00 91 01 ADDENDUM NUMBER 01

Owner: City of Lucas

Project: W Lucas Rd Reconstruction and Widening

Project No.: 045-026

Addendum No. 01

Addendum Date: May 29, 2026

The following additions, deletions, modifications, or clarifications shall be made to the appropriate portions of the Contract Documents. Offerors must acknowledge receipt of this Addendum in the space provided on the Bid Form.

Approved by:	**Freese and Nichols, Inc.**
Name:	**Sidney Green Jr., PE**
Date:	**May 29, 2026**

Freese and Nichols, Inc.
Texas Registered Engineering Firm
F-2144

ARTICLE 1 – ADDENDUM

1.01 Amend the Contract Documents

A. Make the additions, modifications, or deletions to the Contract Documents described in this Addendum.

1.02 Acknowledge Addenda

A. Acknowledge receipt of this Addendum in the Bid Form submitted for this Project. Failure to acknowledge receipt of this addendum in the Bid Form may render the Bid as non-responsive and serve as the basis for rejecting the Bid.

ARTICLE 2 – BID REQUIREMENTS

2.01 Section I "Notice to Bidders"

A. Amend Subsection 1.2 as follows:

1. The time for receipt of Bids has been changed to **Tuesday, June 9th, 2026 at 1:00 P.M. Central Time**.

2. The location for the receipt of Bids is unchanged.

B. Delete "Notice to Bidders" and replace it with "Notice to Bidders" included with this Addendum.

2.02 Bid Schedule of Values (Base Bid)

A. Delete "Bid Schedule of Values (Base Bid)" and replace it with "Bid Schedule of Values (Base Bid)" included with this Addendum. Submit only the revised form with the Bid.

ARTICLE 3 – APPENDICES

3.01 Appendix – Unofficial set of plans marked "For Review Only" and "Not for Construction"

END OF SECTION

DAVIS-BACON WAGE RATES

SECTION VI FORMS DUE AFTER AWARD/PRIOR TO CONTRACT EXECUTION

1. EXAMPLE FORMS

SECTION I
NOTICE TO BIDDERS

1.1 INTRODUCTION

Section I provides general information to potential proposers on subjects such as where to submit proposals, number of copies, amendments, proprietary information designation, and other similar administrative elements.

1.2 SUBMISSION OF BID/PROPOSAL

Electronic responses are the preferred method of receiving responses for this solicitation. However, all methods detailed in this solicitation are acceptable. All bids/proposals will be received by the City of Lucas Purchasing Office. If proposer submits a hard copy, bids/proposals shall be in one envelope clearly marked with the Bid Number on the outside of the envelope containing the bid/proposal.

INVITATION FOR BID #045-26

WEST LUCAS ROAD RECONSTRUCTION AND WIDENING (Base and Add Alternative 1)

Electronic bids/proposals are to be submitted to lmaduro@lucastexas.us

Sealed bids/proposals are to be submitted to:

CITY OF LUCAS PURCHASING
RE: BID #045-26
665 COUNTRY CLUB ROAD
LUCAS, TX 75002-7651

NO LATE BIDS/PROPOSALS WILL BE ACCEPTED
FACSIMILE BIDS/PROPOSALS WILL NOT BE ACCEPTED

Bid Deadline June 9th, 2026 1:00 P.M. Central Time
Promptly thereafter, all Bids/Proposals that have been duly received will be publicly opened and read aloud in the Council Conference Room, City Hall.

Plans, specifications and bid documents may be downloaded for the City of Lucas website: https://www.lucastexas.us/bid-postings.

1.3 PRE-BID CONFERENCE

A **Pre-Bid Conference** will be held for the above project at Lucas City Hall, 665 Country Club Road, Lucas, TX 75002 at **10:00 A.M., (May 26, 2026)**.

1.4 NUMBER OF COPIES

Electronic submission is recommended. If the proposer chooses to submit a hard copy bid, Bidder/Proposer shall submit one (1) original set and **ONE (1)** copy of proposal documents. This will greatly facilitate the evaluation process. The proposal shall remain the property of the City of Lucas. The original copy shall be unbound and clearly marked "Original".

1.5 BID/PROPOSAL INFORMATION

All questions regarding bid/proposal preparation, selection process, specifications and interpretations of the terms and conditions of the bid/proposal shall be submitted through the procurement website, Civcast. Any addenda will be issued no later than three (3) calendar days prior to the deadline for submission of bids.

1.6 PREVAILING WAGE RATES

Attention is called to the fact that the Contractor must pay labor on this project not less than the general prevailing rates of wages, which have been established for Collin County and attached herein for reference.

As stated in the *Texas Government Code*, Title 10, Subtitle F, Chapter 2258, Subchapter B:

Sec. 2258.021. RIGHT TO BE PAID PREVAILING WAGE RATES.

(a) A worker employed on a public work by or on behalf of the state or a political subdivision of the state shall be paid:

(1) not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the work is performed; and

(2) not less than the general prevailing rate of per diem wages for legal holiday and overtime work.

(b) Subsection (a) does not apply to maintenance work.

(c) A worker is employed on a public work for the purposes of this section if the worker is employed by a contractor or subcontractor in the execution of a contract for the public work with the state, a political subdivision of the state, or any officer or public body of the state or a political subdivision of the state.

1.7 DISCLOSURE OF RESPONSE

All information submitted in an accepted response must be retained by the City of Lucas for the period specified in the City of Lucas's record retention schedule created under Government Code Section 441.180, et sequitur. The information will not be returned to the respondent. The Public Information Act (PIA), Government Code Chapter 552, allows the public to have access to information in the possession of a governmental body through an open records request. Therefore, the respondent shall clearly identify in the response any confidential or proprietary information. Proprietary information identified by the respondent in the response, will be kept confidential by the City of Lucas to the extent permitted by state law. The City of Lucas merely raises the exception on behalf of the vendor. The City of Lucas takes no legal position on disclosure. The City of Lucas will use best efforts to give the respondent or the awarded vendor an opportunity to present to the Office of the Attorney General its arguments for non-disclosure of its identified confidential or proprietary information.

DISCLOSURE OF INTERESTED PARTIES

Texas Legislature passed HB 1295 that now requires a government entity receive a Disclosure of Interested Parties (Form 1295) before entering into a contract with a vendor that requires action by the City Council. Form 1295 was created by the Texas Ethics Commission per the direction of the Texas Legislature. The form must be completed electronically on the Texas Ethics Commission website, https://www.ethics.state.tx.us. Once you have electronically completed the form, you must print the form, sign & notarize the form, then deliver the form to the

City of Lucas along with the executed contract. This will apply to contracts that will require Council approval, in most situations will be $50,000 or greater.

1.8 ADDENDUMS/AMENDMENTS

Any interpretations, corrections and/or changes to a bid/proposal solicitation or extensions to the opening date will be made by addenda to the respective document when necessary. An addendum will be published and distributed by email to all that are known to have received a copy of the bid/proposal and related specifications. However, it shall be the sole responsibility of the bidder/proposer to verify issuance/non-issuance of addenda and to check all avenues of document availability prior to opening date and time to ensure bidder's receipt of any addenda issued. No addenda will be issued 3 days prior to bid opening. The last day for questions will be on **Friday, June 5th, 2026 at 2:00 PM**. The last day for addenda will be on **Friday, June 5th, 2026 at 2:00 PM**.

Any addenda issued within three working days of the bid opening will automatically delay the bid opening by one week. Bidders that attended the pre-bid meeting will be notified of the new bid opening time and date as determined by the City of Lucas Purchasing. The new bid date will also be posted on the city website.

The bidder is required to acknowledge receipt of any amendments by submitting a signed copy of each amendment issued. Signed copies must be submitted as part of the signed bid/proposal submittal.

1.9 BID SUBMITTALS

Bids/Proposals shall be submitted on the forms provided to insure complete uniformity of wording of all bids. All lump sum and unit prices must be stated in both script and figures. Bids may be rejected if they show any omissions, alterations in wording, conditional clauses, or irregularities of any kind.

If an emergency or unanticipated event interrupts normal City processes so as to cause postponement of the scheduled bid opening, the time specified for receipt of bids will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal City processes resume or to such other date and time as may be provided on the city website.

1.10 BIDDING ALTERNATES

Alternatives to manufacturer-specified equipment or materials must be pre-approved in writing prior to bid opening.

1.11 ACCEPTANCE

Any offer received shall be considered an offer, which may be accepted by the City of Lucas based on initial submission without discussions or negotiations. By submitting an offer in response to this solicitation the bidder/proposer agrees that any offer it submits may be accepted by the City of Lucas at any time within 90 days from the close date.

The City of Lucas reserves the right to reject any or all offers and to waive informalities and minor irregularities in offers received, and/or to accept any portion of the offer if deemed in the best interest of the City of Lucas. Failure of the bidder/proposer to provide in its offer any information requested in the bid may result in rejection for non-responsiveness.

1.12 REQUIRED FORMS TO BE RETURNED WITH BID SUBMITTAL

a. Certificate of Insurance
b. Affidavit of No Prohibited Interest
c. Bidders Qualification Statement with three references
d. Supplemental Information
e. Conflict of Interest Questionnaire
f. Schedule of Subcontractors
g. Workforce Composition
h. Bid Schedule
i. Bid Endorsement Page

j. Standard Form of Agreement
k. Bid Bond for 5% of total project due with bid submittal

1.13 COMMENCEMENT OF WORK

The Contractor agrees to commence work within (10) days after the date of written Notice to Proceed.

1.14 REQUIRED BONDS

The following bonds are required prior to contract execution OR project acceptance:

- Bid Bond – due with bid submittal
- Payment Bond – due prior to contract execution
- Performance Bond – due prior to contract execution
- Maintenance Bond to be executed at final acceptance for two (2) years and 100% of project total

1.15 AWARD

The City of Lucas intends to make an award using the evaluation criteria and other factors as indicated in this bid/proposal. The award shall be based on the lowest responsible and best-qualified bidder whose evaluation by the City of Lucas indicates to be in the best interest of the City and taxpayers.

Bid will be awarded on the basis of "best value". The award to the successful bidder will be determined by best value to the City of Lucas as allowed by Chapter 252 of the Local Government Code. The following criteria will be considered when selecting the successful bidder:

- the purchase price
- the reputation of the bidder and the bidder's services;
- the quality of the bidder's service;
- the extent to which the bidder's services meet the City's needs;
- the bidder's past business relationship with the City;
- the impact on the ability of the City to comply with laws and rules relating to contracting with historically underutilized businesses and non-profit organizations employing persons with disabilities;
- the total long-term cost to the City to acquire the bidder's goods or services; and
- any relevant criteria specifically listed in the request for bids or proposals.

1.15.1 Factors for consideration in the evaluation process:

Invitation for Bid (Contract for Goods and Services)

For projects with a requirement of CALENDAR DAYS TO COMPLETE PROJECT and/or TOTAL BID AMOUNT, the city may use the following schedule as the monetary value of a calendar day:

Amount of Contract ($)	**Value of a Calendar Day ($)**
Less than 25,000	100 per day
25,000 to 99,999.99	160 per day
100,000 to 999,999.99	240 per day
1,000,000 to 1,999,999.99	500 per day
2,000,000 to 2,999,999.99	1,000 per day
3,000,000 to 3,999,999.99	1,500 per day

4,000,000 to 4,999,999.99	2,000 per day
5,000,000 to 5,999,999.99	2,500 per day
6,000,000 to 6,999,999.99	3,000 per day
7,000,000 to 7,999,999.99	3,500 per day
8,000,000 to 8,999,999.99	4,000 per day
9,000,000 to 9,999,999.99	4,500 per day
10,000,000 to 10,999,999.99	5,000 per day
11,000,000 to 11,999,999.99	5,500 per day
More than 12,000,000.00	6,000 per day

Bidders should be aware that the evaluation for the award may consider the number of days bid. The value of the day will be determined by the lowest days bid and the corresponding value of the contract. The difference in the number of days will be multiplied by the calendar day value and added to each bidder's base bid. This is also sometimes referred to as 'A+B' bidding.

1.16 LIQUIDATED DAMAGES

Bidders should be aware that the City of Lucas expects timely completion of the contract within the timeframe indicated by the bidder in their bid. Consequently, bidders should be aware that the following schedule may be applied by the City as liquidated damages for each day the project is delayed in completion:

Amount of Contract ($)	**Value of a Calendar Day ($)**
More than 12,000,000.00	2,000 per day

Note: The sum of money thus deducted for such delay, failure, or noncompletion is not to be considered as a penalty, but shall be deemed, taken and treated as reasonable liquidated damages, per day that the contractor shall be in default after the time stipulated in the contract for completing the work.

1.17 RETAINAGE

As security for the faithful completion of the work by the contractor, the owner shall retain ten percent (10%) of the total dollar amount of work done on all contracts less than $400,000; five percent (5%) of the total dollar amount of work done on all contracts of $400,000 or more. Retainage will be held from each progress payment/invoice through final project completion/closeout.

1.18 BID TABULATIONS

Bid tabulations can be accessed in the City of Lucas Website: https://www.lucastexas.us/bid-postings.

1.19 CONTRACT ADMINISTRATION

The Lucas City Engineering together with the Finance Director shall be responsible for administration of the contract for compliance with the interpretation of scope, schedule, billings, requirements, and budget.

1.20 SUBSTANTIVE PROPOSALS

The respondent shall certify (a) that his bid submittal is genuine and is not made in the interest of, or on behalf of, any undisclosed person, firm, or corporation; (b) that he/she has not directly or indirectly induced or solicited any other respondent to put in a false or sham bid; (c) that he/she has not solicited or induced any other person, firm, or corporation from proposing; and (d) that he/she has not sought by collusion to obtain for himself any advantage over any other respondents or over the City of Lucas.

Bidder shall sign and return a copy of the Standard Form of Agreement.

Bidders must submit a Cashier's or Certified Check, issued by a bank satisfactory to the City of Lucas, or a Bid Bond issued by a bonding company satisfactory to the City of Lucas, payable without recourse to the order of the City of Lucas in an amount not less than five percent (5%) of the largest possible bid submitted as a guaranty that Bidder will enter into a contract and execute Bond and Guaranty. Bids without required check or bid bond will be considered non-responsive.

Minimum standard for responsible prospective bidders are as follows:

- Have adequate financial resources, or the ability to obtain such resources
- Be able to comply with the required or proposed schedules and project requirements
- Competitive pricing
- Have a satisfactory record of performance for contracts of similar scope (complete attached reference sheet)
- Have a satisfactory record of integrity and ethics
- Completeness and thoroughness of bid submittal

The City of Lucas may make such investigations as it deems necessary to determine the ability of the bidder to provide satisfactory performance in accordance with bid requirements, and the respondent shall furnish to the City all such information and data for this purpose.

1.21 DEFINITIONS

Bidder refers to submitter.

Vendor refers to Successful Bidder or Contractor.

Submittal refers to those documents required to be submitted to the City of Lucas, by a bidder.

1.22 INQUIRIES

Questions resulting in changes to this solicitation will be provided in the form of an amendment to the solicitation. Questions about this bid shall be in writing and directed to the procurement website, Civcast.

1.23 SCHEDULE OF EVENTS

The upcoming schedule of events is tentative scheduled as follows:

Public Advertisements		Monday, May 11, 2026 Monday, May 18, 2026 Monday, May 25, 2026
Pre-Bid Conference	May 26. 2026	at 10:00 AM
Open Bids	June 9, 2026	at 1:05 PM
Council Awards Contract (Anticipated)		Thursday, June 18, 2026
Notice of Award (Anticipated)		Friday, June 22, 2026
Notice to Proceed (Anticipated)		Monday, July 6, 2026
Finish Construction	As determined by Contractor's proposal. Calendar Days following official written Notice to Proceed.	

CITY OF LUCAS, TEXAS
WEST LUCAS ROAD RECONSTRUCTION AND WIDENING
BID SCHEDULE (BASE BID)

Item No.		Estimated Quantity	Unit	Description and Unit Price in Words	Unit Price in Figures	Item Subtotal
100	7001	25.6	AC	Preparing Right-of-Way complete in place, the sum of _____ _____Dollars and _____Cents per Acre		
104	7011	3993	SY	Removing Concrete (Driveways) complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
105	7012	42036	SY	Remove Treated/Untreated Base and Asphalt Pavement (12-16 inch) complete in place, the sum of _____Dollars and _____Cents per Square Yard		
110	7001	90825	CY	Excavation (Roadway) complete in place, the sum of _____Dollars and _____Cents per Cubic Yard		
110	7002	387	CY	Excavation (Channel) complete in place, the sum of _____ _____Dollars and _____Cents per Cubic Yard		
132	7002	19890	CY	Embankment (Final) (Density Control) (Type A) complete in place, the sum of _____Dollars and _____Cents per Cubic Yard		
134	7006	1591	CY	Backfill (Type A) complete in place, the sum of _____Dollars and _____Cents per Cubic Yard		
160	7002	36880	SY	Furnishing and Placing Topsoil (4 inch) complete in place, the sum of _____Dollars and _____Cents per Square Yard		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
162	7002	4136	SY	Block Sodding complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
162	7004	28906	SY	Mulch Sodding complete in place, the sum of _____ _____Dollars and _____Cents per Square yard		
168	7001	3	TGL	Vegetative Watering complete in place, the sum of _____ _____Dollars and _____Cents per Thousand Gallon		
169	7001	6278	SY	Soil Retention Blankets (SL_MOD_CLAY_SHORT) complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
170	7001	1	LS	Irrigation System complete in place, the sum of _____ _____Dollars and _____Cents per Lump Sum		
193	7001	1	MO	Landscape Establishment complete in place, the sum of _____ _____Dollars and _____Cents per Month		
216	7001	25	HR	Proof Rolling complete in place, the sum of _____ _____Dollars and _____Cents per Hour		
260	7005	2072	TON	Lime (Commercial or Quick)(Slurry) or Quick (Dry) complete in place, the sum of _____ _____Dollars and _____Cents per Ton		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
260	7020	63743	SY	Lime Treated (Subgrade) (8 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
341	7003	7	TON	Dense Graded HMAC Type B With PG64-22 Binder complete in place, the sum of _____ _____Dollars and _____Cents per Ton		
341	7015	637	TON	Dense Graded HMAC Type C With PG64-22 Binder complete in place, the sum of _____ _____Dollars and _____Cents per Ton		
341	7064	18	TON	Dense Graded HMAC Type D With PG64-22 Binder complete in place, the sum of _____ _____Dollars and _____Cents per Ton		
354	7033	143	SY	Plane Asphalt Concrete Pavement (0"-3") complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
360	7004	57261	SY	Concrete Pavement (Continuously Reinforced) (10 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
401	7001	120	CY	Flowable Backfill complete in place, the sum of _____ _____Dollars and _____Cents per Cubic Yard		
402	7001	8732	LF	Trench Excavation Protection complete in place, the sum of _____ _____Dollars and _____Cents per Squar Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
403	7001	4064	SF	Temporary Special Shoring complete in place, the sum of _____ _____Dollars and _____Cents per Square Foot		
432	7001	767	CY	Riprap (Concrete) (4 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Cubic Yard		
432	7012	60	CY	Riprap (Concrete) (Flume) complete in place, the sum of _____ _____Dollars and _____Cents per Cubic Yard		
432	7013	79	CY	Riprap (Mow Strip) (4 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Cubic Yard		
432	7041	3950	CY	Riprap (Stone Protection) (12 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Cubic Yard		
432	7043	512	CY	Riprap (Stone Protection) (18 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Cubic Yard		
462	7003	592	LF	Concrete Box Culvert (4 ft x 2 ft) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
462	7004	48	LF	Concrete Box Culvert (4 ft x 3 ft) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
462	7006	553	LF	Concrete Box Culvert (5 ft x 2 ft) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
462	7010	168	LF	Concrete Box Culvert (6 ft x 2 ft) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
462	7033	540	LF	Concrete Box Culvert (10 ft x 5 ft) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
464	7001	12	LF	Reinforced Concrete Pipe (Class III) (12 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
464	7003	94	LF	Reinforced Concrete Pipe (Class III) (18 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
464	7005	129	LF	Reinforced Concrete Pipe (Class III) (24 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
464	7009	648	LF	Reinforced Concrete Pipe (Class III) (36 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
464	7011	2850	LF	Reinforced Concrete Pipe (Class III) (48 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
464	7019	176	LF	Reinforced Concrete Pipe (Class IV) (18 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
464	7021	767	LF	Reinforced Concrete Pipe (Class IV) (24 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
465	7002	8	EA	Manhole (Complete) (PRM) (48 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
466	7159	2	EA	Wingwall (FW- S) (HW = 3 ft) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
466	7189	2	EA	Headwall (PW - 2) (HW = 5 ft) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
467	7066	16	EA	Safety End Treatment (Type I) (S = 4 ft) (HW = 2 ft) (6:1) (P) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
467	7070	2	EA	Safety End Treatment (Type I) (S = 4 ft) (HW = 3 ft) (6:1) (P) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
467	7094	6	EA	Safety End Treatment (Type I) (S = 5 ft) (HW = 2 ft) (6:1) (P) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
467	7123	10	EA	Safety End Treatment (Type I) (S = 6 ft) (HW = 2 ft) (6:1) (P) complete in place, the sum of _____ _____Dollars and _____Cents per Each		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
467	7308	8	EA	Safety End Treatment (Type II) (18 inch) (Reinforced Concrete Pipe) (6:1) (P) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
467	7328	30	EA	Safety End Treatment (Type II) (24 inch) (Reinforced Concrete Pipe) (6:1) (P) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
467	7368	15	EA	Safety End Treatment (Type II) (36 inch) (RCP) (6:1) (P) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
479	7001	2	EA	Adjusting Manholes complete in place, the sum of _____ _____Dollars and _____Cents per Each		
500	7001	1	LS	Mobilization complete in place, the sum of _____ _____Dollars and _____Cents per Lump Sum		
502	7001	30	MO	Barricades, Signs and Traffic Handling complete in place, the sum of _____ _____Dollars and _____Cents per Month		
503	7002	2	EA	Portable Changeable Message Sign complete in place, the sum of _____ _____Dollars and _____Cents per Month		
506	7002	1350	LF	Rock Filter Dams (Install) (Type II) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
506	7003	455	LF	Rock Filter Dams (Install) (Type III) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
506	7011	1805	LF	Rock Filter Dams (Remove) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
506	7020	778	SY	Construction Exits (Install) (Type 1) complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
506	7024	778	SY	Construction Exits (Remove) complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
506	7042	126	LF	Biodegradable Erosion Control Logs (Install) (6-Inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
506	7039	5787	LF	Temporary Sediment Control Fence (Install) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
506	7041	5787	LF	Temporary Sediment Control Fence (Remove) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
512	7005	200	LF	Portable Concrete Traffic Barrier (Furnish & Install) (F-Shape) (Type 1) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
512	7029	200	LF	Portable Concrete Traffic Barrier (Move) (F-Shape) (Type 1) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
512	7053	200	LF	Portable Concrete Traffic Barrier (Remove) (F-Shape) (Type 1) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
527	7002	906	SY	Colored Textured Concrete (5 Inch) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
527	7007	815	SY	Colored Textured Concrete (10 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
529	7007	12985	LF	Concrete Curb (Mono) (Type II) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
530	7006	6755	SY	Driveways (Concrete) complete in place, the sum of _____ _____Dollars and _____Cents per Square Yard		
540	7002	1524	LF	Metal W-Beam Guard Fence (Steel Post) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
540	7015	4	EA	Downstream Anchor Terminal Section complete in place, the sum of _____ _____Dollars and _____Cents per Each		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
540	7027	150	LF	Metal Beam Guard Fence (Long Span System) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
544	7001	4	EA	Guardrail End Treatment (Install) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
545	7002	1	EA	Crash Cushion Attenuator (Move and Reset) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
545	7004	1	EA	Crash Cushion Attenuator (Remove) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
545	7010	1	EA	Crash Cushion Attenuator (Install)(R)(N)(TL3) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
550	7017	11	EA	Remove and Install Existing Gate complete in place, the sum of _____ _____Dollars and _____Cents per Each		
552	7001	472	LF	Install Fence (WF) (Type A) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
552	7002	829	LF	Install Fence (WF) (Type B) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
552	7003	826	LF	Install Fence (WF) (Type C) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
552	7004	1291	LF	Install Fence (WF) (Type D) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
552	7005	830	LF	Wire Fence (Special) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
552	7011	5277	LF	Wire Fence (Remove) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
552	7016	1685	LF	Install Fence (Pipe Rail) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
552	7017	1114	LF	Install Fence (Vinyl Rail) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
560	7000	12	EA	Temporary Mailbox complete in place, the sum of _____ _____Dollars and _____Cents per Each		
560	7012	12	EA	Relocate Existing Mailbox complete in place, the sum of _____ _____Dollars and _____Cents per Each		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
610	7005	2	EA	Relocate Roadside Illumination Assembly complete in place, the sum of _____ _____Dollars and _____Cents per Each		
618	7015	142	LF	Conduit (HDPE) (4 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
618	7040	649	LF	Conduit (PVC)(Schedule 40)(4 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
644	7057	12	EA	Install Small Road Sign Support & Assembly Type TWT (1) WS(P) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
644	7058	1	EA	Install Small Road Sign Support & Assembly Type TWT (1) WS(T) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
644	7068	13	EA	Relocate Small Road Sign Support & Assembly (Type TWT) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
644	7111	1	EA	Remove and Relocate Sign "A Painting Place" complete in place, the sum of _____ _____Dollars and _____Cents per Each		
644	7112	1	EA	Remove and Relocate Sign "Trinity Tabernacle" _____ _____Dollars and _____Cents per Each		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
644	7113	1	EA	Remove and Relocate Sign "Cornerstone Church" complete in place, the sum of _____ _____Dollars and _____Cents per Each		
644	7114	2	EA	Remove and relocate Sign "Student Drop-Off/Pick-up/ Staff/Faculty Parking" complete in place, the sum of _____ _____Dollars and _____Cents per Each		
658	7011	46	EA	Install Delineator Assembly (D-SW) SZ-2 (WC) GND (BR) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
658	7017	26	EA	Install Delineator Assembly (D-SW) SZ-1 (BRF) GF1 (BR) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
658	7072	4	EA	Install Object Marker Assembly (OM-4) (TWT) (WAS) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
662	7051	257	EA	Work Zone Pavement Markings Remov (Reflectors) Type II-A-A complete in place, the sum of _____Dollars and _____Cents per Each		
662	7064	5287	LF	Work Zone Pavement Markings Remov (White) 4 inch (Solid) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
662	7095	606	LF	Work Zone Pavement Markings Remov (Yellow)4 inch (Broken) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
662	7097	3298	LF	Work Zone Pavement Markings Remov (Yellow)4 inch (Solid) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7008	334	LF	Reflective Pavement Markings Type I (White) 6 inch (Dot)(90 mil) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7023	3344	LF	Reflective Pavement Markings Type I (White) 8 inch (Solid)(90 mil) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7029	300	LF	Reflective Pavement Markings Type I (White) 12 inch (SLD) (90 mil) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7035	112	LF	Reflective Pavement Markings Type I (White) 24 inch (SLD) (90 mil) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7041	37	EA	Reflective Pavement Markings Type I (White) Arrow (90 MIL) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7065	21	EA	Reflective Pavement Markings Type I (White) (Word) (90 mil) complete in place, the sum of _____Dollars and _____Cents per Each		
666	7131	29	LF	Reflective Pavement Markings Type I (Yellow) (Median Nose) (90 mil) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
666	7168	1887	LF	Reflective Pavement Markings Type II White) (4 inch) (Broken) (90 mil) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
666	7171	15641	LF	Reflective Pavement Markings Type II (White) 4 inch (Solid) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7184	20	LF	Reflective Pavement Markings Type II (White) 24 inch (Solid) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7208	7782	LF	Reflective Pavement Markings Type II (Yellow) 4 inch (Broken) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7210	1819	LF	Reflective Pavement Markings Type II (Yellow) 4 inch (Solid) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7220	30	EA	Reflective Pavement Markings Type II (Yellow) (Median Nose) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7347	33381	LF	Pavement Sealer (6 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
666	7348	3344	LF	Pavement Sealer (8 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
666	7350	300	LF	Pavement Sealer (12 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
666	7352	112	LF	Pavement Sealer (24 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
666	7353	37	EA	Pavement Sealer (Arrow) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
666	7354	21	EA	Pavement Sealer (Word) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
666	7355	30	EA	Pavement Sealer (Median Nose) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
666	7407	15081	LF	Refelctive Pavement Markings Type 1 (White) 6 inch (Broken) (90 Mil) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7410	15462	LF	Refelctive Pavement Markings Type 1 (White) 6 inch (Solid) (90 Mil) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
666	7422	2504	LF	Refelctive Pavement Markings Type 1 (Yellow) 6 inch (Dot) (90 Mil) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
672	7002	357	EA	Reflective Pavement Markers Type 1-C complete in place, the sum of _____ _____Dollars and _____Cents per Each		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
672	6009	124	EA	Reflective Pavement Markers Type II-A-A complete in place, the sum of _____ _____Dollars and _____Cents per Each		
672	6010	754	EA	Reflective Pavement Markers Type II-C-R complete in place, the sum of _____ _____Dollars and _____Cents per Each		
672	7022	20	EA	Reflective Pavement Markers Type II-B-B complete in place, the sum of _____ _____Dollars and _____Cents per Each		
677	7001	250	LF	Eliminate Existing Pavement Markers & Markings (4 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
678	7002	33381	LF	Pavement Surface Preparation for Markings (6 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
678	7004	3344	LF	Pavement Surface Preparation for Markings (8 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
678	7008	112	LF	Pavement Surface Preparation for Markings (24 inch) complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
678	7009	37	EA	Pavement Surface Preparation for Markings (Arrow) complete in place, the sum of _____ _____Dollars and _____Cents per Each		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
678	7016	21	EA	Pavement Surface Preparation for Markings (Word) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
678	7024	30	EA	Pavement Surface Preparation for Markings (Median Nose) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
678	7033	501	EA	Pavement Surface Preparation for Markings (Raised Pavement Markers) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
685	7005	3	EA	Relocate Roadside Flashing Beacon Assembly (Solar Powered) complete in place, the sum of _____Dollars and _____Cents per Each		
1002	7013	1	LS	Remove and Relocate Existing Landscape Features complete in place, the sum of _____Dollars and _____Cents per Lump Sum		
1002	7029	50	EA	Remove and Reset Rock/Boulder complete in place, the sum of _____ _____Dollars and _____Cents per Each		
1004	1004	1	EA	Tree Protection complete in place, the sum of _____ _____Dollars and _____Cents per Each		
5044	7001	2	EA	Headwall (Stone Masonry) complete in place, the sum of _____ _____Dollars and _____Cents per Each		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
7014	7001	15	LF	Curb Inlet Sediment Protection complete in place, the sum of _____ _____Dollars and _____Cents per Linear Foot		
7004	7025	18	EA	Cut and Plug Water Main complete in place, the sum of _____ _____Dollars and _____Cents per Each		
7004	7032	18	EA	Gate Valve (6 Inch) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
7004	7055	8	EA	Remove and Relocate Meters and Boxes complete in place, the sum of _____ _____Dollars and _____Cents per Each		
7004	7063	1	LS	Utility Adjustments complete in place, the sum of _____ _____Dollars and _____Cents per Lump Sum		
7019	7001	5	EA	Subsurface Utility Locate (Outside Roadbed) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
7019	7002	2	EA	Subsurface Utility Locate (Inside Roadbed) complete in place, the sum of _____ _____Dollars and _____Cents per Each		
7033	7001	17	EA	Adjusting Water Valve Box To Grade complete in place, the sum of _____ _____Dollars and _____Cents per Each		

Item No.		Estimated Quantity	Unit	Description and Price in Words	Unit Price in Figures	Item Subtotal
7049	7064	4	EA	Adjust Existing Water Meter complete in place, the sum of _____Dollars and _____Cents per Each		
7049	7102	2	EA	Adjust Hydrant complete in place, the sum of _____Dollars and _____Cents per Each		
7049	7103	8	EA	Relocate Existing Water Meter And Relay Existing Service complete in place, the sum of _____Dollars and _____Cents per Each		
7049	7015	18	EA	Remove and Replace Fire Hydrant complete in place, the sum of _____Dollars and _____Cents per Each		
7006	7001	5850	LF	Abandon/Fill Existing Sanitary Sewer Pipe (8 Inch) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
7006	7076	440	LF	Jack, Bore or Tunnel Sanitary Sewer Force Main (HDPE) (DR 13.5) (18 Inch) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
7006	7077	5417	LF	Sanitary Sewer Force Main (HDPE) (DR 13.5) (8 Inch) complete in place, the sum of _____Dollars and _____Cents per Linear Foot		
7040	7033	2	EA	Air Release Valve (Complete) (2 Inch) complete in place, the sum of _____Dollars and _____Cents per Each		
					TOTAL BID AMOUNT:	

CITY OF LUCAS
STATE OF TEXAS

CONSTRUCTION PLANS FOR PROPOSED SUBURBAN MINOR ARTERIAL

DESIGN SPEED = 55 MPH
AADT (2040) = 26,689
POSTED SPEED = 50 MPH

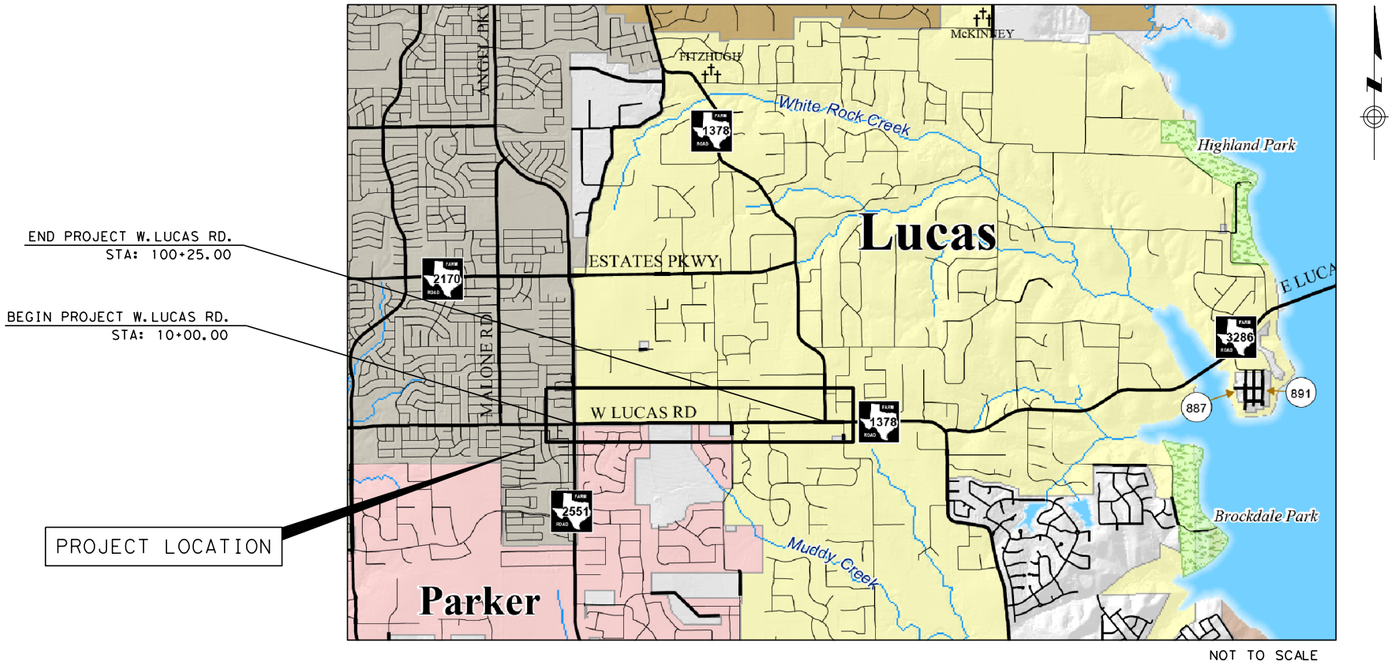
WEST LUCAS ROAD RECONSTRUCTION AND WIDENING
COLLIN COUNTY

NET LENGTH OF ROADWAY= 9,025.00 FT.= 1.7MI.

NET LENGTH OF PROJECT= 9,025.00 FT.= 1.7MI.

