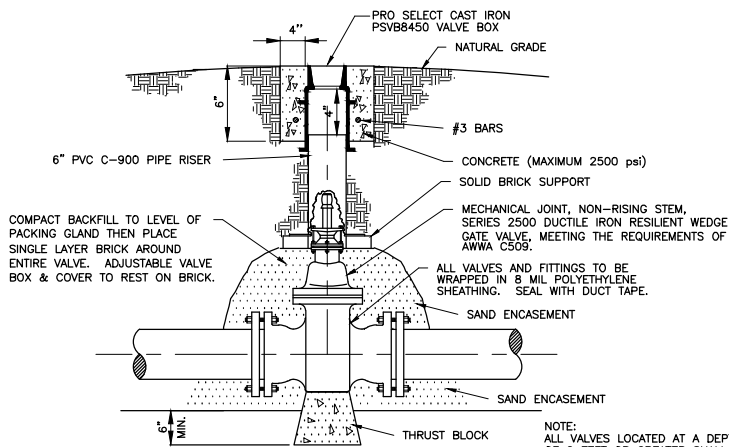
SCALE: N.T.S.

STEEL CASING PIPE WALL THICKNESS CHART

MINIMUM THICKNESS	DIAMETER OF CASING PIPE
1/4" (0.250")	12" OR LESS
5/16" (0.3125")	OVER 12" - 18"
3/8" (0.375")	OVER 18" - 22"
7/16" (0.4375")	OVER 22" - 28"
1/2" (0.50")	OVER 28" - 34"
9/16" (0.5625")	OVER 34" - 42"
5/8" (0.625")	OVER 42" - 48"

THIS CHART IS ONLY FOR SMOOTH STEEL CASING PIPES WITH MINIMUM YIELD STRENGTH OF 35,000 psi.

- CASING NOTES:
- CASING SPACERS SHALL BE PROJECTION TYPE, TOTALLY NON-METALLIC SPACERS CONSTRUCTED OF PREFORMED SECTIONS OF HIGH DENSITY POLYETHYLENE. SPACERS SHALL BE ISO 9002 CERTIFIED FOR STRENGTH AND QUALITY. SPACERS SHALL BE MANUFACTURED BY RACI OR APPROVED EQUAL.
 - CASING SPACERS SHALL BE INSTALLED PER MANUFACTURER SPECIFICATION.
 - CASING SPACER SPACING SHALL BE DETERMINED BY MANUFACTURER.
 - A MINIMUM OF THREE SPACERS PER JOINT OF PVC PIPE SHALL BE USED.
 - BORINGS MAY BE INSTALLED EITHER "WET" OR "DRY" UNLESS ROADWAY OWNER REQUIRES OTHERWISE.
 - CASING SHALL EXTEND FROM CENTERLINE OF DITCH TO CENTER LINE OF DITCH

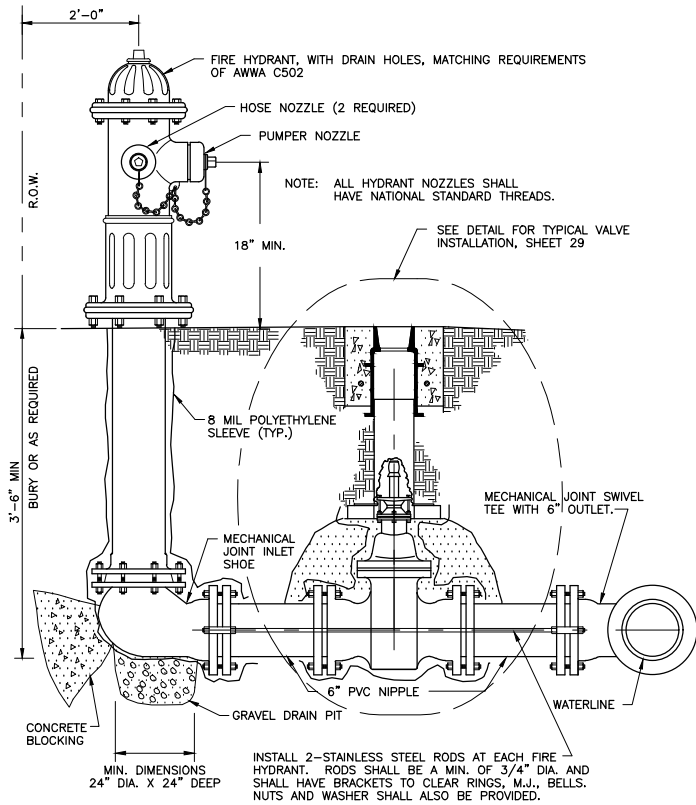


TYPICAL GATE VALVE INSTALLATION

SCALE: N.T.S.

CONSTRUCTION NOTES:

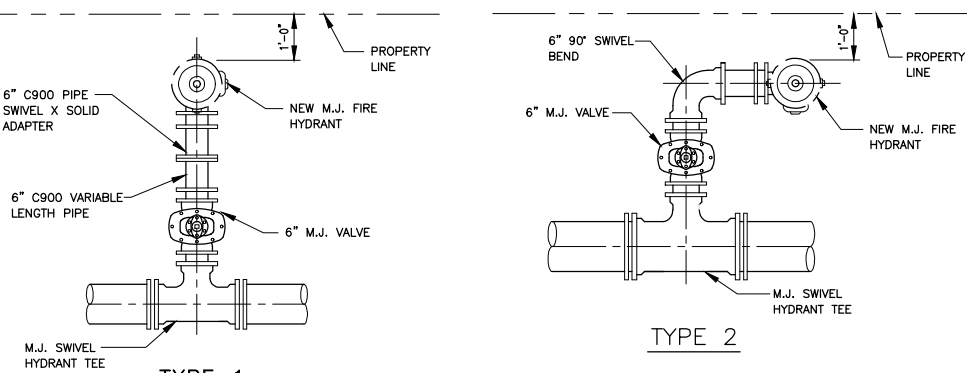
- ALL BENDS, FITTINGS, VALVES, AND REDUCERS ARE TO BE RESTRAINED.
- CONTRACTOR SHALL MEASURE THE O.D. OF ALL EXISTING PIPE AT EACH CONNECTION TO DETERMINE THE CORRECT GASKET DIAMETER PRIOR TO STARTING THE CONNECTION. IF SPECIAL GASKETS ARE REQUIRED, THEY SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COSTS.
- DEFLECT PIPE AND FITTINGS AS NECESSARY TO MAKE CONNECTIONS TO EXISTING PIPE AND FITTINGS.
- IF A SLEEVE OR FITTING IS REQUIRED TO COMPLETE THE CONNECTION, ITS COST SHOULD BE INCLUDED IN THE CONNECTION COST.
- CONTRACTOR SHALL PROVIDE D.I. ADAPTER COUPLINGS WHEN AC PIPE IS PRESENT. CONTRACTOR SHALL LOCATE THE EXISTING AC PIPE BELLS WHERE REQUIRED AND FOLLOW THE INSTRUCTIONS IN THE CONTRACT DOCUMENTS FOR CONNECTING, REMOVING, AND DISPOSING OF THE AC PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE O.D. OF ALL AC PIPE CONNECTIONS TO CORRECTLY SIZE ADAPTER COUPLING.
- 4" MAINS AND LARGER SHALL BE DR 18, CLASS 150, MEETING THE REQUIREMENTS OF A.W.W.A. C-900 PIPE. JOINTS FOR PIPE 4" AND LARGER SHALL BE THE ELASTEMERIC GASKET TYPE MEETING THE REQUIREMENTS OF A.S.T.M. F-477.
- ALL FITTINGS 6" AND LARGER WILL BE CLASS 250 DUCTILE IRON MECHANICAL JOINT TYPE (MORTAR LINED) AND WRAPPED WITH 8 MIL POLYETHYLENE.
- CONCRETE THRUST BLOCKING SHALL BE PROVIDED AT ALL FITTINGS AND FIRE HYDRANTS UNLESS SHOWN OTHERWISE AND PROVIDE BEARING AREA SUFFICIENT THAT THE FITTINGS WILL NOT MOVE DURING TESTING PRESSURES.
- CONTRACTOR SHALL NOTIFY THE CORPORATION (361-387-2614) AT LEAST 24 HOURS PRIOR TO EXCAVATION WITHIN 20 FEET OF ANY EXISTING WATER LINE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO KEEP THE OFFICE INFORMED AT LEAST ONCE EACH DAY OF HIS ACTIVITIES WHILE WORKING IN SAID 20 FEET. THE ACTUAL CONNECTION MUST BE MADE IN PRESENCE OF A RIVER ACRES WATER SUPPLY CORPORATION REPRESENTATIVE.
- CONTRACTOR SHALL INSTALL #12 COPPER W.P. DETECTOR WIRE WITH ALL MAIN LINES. THE WIRE SHALL BE BROUGHT UP AT EACH FIRE HYDRANT AND WRAPPED AROUND TWICE. ALL JOINTS SHALL BE SOLDERED AND WRAPPED IN PVC COATING.