LIMITS: FROM ANGEL PARKWAY (F.M. 2551)TO COUNTRY CLUB ROAD (FM 1378)

FOR THE CONSTRUCTION AND ROADWAY IMPROVEMENTS OF WEST LUCAS ROAD CONSISTING OF: PAVING, SIDEWALK, DRAINAGE, TRAFFIC CONTROL, UTILITIES, SIGNING AND PAVEMENT MARKINGS, & REPLACEMENT OF EXISTING CULVERTS



FINAL PLANS

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, SEPTEMBER 1, 2024, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT:
CITY OF LUCAS DRAINAGE DESIGN CRITERIA MANUAL (DECEMBER 16, 2021)
TXDOT ROADWAY DESIGN MANUAL (DECEMBER 2022)
TXDOT HYDRAULIC DESIGN MANUAL (SEPTEMBER 2019)
TXDOT ENVIRONMENTAL HANDBOOK (SEPTEMBER 2024)
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS
THE GREEN BOOK (2018), 7TH EDITION WITH LATEST INTERIM REVISIONS
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (OCTOBER 2014)
NCTCOG PUBLIC WORKS CONSTRUCTION STANDARDS, AMENDED FIFTH EDITION (AUGUST 2023)
COLLIN COUNTY ROADWAY STANDARDS (SEPTEMBER 28, 2020)
COLLIN COUNTY DRAINAGE DESIGN STANDARDS (SEPTEMBER 28, 2020)

FINAL PLANS

LETTING DATE: _____

DATE CONTRACTOR BEGAN WORK: _____

DATE WORK WAS COMPLETED & ACCEPTED: _____

FINAL CONTRACT COST: $ _____

CONTRACTOR : _____

MAYOR
DUSTY KUYKENDALL

CITY COUNCIL

DEBBIE FISHER	NIEL PETERSON
TIM JOHNSON	PHILIP LAWRENCE
BRIAN STUBBLEFIELD	CHRIS BIERMAN

CITY MANAGER
JOHN WHITSELL

CAPITAL IMPROVEMENTS PROJECTS MANAGER
PATRICK HUBBARD

PUBLIC WORKS DIRECTOR
JEREMY BOGLE

KEY SHEET REVISIONS

DATE	DESCRIPTION
4/24/2026	⚠ SUMMARY OF PAY ITEMS UPDATED

COLLIN COUNTY
collincountytx.gov

OWNER
COLLIN COUNTY
4690 COMMUNITY AVE.
MCKINNEY, TX 75071

OWNER
CITY OF LUCAS
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

bcc engineering
a PARSONS Company

ENGINEER OF RECORD
CHRISTOPHER P. MESZLER, P.E.
LIC. NO. 112052
1903 CENTRAL DRIVE, SUITE #100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

Texas811 Know what's below. Call before you dig.

DATE: 4/27/2026 10:58:48 AM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\1. General\WLucas_TITLE REV1.DGN

SHEET NO.	DESCRIPTION
	GENERAL
1	TITLE SHEET
2	INDEX OF SHEETS/SIGNATURE SHEET
3	INDEX OF STANDARDS
4	SURVEY CONTROL INDEX SHEET
5	SUMMARY OF QUANTITIES
6-10	TYPICAL SECTIONS
11-13	GENERAL NOTES
	TEMPORARY TRAFFIC CONTROL PLAN
14	TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES
15	TTC ADVANCED WARNING SIGNS
16-19	TEMPORARY TRAFFIC CONTROL PLAN TYPICAL SECTIONS
20	TEMPORARY TRAFFIC CONTROL PLAN SEQUENCE OF WORK
21	TEMPORARY TRAFFIC CONTROL PLAN SD1 & SD2 DETAILS
22-26	TEMPORARY TRAFFIC CONTROL PLAN PHASE 1
27-31	TEMPORARY TRAFFIC CONTROL PLAN PHASE 2
32-41	TEMPORARY TRAFFIC CONTROL PLAN PHASE 3
42-51	TEMPORARY TRAFFIC CONTROL PLAN PHASE 4
52-55	TEMPORARY TRAFFIC CONTROL PLAN PHASE 5
56-59	TEMPORARY TRAFFIC CONTROL PLAN PHASE 6
60-63	TEMPORARY TRAFFIC CONTROL PLAN PHASE 7
64-65	TTC INTERSECTION DETAILS
66	TTC "NO LEFT" DETAILS
	ROADWAY PLAN
67-76	EXISTING CONDITIONS
77-80	VERTICAL & HORIZONTAL DATA
81-100	ROADWAY PLAN & PROFILE
101	ROADWAY DETAILS
102	PIPE RAIL MBGF PEDESTRIAN PROTECTION
103	INTERSECTION DETAILS RATHBONE DR.
104	INTERSECTION DETAILS MIDDLETON DR.
105	INTERSECTION DETAILS INGRAM LN.
106	INTERSECTION DETAILS LEWIS LN. & RISING SUN RD.
107	INTERSECTION DETAILS RED STAR RD. & BEE CAVES RD.
108	INTERSECTION DETAILS ROCKLAND TR.
109	INTERSECTION DETAILS COUNTRY CLUB RD.
110-167	CROSS SECTIONS
	STRUCTURES/DRAINAGE PLAN
168	DRAINAGE AREA CALCULATIONS
169	OVERALL DRAINAGE AREA MAP
170	MUDDY CREEK DRAINAGE AREA MAP
171-178	IN-SITE DRAINAGE AREA MAP
179	DRAINAGE DETAILS
180-181	CLOSED FLUME INLET DETAILS
182-211	DRIVEWAY & CULVERT LAYOUT
212	BRIDGE CLASS CULVERT LAYOUT
213	CROSSING CULVERT LAYOUT
	FORCE MAIN PLAN
214	FORCE MAIN HORIZONTAL ALIGNMENT DATA
215-226	FORCE MAIN PLAN & PROFILE
227-229	FORCE MAIN DETAILS
	UTILITY PLAN
230	EXISTING UTILITY LEGEND & SYMBOLS
231-240	UTILITY ADJUSTMENTS
	SIGNING & PAVEMENT MARKINGS PLAN
241	SIGNING & PAVEMENT MARKINGS (BY OTHERS)
242-251	SIGNING & PAVEMENT MARKINGS
	ENVIRONMENTAL PLAN
255	STORM POLLUTION PREVENTION PLAN
256-265	EROSION CONTROL PLAN
266-272	TREE PRESERVATION PLAN
273-275	TREE PRESERVATION & REPLACEMENT PLAN

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

INDEX OF SHEETS

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

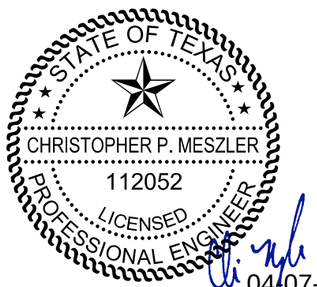
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	2
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.

DATE: 4/7/2026 12:23:42 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\1. General\WLucas_INDEX_01.dgn



BCC, A PARSONS COMPANY

1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
TBPE REG. F-20986
CHRISTOPHER P. MESZLER, P.E.
LIC. NO. 112052

04-07-2026

THE FOLLOWING STANDARD SHEETS BELOW HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

TRAFFIC DETAIL STANDARDS

BARRICADE AND CONSTRUCTION STANDARDS

BC(1)-21
BC(2)-21
BC(3)-21
BC(4)-21
BC(5)-21
BC(6)-21
BC(7)-21
BC(8)-21
BC(9)-21
BC(10)-21
BC(11)-21
BC(12)-21

TRAFFIC CONTROL PLAN STANDARDS

TCP(1-2)-18
TCP(1-3)-18
TCP(2-1)-18
TCP(2-3)-23
TCP(2-4)-18
TCP(2-5)-18

WORK ZONE STANDARDS

WZ(TD)-17
WZ(STPM)-23
WZ(UL)-13

ROADWAY DETAIL STANDARDS

PAVEMENT DETAILS

CRCP(1)-24
CRCP(2)-24
JS-14
CDD (FTW)
CSWD (FTW)

BARRIER FLEXIBLE

GF(31)-19
GF(31)DAT-19
GF(31)LS-19
GF(31)MS-19

GUARDRAIL END TREATMENTS

SGT(15)31-20

MISCELLANEOUS DETAILS

CCCG-22
PED-18
WF(1)-10
WF(2)-10
MB(1)-21
MB(2)-21
MB(3)-21
MB(4)-21

PAVEMENT MARKING DETAIL STANDARDS

DELINEATOR AND PAVEMENT MARKING STANDARDS

D&OM(1)-20
D&OM(2)-20
D&OM(3)-20
D&OM(4)-20
D&OM(5)-20
D&OM(6)-20
D&OM(VIA)-20
PM(1)-22
PM(2)-22
PM(3)-22
PM(4)-22A

SIGN MOUNTING STANDARDS

SMD(GEN)-08
SMD(TWT)-08

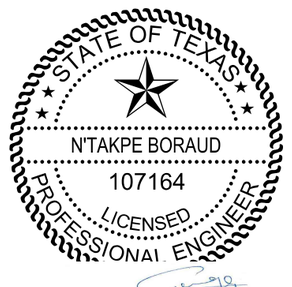
ENVIRONMENTAL DETAIL STANDARDS

TEMPORARY EROSION DETAILS

EC(1)-16
EC(2)-16
EC(3)-16

TREE PROTECTION DETAILS

TPD-19 (AUS)
TRB-24(1)
TRB-15(2)



4/7/2026

PARSONS

3400 WATERVIEW PKWY
RICHARDSON, TX 75080
TBPE REG. F-20986
N'TAKPE BORAUD, P.E.
LIC. NO. 107164

THE FOLLOWING STANDARD SHEETS BELOW HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

DRAINAGE DETAIL STANDARDS

CULVERT AND DRAINAGE
SINGLE BOX CULVERTS

SCP-MD
SCP-4
SCP-5
SCP-10
SRR

WINGS FOR SINGLE & MULTI-BOX CULVERT

PW

SAFETY END TREATMENT FOR BOX CULVERTS

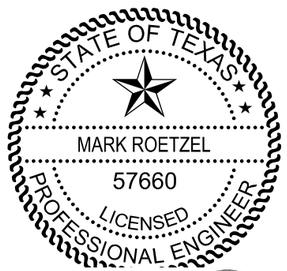
SETB-PD
SETB-CD
SETB-FW-S

SAFETY END TREATMENT FOR PIPE CULVERTS

PSET-SP

PRECAST INLET AND MANHOLES

PAZD-CZ
PB
PJB



4/7/2026

PARSONS

3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
TBPE REG. F-20986
MARK ROETZEL, P.E.
LIC. NO. 57660

THE FOLLOWING STANDARD SHEETS BELOW HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

UTILITY DETAIL STANDARDS

NCTCOG

STANDARD DRAWINGS #

4010B
4010C
4020
4030
4040

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

INDEX OF STANDARDS

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

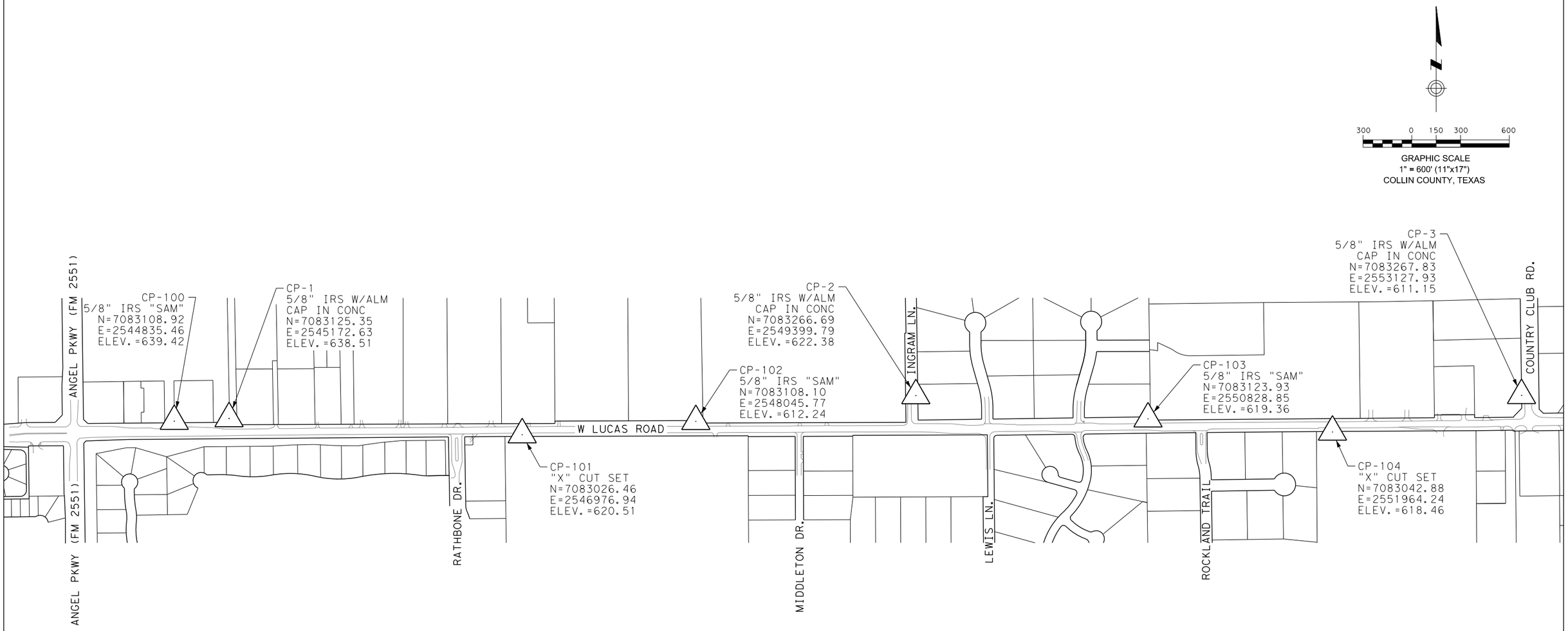
bcc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	3
COUNTY		
COLLIN		

DATE: 4/7/2026 12:23:42 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\1. General\WLucas_INDEX_02.dgn

Texas811 Know what's below. Call before you dig.



NOTES:

1. THE SURVEY CONTROL INFORMATION HAS BEEN ACCEPTED AND INCORPORATED INTO THIS PS&E" WHICH IS SIGNED, SEALED AND DATED BY A TEXAS PROFESSIONAL ENGINEER.

2. ALL COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (2011 ADJ: EPOCH 2010.00)

3. THE VERTICAL DATUM FOR THIS PROJECT IS THE NAVD 1988 (CORS 2011), U.S. SURVEY FEET.

4. ALL COORDINATE VALUES ARE BASED UPON AN AVERAGE OF FOUR 180 EPOCH OBSERVATIONS UTILIZING THE WDS NETWORK.

5. COORDINATES AND DISTANCES ARE U.S. SURVEY FEET. DISPLAYED IN GRID VALUES

I HEREBY CERTIFY THAT THE HORIZONTAL AND VERTICAL DATA SHOWN HEREON WAS DETERMINED BY A FIELD SURVEY ON FEBRUARY 05, 2020 UTILIZING THE TxDOT VIRTUAL REFERENCE SYSTEM RTK NETWORK AND IS CORRECTLY SHOWN HEREON.

STATE OF TEXAS
REGISTERED
MICHAEL A. MEDINA
6692
PROFESSIONAL
LAND SURVEYOR

3/28/2022
Michael A. Medina Date
RPLS No. 6692

CONTROL POINT LEGEND

△ DENOTES PRIMARY CONTROL POINT AS NOTED
5/8" IRON ROD SET (IRS)

SAM™
Surveying and Mapping, LLC. (SAM)
1341 W. Mockingbird Lane, Suite 400W
Dallas, Tx 75247 • (214) 631-7888
FIRM REGISTRATION NO. F-1937
TBPLS REGISTRATION NO. 10064301

WEST LUCAS ROAD

SURVEY CONTROL INDEX SHEET

COLLIN COUNTY, TEXAS

SHEET 1 OF 1

DESIGNED BY	FED. RD. DIV. NO.	STATE PROJECT NO.		HIGHWAY NO.
		SEE TITLE SHEET		W. LUCAS RD.
DRAWN BY	STATE	DISTRICT	COUNTY	SHEET NO.
GK	TEXAS	DAL	COLLIN	4
CHECKED BY	CONTROL	SECTION	JOB	
MM				
VERIFIED BY				
EAK				

ITEM CODE			DESCRIPTION	UNIT	TOTAL	
ITEM NO	DESC CODE	SP NO			ESTIMATE	FINAL
0100	7001		PREPARING ROW	AC	25.6	
0104	7011		REMOV CONC (DRIVEWAYS)	SY	3,993	
0105	7012		RMV (12"-16") TRT/UNTRT BASE & ASPH PA	SY	42,036	
0110	7001		EXCAV (ROADWAY)	CY	90,825	
0110	7002		EXCAV (CHANNEL)	CY	387	
0132	7002		EMBANK (FNL)(DC)(TYA)	CY	19,890	
0134	7006		BACKFILL (TY A)	LF	1,591	
0160	7002		FURN & PLACE TOPSOIL (4")	SY	36,880	
0162	7002		BLOCK SODDING	SY	4,136	
0162	7004		MULCH SODDING	SY	28,906	
0168	7001		VEGETATIVE WATERING	TGL	3	
0169	7001		SOIL RET BLKT(SL_MOD_CLAY_SHORT)	SY	6,278	
0170	7001		IRRIGATION SYSTEM	LS	1	
0193	7001		LANDSCAPE ESTABLISHMENT	MO	1	
0216	7001		PROOF ROLLING	HR	25	
0260	7005		LIME (COM OR QK)(SLURRY) OR QK (DRY)	TON	39	
0260	7020		LIME TREATMENT (SUBGRADE)(8")	SY	63,743	
0341	7003		D-GR HMA TY-B PG64-22 (EXEMPT)	TON	7	
0341	7015		D-GR HMA TY-C PG64-22	TON	637	
0341	7064		D-GR HMA TY-D PG 64-22 (EXEMPT)	TON	18	
0354	7033		PLANE ASPH CONC PAV (0"-3")	SY	143	
0360	7004		CONC PVMT (CRCP) (10")	SY	57,261	
0401	7001		FLOWABLE BACKFILL	CY	120	
0402	7001		TRENCH EXCAVATION PROTECTION	LF	8,732	
0403	7001		TEMPORARY SPL SHORING	SF	4,064	
0432	7001		RIPRAP (CONC) (4 IN)	CY	767	
0432	7012		RIPRAP (CONC) (FLUME)	CY	60	
0432	7013		RIPRAP (MOW STRIP) (4 IN)	CY	79	
0432	7031		RIPRAP (STONE COMMON)(DRY)(12 IN)	CY	141	
0432	7032		RIPRAP (STONE COMMON)(DRY)(15 IN)	CY	140	
0432	7038		RIPRAP (STONE COMMON)(GROUT)(12 IN)	CY	939	
0462	7003		CONC BOX CULV (4 FT X 2 FT)	LF	594	
0462	7004		CONC BOX CULV (4 FT X 3 FT)	LF	52	
0462	7006		CONC BOX CULV (5 FT X 2 FT)	LF	553	
0462	7010		CONC BOX CULV (6 FT X 2 FT)	LF	252	
0462	7033		CONC BOX CULV (10 FT X 5 FT)	LF	540	
0464	7001		RC PIPE (CL III)(12 IN)	LF	12	
0464	7003		RC PIPE (CL III)(18 IN)	LF	94	
0464	7005		RC PIPE (CL III)(24 IN)	LF	129	
0464	7009		RC PIPE (CL III)(36 IN)	LF	665	
0464	7011		RC PIPE (CL III)(48 IN)	LF	2772	
0464	7019		RC PIPE (CL IV)(18 IN)	LF	176	
0464	7021		RC PIPE (CL IV)(24 IN)	LF	727	
0465	7002		MANHOLE (COMPL)(PRM)(48 IN)	EA	8	
0466	7159		WINGWALL (FW-S) (HW = 3 FT)	EA	2	
0466	7189		HEADWALL (PW - 2)(HW=5 FT)	EA	2	
0467	7066		SET (TY I) (S= 4FT)(HW = 2FT)(6:1)(P)	EA	16	
0467	7070		SET (TY I) (S= 4FT)(HW = 3FT)(6:1)(P)	EA	2	
0467	7094		SET (TY I) (S= 5FT)(HW = 2FT)(6:1)(P)	EA	6	
0467	7123		SET (TY I) (S= 6FT)(HW = 2FT)(6:1)(P)	EA	10	
0467	7308		SET (TY II) (18 IN) (RCP) (6:1) (P)	EA	8	
0467	7328		SET (TY II) (24 IN) (RCP) (6:1) (P)	EA	30	
0467	7368		SET (TY II) (36 IN) (RCP) (6:1) (P)	EA	15	
0479	7001		ADJUSTING MANHOLES	EA	2	
0500	7001		MOBILIZATION	LS	1	
0502	7001		BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	30	
0503	7002		PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	
0506	7002		ROCK FILTER DAMS (INSTALL) (TY 2)	LF	1,350	
0506	7003		ROCK FILTER DAMS (INSTALL) (TY 3)	LF	455	
0506	7011		ROCK FILTER DAMS (REMOVE)	LF	1,805	
0506	7020		CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	778	
0506	7024		CONSTRUCTION EXITS (REMOVE)	SY	778	
0506	7042		BIODEG EROSN CONT LOGS (INSTL) (6")	LF	126	
0506	7039		TEMP SEDMT CONT FENCE (INSTALL)	LF	5,787	
0506	7041		TEMP SEDMT CONT FENCE (REMOVE)	LF	5,787	
0512	7005		PORT CTB (FUR & INST)(F-SHAPE)(TY 1)	LF	200	
0512	7029		PORT CTB (MOVE)(F-SHAPE)(TY 1)	LF	200	
0512	7053		PORT CTB (REMOVE)(F-SHAPE)(TY 1)	LF	200	
0527	7002		COLORED TEXTURED CONCRETE (5")	SY	906	
0527	7007		COLORED TEXTURED CONCRETE (10")	SY	815	
0529	7007		CONC CURB (MONO) (TY II)	LF	961	
0530	7006		DRIVEWAYS (CONC)	SY	4,251	
0540	7002		MTL W-BEAM GD FEN (STEEL POST)	LF	1,524	
0540	7015		DOWNSTREAM ANCHOR TERMINAL SECTION	EA	4	
0540	7027		MTL BM GD FEN (LONG SPAN SYSTEM)	LF	150	
0544	7001		GUARDRAIL END TREATMENT (INSTALL)	EA	4	
0545	7002		CRASH CUSH ATTEN (MOVE & RESET)	EA	1	
0545	7004		CRASH CUSH ATTEN (REMOVE)	EA	1	
0545	7010		CRASH CUSH ATTEN (INSTL)(R)(N)(TL3)	EA	1	
0550	7017		REMOVE & INSTALL EXISTING GATE	EA	11	
0552	7001		INSTALL FENCE (WF)(TY A)	LF	472	
0552	7002		INSTALL FENCE (WF)(TY B)	LF	829	
0552	7003		INSTALL FENCE (WF)(TY C)	LF	826	
0552	7004		INSTALL FENCE (WF)(TY D)	LF	1,291	
0552	7005		WIRE FENCE (SPECIAL)	LF	830	
0552	7011		WIRE FENCE (REMOVE)	LF	5,277	
0552	7016		INSTALL FENCE (PIPE RAIL)	LF	1,685	
0552	7017		INSTALL FENCE (VINYL RAIL)	LF	1,114	
0560	7000		TEMP MAILBOX	EA	12	
0560	7012		RELOCATE EXISTING MAILBOX	EA	12	

ITEM CODE			DESCRIPTION	UNIT	TOTAL	
ITEM NO	DESC CODE	SP NO			ESTIMATE	FINAL
0610	7100		RELOCATE DECORATIVE ILLUMINARY ASSEMBLY	EA	2	
0618	7015		CONDT (HDPE)(4")	LF	142	
0618	7040		CONDT (PVC)(SCH 40)(4")	LF	649	
0644	7057		IN SM RD SN SUP & AM TY TWT(1)WS(P)	EA	12	
0644	7058		IN SM RD SN SUP & AM TY TWT(1)WS(T)	EA	1	
0644	7068		RELOCATE SM RD SN SUP & AM TY TWT	EA	13	
0644	7111		RELOCATE a "PAINTING PLACE"	EA	1	
0644	7112		RELOCATE a "TRINITY TABERNACLE"	EA	1	
0644	7113		RELOCATE a "CORNERSTONE CHURCH"	EA	1	
0644	7114		RLCT "STUDENT DROP-OFF/PICK-UP STAFF/FACULTY PARKING" SIGN	EA	2	
0658	7011		INSTL DEL ASSM (D-SW)SZ-2(WC)GND (BR)	EA	46	
0658	7017		INSTL DEL ASSM (D-SW)SZ-1(BRF)GF1 (BR)	EA	26	
0658	7072		INSTL OM ASSM (OM-4)(TWT)(WAS)	EA	4	
0662	7051		WK ZN PAV MRK REMOV (REFL) TY II-A-A	EA	257	
0662	7064		WK ZN PAV MRK REMOV (W) 4"(SLD)	LF	5,287	
0662	7095		WK ZN PAV MRK REMOV (Y) 4"(BRK)	LF	606	
0662	7097		WK ZN PAV MRK REMOV (Y) 4"(SLD)	LF	3,298	
0666	7023		REFL PAV MRK TY I (W) 8"(SLD)(090MIL)	LF	3,344	
0666	7029		REFL PAV MRK TY I (W) 12"(SLD)(090MIL)	LF	300	
0666	7035		REFL PAV MRK TY I (W) 24"(SLD)(090MIL)	LF	112	
0666	7041		REFL PAV MRK TY I (W)(ARROW)(090MIL)	EA	37	
0666	7065		REFL PAV MRK TY I (W)(WORD)(090MIL)	EA	21	
0666	7131		REFL PAV MRK TY I (Y) (MED NOSE)(090MIL)	EA	29	
0666	7168		REFL PAV MRK TY II (W) 4" (BRK)	LF	1,887	
0666	7171		REFL PAV MRK TY II (W) 4" (SLD)	LF	15,641	
0666	7184		REFL PAV MRK TY II (W) 24" (SLD)	LF	20	
0666	7208		REFL PAV MRK TY II (Y) 4" (BRK)	LF	7,782	
0666	7210		REFL PAV MRK TY II (Y) 4" (SLD)	LF	1,819	
0666	7220		REFL PAV MRK TY II (Y) (MED NOSE)	LF	30	
0666	7347		PAVEMENT SLER 6"	LF	33,381	
0666	7348		PAVEMENT SLER 8"	LF	3,344	
0666	7350		PAVEMENT SLER 12"	LF	300	
0666	7352		PAVEMENT SLER 24"	LF	112	
0666	7353		PAVEMENT SLER (ARROW)	EA	37	
0666	7354		PAVEMENT SLER (WORD)	EA	21	
0666	7355		PAVEMENT SLER (MED NOSE)	EA	30	
0666	7407		REFL PAV MRK TY I (W)6"(BRK)(090MIL)	LF	15,081	
0666	7410		REFL PAV MRK TY I (W)6"(SLD)(090MIL)	LF	15,462	
0666	7422		REFL PAV MRK TY I (Y)6"(SLD)(090MIL)	LF	2,504	
0666	7008		REFL PAV MRK TY I (W) 6" (DOT)	LF	334	
0672	7002		REFL PAV MRKR TY I-C	EA	357	
0672	7004		REFL PAV MRKR TY II-A-A	EA	124	
0672	7006		REFL PAV MRKR TY II-C-R	EA	754	
0672	7022		REFL PAV MRKR TY II-B-B	EA	20	
0677	7001		ELIM EXT PM & MRKS (4")	LF	250	
0678	7002		PAV SURF PREP FOR MRK (6")	LF	33,381	
0678	7004		PAV SURF PREP FOR MRK (8")	LF	3,344	
0678	7008		PAV SURF PREP FOR MRK (24")	LF	112	
0678	7009		PAV SURF PREP FOR MRK (ARROW)	EA	37	
0678	7016		PAV SURF PREP FOR MRK (WORD)	EA	21	
0678	7024		PAV SURF PREP FOR MRK (MED NOSE)	EA	30	
0678	7033		PAV SURF PREP FOR MRK (RPM)	EA	501	
0685	7005		RELOCT RDSD FLSH BCN AM (SOLAR PWRD)	EA	3	
1002	7013		REMOVE AND RELOCATE EXIST. LANDSCAPE	LS	1	
1002	7029		REMOVE AND RESET ROCK/BOULDER	EA	50	
1004	1004		TREE PROTECTION	EA	1	
5044	7001		HEADWALL (STONE MASONRY)	EA	2	
7014	7001		CURB INLET SEDIMENT PROTECTION	LF	15	
7004	7025		CUT AND PLUG WATER MAIN (6 IN)	EA	18	
7004	7032		GATE VALVE (6 IN)	EA	18	
7004	7063		UTILITY ADJUSTMENTS	LS	1	
7004	7055		REMOVE AND RELOCATE METERS AND BOXES	EA	8	
7019	7001		SUBSURFACE UTIL LOCATE (OUTSIDE RDBED)	EA	5	
7019	7002		SUBSURFACE UTIL LOCATE (INSIDE RDBED)	EA	2	
7033	7001		ADJUSTING WATER VALVE BOX TO GRADE	EA	17	
7049	7064		ADJUST EXIST WATER METER	EA	4	
7049	7102		ADJUST HYDRANT	EA	2	
7049	7103		RELOCATE EXIST. WATER METER AND RELAY EXIST. SERVICE	EA	8	
7049	7015		REMOVE AND REPLACE FIRE HYDRANT	EA	18	
7006	7001		ABAND/FILL EXIST SAN SWR PIPE (8 IN)	LF	5,850	
7006	7076		JAC BOR TUN SAN SWR FM (HDPE)(DR 13.5) (8 IN)	LF	440	
7006	7077		SANITARY SEWER FM (HDPE)(DR 13.5) (8 IN)	LF	5,417	
7040	7033		AIR RELEASE VALVE (COMPLETE)(2 IN)	EA	2	

ITEM CODE			DESCRIPTION	UNIT	TOTAL	
ITEM NO	DESC CODE	SP NO			ESTIMATE	FINAL
0450	7062		RAIL (HANDRAIL)(TY E)	LF	314	
0450	7064		RAIL (HANDRAIL)(TY W)	LF	378	
0462	7007		CONC BOX CULV (5 FT X 3 FT)	LF	48	
0531	7001		CONC SIDEWALK (4")	LF	6,515	
0531	7005		CURB RAMPS (TY I)	LF	14	

⚠ SUMMARY OF PAY ITEMS UPDATED

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

SUMMARY OF QUANTITIES

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

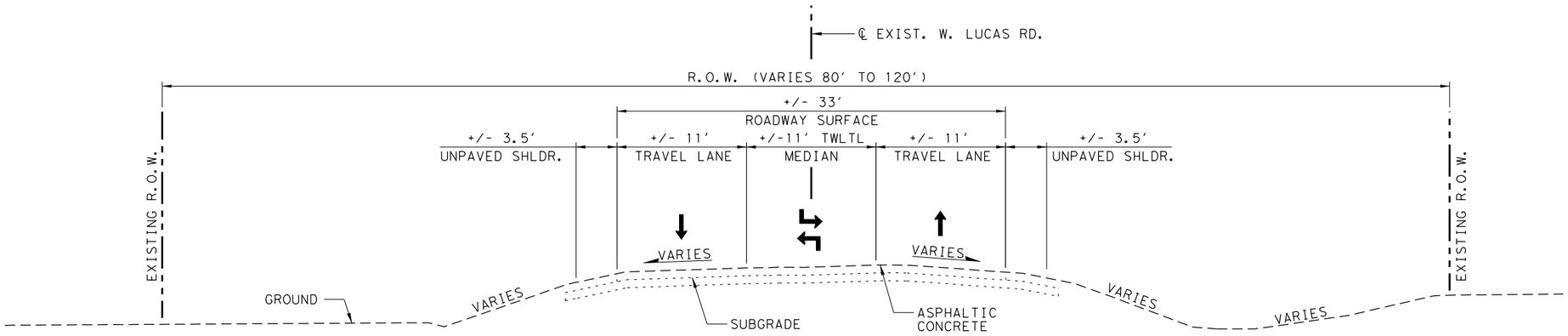
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	5
COUNTY		
COLLIN		

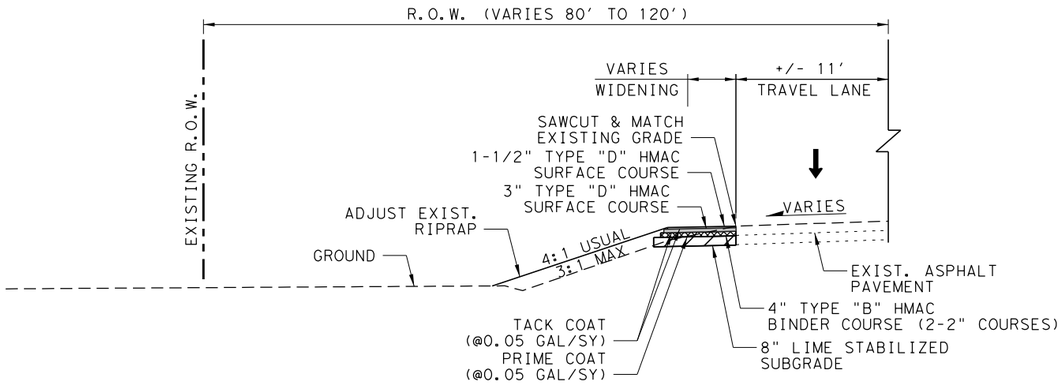
CALL BEFORE YOU DIG
IT'S THE LAW!!! TEXAS811.ORG
811 or 1-800-DIG-TESS
Texas811 Know what's below. Call before you dig.

DATE: 4/27/2026 10:56:49 AM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\1. General\WLucas_SUM_EST_01 REV1.dgn

DESIGN SPEED = 55 MPH
POSTED SPEED = 50 MPH
AADT (2040) = 26,689



EXISTING TYPICAL SECTION
STA. 12+08.14 TO STA. 98+91.80



PROPOSED PARTIAL TYPICAL SECTION
FULL DEPTH ASPHALT WIDENING
STA. 98+91.80 TO 99+36.84

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TYPICAL SECTIONS

SCALE: 1"=10' SHEET 1 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

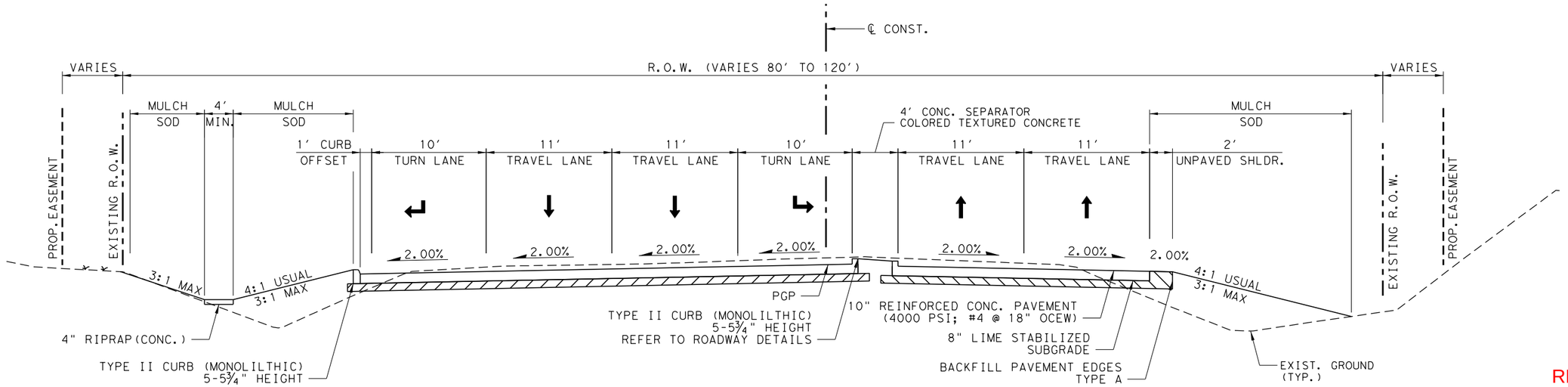
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	6
COUNTY		
COLLIN		

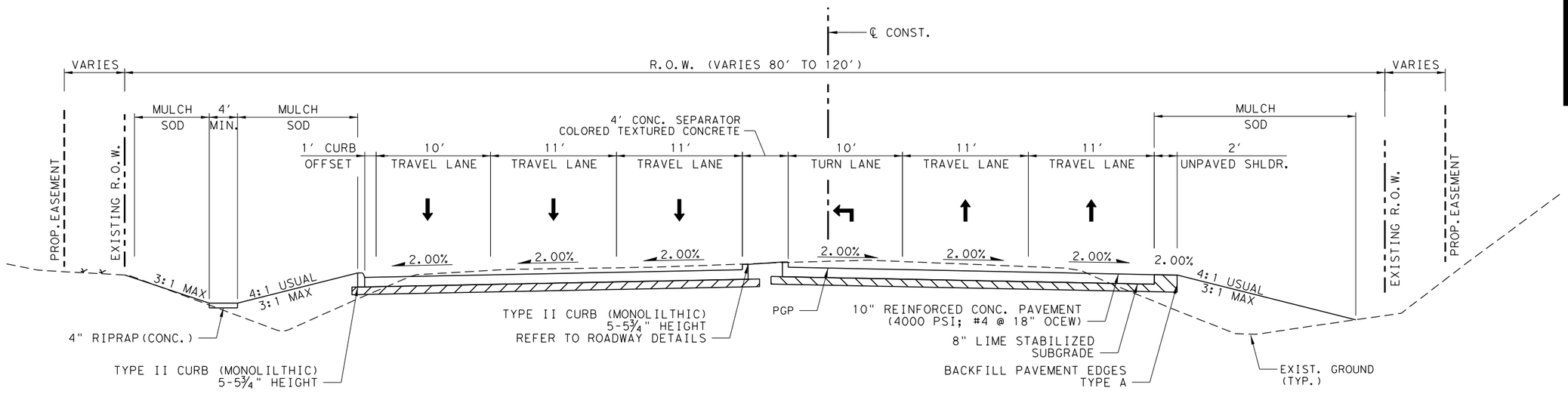
DATE: 4/6/2026 1:55:59 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_TYP_01.dgn

Texas811 Know what's below. Call before you dig.