FIRE HYDRANT ASSEMBLY

SCALE: N.T.S.

NOTE: HYDRANT ADJUSTMENT OTHER THAN STANDARD LENGTHS; SHALL BE CONSIDERED SUBSIDIARY TO THE TO THE FIRE HYDRANT ASSEMBLY BID ITEM.



TYPE 1

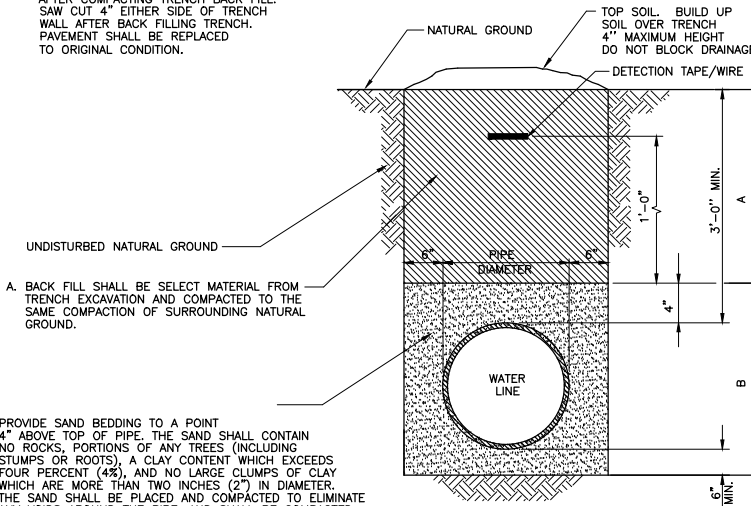
TYPE 2

FIRE HYDRANT ASSEMBLY DETAIL

N.T.S.

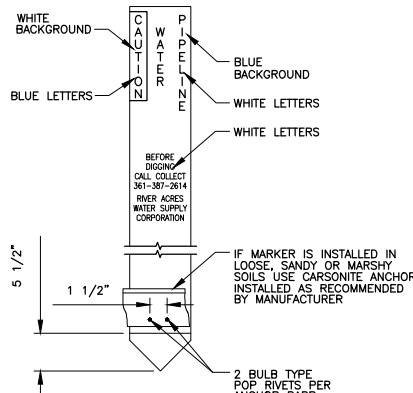
NOTE: TYPE 2 FIRE HYDRANT ASSEMBLY WILL ONLY BE ALLOWED WITH SPECIFIC APPROVAL BY THE RIVER ACRES WATER SUPPLY CORPORATION

NOTE: SAW-CUT ASPHALT & BASE FULL DEPTH PRIOR TO TRENCHING. SAW-CUT ASPHALT SURFACE AGAIN AFTER COMPACTING TRENCH BACK FILL. SAW CUT 4" EITHER SIDE OF TRENCH WALL AFTER BACK FILLING TRENCH. PAVEMENT SHALL BE REPLACED TO ORIGINAL CONDITION.



TRENCH STANDARD BACK FILL

SCALE: N.T.S.



WATERLINE MARKER DETAIL

N.T.S.

- NOTE:
- MARKERS SHALL BE CARSONITE UTILITY MARKER CUM-375. DECALS SHALL BE CW-112 FOR WATER LINE AND CW-116 FOR VALVES.
 - MARKERS SHALL BE INSTALLED WITH CARSONITE ROAD MARKER DRIVER D-400 AS RECOMMENDED BY MANUFACTURER OR APPROVED EQUAL.
 - IF MARKERS ARE INSTALLED IN HARD OR ROCKY SURFACES, USE CARSONITE PILOT HOLE DRIVER P-100 AS RECOMMENDED BY MANUFACTURER.
 - IF MARKER IS INSTALLED IN LOOSE, SANDY OR MARSHY SOILS, BURIED DEPTH SHALL BE 24" MIN.
 - IF MARKER IS INSTALLED IN HARD OR ROCKY SURFACES, BURIED DEPTH SHALL BE 18" MIN.
 - MARKER SHALL BE INSTALLED AT EACH COUNTY R.O.W. LINE WHERE IT IS CROSSED BY A WATERLINE.

NUMBER	REVISION	DATE	DRAWN	DESIGNED	REVIEWED

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Serial No.: 82060
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MURPHY LLC

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REVIEWED	PMP	9/10/2018



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4501 Gollihar Rd.
Corpus Christi, Texas 78411

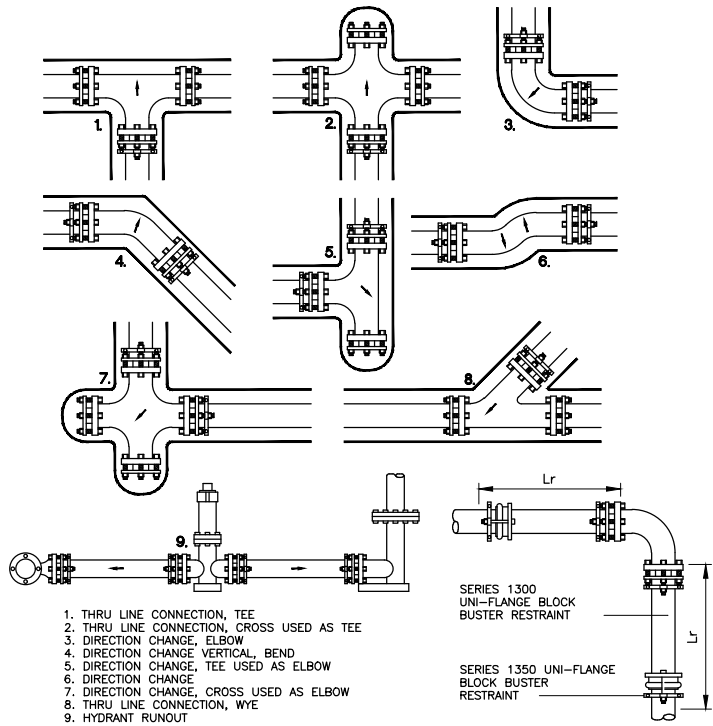
TBPE F-417
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DETAILS 1 OF 2

WATERLINE EXTENSION
MURPHY LLC - RAWS WATERLINE EXTENSION
NUECES COUNTY, TEXAS

6



TYPICAL RESTRAINT LOCATIONS
 FOR PVC & D.I. PIPE
 SCALE: N.T.S.

RECOMMENDED RESTRAINT LENGTHS FOR
 HORIZONTAL OFFSETS OF PVC PIPE, (Lr)

NOM. PIPE SIZE (IN.)	90° BEND	45° BEND	22.5° BEND	11.25° BEND	SIZE ON SIZE TEE*	VALVE/ DEAD- END
4	17 FT.	7 FT.	4 FT.	2 FT.	18 FT.	28 FT.
6	24 FT.	10 FT.	5 FT.	3 FT.	29 FT.	39 FT.
8	32 FT.	13 FT.	7 FT.	4 FT.	42 FT.	51 FT.
10	38 FT.	16 FT.	8 FT.	4 FT.	52 FT.	62 FT.
12	45 FT.	19 FT.	9 FT.	5 FT.	64 FT.	73 FT.

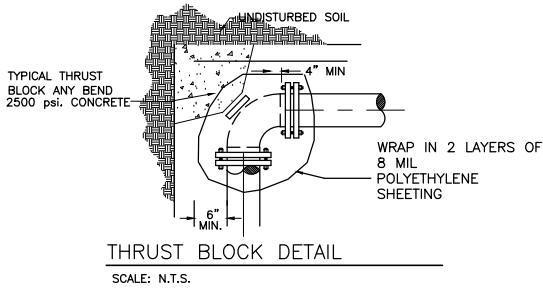
* RECOMMENDED RESTRAINT LENGTHS FOR TEES ARE FOR THE BRANCH OUTLET AND ASSUME A MINIMUM 2 FT. SECTION OF PIPE ATTACHED TO EACH SIDE OF THE RUN. RESTRAINT DEVICES SHOULD ALSO BE INSTALLED ON BOTH RUN JOINTS OF THE TEE ITSELF.