DESIGN SPEED = 55 MPH
POSTED SPEED = 50 MPH
AADT (2040) = 26,689



PROPOSED TYPICAL SECTION
STA. 12+08.14 TO STA. 13+00.00



PROPOSED TYPICAL SECTION
STA. 13+00.00 TO STA. 15+51.07

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TYPICAL SECTIONS

SCALE: 1"=10' SHEET 2 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

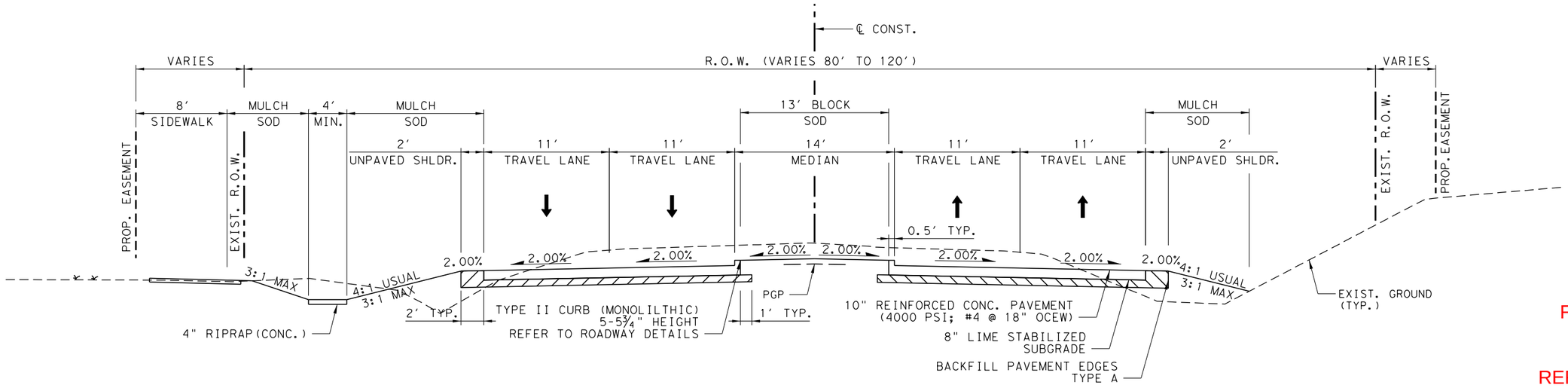
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	7
COUNTY		
COLLIN		

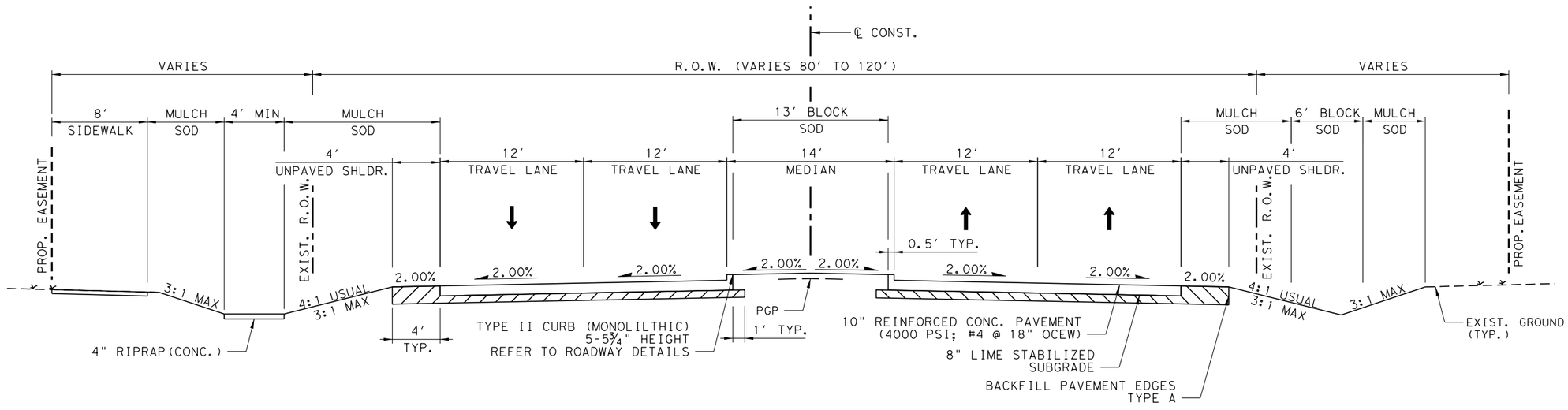
DATE: 4/6/2026 1:56:00 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_TYP_02.dgn

Texas811 Know what's below. Call before you dig.

DESIGN SPEED = 55 MPH
POSTED SPEED = 50 MPH
AADT (2040) = 26,689



PROPOSED TYPICAL SECTION
STA. 16+38.06 TO STA. 33+02.49



PROPOSED TYPICAL SECTION
STA. 38+81.12 TO STA. 54+40.00
STA. 75+75.00 TO STA. 78+92.00
STA. 83+50.00 TO STA. 86+62.16
STA. 89+03.08 TO STA. 90+15.13

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TYPICAL SECTIONS

SCALE: 1"=10' SHEET 3 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

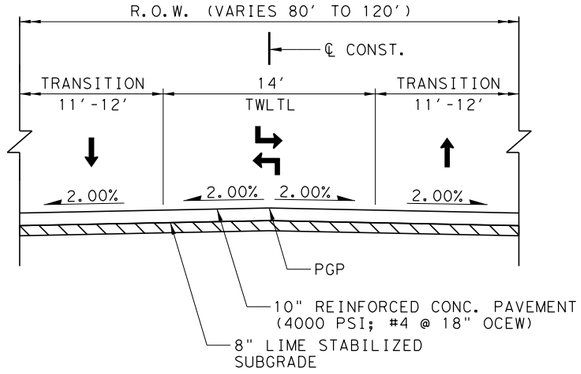
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	8
COUNTY		
COLLIN		

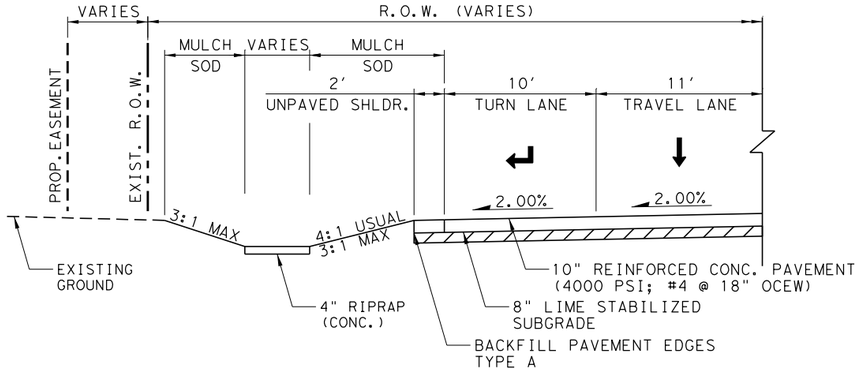
Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:00 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\W.Lucas_TYP_03.dgn

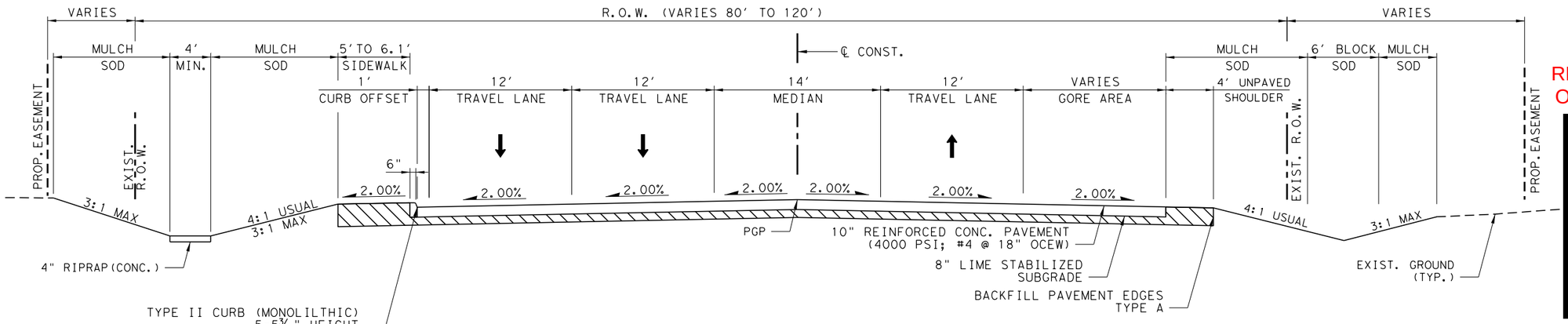
DESIGN SPEED = 55 MPH
POSTED SPEED = 50 MPH
AADT (2040) = 26,689



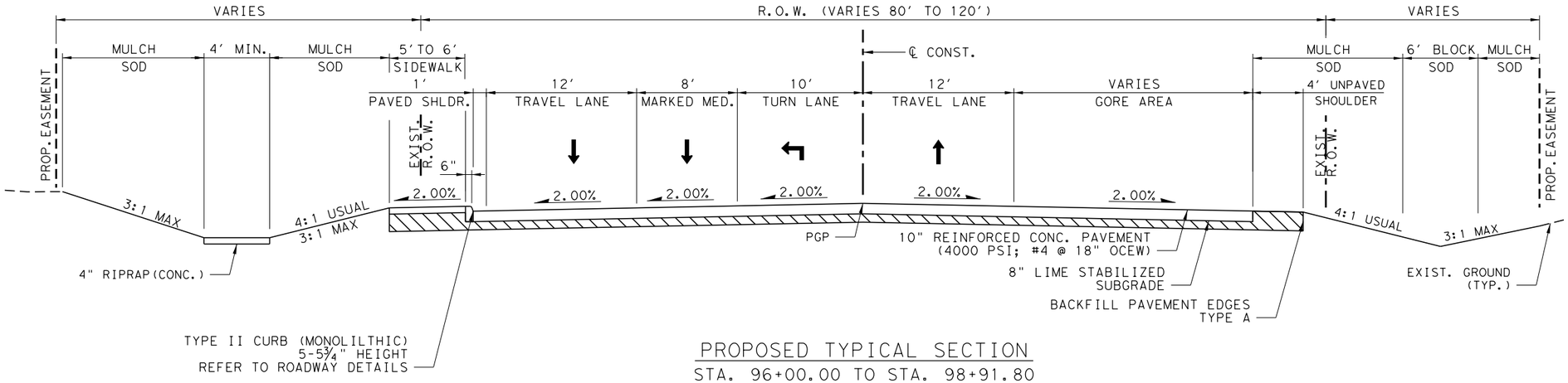
PROPOSED PARTIAL TYPICAL SECTION
STA. 33+02.49 TO STA. 38+81.12



PROPOSED PARTIAL TYPICAL SECTION (WB SHOWN)
STA. 16+38.06 TO STA. 20+44.68 (WB)



PROPOSED TYPICAL SECTION
STA. 92+00.95 TO STA. 95+85.73



PROPOSED TYPICAL SECTION
STA. 96+00.00 TO STA. 98+91.80

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TYPICAL SECTIONS

SCALE: 1"=10' SHEET 4 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

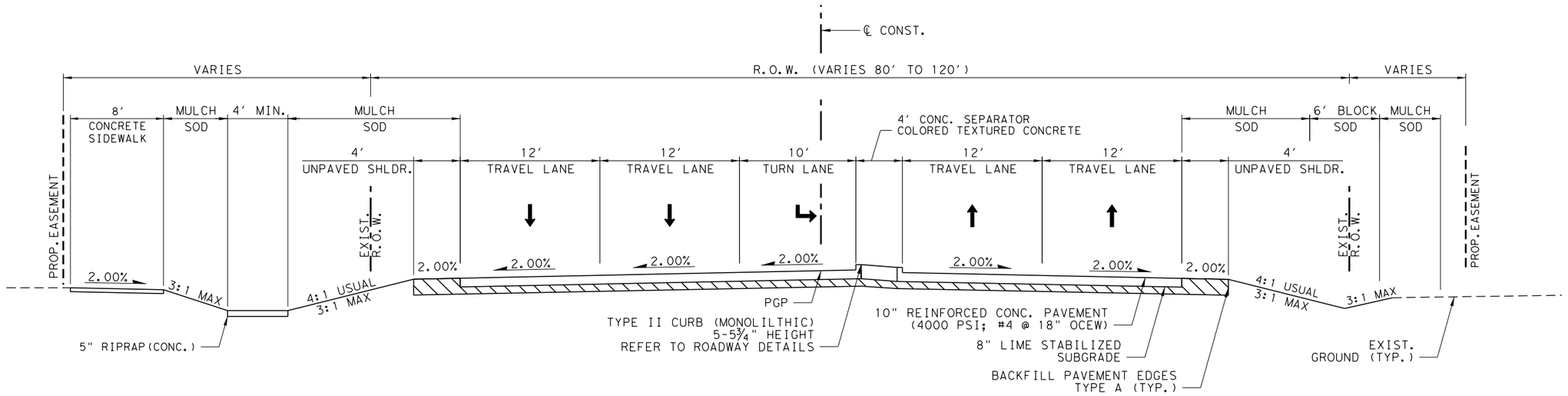
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	9
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

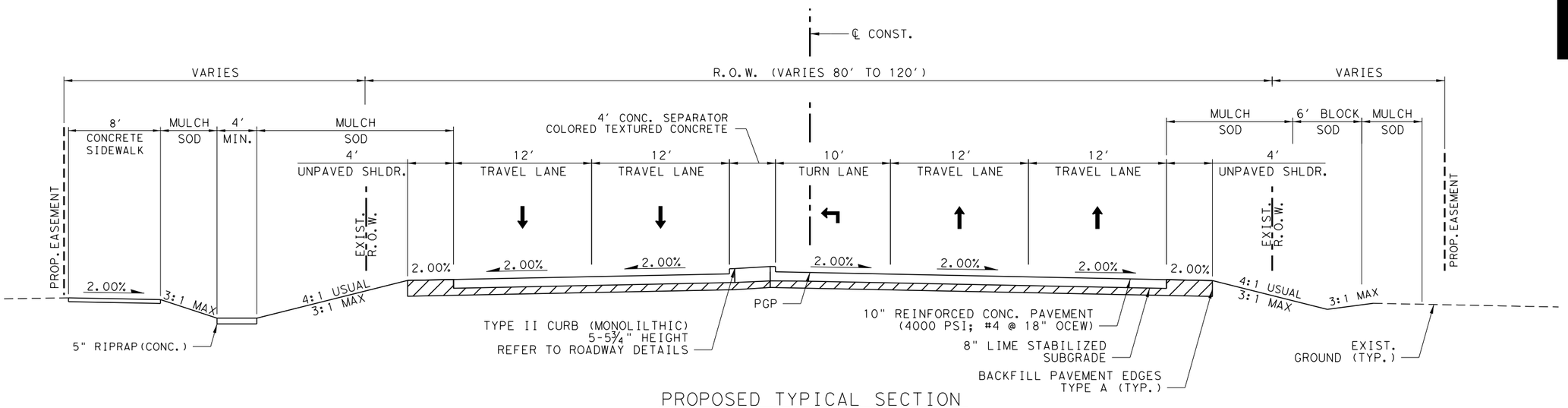
DATE: 4/6/2026 1:56:01 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_TYP_04.dgn

DESIGN SPEED = 55 MPH
POSTED SPEED = 50 MPH
AADT (2040) = 26,689



PROPOSED TYPICAL SECTION

STA. 54+96.00 TO STA. 57+50.00
STA. 62+00.00 TO STA. 63+88.66
STA. 66+85.00 TO STA. 69+25.69
STA. 72+28.00 TO STA. 75+75.00
STA. 79+97.00 TO STA. 83+50.00
STA. 87+78.16 TO STA. 89+03.08



PROPOSED TYPICAL SECTION

STA. 57+50.00 TO STA. 61+07.00
STA. 63+88.66 TO STA. 65+90.00
STA. 69+25.69 TO STA. 71+53.00

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TYPICAL SECTIONS

SCALE: 1"=10' SHEET 5 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	10
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:01 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_TYP_05.dgn

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, SEPTEMBER 2024 EDITION REFERRED TO AS "THE STANDARD SPECIFICATIONS". TXDOT SPECIAL SPECIFICATION 2024 SHALL BE USED FOR THE LANDSCAPE GRATE INLETS.
2. IN THE EVENT AN ITEM IS NOT COVERED WITHIN THESE PLANS AND SPECIFICATIONS, THE 2024 TXDOT STANDARD SPECIFICATIONS SHALL APPLY.
3. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS BEFORE ANY WORK MAY BEGIN. ALL PERMIT FEES SHALL BE CONSIDERED INCIDENTAL TO PAY ITEMS PROVIDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND IN THE CONSTRUCTION PLANS AND/OR THE SPECIAL PROVISIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL NOT BE COMPENSATED FOR ANY WORK NOT AUTHORIZED BY THE ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE UPDATE TO THE ENGINEER AND THE CONSTRUCTION INSPECTOR WITH THE MONTHLY PAY ESTIMATE.
5. THE CONTRACTOR WILL BE PAID ONLY FOR THE WORK WHICH IS COMPLETED IN STRICT CONFORMANCE TO THE PLANS AND CONSTRUCTION SPECIFICATIONS.
6. FINAL PAYMENT TO CONTRACTOR SHALL BE RELEASED AFTER THE ACCEPTANCE OF THE FINAL INSPECTION BY AUTHORIZED PERSONNEL OF THE PUBLIC WORKS DEPARTMENT.
7. PLACE CONSTRUCTION STAKES/STATION MARKINGS AT INTERVALS OF NO MORE THAN 100 FEET OR AS DIRECTED BY THE ENGINEER. PLACE STAKES AND MARKINGS SO AS NOT TO INTERFERE WITH NORMAL CONSTRUCTION OPERATIONS. SUBMIT ALL SHOP DRAWINGS, WORKING DRAWINGS, OR OTHER DOCUMENTS WHICH REQUIRE REVIEW SUFFICIENTLY IN ADVANCE OF SCHEDULED CONSTRUCTION TO ALLOW NO LESS THAN THIRTY (30) CALENDAR DAYS FOR REVIEW AND RESPONSE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONSTRUCTION STAKING BY A TEXAS REGISTERED PROFESSIONAL LAND SURVEYOR. WORK IS NOT PERMITTED OUTSIDE OF THE RIGHT OF WAY OR EASEMENTS WITHOUT PRIOR PERMISSION AND COORDINATION WITH THE CITY.
8. CONSTRUCTION OBSERVATION AND ADDITIONAL MATERIALS TESTING MAY BE PERFORMED BY REPRESENTATIVES OF THE OWNER, ENGINEER, REVIEW AUTHORITIES, AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THESE REPRESENTATIVES AT ALL TIMES.
9. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING THE REQUIRED INSPECTIONS AND ALLOWING FOR THEM IN THEIR SCHEDULE OF OPERATIONS, CONTRACTOR WILL NOT BE ALLOWED ANY ADDITIONAL CONTRACT DAYS OR COMPENSATION AS A RESULT OF THEIR FAILURE TO ADEQUATELY PROVIDE FOR AUTHORIZED INSPECTIONS.
10. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AND THE ENGINEER TWO WORKING DAYS BEFORE STARTING WORK.
11. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AND THE ENGINEER TWO WORKING DAYS IN ADVANCE OF ANY CONCRETE OR ASPHALT PLACEMENT.
12. THE CONTRACTOR MUST FURNISH AT LEAST TWO PHONE NUMBERS WHERE RESPONSIBLE PERSONNEL CAN BE REACHED IN CASE OF EMERGENCY DURING WORKING AND NONWORKING HOURS. IF THERE ARE ANY CHANGES, THE INFORMATION MUST BE UPDATED IMMEDIATELY FOR THE DURATION OF THE PROJECT.
13. IF CULTURAL RESOURCES (ARCHAEOLOGICAL FINDINGS UNEARTHED) ARE LOCATED DURING CONSTRUCTION, WORK SHALL STOP IMMEDIATELY IN THAT AREA. IMMEDIATELY NOTIFY THE ENGINEER.
14. THE ENGINEER/INSPECTOR WILL NOT: SUPERVISE, DIRECT OR HAVE CONTROL OVER THE CONTRACTOR'S WORK; HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION; BE RESPONSIBLE FOR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF CONTRACTOR OR FOR ANY FAILURE OF CONTRACTOR TO COMPLY WITH LAWS, RULES, REGULATIONS, ORDINANCES, CODES OR ORDERS APPLICABLE TO CONTRACTOR FURNISHING AND PERFORMING THE WORK.
15. THE CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR RESETTING OR ESTABLISHING NEW BENCHMARKS AFFECTED BY THE CONSTRUCTION AND SHALL BE CONSIDERED INCIDENTAL TO PAY ITEMS (SUBSIDIARY TO ALL LINE ITEMS).
16. TESTS AND TESTING FREQUENCIES WILL BE GOVERNED BY THE TXDOT GUIDE SCHEDULE OF SAMPLING AND TESTING.
17. ALL SAMPLING AND TESTING LABORATORIES MUST BE APPROVED BY THE CITY PRIOR TO PERFORMING ANY WORK, SUBMIT INSPECTION AND TESTING QUALIFICATIONS A MINIMUM OF TWO WEEKS PRIOR TO BEGINNING RELATED WORK. THE COST OF SAMPLING/TESTING SHALL BE CONSIDERED INCIDENTAL TO THE RELATED PAY ITEM.
18. MANHOLE OR OTHER UTILITY STRUCTURES SHALL BE TESTED SPIRALLY IN EACH SEQUENTIAL QUADRANT FOR EVERY TWO FEET OF BACKFILL. MOISTURE/DENSITY TESTS IN VICINITY OF MANHOLES OR OTHER UTILITY STRUCTURES (FOR EXAMPLE CLEANOUTS, HYDRANTS, JUNCTION BOXES OR VAULTS) SHALL BE PERFORMED A MAXIMUM OF ONE FOOT FROM MANHOLE OR OTHER UTILITY STRUCTURE.
19. DRIVEWAY APPROACHES DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED TO MATCH THE EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE CITY OF LUCAS. DRAINAGE PIPE UNDER DRIVEWAY APPROACHES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED OR REPAIRED TO EQUAL OR BETTER THAN EXISTING CONDITION, AT THE CONTRACTOR'S EXPENSE.
20. THE CONTRACTOR SHALL PROTECT ALL EXISTING FENCES (TO REMAIN). ANY DAMAGES DUE TO CONTRACTOR'S ACTION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE CITY.
21. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THE CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE BUT NOT LIMITED TO TRENCH BACKFILL, SIDE SLOPES, FENCES, IRRIGATION SYSTEMS, DRIVEWAYS, PRIVATE YARDS, LANDSCAPING, SIGNS AND ROADWAYS.
22. THE CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRIVATE PROPERTY WITHOUT A WRITTEN AGREEMENT WITH THE PROPERTY OWNER AND APPROVAL BY CITY. A COPY OF THIS AGREEMENT SHALL BE PROVIDED TO THE CITY. LETTERS OF FINAL APPROVAL AND RELEASE FROM THE AFFECTED PROPERTY OWNER(S) MUST BE SUBMITTED TO THE CITY BEFORE FINAL PAYMENT WILL BE AUTHORIZED ON THIS PROJECT.
23. ALL IRRIGATION SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE CUT AND CAPPED AT THE RIGHT-OF-WAY OR DESIGNATED EASEMENT.

GENERAL NOTES CONTINUED

24. NO TIME EXTENSIONS, ADDITIONAL PAYMENT, OR DELAYS WILL BE GRANTED AS A RESULT OF CONTRACTOR TAKING DIRECTION FROM PROPERTY OWNERS.
25. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS, DRIVEWAYS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION AT ALL TIMES AND SHALL BE CONSIDERED INCIDENTAL TO THE RELATED PAY ITEMS.
26. MAIL BOXES WILL BE MOVED AND RESET AS DIRECTED IN THE PLANS OR BY THE ENGINEER. ALL MAIL BOXES TO BE REMOVED SHALL BE TEMPORARILY LOCATED AS TO NOT INTERRUPT MAIL SERVICE AND RESET AS SOON AS ALLOWED BY CONSTRUCTION ACTIVITIES. ALL MAIL BOXES DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITH MAILBOXES OF EQUAL OR BETTER QUALITY, AND OF AN IDENTICAL STYLE TO THOSE BEING REPLACED AT CONTRACTORS EXPENSE AND SHALL BE CONSIDERED INCIDENTAL TO PAY ITEMS.
27. ADJUSTMENT OF UNPAVED DRIVEWAYS BEHIND PROPERTY LINE AND RESTORATION OF THE SURFACE TO EQUAL OR BETTER THAN THE ORIGINAL IS INCIDENTAL WORK ON THIS PROJECT. CONTRACTOR MUST COORDINATE WITH THE ENGINEER AND PROPERTY OWNER PRIOR TO ACCESSING OR WORKING ON PRIVATE PROPERTY. HARMONIZATION IS INCIDENTAL TO THE RELATED WORK AND SHALL BE CONSIDERED INCIDENTAL TO PAY ITEMS.
28. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING FENCES AND GATES WITH THE ENGINEER AND THE PROPERTY OWNER PRIOR TO THE START OF THE WORK.
29. CONTRACTOR SHALL USE CLASS B BEDDING WITH COMPACTED GRANULAR MATERIAL AT A DEPTH OF HALF THE PIPE DIAMETER IN COMPLIANCE WITH TXDOT ITEM 464 FOR ALL ROUND PIPE CULVERTS.
30. CONTRACTOR SHALL USE COMPACTED CLASS C BEDDING ON COMPACTED SUBGRADE TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698, WITHIN 0 TO +4% OF OPTIMUM MOISTURE CONTENT FOR ALL BOX CULVERTS.

CONCRETE PAVEMENT

1. ALL CONCRETE SHALL BE IN COMPLIANCE WITH THE SPECIFIED CLASSES OF CONCRETE PER TXDOT SPECIFICATIONS.
2. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF TXDOT ITEM 360, CONCRETE PAVEMENT.
3. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE COMPLETE CONCRETE MIX (BATCH) DESIGN AT THE PRE-CONSTRUCTION CONFERENCE AND/OR AT LEAST TEN WORKING DAYS PRIOR TO THE START OF ANY CONCRETE PLACING OPERATIONS. VOLUMETRIC CONCRETE IS NOT APPROVED FOR CONCRETE PAVEMENT ON THIS PROJECT.
4. CONTRACTOR SHALL SUBMIT PAVING CONSTRUCTION PLAN AS DESCRIBED IN TXDOT ITEM 360, CONCRETE PAVEMENT.
5. CONTRACTOR SHALL EMPLOY A CERTIFIED TESTING LABORATORY TO PERFORM DENSITY TESTING ACCORDANCE WITH TXDOT PROCEDURE TEX-115-E/ASTM D6938 AND SHALL BE CONSIDERED INCIDENTAL TO PAY ITEMS.
6. CONTRACTOR SHALL EMPLOY A CERTIFIED TESTING LABORATORY FOR CONCRETE SAMPLING AND TESTING IN ACCORDANCE WITH ALL CURRENT ASTM STANDARDS. COST OF CONCRETE TESTING SHALL BE INCLUDED IN CONCRETE POUR OPERATIONS AT NO ADDITIONAL COST. ALL TEST RESULT SHALL BE SUBMITTED TO THE ENGINEER. TEST LOCATIONS SHALL BE MARKED IN THE PLANS AND SUBMITTED WITH THE RESULTS. CONCRETE SHALL BE SAMPLED AT POINT OF DISCHARGE AND ANY DEVIATIONS INDICATED AS SUCH ON REPORT. CONCRETE SHALL HAVE AIR ENTRAINMENT OF 3-6%.
7. WHEN AIR TEMPERATURE IS BETWEEN 85 DEG. F (30 DEG. C) AND 90 DEG F (32 DEG. C), REDUCE MIXING AND DELIVERY TIME FROM 1 1/2 HOURS TO 75 MINUTES, AND WHEN AIR TEMPERATURE IS ABOVE 90 DEG. F (32 DEG. C), REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES. NO ADMIXTUR SHALL BE PERMITTED IN THE CONCRETE MIX WITHOUT WRITTEN APPROVAL BY THE ENGINEER. WATER WITHELD DURING THE BATCHING MAY BE ADDED AT THE JOB SITE UNDER THE SUPERVISION OF THE ENGINEER. WHEN THIS WATER IS ADDED, IT CANNOT EXCEED THE APPROVED MIX DESIGN WATER-TO-CEMENTITIOUS MATERIAL RATIO.
8. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
9. THE USE OF WOOD FORMS FOR PAVEMENT CONSTRUCTION WILL BE PERMITTED ONLY FOR LEAVE-OUTS, SIDEWALKS, DRIVEWAYS, BARRIER FREE RAMPS AND INTERSECTIONS. WOOD FORMS MAY BE PERMITTED FOR OTHER USES, BUT ONLY ON A CASE-BY-CASE BASIS, AND MUST BE EXPLICITLY AUTHORIZED BY THE ENGINEER.
10. THE CONTRACTOR SHALL NOT COMMENCE WORK ON THE ROADWAY BEFORE 7:00 AM AND SHALL ARRANGE HIS WORK SO THAT NO MACHINERY OR EQUIPMENT SHALL BE CLOSER THAN 20 FEET TO THE TRAVELED ROADWAY AFTER SUNSET EXCEPT WHEN APPROVED BY THE ENGINEER. UNLESS OTHERWISE APPROVED BY THE CITY, WORKING HOURS SHALL BE 7AM-6PM MON.-SAT. NO WORK SHALL BE DONE ON CITY HOLIDAYS OR SUNDAYS WITHOUT SPECIAL WRITTEN PERMISSION FROM THE CITY. OVERTIME INSPECTION SHALL BE PAID BY THE CONTRACTOR AT THE ESTABLISHED RATE WITH THE CITY. OVERTIME INSPECTION INCLUDES BUT IS NOT LIMITED TO EMERGENCY INSPECTIONS, APPROVED HOLIDAY WORK, AND WEEKEND WORK.
11. PROVIDE A MINIMUM OF 9% HYDRATED LIME BY DRY SOIL WEIGHT TO THE SPECIFIED DEPTH IN ACCORDANCE WITH TXDOT 128E "LIME TREATMENT". ACTUAL AMOUNT OF LIME TO BE DETERMINED BY LIME SERIES.
12. USE OF MULTIPLE PIECE TIEBARS WILL BE REQUIRED. PROVIDE CHAIRS FOR MULTIPLE PIECE TIEBARS, THREADED CONNECTORS OR OTHER ADEQUATE DEVICES, USED IN CONCRETE PAVING, OR TIE THEM TO THE PAVEMENT REINFORCING STEEL. IF APPROVED BY THE ENGINEER FOR SPECIFIC AREAS, IN LIEU OF MULTIPLE PIECE TIEBARS, DRILL HOLES INTO THE PAVEMENT AND GROUT STRAIGHT TIEBARS IN PLACE WITH EPOXY. USE A NON-IMPACT, ROTARY CORE DRILL TO PREVENT DAMAGE TO THE PAVEMENT UNLESS OTHERWISE DIRECTED. CLEAN THE DRILL HOLES AND THEN COMPLETELY FILL WITH EPOXY BEFORE INSERTING THE TIEBAR. DO NOT BEND THE TIEBARS OR INSERT THEM INTO PLASTIC CONCRETE WITHOUT THE APPROVAL OF THE ENGINEER.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
PERMIT OR BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

GENERAL NOTES

SHEET 1 OF 3

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	11
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:02 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\1. General\WLucas_GEN_NOTES_01.dgn

CONCRETE PAVEMENT CONTINUED

13. AFTER THE EXISTING PAVEMENT IS REMOVED AND PRIOR TO PLACING FILL, THE EXPOSED SUBGRADE IN AREAS TO RECEIVE FILL SHALL BE STRIPPED AND PROOFROLLED. ALL CUT AREAS AFTER CUT TO FINAL GRADE SHALL ALSO BE PROOFROLLED. PROOFROLLING CAN BE ACCOMPLISHED USING A HEAVY (25 TON OR GREATER TOTAL WEIGHT) PNEUMATIC TIRED ROLLER MAKING SEVERAL PASSES OVER THE AREAS. THE PROOFROLLING OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF GEOTECHNICAL ENGINEER. WHERE SOFT OR COMPRESSIBLE ZONES ARE ENCOUNTERED, THESE AREAS SHALL BE REMOVED TO A FIRM SUBGRADE AS DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY RESULTING HEAVING, PUMPING, OR RUTTING AREAS SHALL BE BACKFILLED AT 98%, 0 TO +3 D698 TO FINISHED SUBGRADE IN 8 INCH LOOSE LIFTS. FG = 98% -1 TO +2%

14. TEST PITS AND DENSITY TESTING OF THE EXISTING FILL SOILS SHALL BE PERFORMED TO VERIFY A COMPACTION LEVEL OF AT LEAST 95% OF STANDARD PROCTOR DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698. IF COMPACTION LEVELS ARE LESS THAN 95% OF STANDARD PROCTOR DENSITY , OVER-EXCAVATION OF THE EXISTING FILL SOILS WILL NEED TO BE PERFORMED TO A MINIMUM DEPTH OF 4 FEET BELOW THE BOTTOM OF PAVEMENT, AND THEN REPLACED IN 8 INCHES LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698, WITHIN 0 TO +4% OF OPTIMUM MOISTURE CONTENT.

15. FILL MATERIALS SHALL BE PLACED IN 8 INCHES LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698, WITHIN 0 TO +4% OF OPTIMUM MOISTURE CONTENT.

16. LIME TREATED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% OF STANDARD PROCTOR DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698, WITHIN -2 TO +4% OF OPTIMUM CONTENT AND COMPLY WITH TXDOT ITEM 247, TYPE D, GRADE 1.

17. CONSTRUCTION JOINTS SHALL BE PROVIDED PER TXDOT STANDARDS (CRCP(1)-20 AND JS-14) AS REQUIRED FOR CONSTRUCTION PHASING. JOINT LOCATION SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER.

18. PLACE A TRANSVERSE CONSTRUCTION JOINT AT THE END OF EACH DAYS POUR OR AS DIRECTED BY THE ENGINEER AND AT ALL CONNECTIONS TO EXISTING CONCRETE PAVEMENT.

19. THE COLORED/TEXTURED CONCRETE SECTIONS SHALL BE STAINED WITH SIKA-SCOFIELD LITHOCHROME CHEMSTAIN CS-14 DARK WALNUT OR EQUIVALENT AS APPROVED BY THE CITY. ALL CONCRETE SURFACE PREPARATION SHALL BE SUBSIDIARY TO THE LINE ITEM.

UTILITIES

1. CONTRACTOR SHALL EMPLOY A CERTIFIED TESTING SUBCONSULTANT TO PERFORM PRESSURE TESTING REQUIRED ON ALL WATERWORKS AND SHALL BE CONSIDERED INCIDENTAL TO PAY ITEMS. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.

2. EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS AND DEPTHS BASED ON BEST AVAILABLE RECORDS AND LIMITED FIELD DATA. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGES TO UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

3. CONTRACTOR SHALL CONTACT GAS LINE PROVIDERS AND NORTH TEXAS MUNICIPAL WATER DISTRICT (NTMWD) 48 HOURS PRIOR TO WORKING WITHIN THEIR EASEMENTS OR IN THE VICINITY OF THEIR FACILITIES.

4. CALL 1-800-DIG-TESS (1-800-344-8377) AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, SO THAT THE LOCATION OF UTILITIES CAN BE MARKED. IF NECESSARY, TEST DITCHES SHALL BE DUG TO VERIFY/DETERMINE ACTUAL FIELD LOCATIONS AND CONDITIONS. LOCATION OF CITY UTILITIES TO BE PROVIDED BY THE CITY OF LUCAS.

5. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN. THIS DOCUMENT SHALL BE SUBMITTED TO THE CITY OF LUCAS AT THE PRE-CONSTRUCTION CONFERENCE OR PRIOR TO THE START OF CONSTRUCTION.

6. PROVIDE THRUST BLOCK FOR ANCHOR TEES, BENDS AND PLUGGED, VALVED OR CAPPED ENDS OF LINES OF WATERMAINS AS PER NCTCOG STANDARD DRAWINGS.

SIGNING & PAVEMENT MARKINGS

1. ALL PAVEMENT MARKINGS, SIGN MATERIALS, PCMS, AND CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) UNLESS NOTED OTHERWISE.

2. SIGN LOCATIONS SHOWN ON THE PLANS ARE DIAGRAMMATIC. SIGNS SHALL BE PLACED IN CONFORMANCE WITH THE LATEST EDITION OF TMUTCD.

3. PAYMENT FOR EACH SIGN SHALL INCLUDE ALL MOUNTING HARDWARE,THE SIGN POLE AND WEDGE BASE SYSTEM. (TXDOT SMD (TWT)-08)(INCLUDING CONCRETE).

4. REFLECTORIZED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, PER TXDOT STANDARD SPECIFICATIONS, ITEM 666. RAISED PAVEMENT MARKERS SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS, ITEM 672.