NOTE: ANY JOINTS THAT FALL WITHIN THESE RECOMMENDED LENGTHS SHOULD BE RESTRAINED (ON EACH SIDE OF BENDS, ON THE BRANCH OUTLET OF TEES, AND BEFORE DEAD-ENDS).

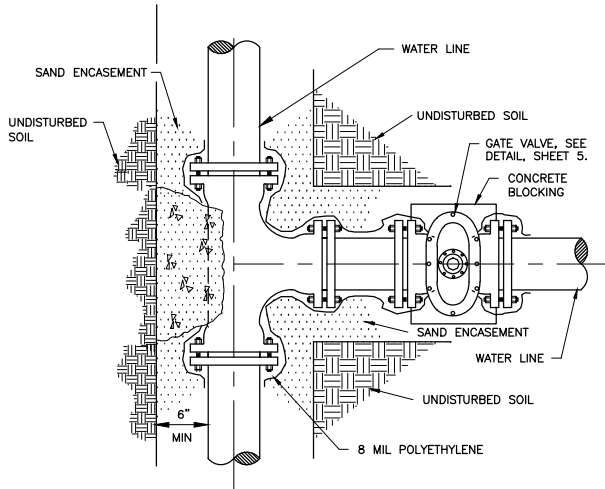
* CONTRACTOR TO VERIFY RESTRAIN SYSTEM W/MANUFACTURER OF PIPE AND RESTRAINTS. PVC RESTRAINT LENGTHS BASED ON USING 80% OF THE REQUIRED RESTRAINTS FOR D.I./POLY.

* THE FOLLOWING PARAMETERS ARE FOR THE ABOVE TABLE

PIPE MATERIAL — D.I.
 SOIL TYPE — CLAY
 SAFETY FACTOR — 2.5
 TRENCH TYPE — 4
 DEPTH OF BURY — 3 FT.
 TEST PRESSURE — 150 PSI
 LENGTH ALONG RUN — 2 FT.



NOTE: WHEN POURING THRUST BLOCKS, CONTRACTOR SHALL TAKE CARE NOT TO LET CONCRETE INTERFERE WITH M.J. FLANGE & BOLT CONNECTION. ALL FITTINGS AND CONCRETE BLOCKS TO BE WRAPPED IN 6 MIL POLYETHYLENE SHEATHING PRIOR TO POURING THRUST BLOCK.