5. ALL EXISTING SIGNS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE PROTECTED FOR REINSTALLATION BY THE CONTRACTOR. ALL EXISTING SIGNS PERMANENTLY REMOVED SHALL BE SALVAGED AND PROVIDED TO THE CITY. ANY DAMAGE CAUSED DURING CONSTRUCTION OR STORAGE TO THESE SIGNS SHALL BE REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

6. COORDINATE WITH CITY OF LUCAS PUBLIC WORKS DEPARTMENT PRIOR TO PLACEMENT OF BLUE RPM's.

EROSION CONTROL

1. INSTALL SW3P ELEMENTS AS NEEDED BEFORE STARTING CONSTRUCTION IN EACH PHASE AND MAINTAIN AS SHOWN IN PLANS. ADDITIONAL SW3P ELEMENTS MAY BE NEEDED DEPENDING ON CONTRACTORS MEANS AND METHODS AT NO ADDITIONAL COST TO THE CITY.

2. CONTRACTOR TO MAINTAIN AN UP TO DATE EROSION CONTROL PLAN. THE EROSION CONTROL PLAN SHALL BE ON-SITE AND MADE AVAILABLE TO THE ENGINEER, INSPECTOR, CITY REPRESENTATIVE, AND GOVERNMENT AGENTS AT ALL TIMES.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

GENERAL NOTES

SHEET 2 OF 3

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	12
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:03 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\1. General\WLucas_GEN_NOTES_02.dgn

BID ITEM NOTES:

1. ITEM CODE 0672-XXX - BLUE FIRE HYDRANT RPM'S WILL BE PAID FOR UNDER REFL PAV MRKR TY II-B-B.

2. ITEM CODE 07526005 - TREE REMOVAL (6"-12" DIA) HAS BEEN REVISED TO REFLECT THE RANGE OF TREE SIZE TO BE REMOVED, PAVEMENT WILL START AT 6 IN AND NOT 4 IN.

3. ITEM CODE 01007001 - ALL TREES UNDER 6 IN DIAMETER REMOVED WILL BE PAID UNDER PREP ROW.

4. ITEM CODE 04326045 - RIPRAP (MOW STRIP)(4") SHALL BE ASPHALTIC PAVEMENT (HMA TY C).

5. ITEM CODE 01607003 - FURNISHING AND PLACING TOPSOIL (4") SHALL BE PLACED UNDER ITEM 01627002 BLOCK SODDING.

6. ITEM CODE 01667001 - FERTILIZER SHALL BE USED FOR ITEM 01627002 BLOCK SODDING.

7. ITEM CODE 04277002 - THE SIKA-SCOFIELD LITHOCHROME CHEMSTAIN CS-14 DARK WALNUT OR EQUIVALENT, AS APPROVED BY THE OWNER WILL BE PAID FOR UNDER CONCRETE PAINT FINISH (STAIN).

8. ITEM CODE 05277002 - TRAFFIC SEPARATOR TEXTURED CONCRETE WILL BE PAID FOR UNDER COLORED TEXTURED CONCRETE (5").

9. ITEM CODE 03606010 - TEXTURED CONCRETE PAVING WILL BE PAID FOR UNDER COLORED TEXTURED CONCRETE (10").

10. ITEM CODE 01007001 - ANY REMOVALS NOT SPECIFICALLY LISTED WILL BE PAID FOR UNDER PREP ROW.

11. ITEM CODE 05307017 - HES CONCRETE SHALL BE USED ONLY AS DIRECTED BY THE ENGINEER.

12. 464-7026: USE OF ALTERNATIVE MATERIALS:

    A. THE CONTRACTOR MAY PROPOSE THE USE OF ALTERNATIVE PIPE MATERIALS IN LIEU OF REINFORCED CONCRETE PIPE (RCP), SUBJECT TO THE FOLLOWING CONDITIONS:

    B. ALTERNATIVE PIPE MATERIALS MAY INCLUDE, BUT ARE NOT LIMITED TO: CORRUGATED HIGH-DENSITY POLYETHYLENE (HDPE), POLYPROPYLENE (PP).

    C. ALL ALTERNATIVE MATERIALS MUST MEET OR EXCEED THE HYDRAULIC, STRUCTURAL, AND DURABILITY PERFORMANCE REQUIREMENTS OF THE SPECIFIED RCP, AS DEMONSTRATED THROUGH SUBMITTALS AND DESIGN CALCULATIONS.

    D. PROPOSED MATERIALS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO PROCUREMENT AND INSTALLATION.

    E. ALTERNATIVE MATERIALS SHALL COMPLY WITH APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS, TXDOT STANDARD SPECIFICATIONS (OR RELEVANT GOVERNING AGENCY), AND ANY SPECIAL PROVISIONS REFERENCED IN THIS CONTRACT.

    F. THE USE OF ALTERNATIVE MATERIALS SHALL NOT RESULT IN ADDITIONAL COST TO THE OWNER, NOR SHALL IT CONSTITUTE A BASIS FOR CLAIM FOR TIME OR COMPENSATION.

    G. INSTALLATION METHODS AND BEDDING REQUIREMENTS FOR ALTERNATIVE MATERIALS SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE ENGINEER.

    H. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY PROPOSED ALTERNATIVE MATERIAL THAT, IN THEIR OPINION, DOES NOT PROVIDE EQUIVALENT PERFORMANCE, LONGEVITY, OR COMPATIBILITY WITH THE PROJECT DESIGN INTENT.

13. 531-7001: UNLESS OTHERWISE SHOWN ON THE PLANS OR SPECIFICALLY APPROVED IN WRITING:

    A. THE CROSS SLOPE OF SIDEWALK SHALL NOT EXCEED 2.0%.

    B. RUNNING SLOPE: THE RUNNING SLOPE OF SIDEWALKS SHALL NOT EXCEED 5.0% (1:20) UNLESS THE SIDEWALK IS CONSTRUCTED AS A COMPLIANT RAMP WITH PROPER LANDINGS AND HANDRAILS AS REQUIRED.

    C. CONTRACTION JOINT SPACING SHALL BE PROVIDED AT AN INTERVAL EQUAL TO THE SIDEWALK WIDTH. EXPANSION JOINTS SHALL BE PROVIDED AT 40FT SPACING.

    D. CONTRACTOR SHALL VERIFY ALL SLOPES IN THE FIELD DURING AND AFTER CONSTRUCTION TO ENSURE COMPLIANCE. THE ENGINEER RESERVES THE RIGHT TO REJECT OR REQUIRE CORRECTIVE ACTION FOR ANY NONCOMPLIANT WORK.

14. 531-7004: DETECTABLE WARNING SURFACES AS REQUIRED FOR CURB RAMPS WILL BE SUBSIDIARY TO THIS BID ITEM. CONTRACTOR TO SOURCE DETECTABLE WARNING SURFACES FROM AN APPROVED SOURCE FOUND ON THE TXDOT MATERIAL PRODUCER'S LIST.

15. 360-7074: PROVIDE CURBS MONOLITHICALLY CONSTRUCTED WITH THE CONCRETE PAVEMENT. IF CONTINUOUS MONOLITHIC CURB HAS TO BE TEMPORARILY OMITTED FOR ANY REASON, PROVIDE DOWELLED CURBS IN THE PROPOSED AREAS, AS DETAILED IN THE PLANS, AND APPLY AN APPROVED EPOXY RESIN TO THE PAVEMENT TO RECEIVE THE CURB AS DIRECTED. THIS WORK AND MATERIALS WILL NOT BE PAID FOR DIRECTLY, BUT IS CONSIDERED SUBSIDIARY TO THIS ITEM.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

GENERAL NOTES

SHEET 3 OF 3

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	13
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:03 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\1. General\WLucas_GEN_NOTES_03.dgn

TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES

1. ONE LANE IN EACH DIRECTION SHALL REMAIN OPEN AT ALL TIMES UNLESS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER.
2. THE ADVISORY SPEED LIMIT ESTABLISHED WITHIN WORK ZONE TRAVEL WAYS IS 40 M.P.H. REDUCED SPEED AND SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH THE TXDOT STANDARDS.
3. A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE USED UNDER THE FOLLOWING CONDITIONS:

   CONDITION 1: TWO WEEKS PRIOR TO CONSTRUCTION, INSTALL TWO PCMS IN ADVANCE OF THE PROJECT, ONE ON EACH END. PRECISE LOCATIONS OF PCMS SHALL BE DIRECTED BY THE ENGINEER.

   CONDITION 2: DURING CONSTRUCTION, REFER TO TRAFFIC CONTROL PLAN SEQUENCE OF WORK.
4. ANY DROP-OFF CONDITION REMAINING IN THE WORK ZONE GREATER THAN 6 IN AND WITHIN 10 FT FROM THE TRAVEL LANE, ANY TIME ACTIVE CONSTRUCTION CEASES, SHALL BE BACK FILLED AT A 3:1 SLOPE OR FLATTER, OR COVERED AND SECURED BY STEEL PLATE.
5. ANY CHANGES TO TRAFFIC CONTROL PLANS REQUIRE PRIOR APPROVAL FROM THE ENGINEER.
6. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED.
7. IF CONSTRUCTION ACTIVITIES OR WORK ZONES WILL INTERRUPT USPS MAIL SERVICE ACCESS, CONTRACTOR SHALL PROVIDE TEMPORARY MAIL DELIVERY LOCATIONS OUTSIDE OF THE WORK ZONE. TEMPORARY MAIL BOXES AND LOCATIONS SHALL BE APPROVED BY THE LOCAL POST MASTER AND COORDINATED WITH PROPERTY OWNERS PRIOR TO THE DELIVERY ACCESS INTERRUPTION.
8. THE CONTRACTOR SHALL MAINTAIN TRASH COLLECTION SERVICE ACCESSIBILITY OTHERWISE CONTRACTOR WILL HAVE TO COLLECT AND REMOVE TRASH ON NORMALLY SCHEDULED DAYS.
9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES ALONG WEST LUCAS ROAD AT ALL TIMES. UNLESS APPROVED BY THE ENGINEER.
10. ALL TEMPORARY PAVEMENT MARKINGS REQUIRED DURING CONSTRUCTION THAT MAY CONFLICT WITH A FUTURE PHASE OR FINAL MARKING SHALL BE OF THE REMOVABLE TYPE.
11. EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE TRAFFIC CONTROL PLAN OR TEMPORARY MARKINGS SHALL BE REMOVED. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WITH METHOD APPROVED BY THE ENGINEER.
12. THE CONTRACTOR SHALL MAINTAIN ADEQUATE WIDTH AND ROADWAY STRUCTURE FOR EMERGENCY VEHICLE USE WITHIN THE LIMITS OF THE PROJECT.
13. DEPENDING ON CONTRACTORS MEANS & METHODS, THE CONTRACTOR MAY BE REQUIRED TO FURNISH ADDITIONAL BARRICADES, SIGNS, AND WARNING DEVICES TO MAINTAIN TRAFFIC AND PROMOTE MOTORIST SAFETY AT NO ADDITIONAL COST TO THE CITY.
14. CONTRACTOR TO MAINTAIN AN UP TO DATE TRAFFIC CONTROL PLAN. THE TRAFFIC CONTROL PLAN SHALL BE ON-SITE AND MADE AVAILABLE TO THE ENGINEER, INSPECTOR, CITY REPRESENTATIVE, AND GOVERNMENT AGENTS AT ALL TIMES. FAILURE TO MAINTAIN AN UP-TO-DATE TCP WILL RESULT IN A WORK STOPPAGE.
15. REFER TO THE BARRICADE & CONSTRUCTION STANDARDS, WORK ZONE STANDARDS, TCP STANDARDS, AND THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) FOR DETAILS REGARDING TRAFFIC CONTROL DEVICES USED IN CONSTRUCTION.
16. THE PROPOSED STAGING AND PHASING OF CONSTRUCTION IS PROVIDED AS GUIDANCE. THE CONTRACTOR MAY DEVELOP AN ALTERNATIVE APPROACH AND LIMITS OF PHASING AS DEEMED NECESSARY AND MORE CONDUCIVE TO THE OPERATION. ANY MODIFICATION OR CHANGE SHALL REQUIRE APPROVAL OF THE ENGINEER PRIOR TO IMPLEMENTATION AND INSTALLATION, AND BE SIGNED & SEALED BY A PROFESSIONAL ENGINEER AT NO ADDITIONAL COST TO CITY. CONTRACTOR SHOULD ADHERE TO TXDOT STANDARDS BC(1)-21 THROUGH BC(12)-21 FOR SIGN DETAILS DIMENSIONS AND PLACEMENT AT ALL TIMES.
17. STAGE ALL TRAFFIC CONTROL DEVICES AND SAFETY BARRIERS PRIOR TO SHIFTING TRAFFIC AND BEGINNING PHASED CONSTRUCTION.
18. TRAFFIC SHIFTS AND PHASE CHANGES SHALL NOT COMMMENCE UNTIL THE ENGINEER OR DESIGNATED REPRESENTATIVE IS PRESENT AND HAS VERIFIED AND APPROVED ALL NECESSARY DEVICES ARE PRESENT AND STAGED PROPERLY.
19. INSTALL ALL TEMPORARY BARRICADES AND CHANNELIZING DEVICES FOR EACH PHASE PRIOR TO STARTING WORK FOR THAT PHASE.
20. COVER OR REMOVE SIGNS THAT ARE IN CONFLICT WITH THE CURRENT STAGE OF CONSTRUCTION.
21. MAINTAIN STREET NAME SIGNS IN PLACE FOR THE DURATION OF CONSTRUCTION OR UNTIL THE SIGNS ARE REPLACED OR RELOCATED.
22. LIMIT TRAFFIC DISRUPTIONS DURING CONSTRUCTION OF INTERSECTIONS. KEEP INTERSECTIONS OPEN AS LONG AS PRACTICAL AND RE-OPEN THEM AS SOON AS PRACTICAL.
23. CONSTRUCT DRIVEWAYS AND INTERSECTIONS AS SHOWN IN THE PLANS OR AS APPROVED BY THE ENGINEER.
24. PROVIDE AND MAINTAIN ALL-WEATHER ACCESS TO ALL PROPERTY AT ALL TIMES. MATERIALS, MAINTENANCE AND LABOR FOR TEMPORARY ACCESS IS SUBSIDIARY.
25. CONTRACTOR SHALL REPLACE/REPAIR ALL DAMAGED PAVEMENT MARKINGS WITH TEMPORARY MARKING OR RAISED PAVEMENT MARKERS AT THE END OF EACH WORKING DAY.
26. SIGNS SHALL NOT BE MOUNTED ON BARRICADES OR DRUMS BUT SHALL BE MOUNTED ON SEPARATE SUPPORTS.
27. FIELD CONDITION MAY DICTATE ADJUSTMENT OF SIGN LOCATION. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO RELOCATION OF ANY SIGN.
28. WHEN CONSTRUCTION WORK IS COMPLETED AND THE FACILITY IS READY TO BE OPENED TO TRAFFIC, CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER PRIOR TO ERECTING PERMANENT SPEED LIMIT SIGNS.
29. AT THE END OF THE PROJECT CONSTRUCTION WORK, REMOVE ANY REMAINING TCP DEVICES AND TEMPORARY SIGNS AND INSTALL PERMANENT SIGNING.
30. PERMANENT PAVEMENT MARKINGS SHOULD BE PLACED IN PHASES AS DIRECTED BY ENGINEER. REFER TO SEQUENCE OF WORK SHEET FOR PERMANENT MARKING PHASING.
31. ALL CONSTRUCTION TRAFFIC ENTERING/EXITING THE JOB SITE MUST DO SO IN DEDICATED CONSTRUCTION ENTRANCES/EXITS.
32. ANY CONSTRUCTION ENTRANCE AND EXIT LOCATIONS ADDED DUE TO CONTRACTORS MEANS AND METHODS SHALL BE AT NO ADDITIONAL COST TO THE CITY WITH PRIOR APPROVAL.
33. COORDINATE WITH CITY OF LUCAS PUBLIC WORKS DEPARTMENT PRIOR TO PLACEMENT OF BLUE RPM's.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

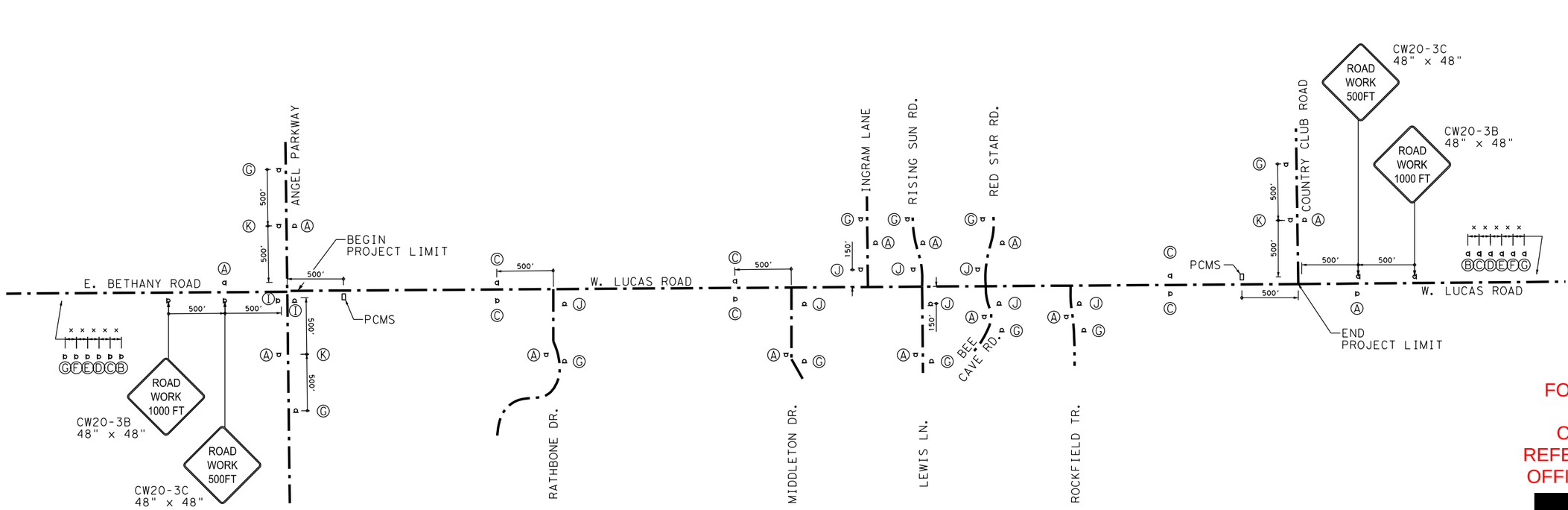
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	14
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:04 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_GEN01.dgn



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

Ⓐ END ROAD WORK — G20-2, 36" X 18"

Ⓑ BEGIN ROAD WORK NEXT X MILES — G20-5T, 48" X 24"

Ⓒ WORK ZONE — G20-5aP, 24" X 18"
SPEED LIMIT 40 — R2-1, 24" X 30"

Ⓓ WORK ZONE — G20-5aP, 24" X 18"
TRAFFIC FINES DOUBLE — R20-5T, 24" X 30"
WHEN WORKERS ARE PRESENT — R20-5aTP, 24" X 12"

Ⓔ STAY ALERT / TALK OR TEXT LATER — G20-10T, 60" X 48"

Ⓕ OBEY WARNING SIGNS STATE LAW — R20-3T, 48" X 42"

Ⓖ ROAD WORK AHEAD — CW20-1, 36" x 36"

Ⓗ END WORK ZONE — G20-2bT, 36" X 18"

Ⓘ WALMART NO ACCESS VIA W. LUCAS — CUSTOM SIGN W/ BLUE BACKGROUND & WHITE TEXT, 36" X 18"
(TO BE USED ONLY DURING PHASE 4)

Ⓚ ROAD WORK NEXT X MILES — G20-1T, 48" X 18"

Ⓙ ROAD WORK ← NEXT X MILES NEXT X MILES → — G20-1aT, 72" X 36"

NOTES

1. THE SIGNS SHOWN ON THIS SHEET ARE TO REMAIN THROUGHOUT THE ENTIRE DURATION OF THE PROJECT.
2. FIELD CONDITION MAY DICTATE ADJUSTMENT OF SIGN LOCATION. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION OF ANY SIGN.
3. REFER TO PHASING LAYOUT SHEETS FOR OTHER REGULATORY AND WARNING SIGNS.
4. CONTRACTOR SHALL ADHERE AT ALL TIMES TO THE TEXAS MUTCD AND TXDOT STANDARDS BC(1)-21 THROUGH BC(12)-21 FOR SIGN DETAILS, DIMENSIONS AND PLACEMENT.
5. REFER TO BC(2)-21, TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING FOR THE SIGN SPACING SHOWN AS "X" ON THIS SHEET.
6. REFER TO BC(3)-21 FOR ADDITIONAL INFORMATION ON SIGNING REQUIREMENTS FOR "WORK ZONE LIMIT" AREAS.
7. CONSTRUCTION SPEED LIMITS REDUCED FOR W. LUCAS ROAD.

W. LUCAS RD. ROADWAY IMPROVEMENTS

TTC ADVANCED WARNING SIGNS

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

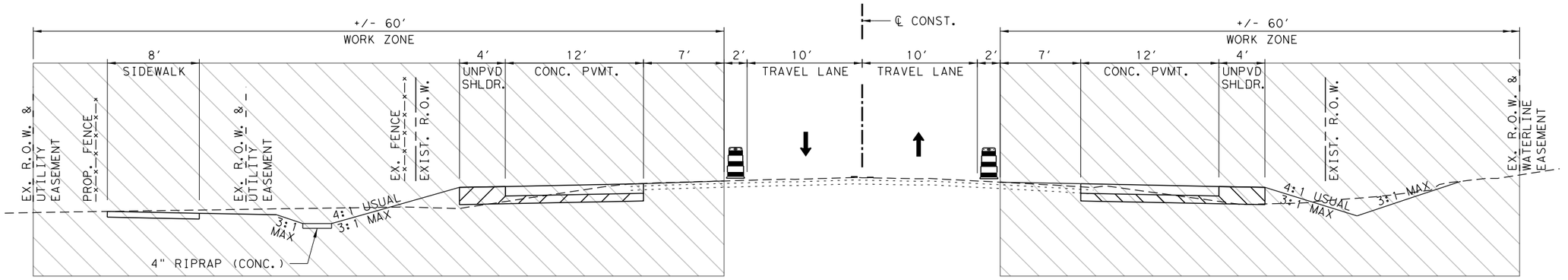
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	15
COUNTY		
COLLIN		

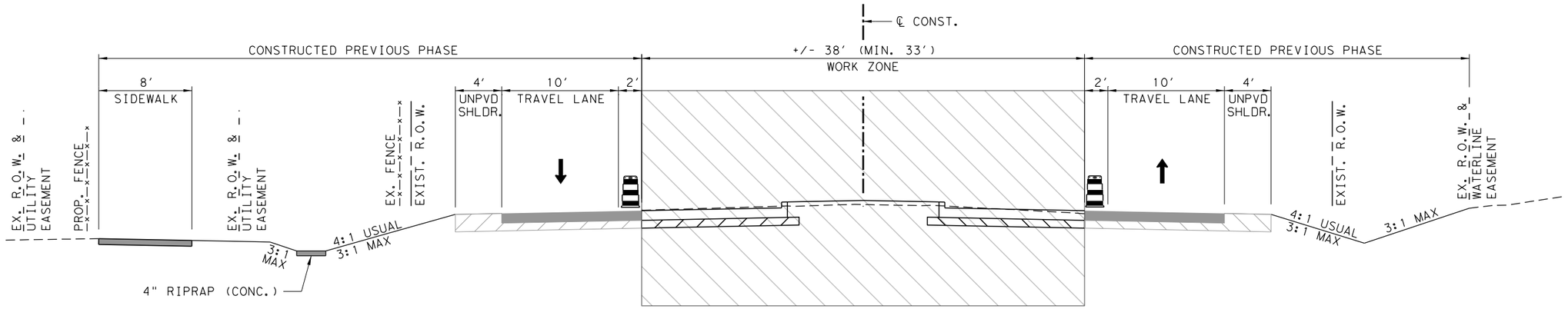
DATE: 4/6/2026 1:56:04 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_DET_01.dgn

Texas811 Know what's below. Call before you dig.



PHASE 1

STA. 80+70.00 TO 98+91.80



PHASE 2

STA. 80+70.00 TO 98+91.80

LEGEND:

- WORK ZONE
- CONC. PAVEMENT PLACED-IN-PREVIOUS PHASE
- CHANNELIZING DEVICE
- DIRECTION OF TRAFFIC

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN TYPICAL SECTIONS

SCALE: 1"=10' SHEET 1 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

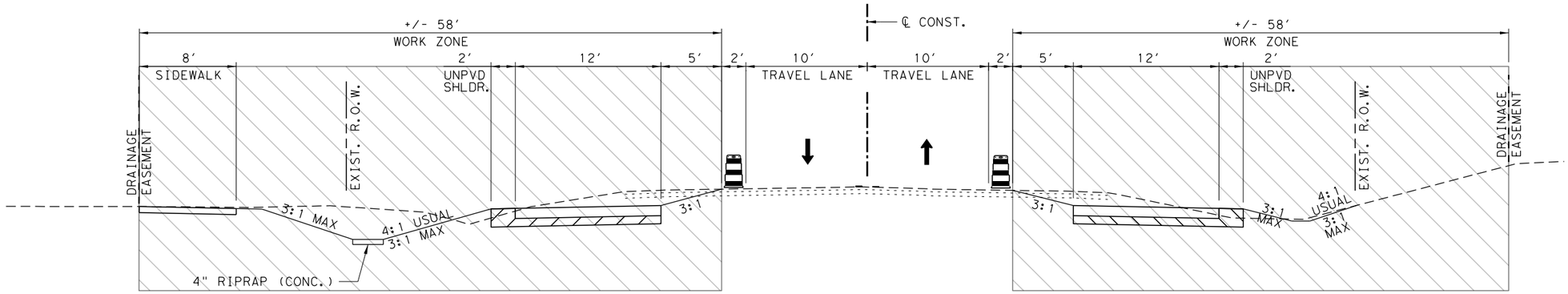
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	16
COUNTY		
COLLIN		

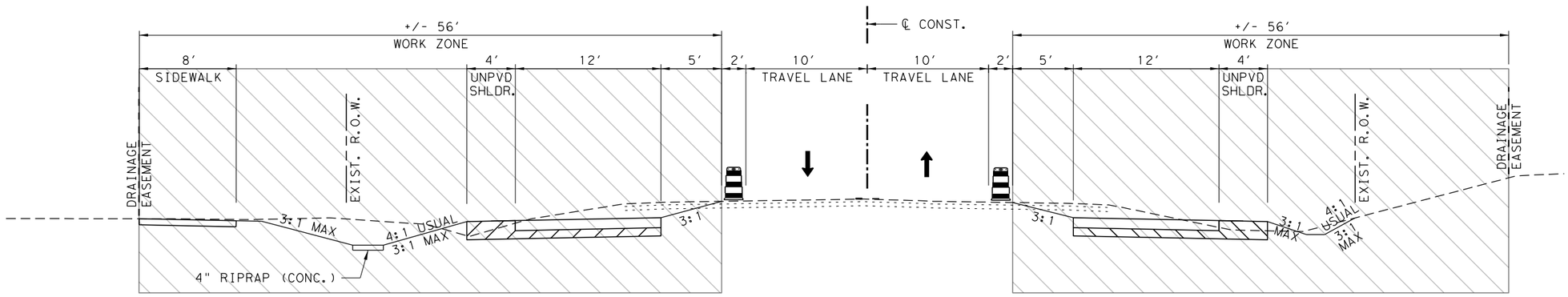
DATE: 4/6/2026 1:51:06 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TTC_TYP_01.dgn

Texas811 Know what's below. Call before you dig.



PHASE 3

STA. 10+74.00 TO 36+28.92



PHASE 3

STA. 36+28.92 TO 80+70.00

LEGEND:

- WORK ZONE
- CONC. PAVEMENT PLACED-IN-PREVIOUS PHASE
- CHANNELIZING DEVICE
- DIRECTION OF TRAFFIC

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN TYPICAL SECTIONS

SCALE: 1"=10' SHEET 2 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

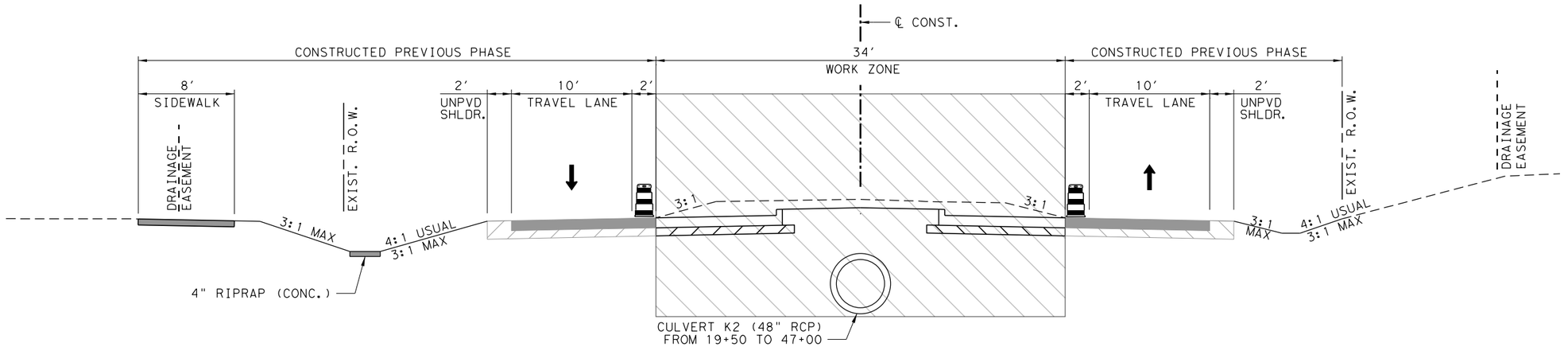
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	17
	COUNTY	
	COLLIN	

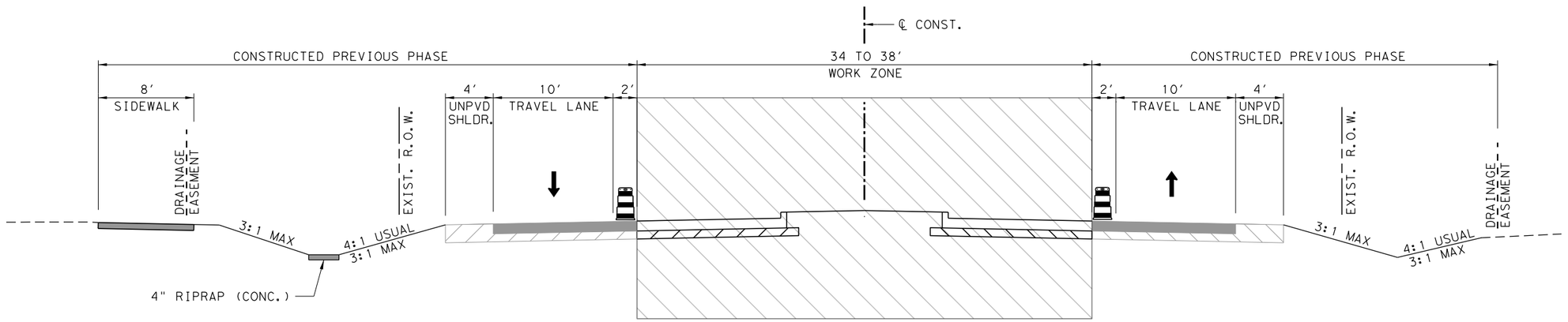
Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:07 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TTC_TYP_02.dgn



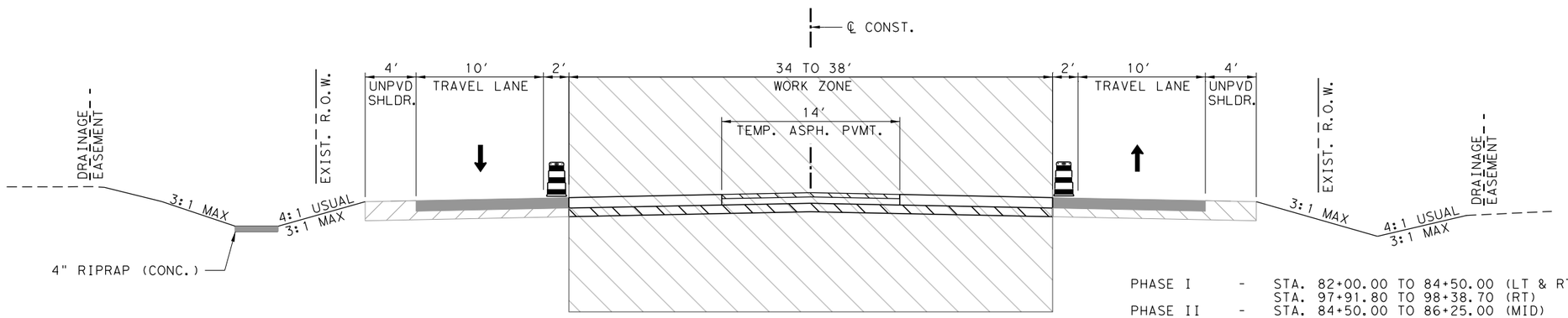
PHASE 4

STA. 10+74.00 TO 36+28.92



PHASE 4

STA. 36+28.92 TO 89+00.00



TEMPORARY ASPHALT PAVEMENT LOCATIONS

PHASE I	-	STA. 82+00.00 TO 84+50.00 (LT & RT) STA. 97+91.80 TO 98+38.70 (RT)
PHASE II	-	STA. 84+50.00 TO 86+25.00 (MID)
PHASE III	-	STA. 11+12.00 TO 12+08.14 (RT) STA. 44+47.50 TO 46+03.73 (LT & RT) STA. 47+86.25 TO 49+50.00 (LT & RT)
PHASE VI	-	STA. 40+66.42 TO 44+47.50 (LT & RT)

LEGEND:

- WORK ZONE
- CONC. PAVEMENT PLACED-IN-PREVIOUS PHASE
- CHANNELIZING DEVICE
- DIRECTION OF TRAFFIC

NOTE:

1. TEMPORARY ASPHALT SHALL NOT BE USED ACROSS MUDDY CREEK CULVERT AREA.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN TYPICAL SECTIONS

SCALE: 1"=10' SHEET 3 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

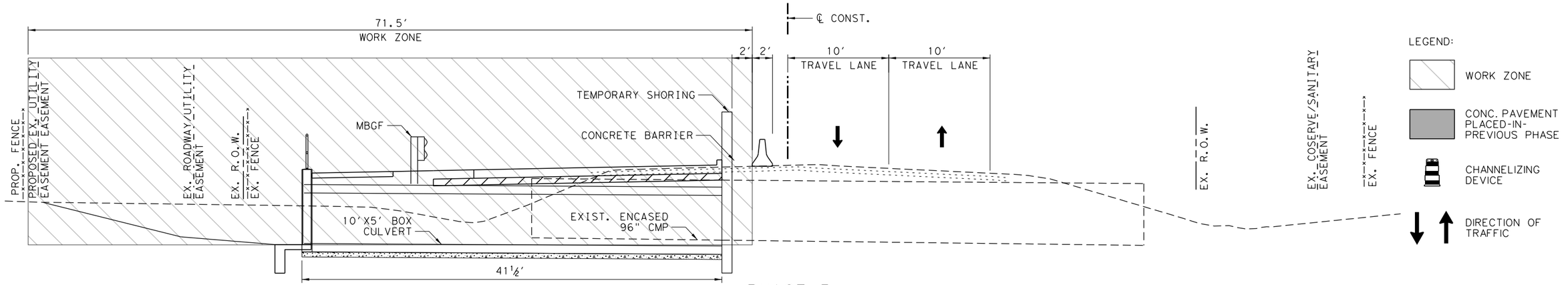
bcc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	18
COUNTY		
COLLIN		

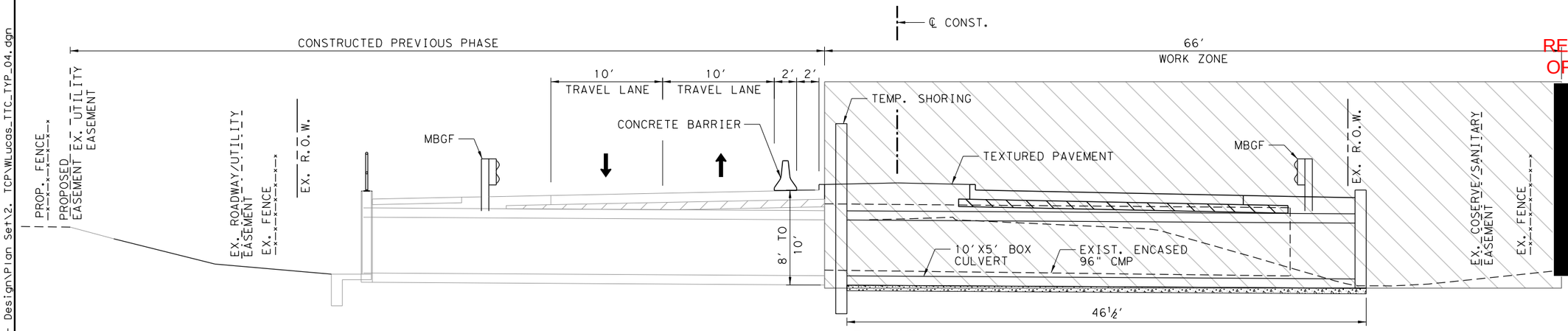
Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:07 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TTC_TYP_03.dgn



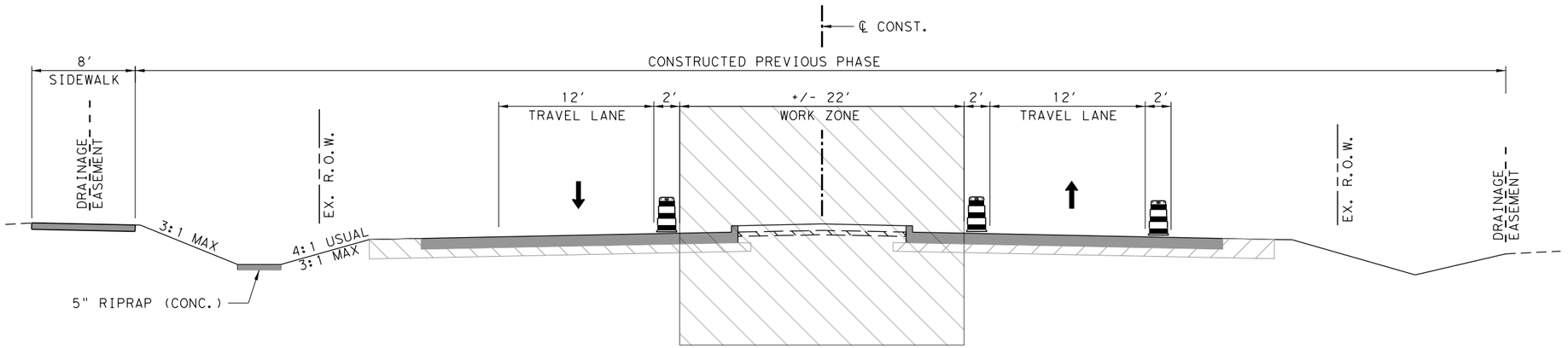
PHASE 5

STA. 44+47.50 TO 49+50.00



PHASE 6

STA. 44+47.50 TO 49+50.00



PHASE 7

STA. 40+66.40 TO 51+14.00

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN TYPICAL SECTIONS

SCALE: 1"=10' SHEET 4 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	19
	COUNTY	
	COLLIN	

DATE: 4/6/2026 1:51:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TTC_TYP_04.dgn

Texas811 Know what's below. Call before you dig.

TRAFFIC CONTROL PLAN SEQUENCE OF WORK

FOR ALL PHASES

1. PRIOR TO CONSTRUCTION CONTRACTOR MUST COORDINATE ALL WORK RELATED TO UTILITIES WITH UTILITY OWNERS. TWO WEEKS PRIOR TO CONSTRUCTION INSTALL PCMS, DISPLAYING MESSAGE GROUP A. AFTER CONSTRUCTION BEGINS, USE MESSAGE GROUP B. WHEN CHANGING PHASES, USE MESSAGE GROUP C. REFER TO TXDOT STANDARD BC(6)-14 FOR PCMS VERBIAGE WHICH MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

2. PLACE ALL ADVANCED WARNING SIGNS, TRAFFIC CONTROL DEVICES. WORK ZONE PAVEMENT MARKINGS IN ACCORDANCE WITH CURRENT TRAFFIC CONTROL STANDARDS, TMUTCD AND GENERAL NOTES. REFER TO TRAFFIC CONTROL PLANS FOR ADDITIONAL SIGNAGE.

PHASE 1

1. RECONSTRUCTION AND WIDENING OF WEST LUCAS RD. FROM STA. 84+50.00 TO STA. 99+40.00.

2. CONSTRUCT PAVEMENT, DITCHES, DRIVEWAY, CULVERTS, SIDE SLOPES, UTILITY ADJUSTMENTS, ETC. WITHIN THE WORK ZONE. CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS SHOWN IN THE PLANS TO FACILITATE LANE SHIFT TAPERS FOR FUTURE PHASE.

3. PLACE TEMPORARY ASPHALT PAVEMENT TO PROVIDE VERTICAL TRANSITION FROM STA. 82+00.00 TO STA. 84+50.00 AND STA. 98+90.00 TO STA. 99+40.00.

4. MAINTAIN ACCESS TO ALL PROPERTIES WITH AT LEAST ONE DRIVEWAY EACH.

5. AT CHURCH AND PAINTING PLACE ONE DRIVEWAY TO BE CONSTRUCTED AT A TIME. COORDINATE DRIVEWAY CONSTRUCTION WITH PROPERTY OWNER AND ENGINEER.

6. AT SCHOOL, AT LEAST ONE DRIVEWAY OPEN TO TRAFFIC AT ALL TIMES.

7. ANY COMMERCIAL DRIVEWAYS CLOSED DURING CONSTRUCTION SHOULD HAVE TYPE-III BARRIERS TO BLOCK ACCESS TO TRAFFIC.

8. CONSTRUCT CULVERT SD-1 & SD-3 DURING PHASE-1. REFER TO TRAFFIC CONTROL PLAN CULVERT DETAILS SHEET FOR MORE DETAILS ON TEMPORARY TRAFFIC CONTROL REQUIREMENTS FOR CULVERTS SD-1 & SD-2.

PHASE 2

1. RECONSTRUCTION AND WIDENING OF WEST LUCAS RD. FROM STA. 84+50.00 TO STA. 99+40.00.

2. CONSTRUCT PAVEMENT, MEDIAN, TRAFFIC SEPARATORS, UTILITY ADJUSTMENTS, ETC. WITHIN THE WORK ZONE. CONSTRUCT TEMPORARY ASPHALT PAVEMENT FROM STA. 84+50.00 TO STA. 86+25.00 AT PROPOSED GRADE LINE ELEVATION TO FACILITATE FUTURE PHASE LANE SHIFT TAPERS.

3. PLACE PERMANENT PAVEMENT MARKING FROM STA. 89+00.00 TO END OF THE PROJECT.

PHASE 3

1. RECONSTRUCTION AND WIDENING OF WEST LUCAS RD. FROM STA. 12+08.14 TO STA. 44+47.50 AND FROM STA. 49+50.00 TO STA. 84+50.00.

2. REMOVE TEMPORARY ASPHALT PAVEMENT CONSTRUCTED IN PREVIOUS STAGE.

3. CONSTRUCT PAVEMENT, DITCHES, DRIVEWAY, CULVERTS, SIDE SLOPES, UTILITY ADJUSTMENTS, ETC. WITHIN THE WORK ZONE. CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS SHOWN IN THE PLANS TO FACILITATE FUTURE PHASE LANE SHIFT TAPERS.

4. FOR INGRAM LN. AND LEWIS LN. USE INTERSECTION SUB-PHASING DETAIL. MAINTAIN 2-LN-2-WAY TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

5. FOR RISING SUN RD. AND RED STAR RD. USE INTERSECTION SUB-PHASING DETAIL. MAINTAIN 1-LN-2-WAY TRAFFIC AT ALL TIMES DURING CONSTRUCTION

6. COMPLETE CONSTRUCTION OF SD-1. PLACE SD-1 IN SERVICE ONLY AFTER THE DOWNSTREAM DITCHES ARE CONSTRUCTED.

7. PLACE TEMPORARY ASPHALT PAVEMENT FOR FUTURE PHASE TRANSITIONS AT STA. 44+47.40 TO STA. 49+50.00.

8. INSTALL METAL BEAM GUARD FENCE FROM STA. 40+25.00 TO STA. 44+47.50.

PHASE 4

1. RECONSTRUCTION AND WIDENING OF WEST LUCAS RD. FROM STA. 12+08.14 TO STA. 44+47.50 AND FROM STA. 49+50.00 TO STA. 84+50.00.

2. REMOVE TEMPORARY ASPHALT PAVEMENT CONSTRUCTED IN PREVIOUS PHASE. FROM STA. 84+50.00 TO STA. 96+25.00. CONSTRUCT PAVEMENT, MEDIAN, TRAFFIC SEPERATORS, ETC. WITHIN THE WORK ZONE.

3. BUILD TEMPORARY ASPHALT PAVEMENT FROM STA. 40+66.42 TO STA. 44+47.50 AND STA. 50+06.63 TO STA. 54+40.00, AT PROPOSED GRADE LINE ELEVATION TO FACILITATE FUTURE PHASE LANE SHIFT TAPERS.

4. PLACE PERMANENT PAVEMENT MARKINGS FROM STA. 12+08.00 TO STA. 38+00.00 AND STA. 58+00.00 TO STA. 89+00.00.

PHASE 5 & 6

1. PRIOR TO CONSTRUCTION, SUBMIT TEMPORARY SPECIAL SHORING DESIGN FOR APPROVAL.

PHASE 5

1. REMOVE EXISTING PAVEMENT TO LIMITS SHOWN ON PLANS.

2. REMOVE EXISTING CULVERT, INSTALL TEMPORARY SHORING.

3. PERFORM CULVERT CONSTRUCTION AS SHOWN ON PLANS.

4. RECONSTRUCT PAVING FROM STA. 44+47.50 TO STA. 49+50.00.

5. INSTALL METAL BEAM GUARD FENCES.

PHASE 6

1. REMOVE EXISTING PAVEMENTS TO LIMITS SHOWN ON PLANS.

2. REMOVE EXISTING CULVERT, INSTALL TEMPORARY SHORING.

3. PERFORM CULVERT CONSTUCTION AS SHOWN ON PLANS.

4. RECONSTRUCT PAVING AND INSTALL MEDIAN FROM STA. 44+47.50 TO STA. 49+50.00.

5. INSTALL METAL BEAM GUARD FENCE STA.44+47.50 TO STA. 48+22.40.

PHASE 7

1. RECONSTRUCTION AND WIDENING OF WEST LUCAS RD. FROM STA. 40+00.00 TO STA. 54+50.00.

2. REMOVE TEMPORARY ASPHALT PAVEMENT AS SHOWN ON TRAFFIC CONTROL PLANS. CONSTRUCT PAVEMENT, MEDIAN, TRAFFIC SEPERATORS, ETC. WITHIN THE WORK ZONE.

3. PLACE PERMANENT PAVEMENT MARKINGS FOR THE REMAINDER OF THE PROJECT, STA. 38+00.00 TO STA. 58+00.00.

4. PLACE PERMANENT SIGNS THROUGHOUT THE PROJECT.

PHASE 8

1. CONSTRUCT SIDEWALK.

PLACE A PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT LIMITS AT LEAST ONE WEEK IN ADVANCE OF ALL MAJOR TRAFFIC SHIFTS. SIGN LOCATION AND MESSAGE WILL VARY DEPENDING ON THE CONSTRUCTION PHASE FOR WHICH IT IS USED. SIGN LOCATION AND MESSAGE PER PHASE WILL BE AS DIRECTED BY THE ENGINEER.

MESSAGE GROUP A	
MESSAGE 1	MESSAGE 2
ROADWORK 2 MILES	BEGINS XX/XX/XX

MESSAGE GROUP B	
MESSAGE 1	MESSAGE 2
ROADWORK 2 MILES	PREPARE TO STOP

MESSAGE GROUP C	
MESSAGE 1	MESSAGE 2
LANES SHIFT	STAY IN LANE

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN SEQUENCE OF WORK

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

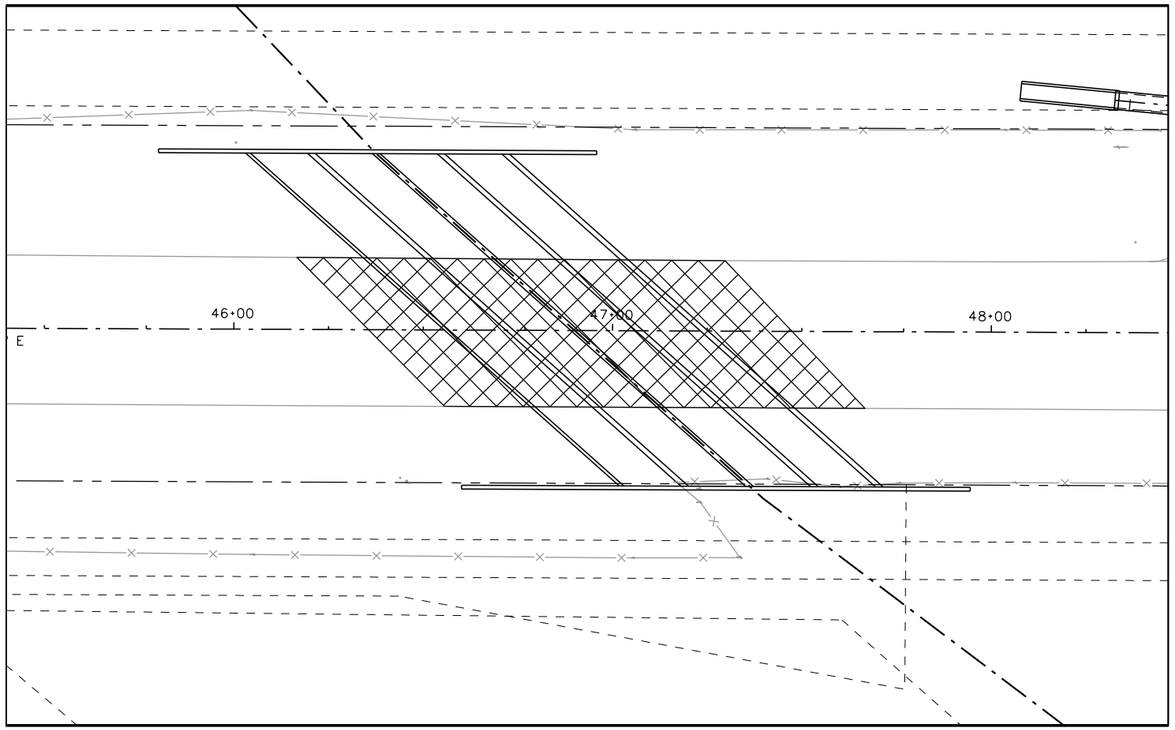
bc engineering
a PARSONS Company

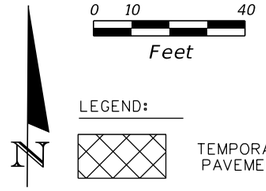
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		20
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_SEQ_01.dgn



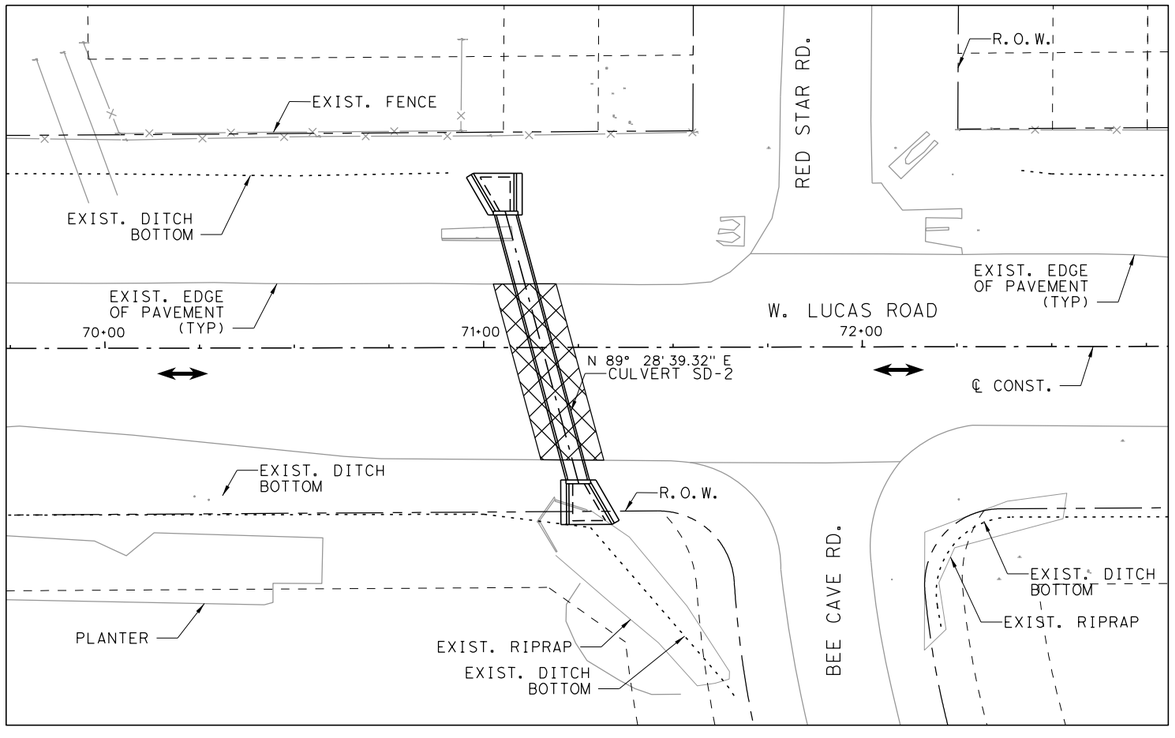


PHASE 3 & 4 (CULVERT SD-1)

1. FOR TEMPORARY TRAFFIC CONTROL USE STANDARD TCP(1-2)-18 ONE LANE TWO WAY TRAFFIC CONTROL WITH FLAGGERS (TCP (1-2B)).
2. DURING CONSTRUCTION PCMS SHOULD DISPLAY MESSAGE GROUP B. REFER TO TRAFFIC CONTROL SEQUENCE OF WORK SHEET.
3. THE OPEN TRENCH SHOULD BE COVERED WITH STEEL PLATES OR BACKFILLED TO EXISTING GRADE WITH COMPACTED EARTH FOR TRAFFIC MOVEMENT. ONCE THE CONSTRUCTION OF CULVERT IS COMPLETE, PROVIDE TEMPORARY ASPHALT PAVEMENT, AT EXISTING GRADE, OVER THE TRENCH.
4. CONSTRUCT TO THE LIMITS SHOWN. PLACE TEMPORARY PLUG ON BOTH ENDS, BACKFILL AND RESTORE TO EXISTING CONDITIONS.
5. THE REMAINDER OF CULVERT SD-1 IS CONSTRUCTED DURING PHASE 3. REMOVE THE TEMPORARY PLUG BEFORE MAKING THE CONNECTION.
6. CULVERT SD-1 SHALL ONLY BE MADE OPERATIONAL AFTER THE CONSTRUCTION OF DOWNSTREAM DITCHES IS COMPLETE.
7. THE TIME FOR CONSTRUCTION WILL BE 9:00 AM TO 3:00 PM. ALL THE PREPARATION SHOULD BE DONE WITHIN THE ALLOTTED TIME FRAME.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]



SUB PHASE 3.1 (CULVERT SD-2)

1. FOR TEMPORARY TRAFFIC CONTROL USE STANDARD TCP(1-2)-18 ONE LANE TWO WAY TRAFFIC CONTROL WITH FLAGGERS (TCP (1-2B)).
2. DURING CONSTRUCTION PCMS SHOULD DISPLAY MESSAGE GROUP B. REFER TO TRAFFIC CONTROL SEQUENCE OF WORK SHEET.
3. THE OPEN TRENCH SHOULD BE COVERED WITH METAL PLATES OR BACKFILLED TO EXISTING GRADE WITH COMPACTED EARTH FOR TRAFFIC MOVEMENT. ONCE THE CONSTRUCTION OF CULVERT IS COMPLETE, PROVIDE TEMPORARY ASPHALT PAVEMENT, AT EXISTING GRADE, OVER THE TRENCH.
4. CONSTRUCT TO THE LIMITS SHOWN. PLACE TEMPORARY PLUG ON BOTH ENDS, BACKFILL AND RESTORE TO EXISTING CONDITIONS.

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN SD1 & SD2 DETAILS

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		21
COLLIN		

DATE: 4/6/2026 1:51:11 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_SD_DETAILS.dgn

Texas811 Know what's below. Call before you dig.

WORK ZONE PAVEMENT MARKING LEGEND:

COLOR/WIDTH/TYPE	EXIST. TO REMAIN	TEMPORARY	REMOVABLE
(W) (6") (SLD)	(A)	(B)	(BR)
(W) (24") (SLD)	(C)	(D)	
(W) (6") (BROKEN)	(E)		
(Y) (6") (SLD)	(G)	(H)	(HR)
(Y) (6") (BROKEN)	(K)	(J)	(JR)
(Y) (6") (SLD) (DOUBLE)	(I)		
R.P.M TYPE II-A-A @ 40' C-C		(L)	

LEGEND:

- PROPOSED CONSTRUCTION WORK ZONE - THIS PHASE
- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY CONSTRUCTION EXIT/ENTRANCE

0 10 40
Feet

N

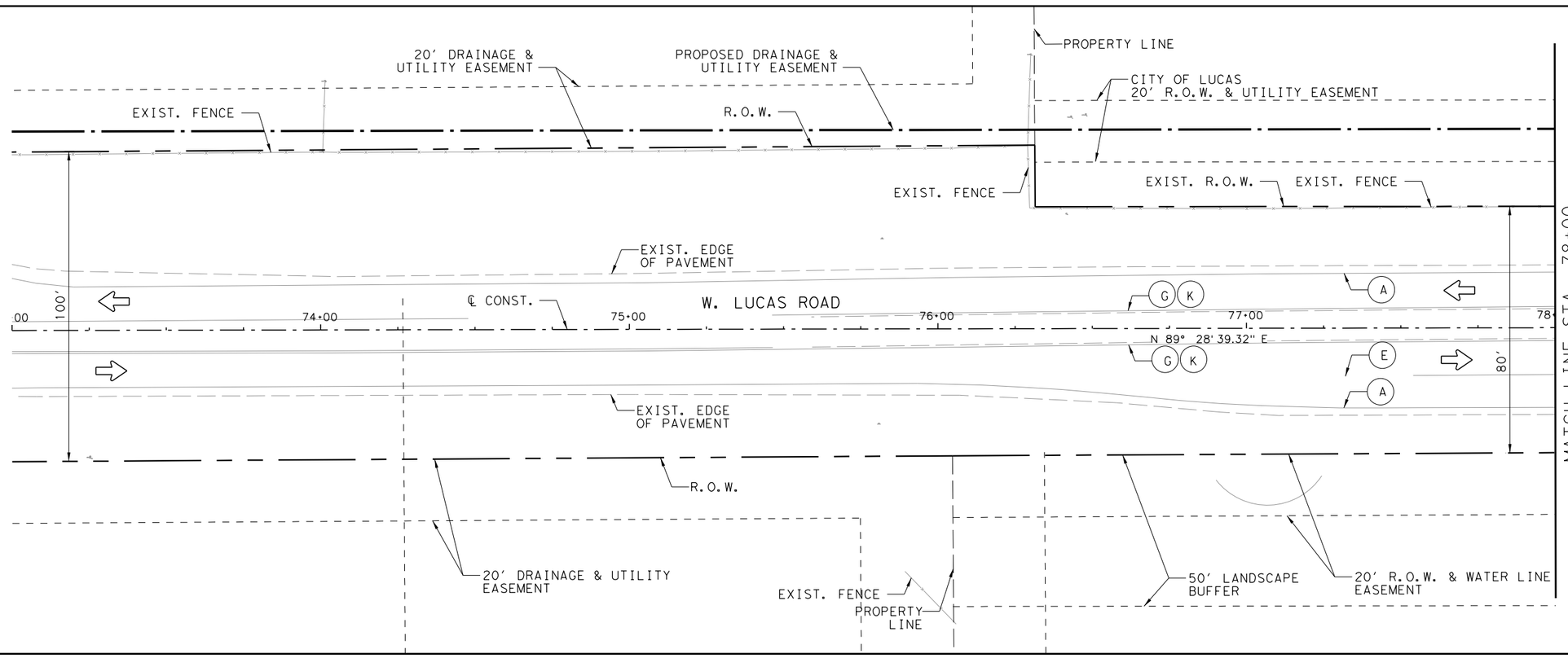
LEGEND:

- DIRECTION OF TRAFFIC
- PAVEMENT MARKINGS
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES

GENERAL NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. APPLY LEGEND AND SYMBOLS FROM THIS SHEET TO ALL SHEETS IN THIS PHASE.
3. CHANNELIZING DEVICE SPACING;
   STRAIGHT LINE - 40'
   TAPERED LINE - 20'
   CURVED LINE - 10'

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS



W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

SHEET 1 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

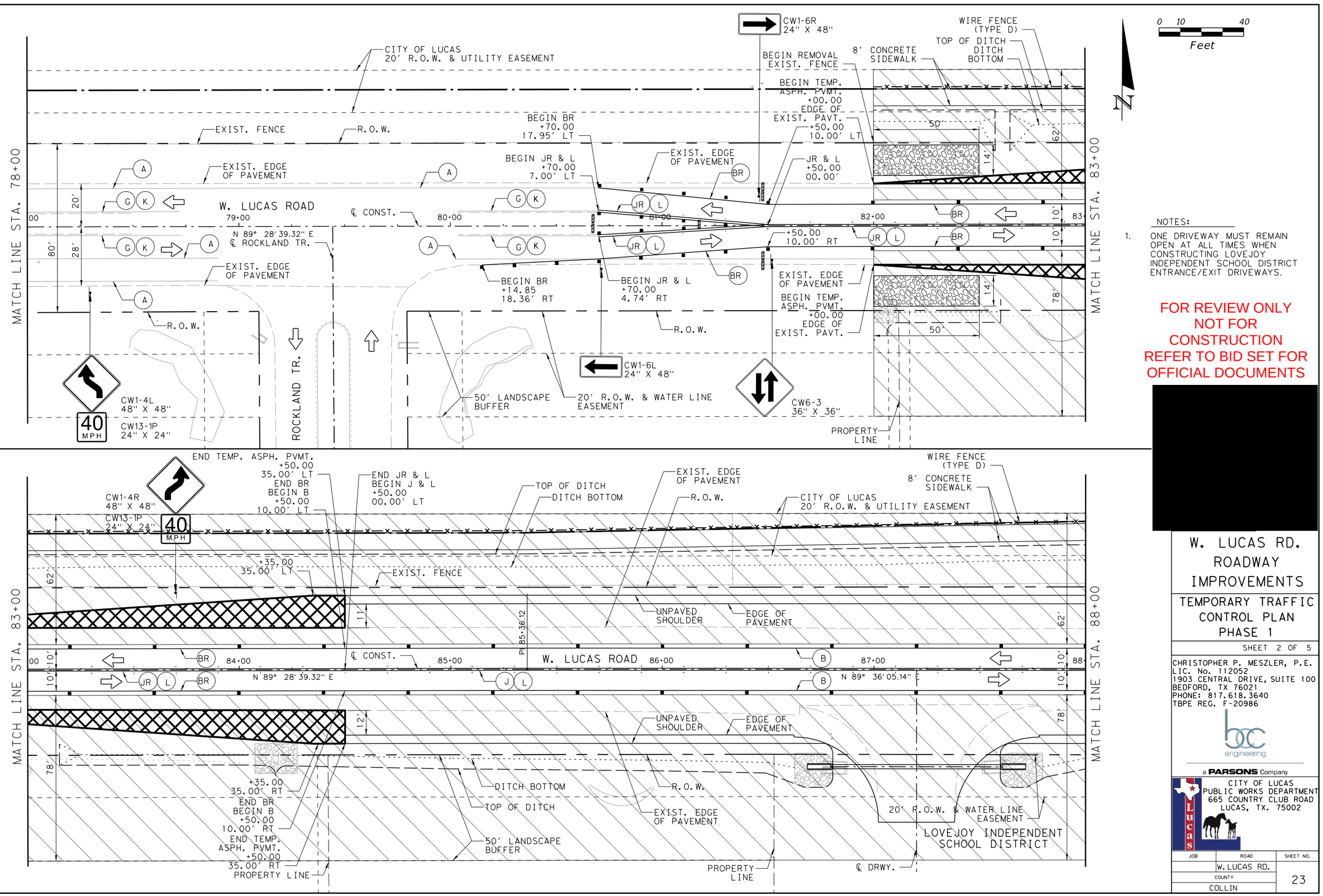
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	22
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:13 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH1_01.dgn



NOTES:

1. ONE DRIVEWAY MUST REMAIN OPEN AT ALL TIMES WHEN CONSTRUCTING LOVEJOY INDEPENDENT SCHOOL DISTRICT ENTRANCE/EXIT DRIVEWAYS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

SHEET 2 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		23
COLLIN		

DATE: 4/6/2026 1:51:14 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH1_02.dgn

Texas 811 Know what's below. Call before you dig.

0 10 40
Feet

TRINITY TABERNACLE ASSEMBLY OF GOD

1130

RELOCATED CUSTOM SIGN W/ BLUE BACKGROUND & WHITE TEXT (SIGN BOTH DIRECTIONS) 36" X 18"

WIRE FENCE (TYPE D)
PROPERTY LINE
8' CONCRETE SIDEWALK
TOP OF DITCH
DITCH BOTTOM
END REMOVAL EXIST. FENCE
℄ DRWY.
TOP OF DITCH
DITCH BOTTOM
CITY OF LUCAS 20' R.O.W. & UTILITY EASEMENT
℄ DRWY.
TOP OF DITCH
DITCH BOTTOM
EXIST. FENCE
R.O.W.
UNPAVED SHOULDER
EDGE OF PAVEMENT
UNPAVED SHOULDER
EDGE OF PAVEMENT
62'
63'
MATCH LINE STA. 88+00
MATCH LINE STA. 93+00
10'
10'
EXIST. EDGE OF PAVEMENT
89+00
90+00
W. LUCAS ROAD
POT 1+00.00
91+00
℄ CONST.
B
92+00
93+
N 89° 36' 05.14" E
J
L
B
EXIST. EDGE OF PAVEMENT
78'
183'
UNPAVED SHOULDER
EDGE OF PAVEMENT
℄ DRWY.
UNPAVED SHOULDER
EDGE OF PAVEMENT
PC 1+47.10
R.O.W.
DITCH BOTTOM
TOP OF DITCH
DITCH BOTTOM
TOP OF DITCH
20' R.O.W. & WATER LINE EASEMENT
WILLOW SPRINGS MIDDLE SCHOOL
RELOCATED CUSTOM SIGN W/ MASON WORK & ENGRAVED TEXT (SIGN BOTH DIRECTIONS) 36" X 18" (RELOCATE AS NECESSARY TO ACCOMODATE DRIVEWAY CONSTRUCTION)
2+00
3+00
4+00
MATCH LINE STA. 4+47.41
LOVEJOY INDEPENDENT SCHOOL DISTRICT
3+03.40

NOTES:

1. ONE DRIVEWAY MUST REMAIN OPEN AT ALL TIMES WHEN CONSTRUCTING LOVEJOY INDEPENDENT SCHOOL DISTRICT ENTRANCE/EXIT DRIVEWAYS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

SHEET 3 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bec engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	24
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:16 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH1_03.dgn

0 10 40
Feet

N

15' DRAINAGE & UTILITY EASEMENT
CITY OF LUCAS 20' R.O.W. & UTILITY EASEMENT
TOP OF DITCH
DITCH BOTTOM
8' CONCRETE SIDEWALK
BEGIN FENCE REMOVAL
℄ DRWY.
10' DRAINAGE & UTILITY EASEMENT
R.O.W.
UNPAVED SHOULDER
EDGE OF PAVEMENT
END FENCE REMOVAL
6' CONCRETE SIDEWALK
EXIST. EDGE OF PAVEMENT
THE PAINTING PLACE COLLISION REPAIR
RELOCATED FLAG POLE, CUSTOM SIGN W/ BLUE BACKGROUND & WHITE TEXT (SIGN BOTH DIRECTIONS) 36" X 18"
TOP OF DITCH
30' DRAINAGE EASEMENT
℄ DITCH
℄ DRWY.
EXIST. FENCE
CHAIN LINK FENCE
5' CONCRETE SIDEWALK
EDGE OF PAVEMENT
BEGIN FENCE REMOVAL
END FENCE REMOVAL
℄ DRWY.
TOP OF DITCH
DITCH BOTTOM
R.O.W.
MATCH LINE STA. 93+00
MATCH LINE STA. 98+00
63'
83'
10'
10'
B
J
L
93+00
94+00
95+00
W. LUCAS ROAD
96+00
℄ CONST.
97+00
98+00
EXIST. EDGE OF PAVEMENT
N 89° 36' 05.14" E
183'
59'
EDGE OF PAVEMENT
UNPAVED SHOULDER
R.O.W.
DITCH BOTTOM
TOP OF DITCH
DEMOLISH EXISTING DRIVEWAY
20' R.O.W. & WATER LINE EASEMENT
℄ DRWY.
PROP. DRAINAGE & UTILITY EASEMENT
DITCH BOTTOM
TOP OF DITCH
℄ DRWY.
STA. 97.00 TO 98+91.80
17' CONC. PVMT (EB)
NON TYPICAL
(REFER TO PHASE-2 FOR CONC. PVMT. LIMIT)
MATCH LINE STA. 4+47.41
5.00
℄ DRWY.
POT 5+84.46
PROPERTY LINE
LOVEJOY INDEPENDENT SCHOOL DISTRICT

NOTES:

1. ONE DRIVEWAY MUST REMAIN OPEN AT ALL TIMES WHEN CONSTRUCTING LOVEJOY INDEPENDENT SCHOOL DISTRICT ENTRANCE/EXIT DRIVEWAYS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

SHEET 4 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

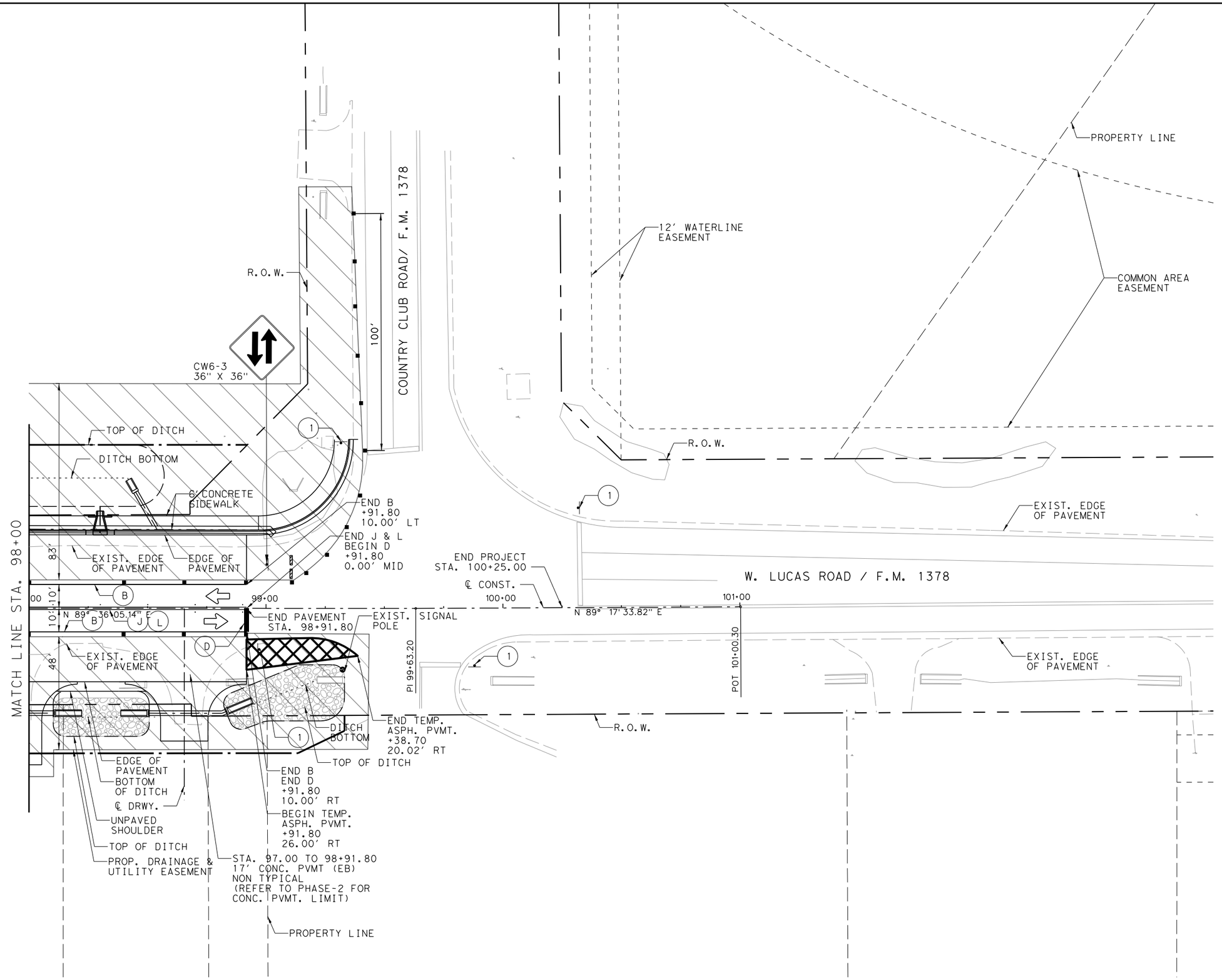
bgc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	25
COUNTY		
COLLIN		

DATE: 4/6/2026 1:51:17 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH1_04.dgn

Texas811 Know what's below. Call before you dig.