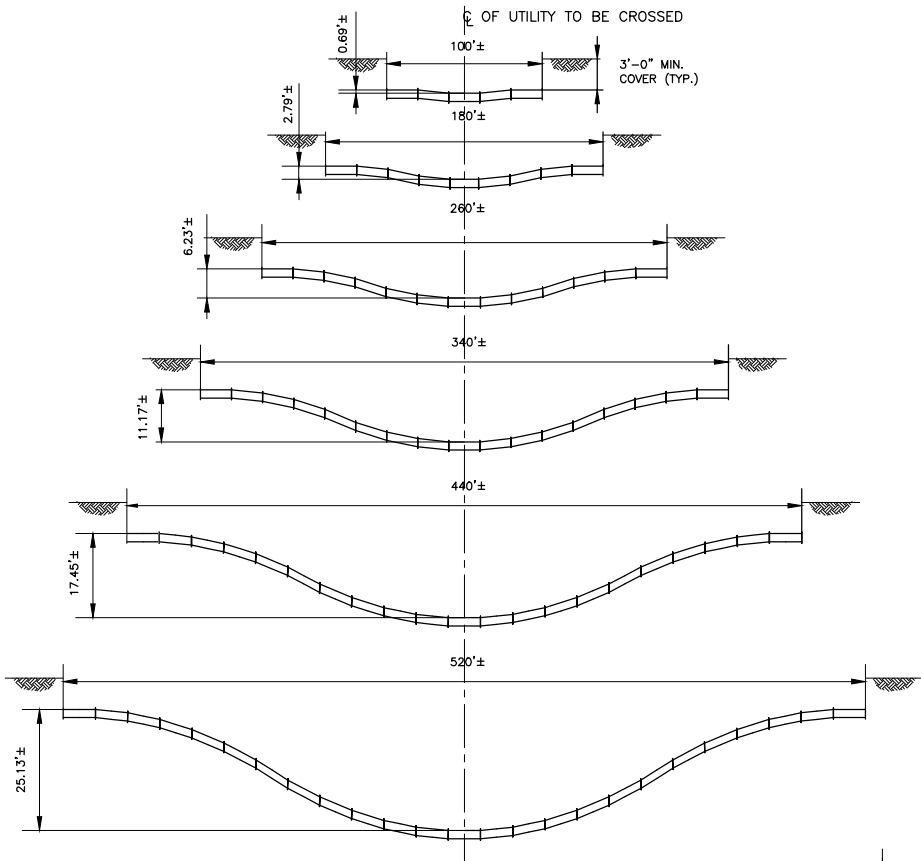


THRUST BLOCK DETAIL SHOWING
 TYPICAL VALVE LOCATION
 SCALE: N.T.S.

MINIMUM THRUST BLOCK AREA REQUIRED					
PIPE SIZE	TEES & VALVES	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	4 SQ FT	3 SQ FT	2 SQ FT	1 SQ FT	1 SQ FT
6"	9 SQ FT	7 SQ FT	4 SQ FT	2 SQ FT	1 SQ FT
8"	16 SQ FT	11 SQ FT	6 SQ FT	3 SQ FT	2 SQ FT
10"	24 SQ FT	17 SQ FT	10 SQ FT	5 SQ FT	4 SQ FT
12"	35 SQ FT	25 SQ FT	14 SQ FT	7 SQ FT	4 SQ FT

THRUST BLOCK NOTES :

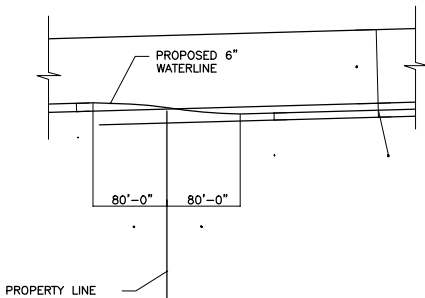
- THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
- WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED SOIL.
- ON TEES AND BENDS, EXTEND THRUST BLOCK FULL LENGTH.
- NO CONCRETE SHALL BE POURED OVER BOLTS OR ON TOP OF FITTINGS.
- BACKFILL SHALL CONSISTS ENTIRELY OF CLEAN SOIL FREE OF ROCK FRAGMENTS. ANY MUCK ENCOUNTERED SHALL BE REPLACED WITH ACCEPTABLE BACKFILL.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
- NO SEPARATE PAYMENT.
- NO CONCRETE IS ALLOWED AROUND NUTS OR BOLTS. A MINIMUM OF 4" CLEARANCE SHALL BE MAINTAINED BETWEEN CONCRETE AND BOLTS.
- 150 PSI WAS USED FOR THE HEAD AND 1,000 LB WAS USED FOR BEARING CAPACITY FOR THE ABOVE TABLE.



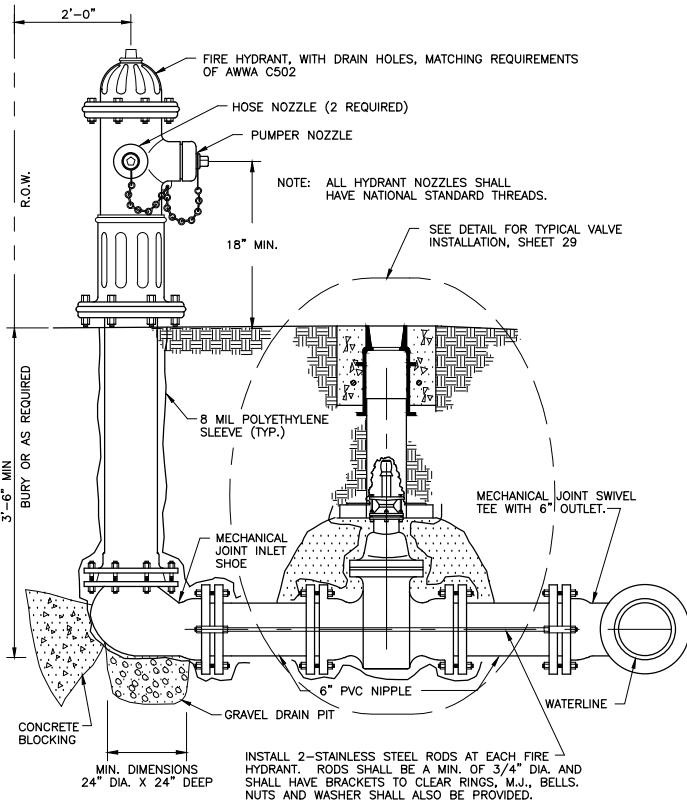
PVC DEFLECTION GUIDE
 FOR UTILITY CROSSINGS
 SCALE: N.T.S.

PVC DEFLECTION GUIDE

- IT IS THE INTENT OF THIS PROJECT TO MAINTAIN A MINIMUM COVER OF 3'-0" WHENEVER POSSIBLE.
- THE MAXIMUM ALLOWABLE DEFLECTION ON A JOINT OF PVC PIPE AND DUCTILE IRON PIPE IS APPROXIMATELY 2" PER JOINT. THIS UTILITY DEFLECTION GUIDE IS BASED ON THE ASSUMPTION THAT THE BEGINNING AND ENDING ELEVATIONS ON THE PIPE ARE LEVEL.
- THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING THE MIN. DEFLECTION DISTANCES REQUIRED TO CLEAR THE UTILITY. IT IS RECOMMENDED THAT HE EXCAVATE WELL AHEAD OF THE PIPE LAYING CREW IN ORDER TO MAINTAIN MAXIMUM ALLOWABLE DEFLECTION REQUIREMENTS.
- THE CONTRACTOR MAY CHOOSE TO USE M.J.,D.I. FITTINGS FOR THE ADJUSTMENTS. HOWEVER, THE FITTINGS MUST BE RESTRAINED IN ACCORDANCE WITH THE VERTICAL THRUST RESTRAINT SYSTEM DETAIL. NO ADDITIONAL COST WILL BE PAID BY THE OWNER.
- SECTIONS OF LINE WHICH EXCEED THE MAXIMUM ALLOWABLE DEFLECTION REQUIREMENTS WILL HAVE TO BE CORRECTED AT THE CONTRACTORS EXPENSE.



WATERLINE DEFLECTION INTO EASEMENT DETAIL
 SCALE: N.T.S.



FIRE HYDRANT ASSEMBLY
 SCALE: N.T.S.

NOTE: HYDRANT ADJUSTMENT OTHER THAN STANDARD LENGTHS; SHALL BE CONSIDERED SUBSIDIARY TO THE TO THE FIRE HYDRANT ASSEMBLY BID ITEM.

NUMBER	REVISION	DATE	DRAWN	DESIGNED	REVIEWED

FOR INTERIM REVIEW

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF:

Name: PAUL M. PILARCZYK, P.E.
 Serial No.: 82060
 Date: 9/10/2018

AND IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.

MURPHY LLC

15641 Northwest Blvd.
 Robstown, TX 78380

Hanson No. 16L0148B
 Filename: NEI-8857
 Scale: AS SHOWN
 Date: 9/10/2018

LAYOUT	VM	9/10/2018
DRAWN	VM	9/10/2018
REVIEWED	PMP	9/10/2018



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DETAILS 2 OF 2

WATERLINE EXTENSION
 MURPHY LLC - RAWS WATERLINE EXTENSION
 NUECES COUNTY, TEXAS

7



DISCLOSURE OF INTERESTS

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

NAME: Puerto Los Caballeros, LLC

STREET: P.O. Box 9605 CITY: Corpus Christi, Texas ZIP: 78469

FIRM is: ☐ Corporation ☐ Partnership ☐ Sole Owner ☐ Association ☒ Other _____

DISCLOSURE QUESTIONS

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

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

Name

Job Title and City Department (if known)

N/A

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

Name

Title

N/A

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

Name

Board, Commission, or Committee

N/A

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

Name

Consultant

N/A

CERTIFICATE

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

Certifying Person:

DAN MURPHY
(Print Name)

Title:

MEMBER

Signature of Certifying Person:

[Signature]

Date:

10-19-18.