NOTES:

1. FOR SIGNAL PHASING, COORDINATE WITH TXDOT.
2. ANY CONFLICTING SIGN MUST BE REMOVED OR COVERED.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

SHEET 5 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	26
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:18 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH1_05.dgn

WORK ZONE PAVEMENT MARKING LEGEND:

COLOR/WIDTH/TYPE	EXIST. TO REMAIN	TEMPORARY	REMOVABLE
(W) (6") (SLD)	(A)	(B)	(BR)
(W) (24") (SLD)	(C)	(D)	
(W) (6") (BROKEN)	(E)		
(Y) (6") (SLD)	(G)	(H)	(HR)
(Y) (6") (BROKEN)	(K)	(J)	(JR)
(Y) (6") (SLD) (DOUBLE)	(I)		
R.P.M TYPE II-A-A @ 40' C-C		(L)	

LEGEND:

- PROPOSED CONSTRUCTION WORK ZONE - THIS PHASE
- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY CONSTRUCTION EXIT/ENTRANCE
- CONSTRUCTED PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT PLACED IN PREVIOUS PHASE

0 10 40
Feet

N

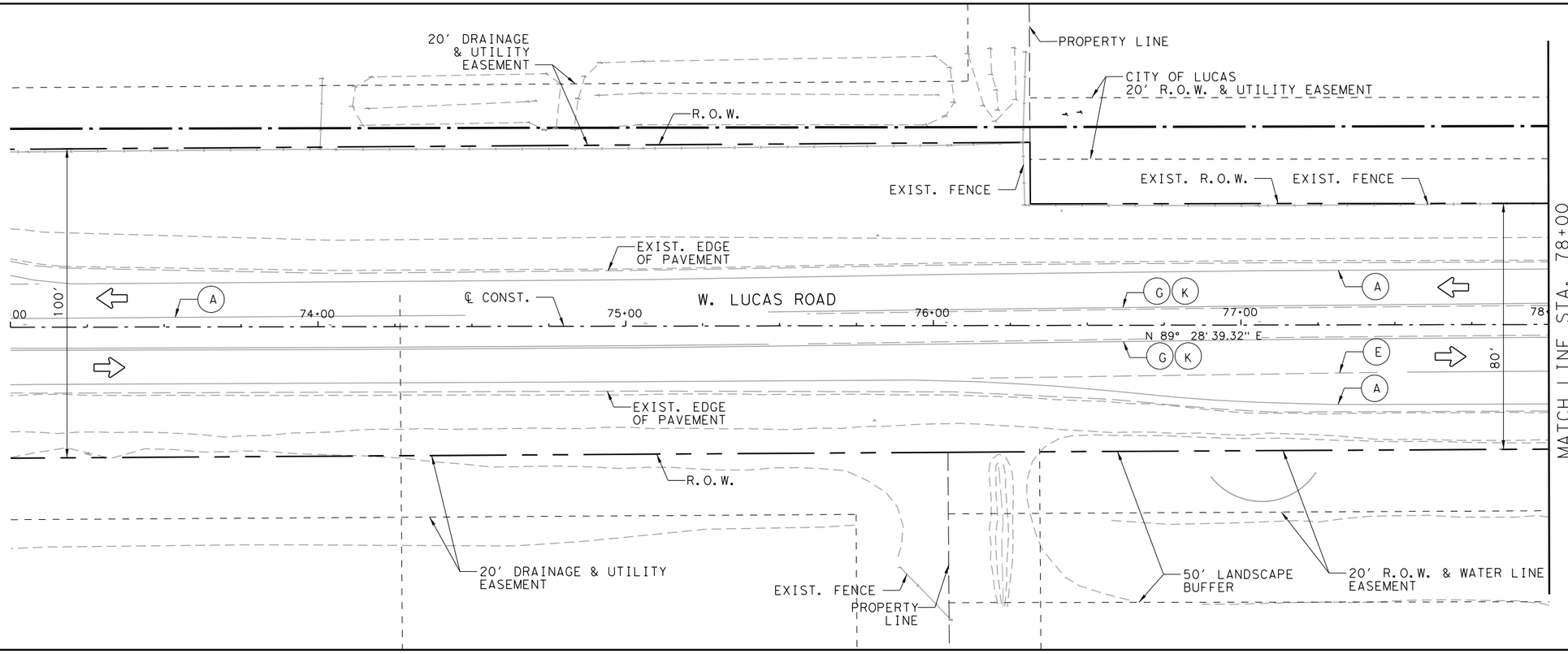
LEGEND:

- DIRECTION OF TRAFFIC
- PAVEMENT MARKINGS
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES

GENERAL NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. APPLY LEGEND AND SYMBOLS FROM THIS SHEET TO ALL SHEETS IN THIS PHASE.
3. CHANNELIZING DEVICE SPACING;
   STRAIGHT LINE - 40'
   TAPERED LINE - 20'
   CURVED LINE - 10'

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS



W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 2

SHEET 1 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

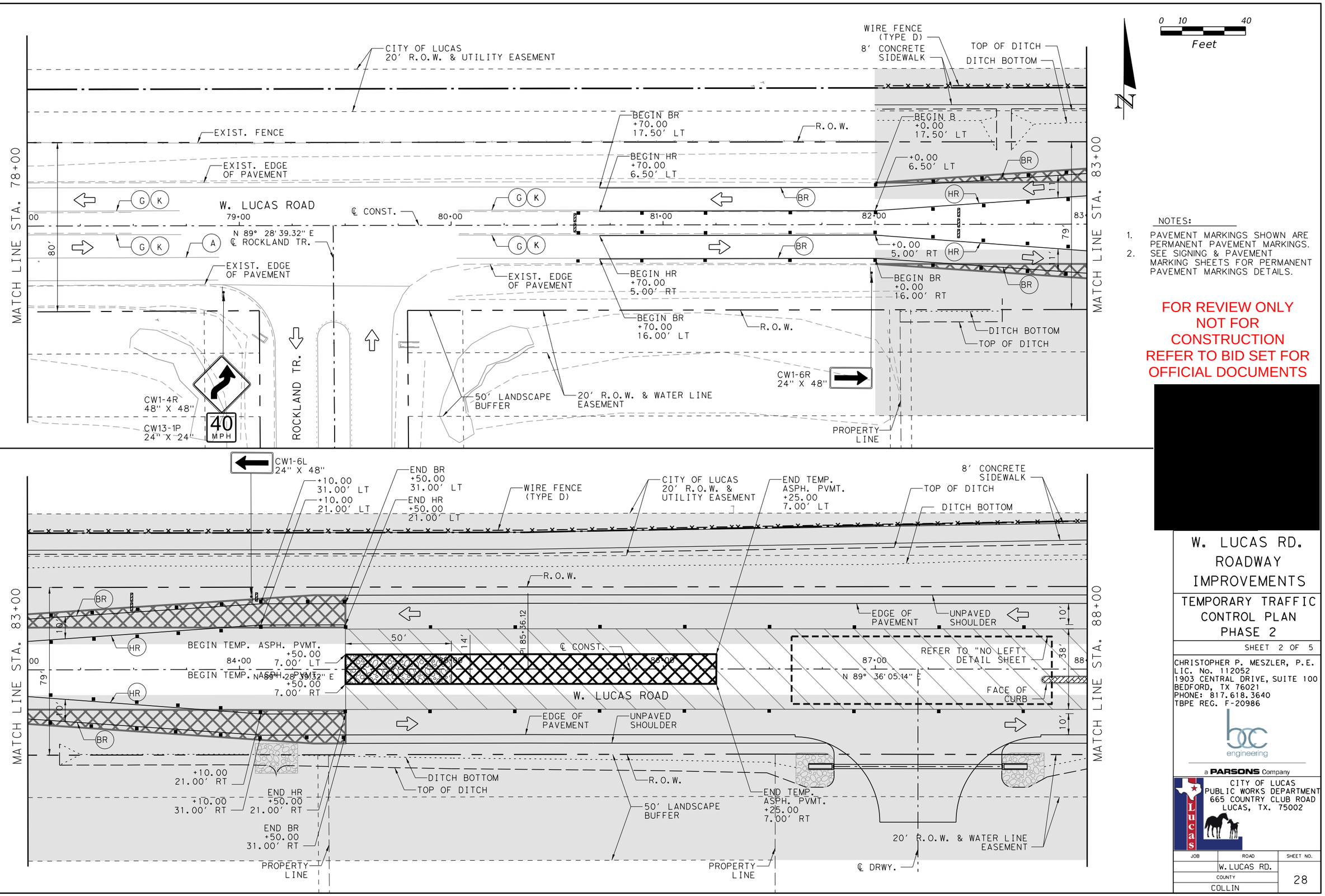
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	27
COUNTY		
COLLIN		

DATE: 4/6/2026 1:51:20 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH2_01.dgn

Texas 811 Know what's below. Call before you dig.



0 10 40
Feet

N

NOTES:

1. PAVEMENT MARKINGS SHOWN ARE PERMANENT PAVEMENT MARKINGS.
2. SEE SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKINGS DETAILS.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 2

SHEET 2 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

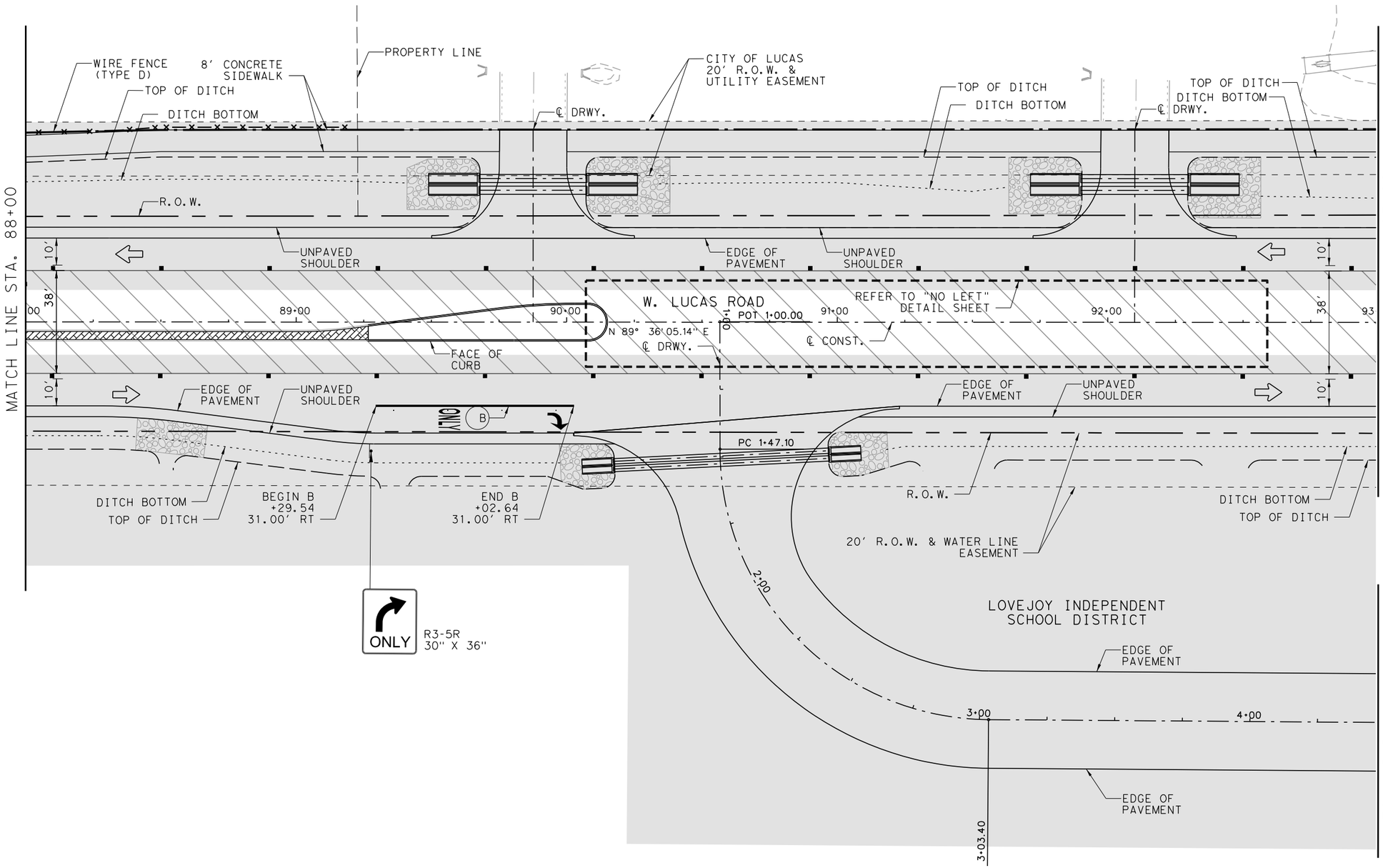
JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		28
COLLIN		

DATE: 4/6/2026 1:51:21 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH2_02.dgn

Texas 811 Know what's below. Call before you dig.

0 10 40
Feet

N



NOTES:

1. PAVEMENT MARKINGS SHOWN ARE PERMANENT PAVEMENT MARKINGS.
2. SEE SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKINGS DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 2

SHEET 3 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	29
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:22 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH2_03.dgn

0 10 40
Feet

N

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

MATCH LINE STA. 93+00

MATCH LINE STA. 98+00

MATCH LINE STA. 4+47.41

15' DRAINAGE & UTILITY EASEMENT

CITY OF LUCAS 20' R.O.W. & UTILITY EASEMENT

TOP OF DITCH

DITCH BOTTOM

℄ DRWY.

10' DRAINAGE & UTILITY EASEMENT

R.O.W.

UNPAVED SHOULDER

6' CONCRETE SIDEWALK

EDGE OF PAVEMENT

REFER TO "NO LEFT" DETAIL SHEET

W. LUCAS ROAD

94+00

95+00

96+00

97+00

N 89° 36' 05.14" E

℄ CONST.

10'

38'

34'

EDGE OF PAVEMENT

UNPAVED SHOULDER

B

DITCH BOTTOM

TOP OF DITCH

R.O.W.

LOVEJOY INDEPENDENT SCHOOL DISTRICT

EDGE OF PAVEMENT

℄ DRWY.

5+00

POT 5+84.46

CW1-4L 48" X 48"

EDGE OF PAVEMENT

TOP OF DITCH

DITCH BOTTOM

30' DRAINAGE EASEMENT

EXIST. FENCE

℄ DRWY.

5' CONCRETE SIDEWALK

FENCE GATE

℄ DRWY.

TOP OF DITCH

DITCH BOTTOM

R.O.W.

20' R.O.W. & WATER LINE EASEMENT

BEGIN B
+0.00
31.00' RT

℄ DRWY.

CW1-6L 24" X 48"

PROP. DRAINAGE & UTILITY EASEMENT

+0.00
26.00' RT

℄ DRWY.

PROPERTY LINE

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 2

SHEET 4 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

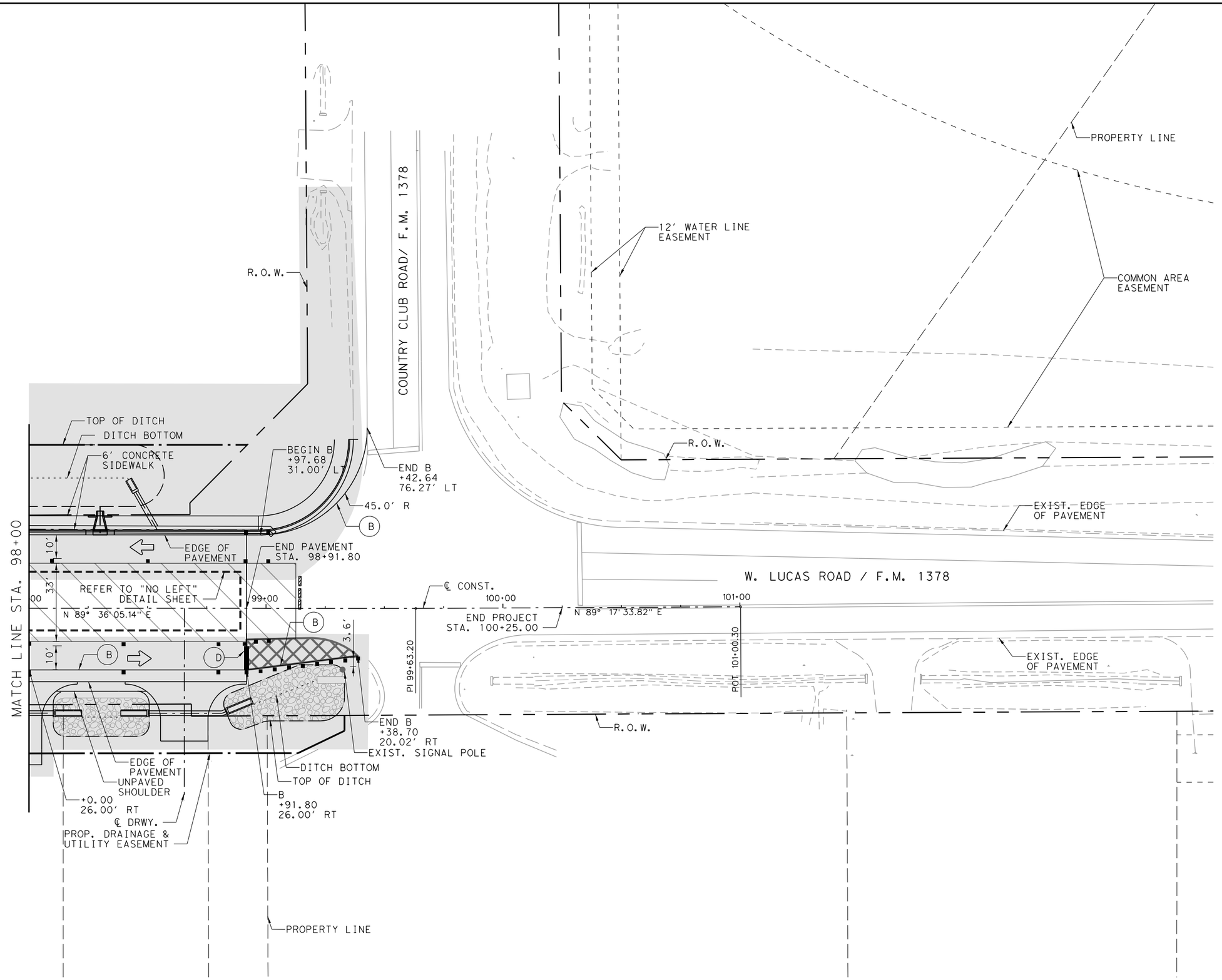
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	30
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:23 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH2_04.dgn



NOTES:

1. FOR SIGNAL PHASING, COORDINATE WITH TXDOT.
2. ANY CONFLICTING SIGN MUST BE REMOVED OR COVERED.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 2

SHEET 5 OF 5

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	31
COUNTY		
COLLIN		

DATE: 4/6/2026 1:51:24 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH2_05.dgn

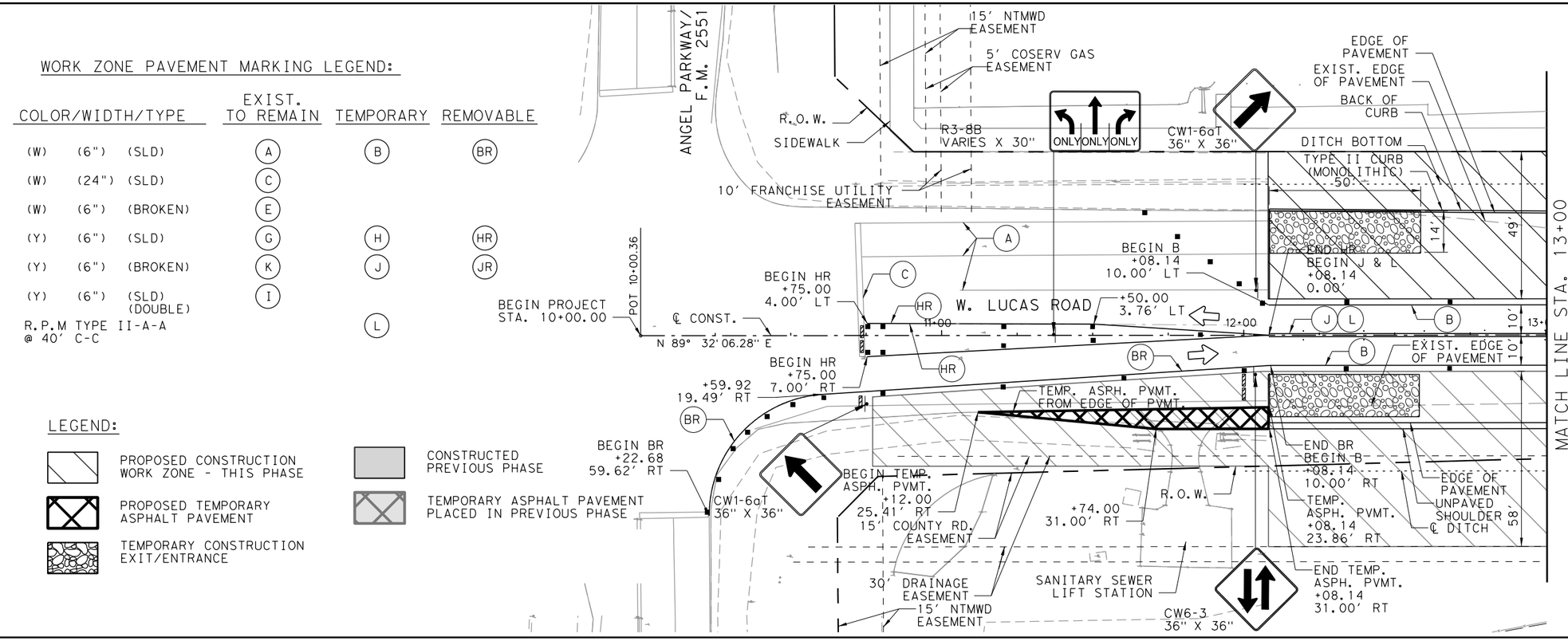
Texas811 Know what's below. Call before you dig.

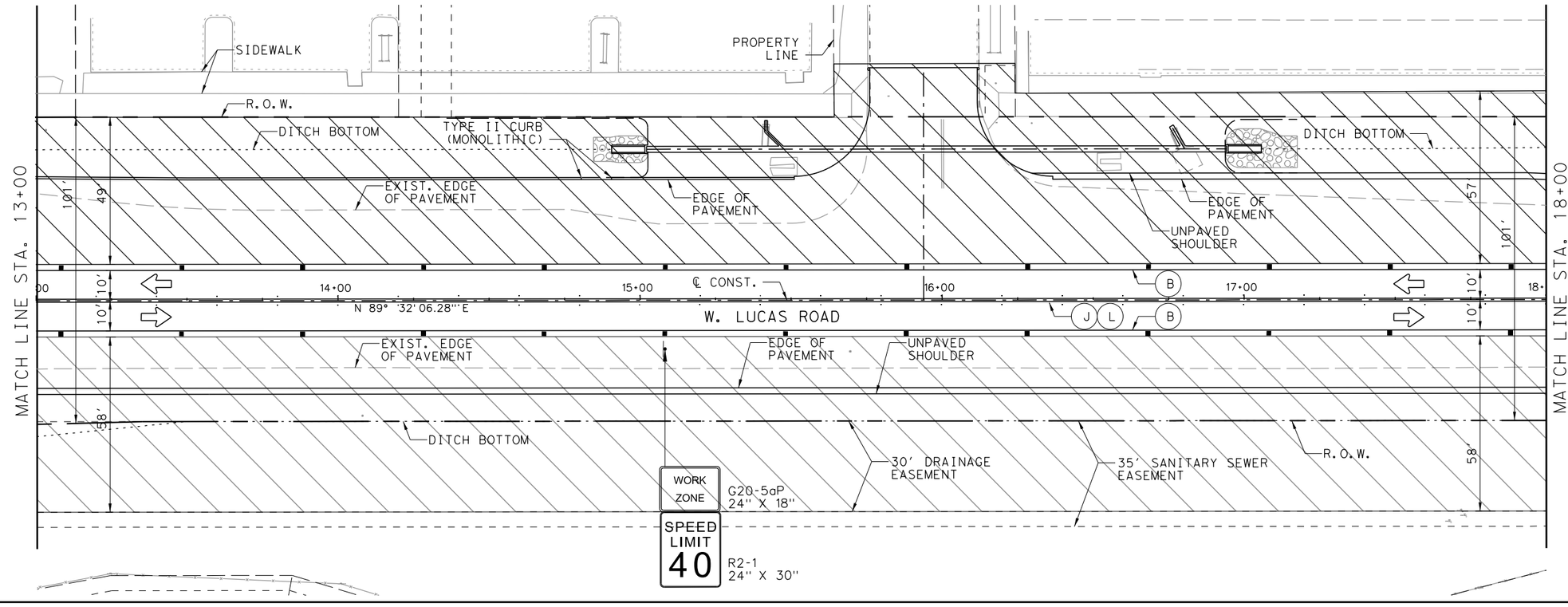
WORK ZONE PAVEMENT MARKING LEGEND:

COLOR/WIDTH/TYPE	EXIST. TO REMAIN	TEMPORARY	REMOVABLE
(W) (6") (SLD)	A	B	BR
(W) (24") (SLD)	C		
(W) (6") (BROKEN)	E		
(Y) (6") (SLD)	G	H	HR
(Y) (6") (BROKEN)	K	J	JR
(Y) (6") (SLD) (DOUBLE)	I		
R.P.M TYPE II-A-A @ 40' C-C		L	

LEGEND:

- PROPOSED CONSTRUCTION WORK ZONE - THIS PHASE
- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY CONSTRUCTION EXIT/ENTRANCE
- CONSTRUCTED PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT PLACED IN PREVIOUS PHASE





0 10 40
Feet

LEGEND:

- DIRECTION OF TRAFFIC
- PAVEMENT MARKINGS
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES

GENERAL NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. APPLY LEGEND AND SYMBOLS FROM THIS SHEET TO ALL SHEETS IN THIS PHASE.
3. CHANNELIZING DEVICE SPACING:

STRAIGHT LINE	40'
TAPERED LINE	20'
CURVED LINE	10'

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 1 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

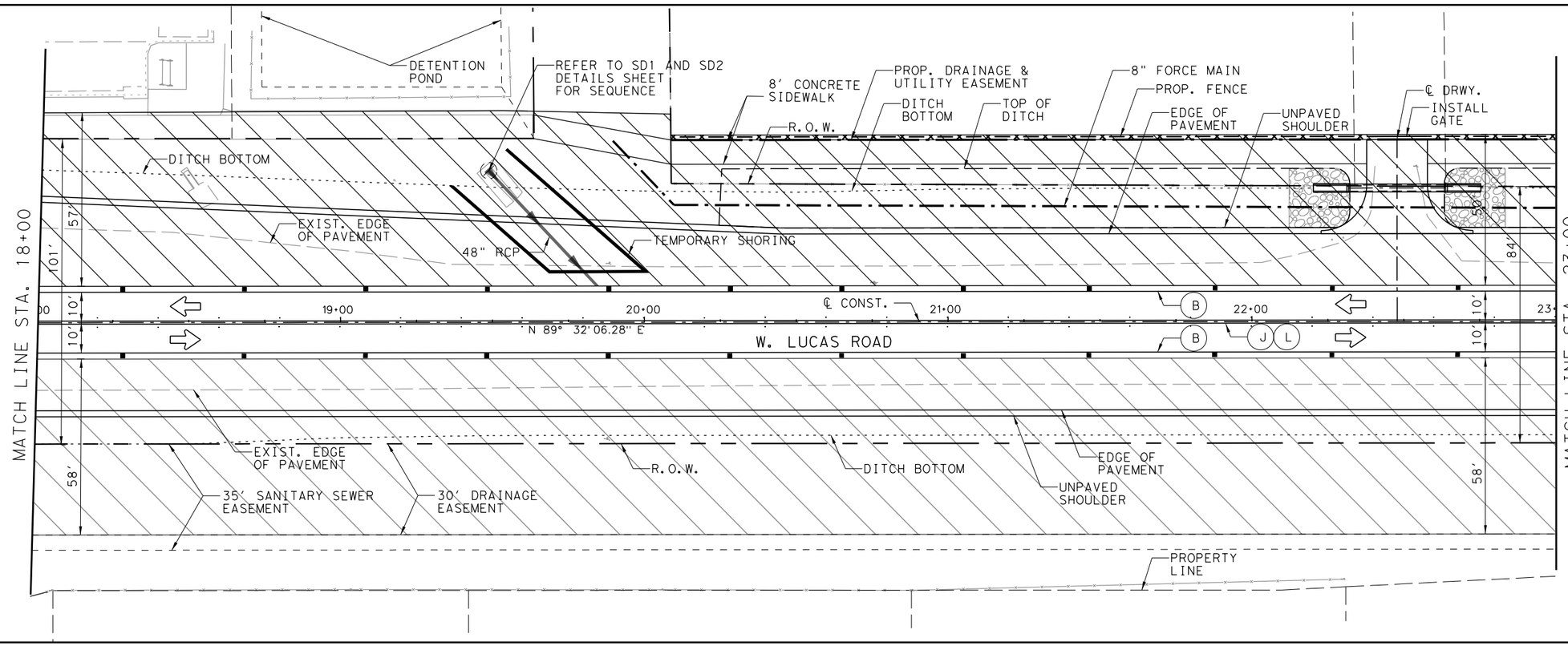
bc engineering
a PARSONS Company

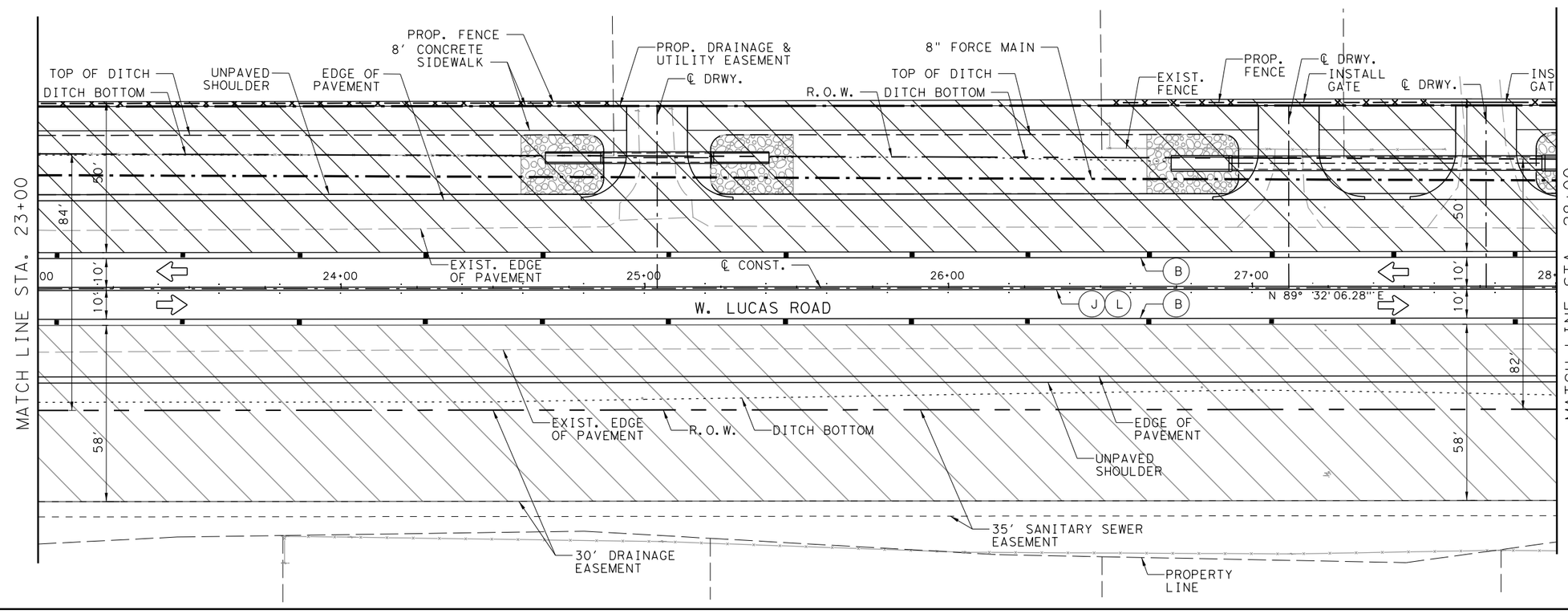
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		32
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:27 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_01.dgn





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 2 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

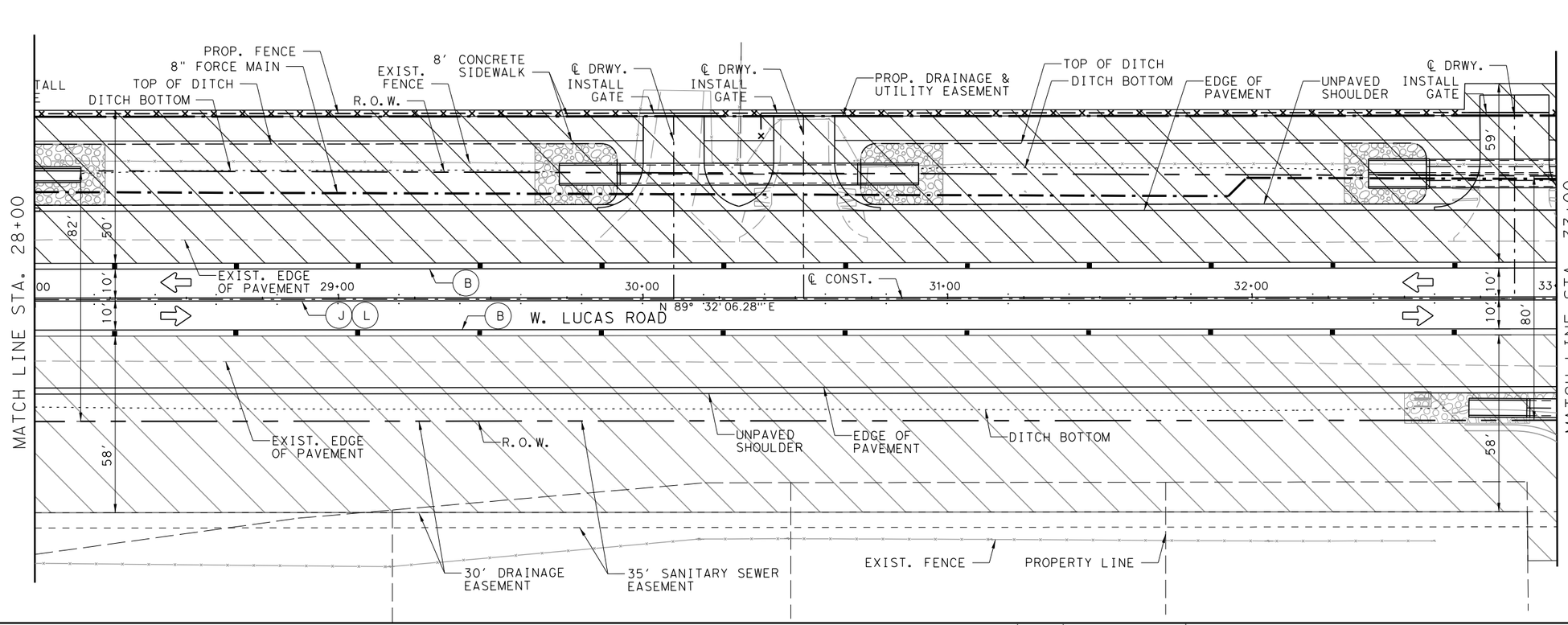
bc engineering
a PARSONS Company

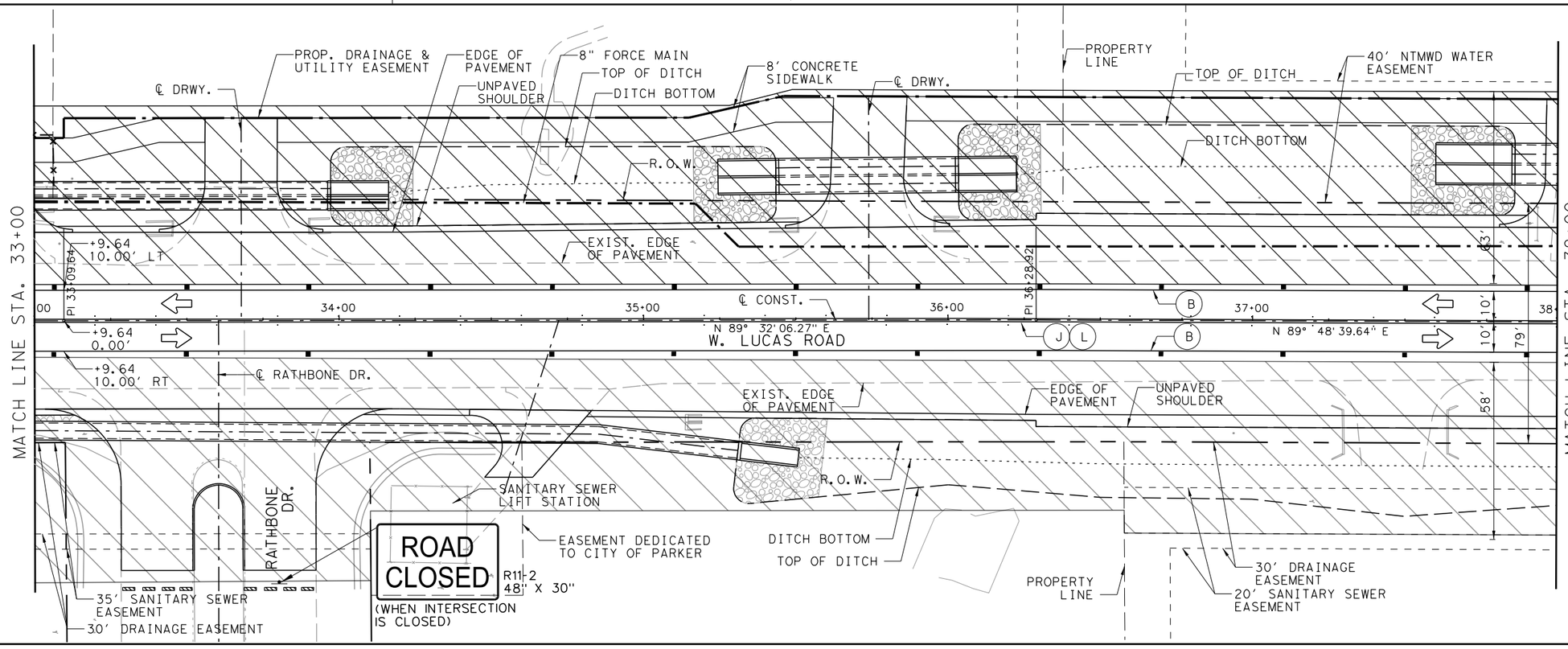
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		33
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:29 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_02.dgn





0 10 40
Feet

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 3 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

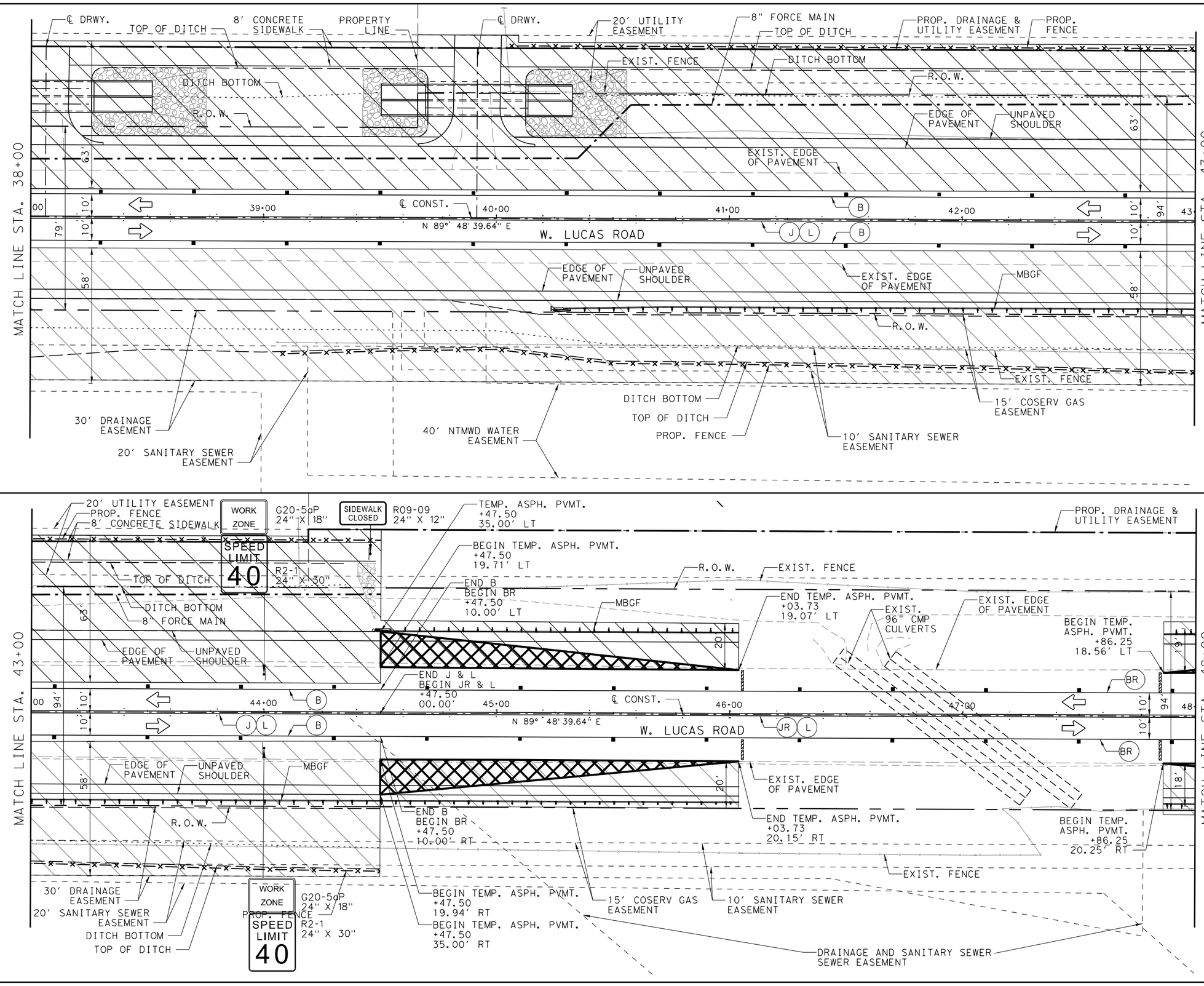
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		34
COLLIN		

DATE: 4/6/2026 1:51:32 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_03.dgn

Texas 811 Know what's below. Call before you dig.



W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 4 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

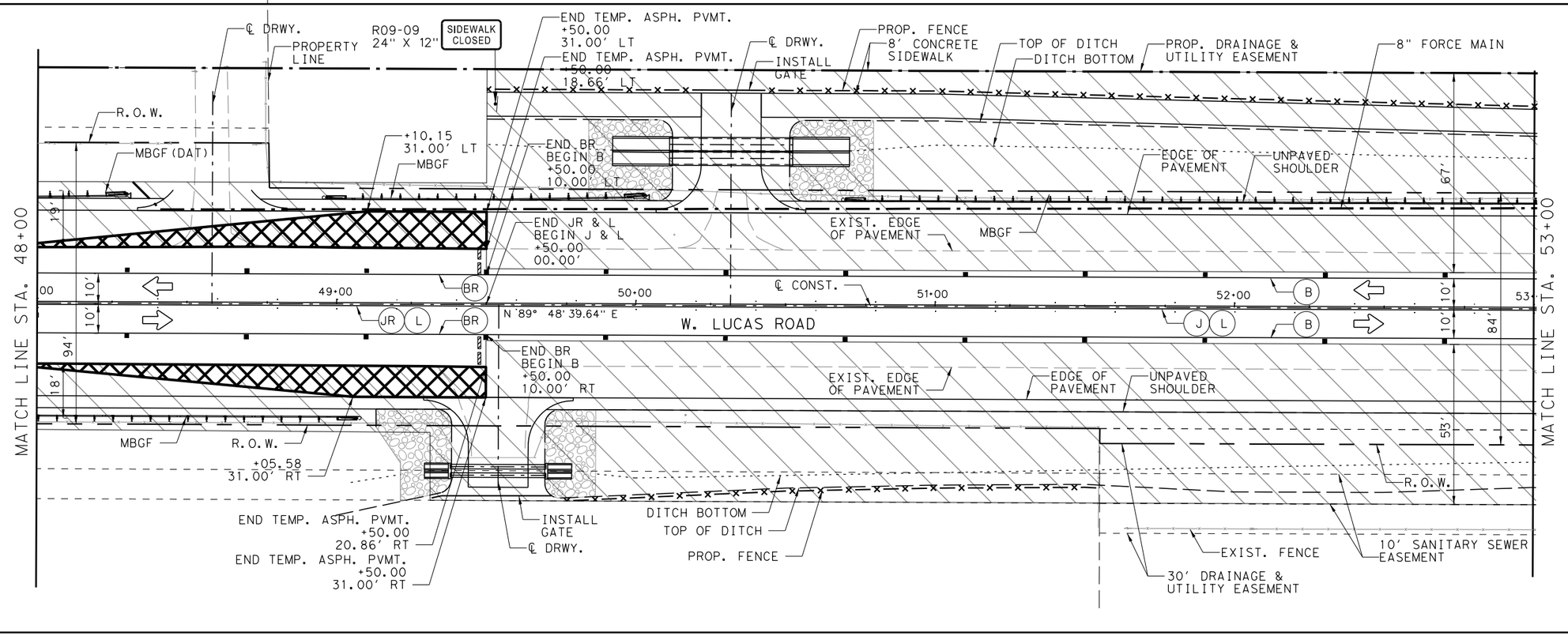
bc engineering
a PARSONS Company

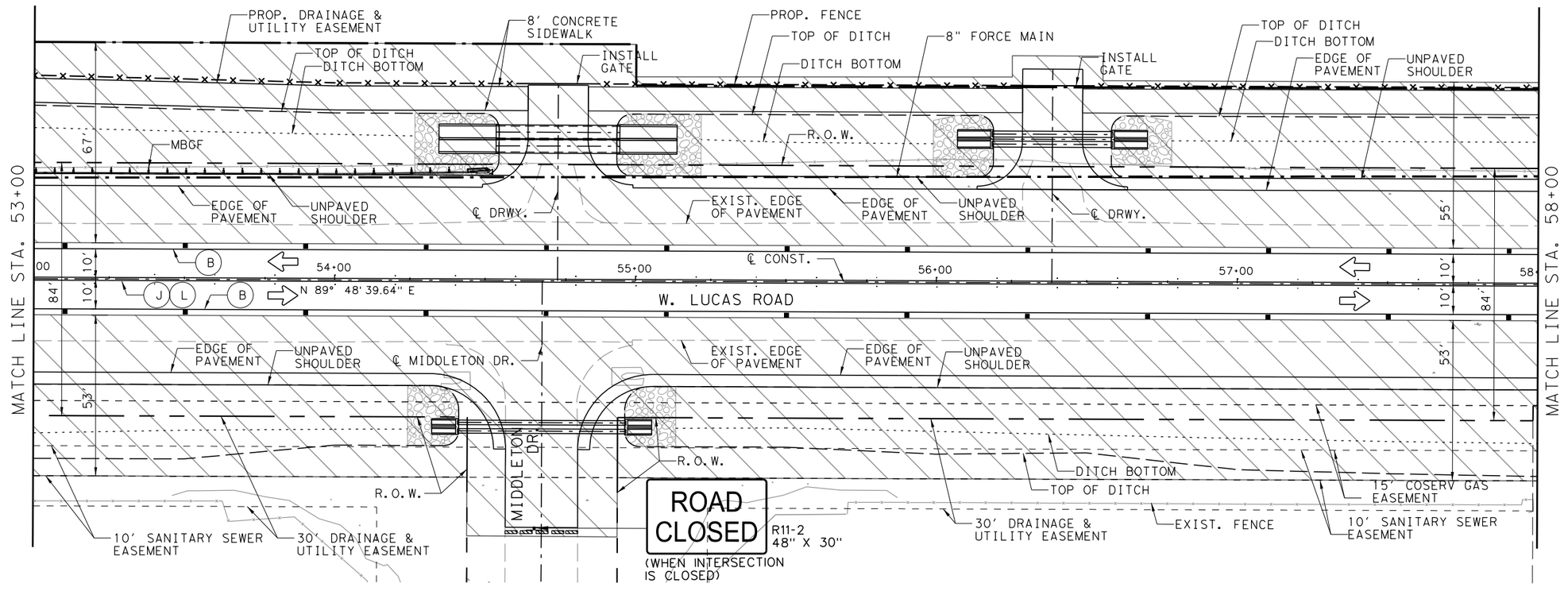
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		35
COLLIN		

DATE: 4/6/2026 1:51:34 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_04.dgn

Texas 811 Know what's below. Call before you dig.





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 5 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

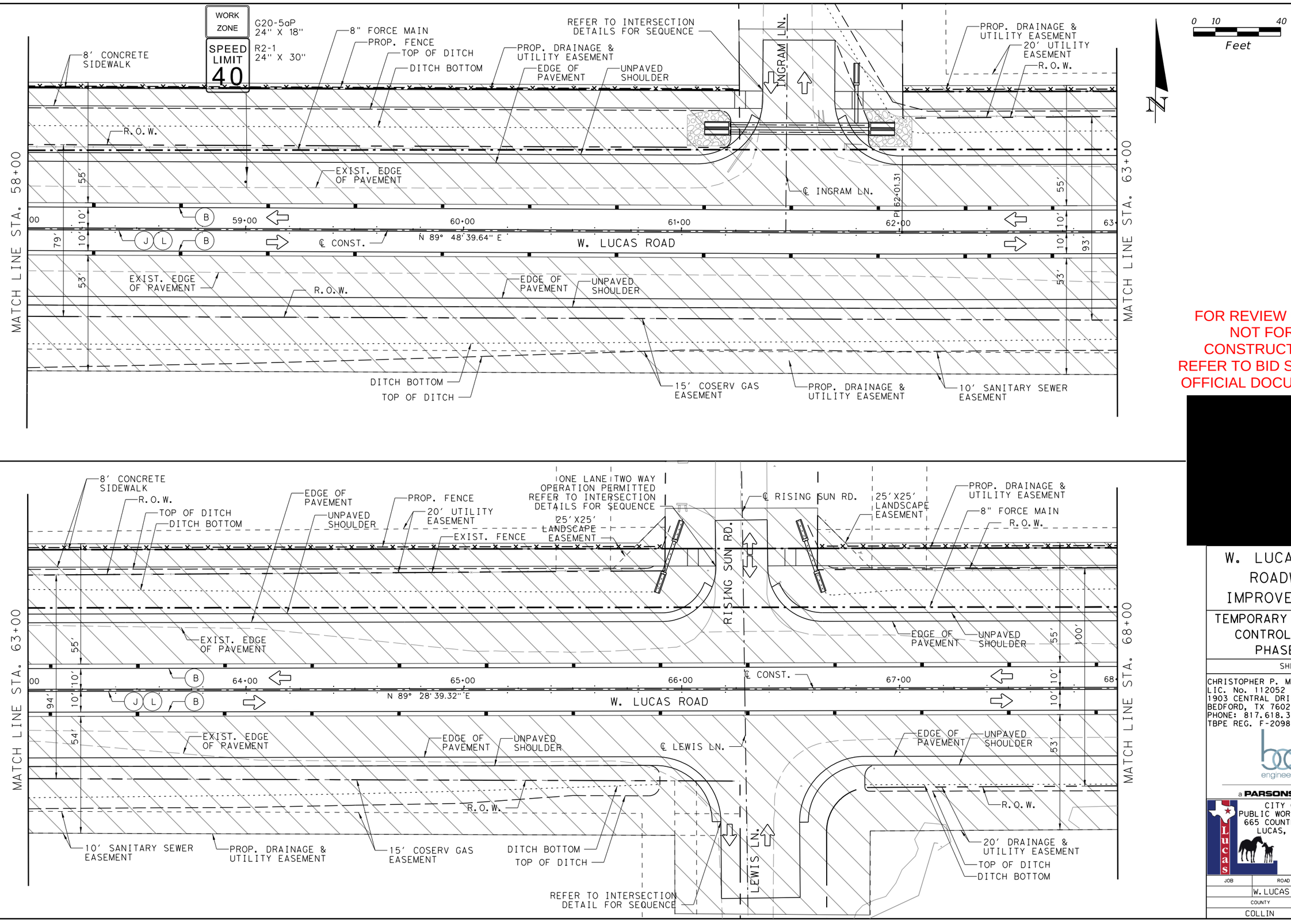
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		36
COLLIN		

DATE: 4/6/2026 1:51:36 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_05.dgn

Texas811 Know what's below. Call before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 6 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

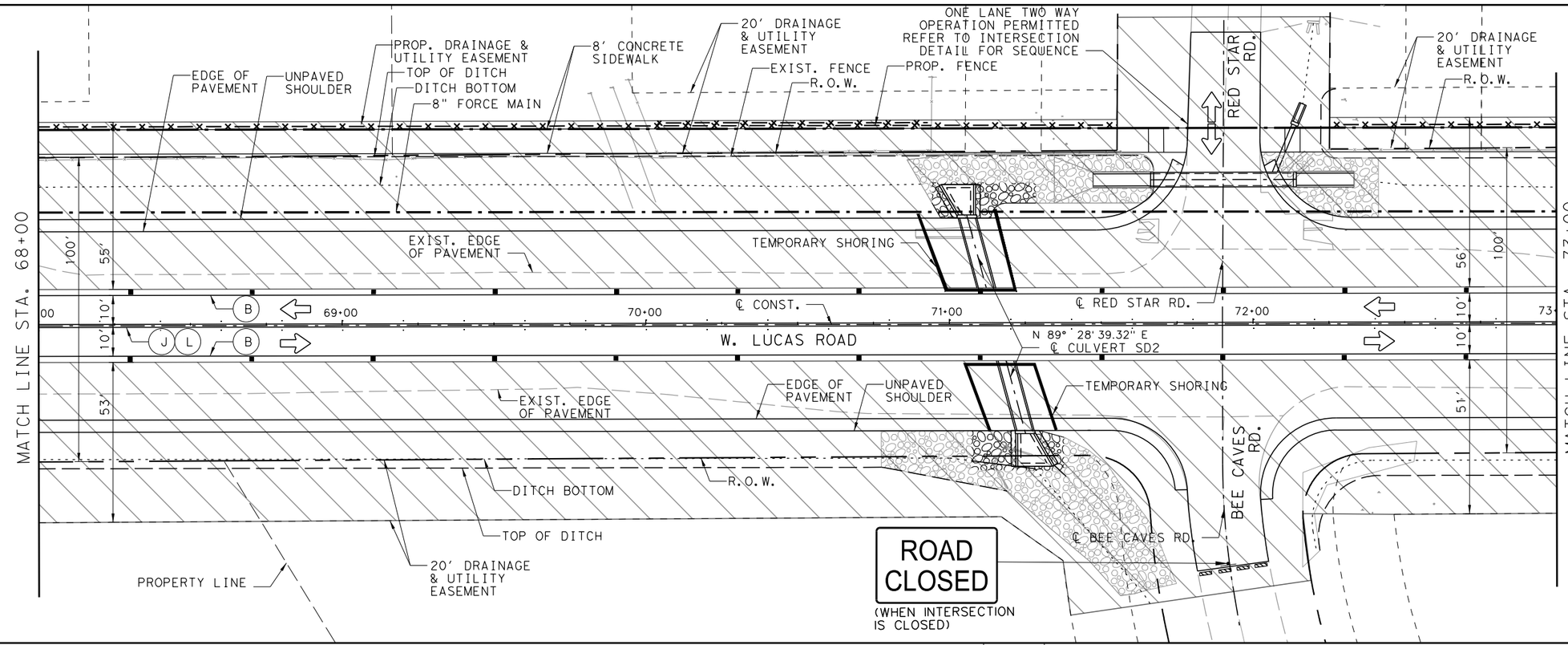
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		37
COLLIN		

DATE: 4/6/2026 1:51:39 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_06.dgn

Texas 811 Know what's below. Call before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 7 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

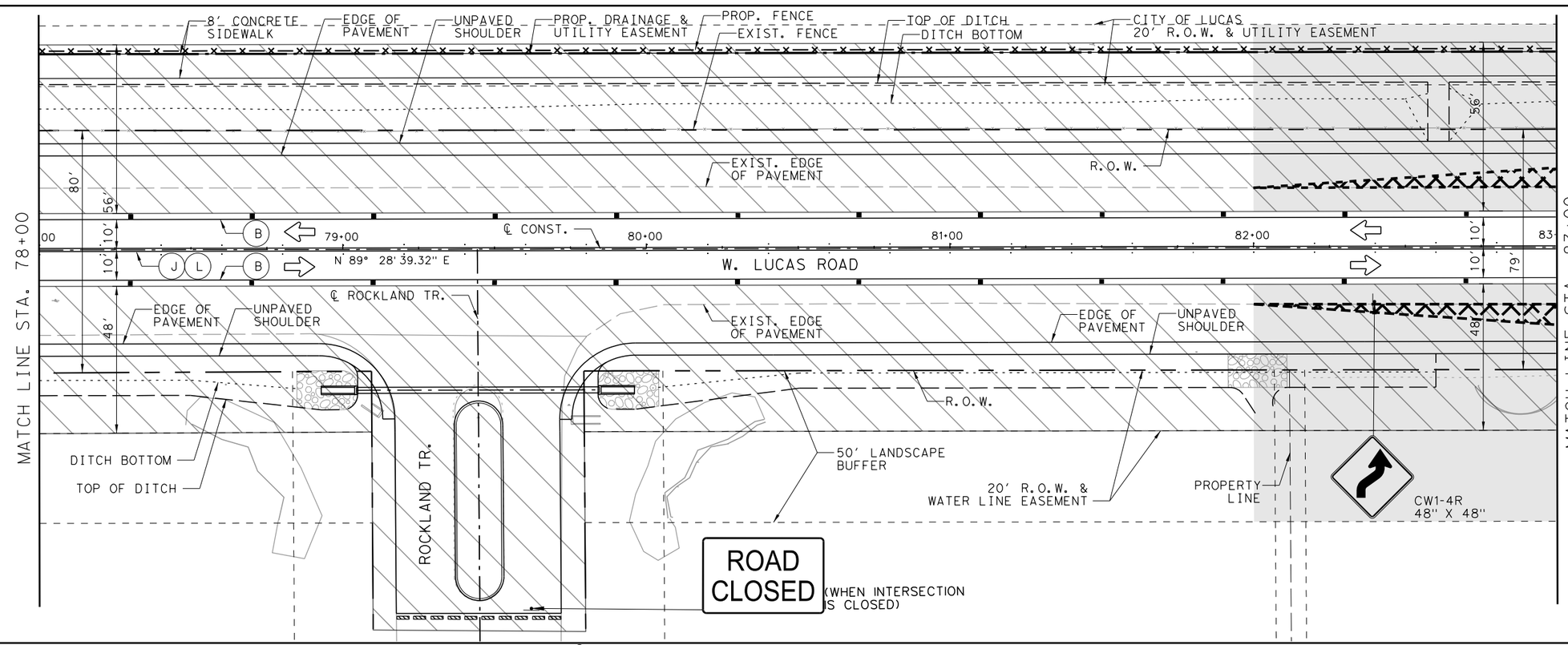
bc engineering
a PARSONS Company

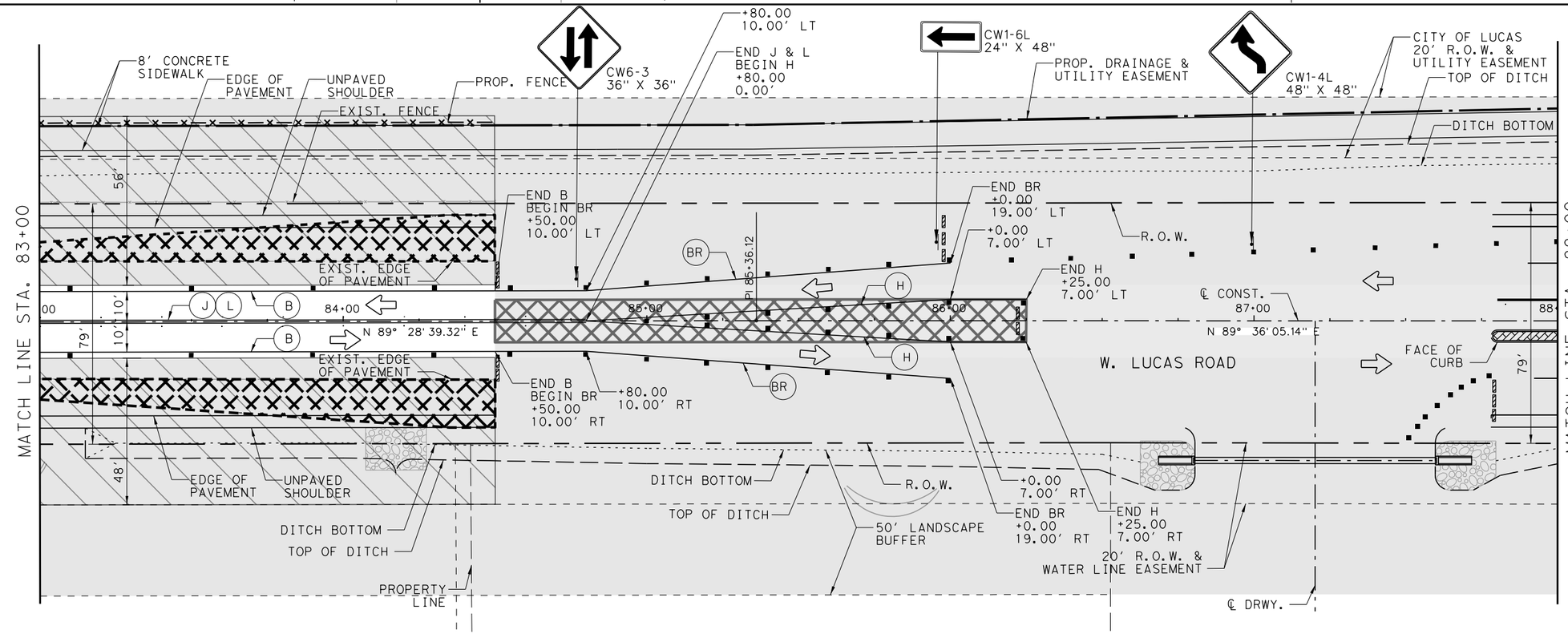
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		38
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:41 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_07.dgn





NOTES:

1. END TEMPORARY REMOVABLE PAVEMENT MARKINGS AT STA. 86+00
2. BEGIN PERMANENT PAVEMENT MARKINGS FROM STA. 87+75 TO THE END OF PROJECT.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 8 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

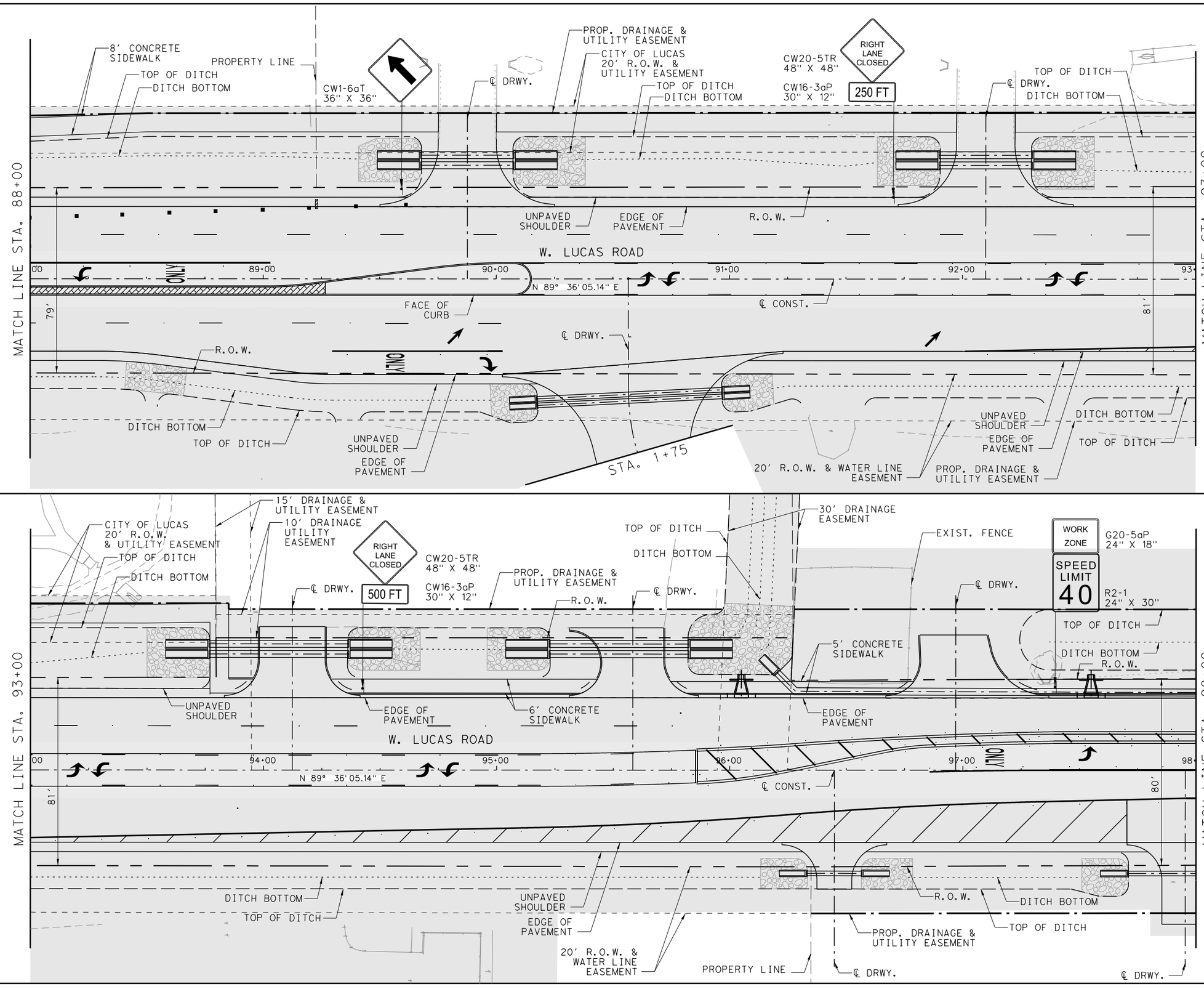
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		39
COLLIN		

DATE: 4/6/2026 1:51:43 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_08.dgn

Texas 811 Know what's below. Call before you dig.



W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 9 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

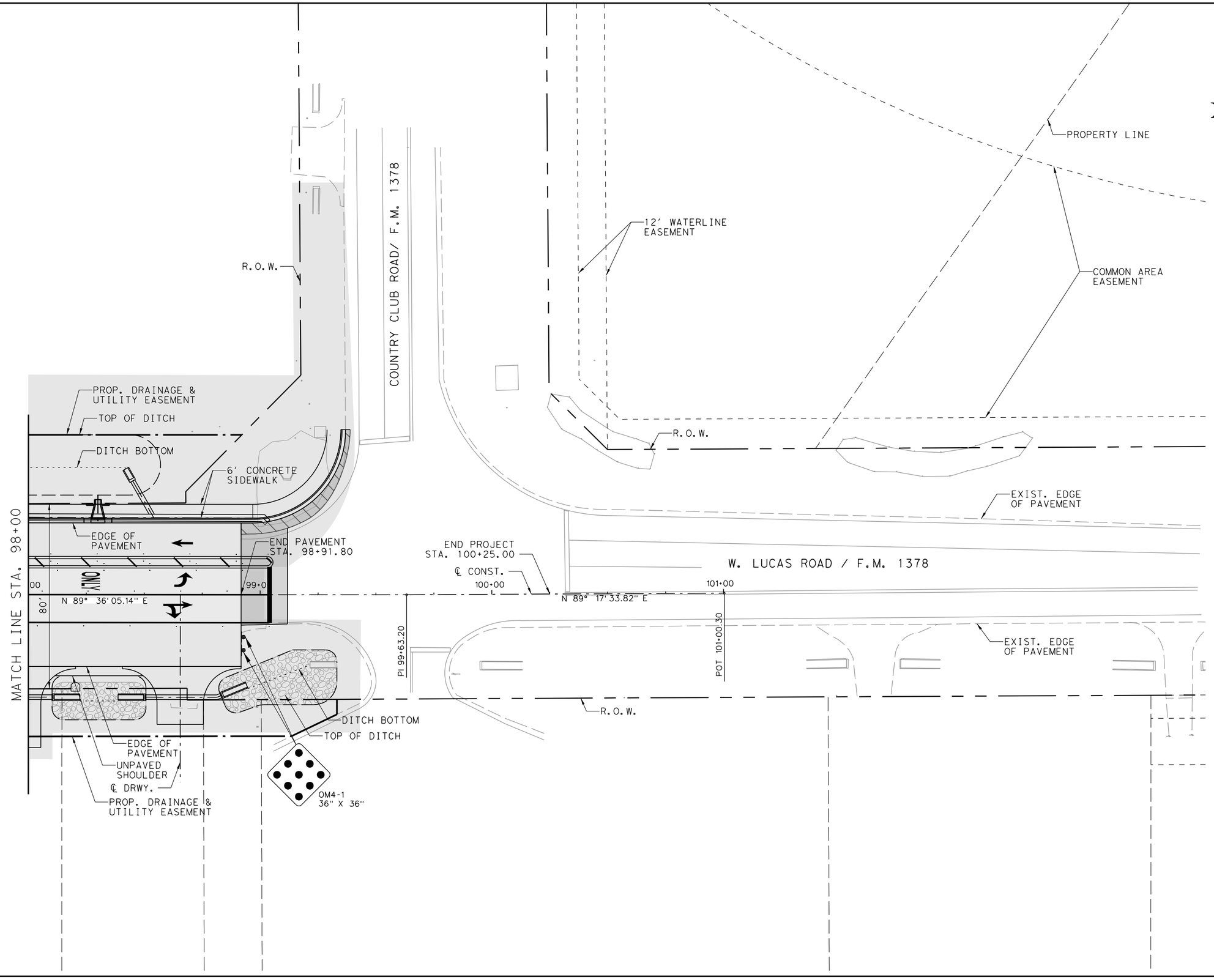
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		40
COLLIN		

DATE: 4/6/2026 1:51:45 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_09.dgn

Texas 811 Know what's below. Call before you dig.



NOTES:

1. FOR SIGNAL PHASING, COORDINATE WITH TXDOT.
2. ANY CONFLICTING SIGN MUST BE REMOVED OR COVERED.
3. PAVEMENT MARKINGS SHOWN ARE PERMANENT PAVEMENT MARKINGS.
4. SEE SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKINGS DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 3

SHEET 10 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	41
COUNTY		
COLLIN		

DATE: 4/6/2026 1:51:47 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH3_10.dgn

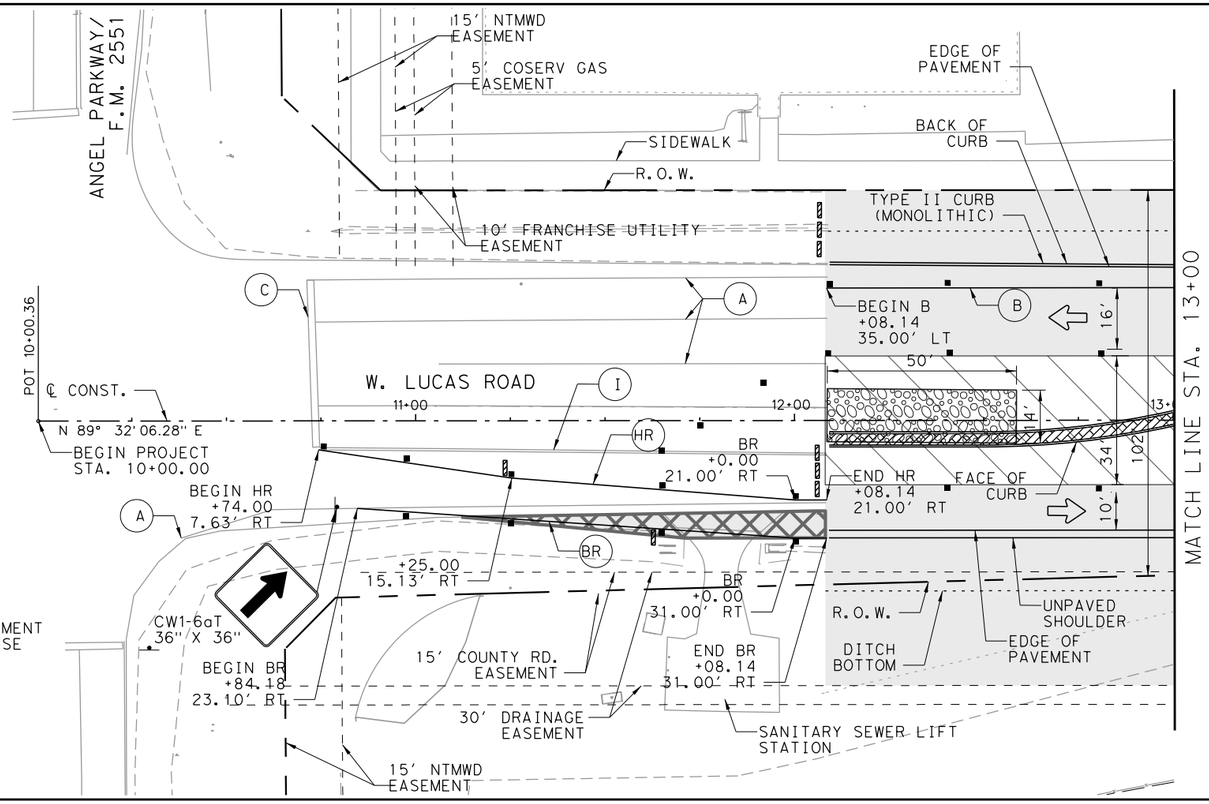
Texas 811 Know what's below. Call before you dig.

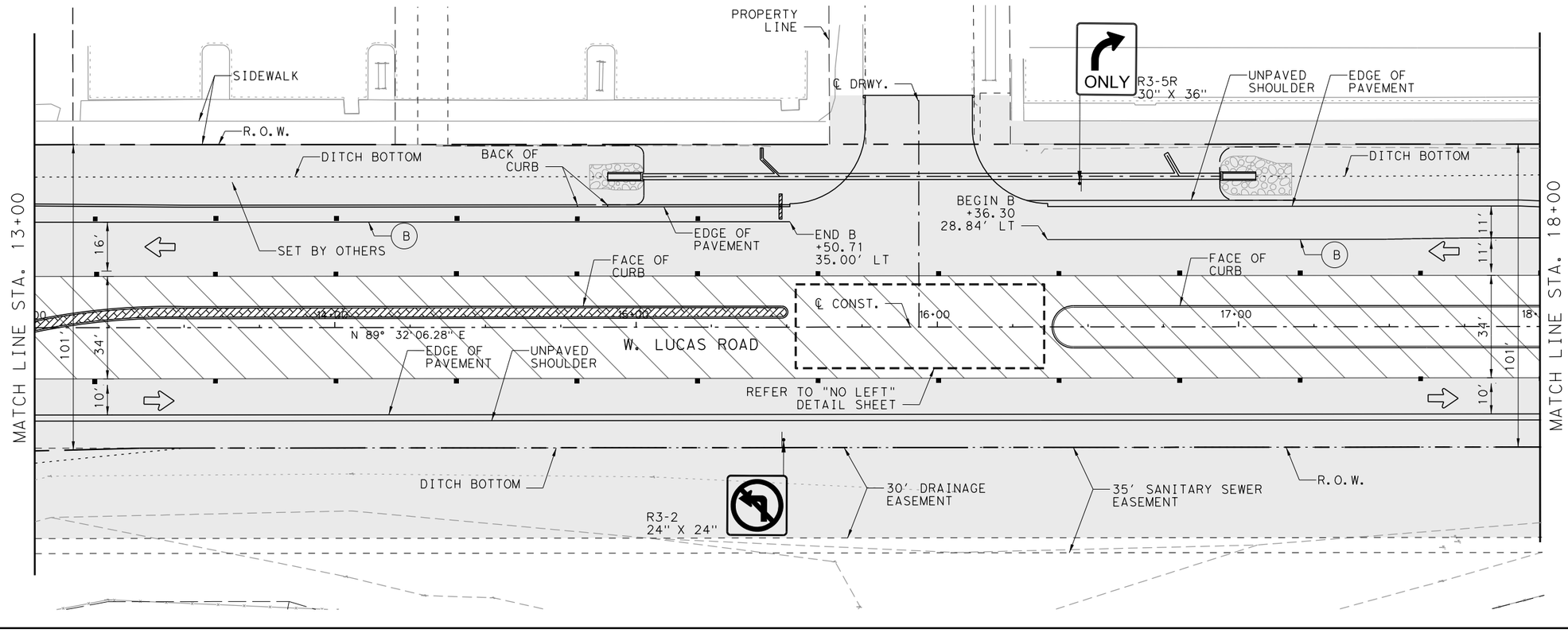
WORK ZONE PAVEMENT MARKING LEGEND:

COLOR/WIDTH/TYPE	EXIST. TO REMAIN	TEMPORARY	REMOVABLE
(W) (6") (SLD)	A	B	BR
(W) (24") (SLD)	C		
(W) (6") (BROKEN)	E		
(Y) (6") (SLD)	G	H	HR
(Y) (6") (BROKEN)	K	J	JR
(Y) (6") (SLD) (DOUBLE)	I		
R.P.M TYPE II-A-A @ 40' C-C		L	

LEGEND:

- PROPOSED CONSTRUCTION WORK ZONE - THIS PHASE
- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY CONSTRUCTION EXIT/ENTRANCE
- CONSTRUCTED PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT PLACED IN PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT REMOVAL





0 10 40
Feet

LEGEND:

- DIRECTION OF TRAFFIC
- PAVEMENT MARKINGS
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES

GENERAL NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. APPLY LEGEND AND SYMBOLS FROM THIS SHEET TO ALL SHEETS IN THIS PHASE.
3. CHANNELIZING DEVICE SPACING:

STRAIGHT LINE	40'
TAPERED LINE	20'
CURVED LINE	10'

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 1 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

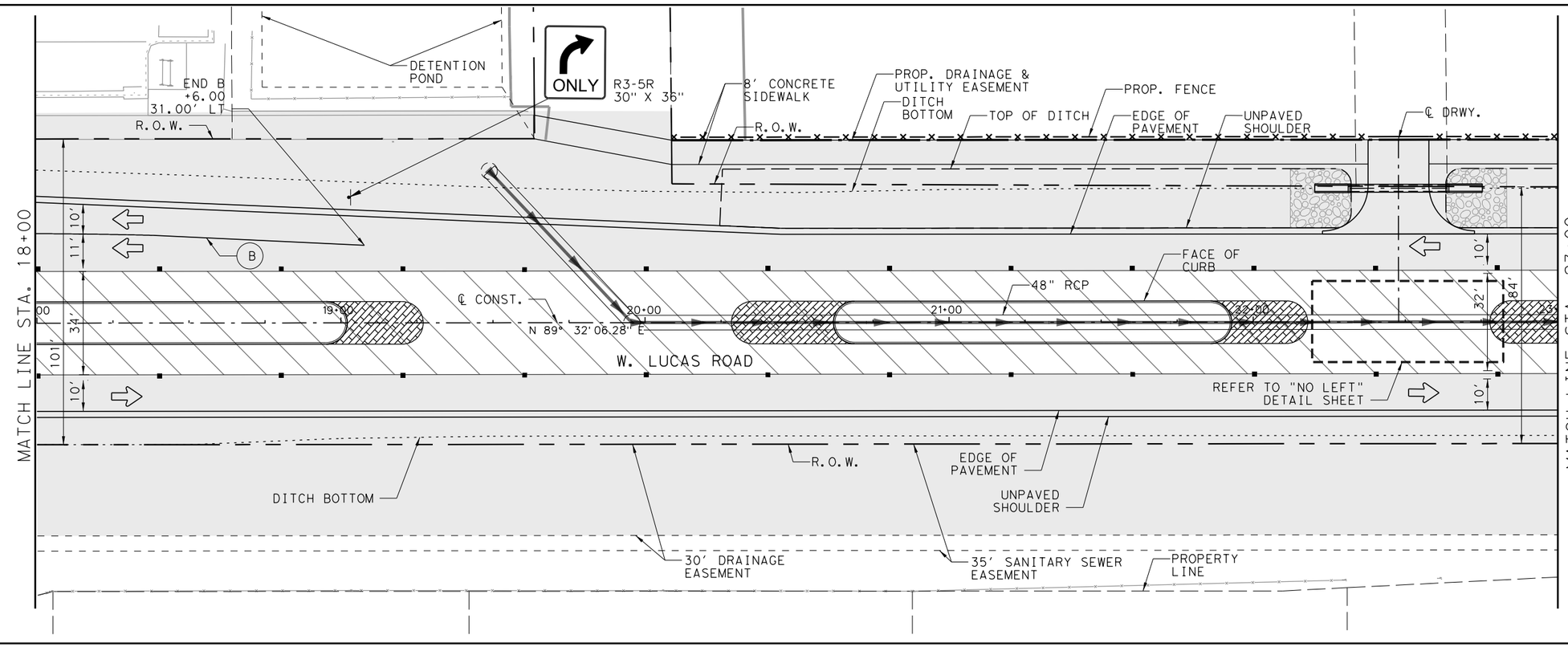
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		42
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:51:49 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_01.dgn



DATE: 4/6/2026 1:51:51 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_02.dgn

Texas 811 Know what's below. Call before you dig.

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

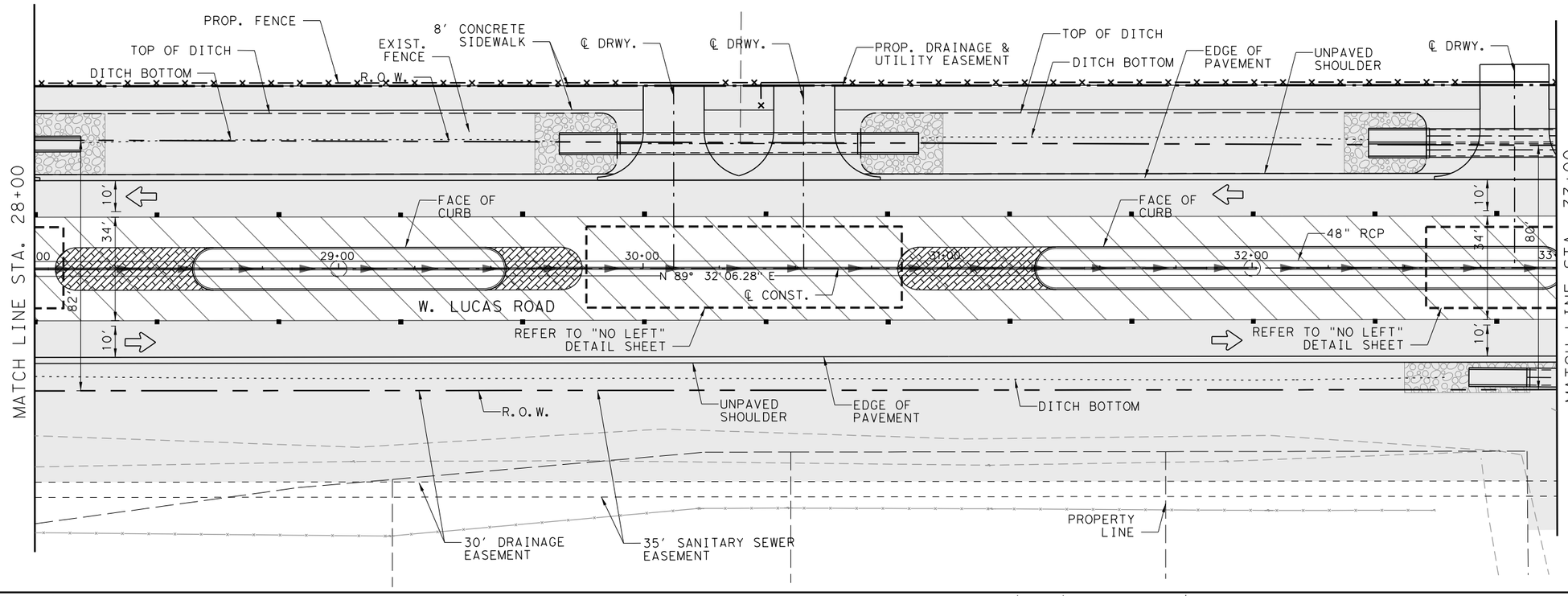
SHEET 2 OF 10

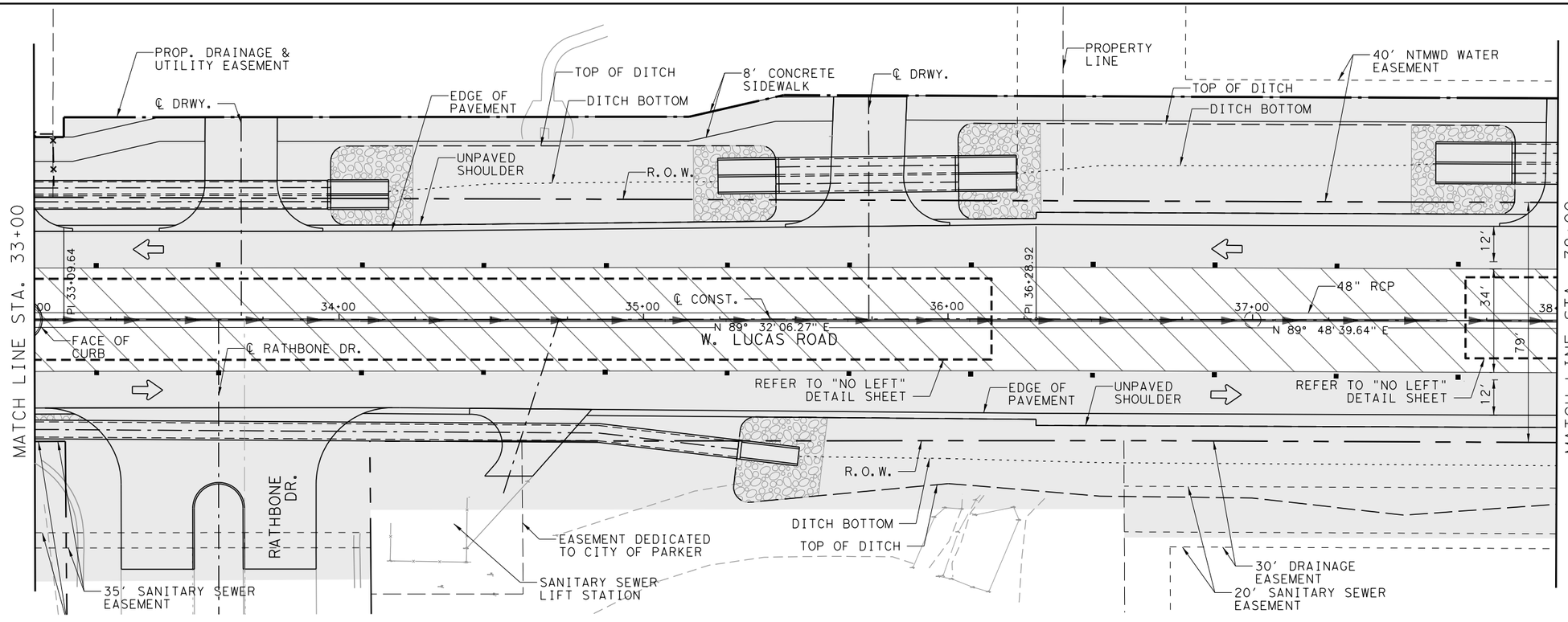
CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		43
COLLIN		





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 3 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

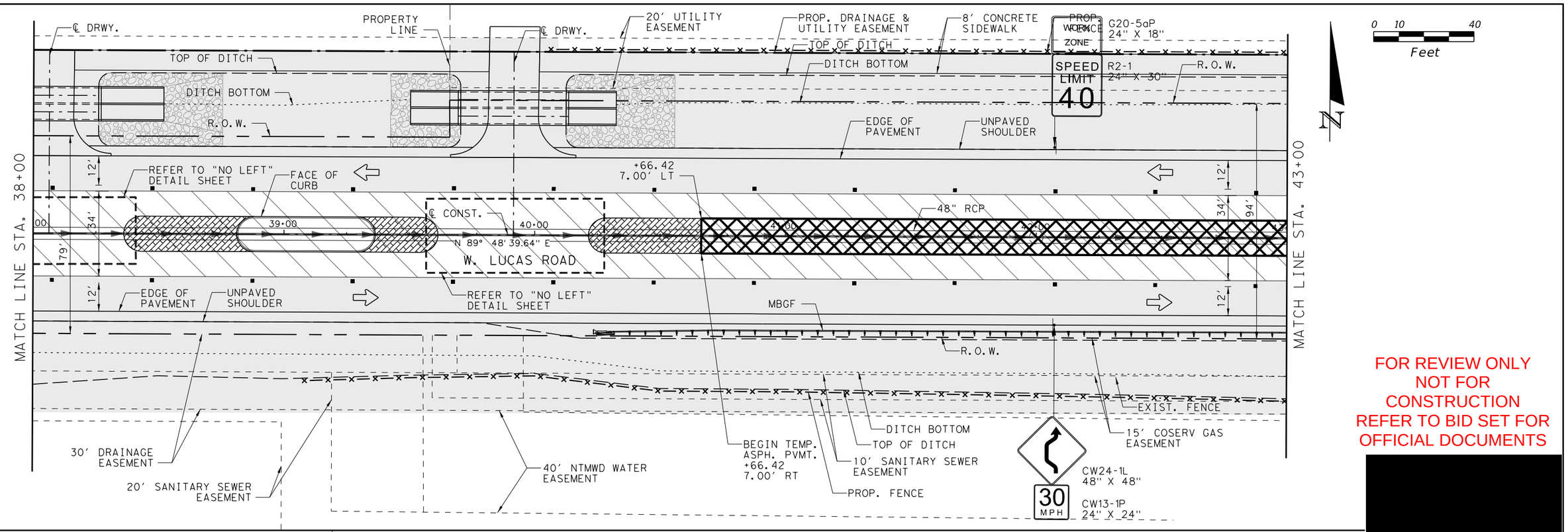
bc engineering
a PARSONS Company

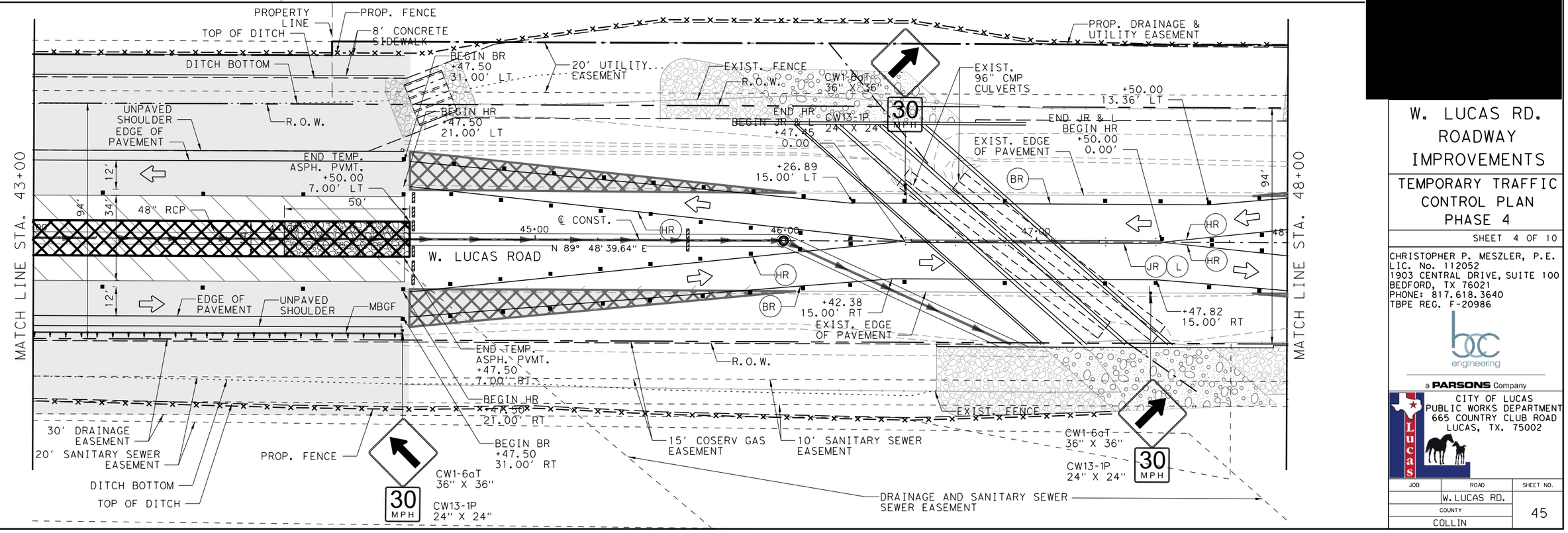
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		44
COLLIN		

DATE: 4/6/2026 1:51:52 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_03.dgn

Texas 811 Know what's below. Call before you dig.





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 4 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

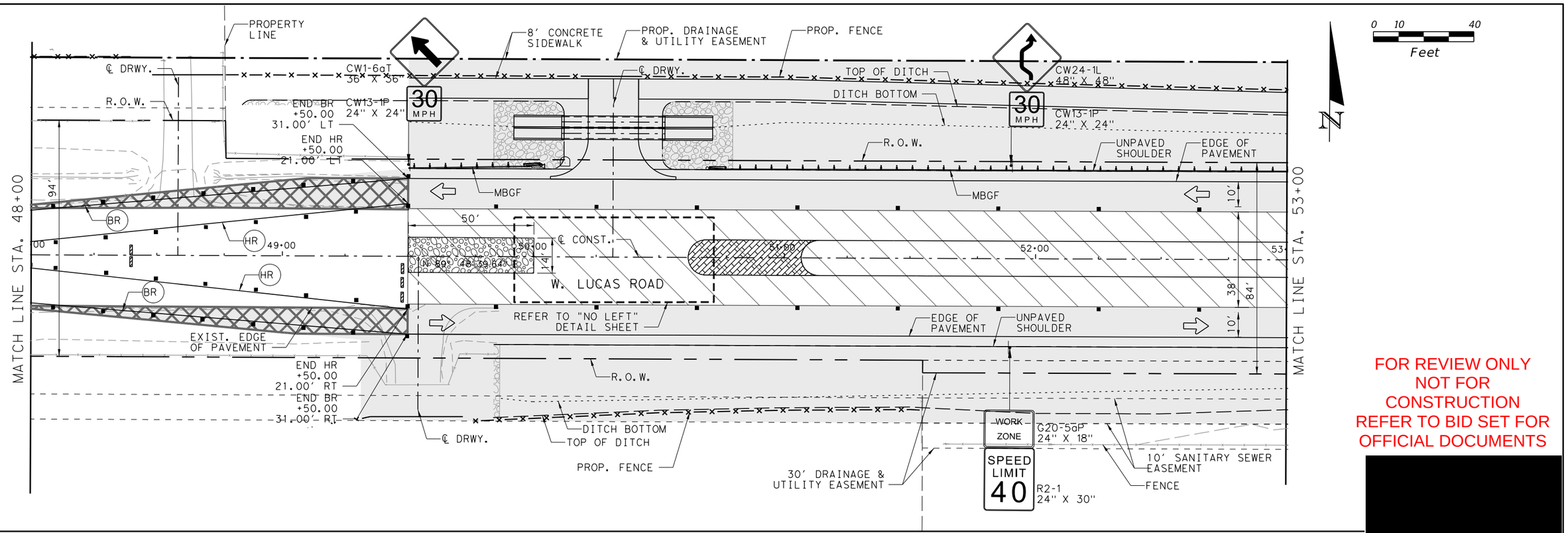
bc engineering
a PARSONS Company

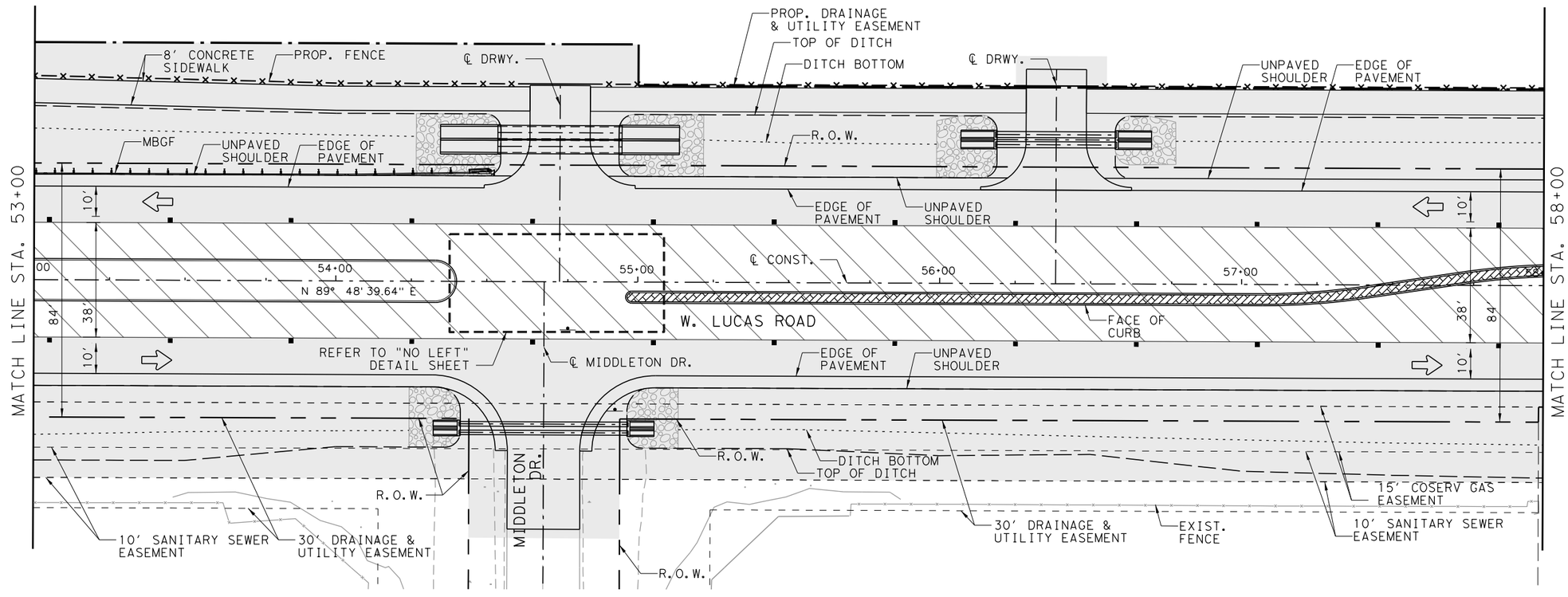
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		45
COLLIN		

DATE: 4/6/2026 1:51:54 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_04.dgn

Texas 811 Know what's below. Call before you dig.





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 5 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

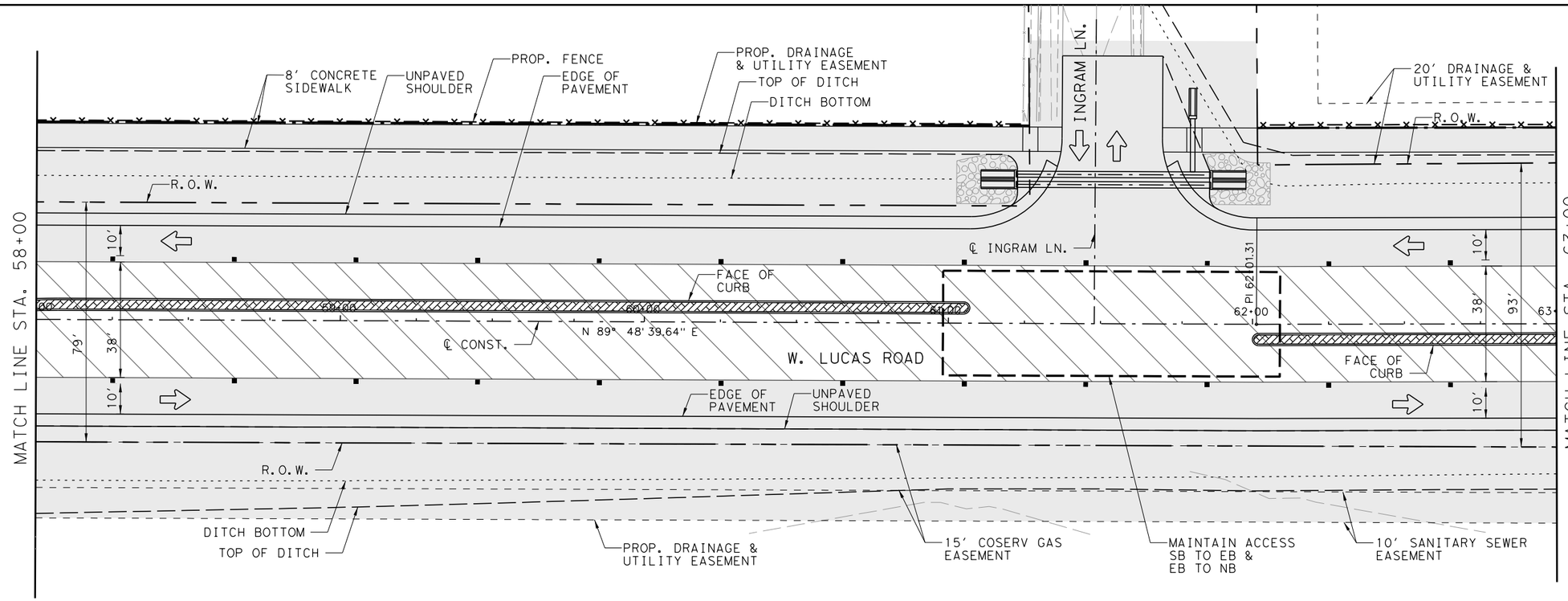
bc engineering
a PARSONS Company

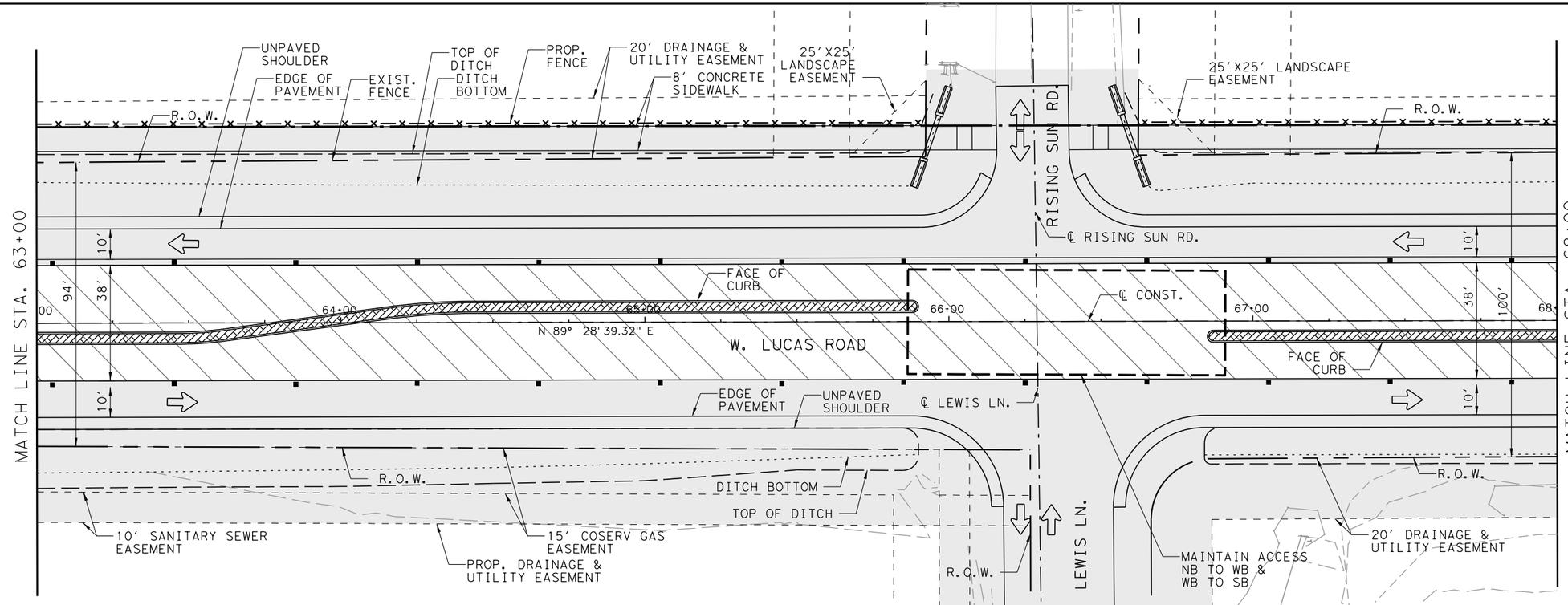
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		46
COLLIN		

DATE: 4/6/2026 1:51:56 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_05.dgn

Texas 811 Know what's below. Call before you dig.





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 6 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

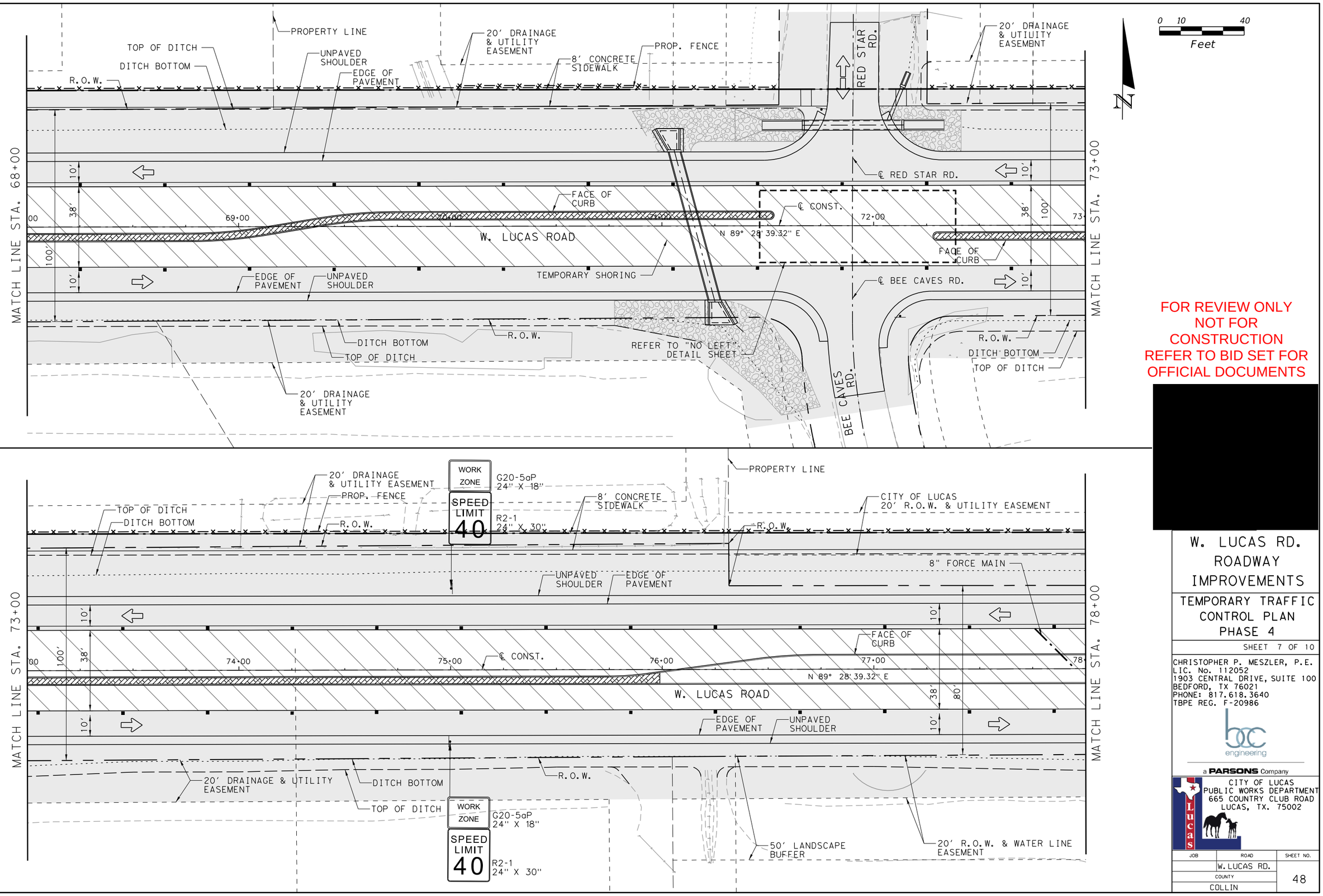
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		47
COLLIN		

DATE: 4/6/2026 1:51:58 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_06.dgn

Texas 811 Know what's below. Call before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 7 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

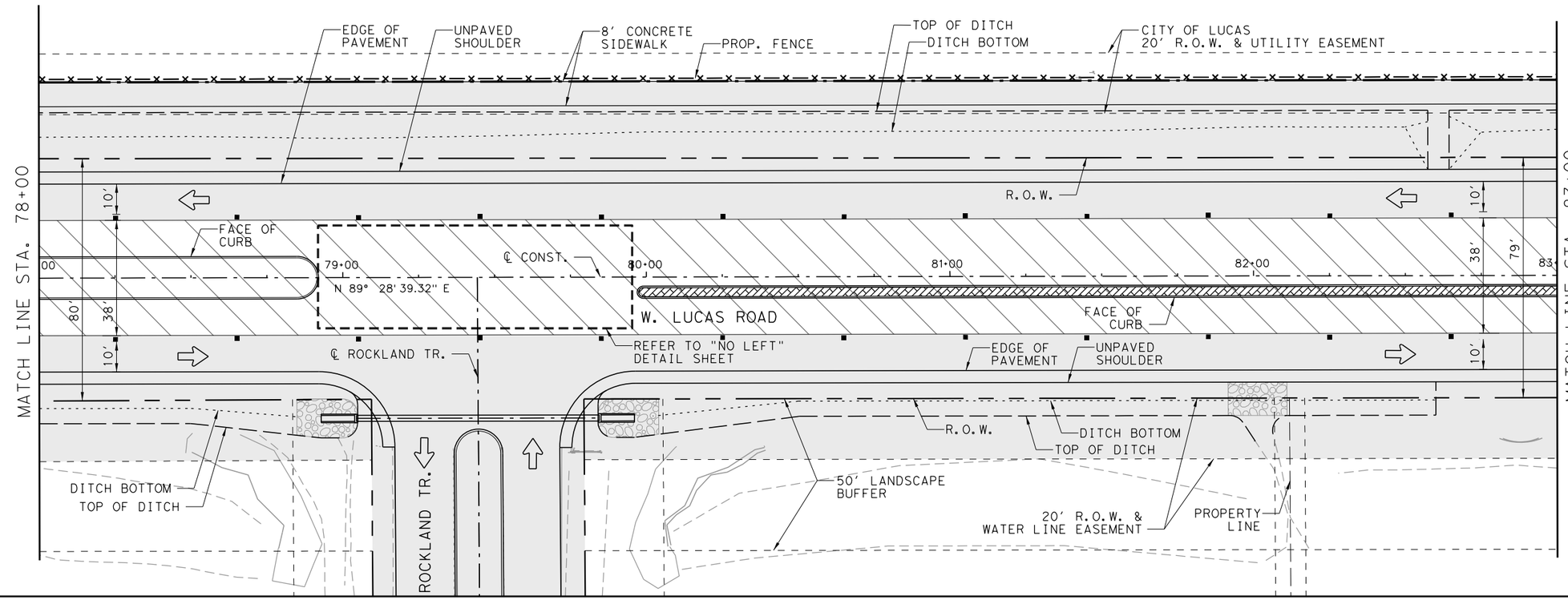
bc engineering
a PARSONS Company

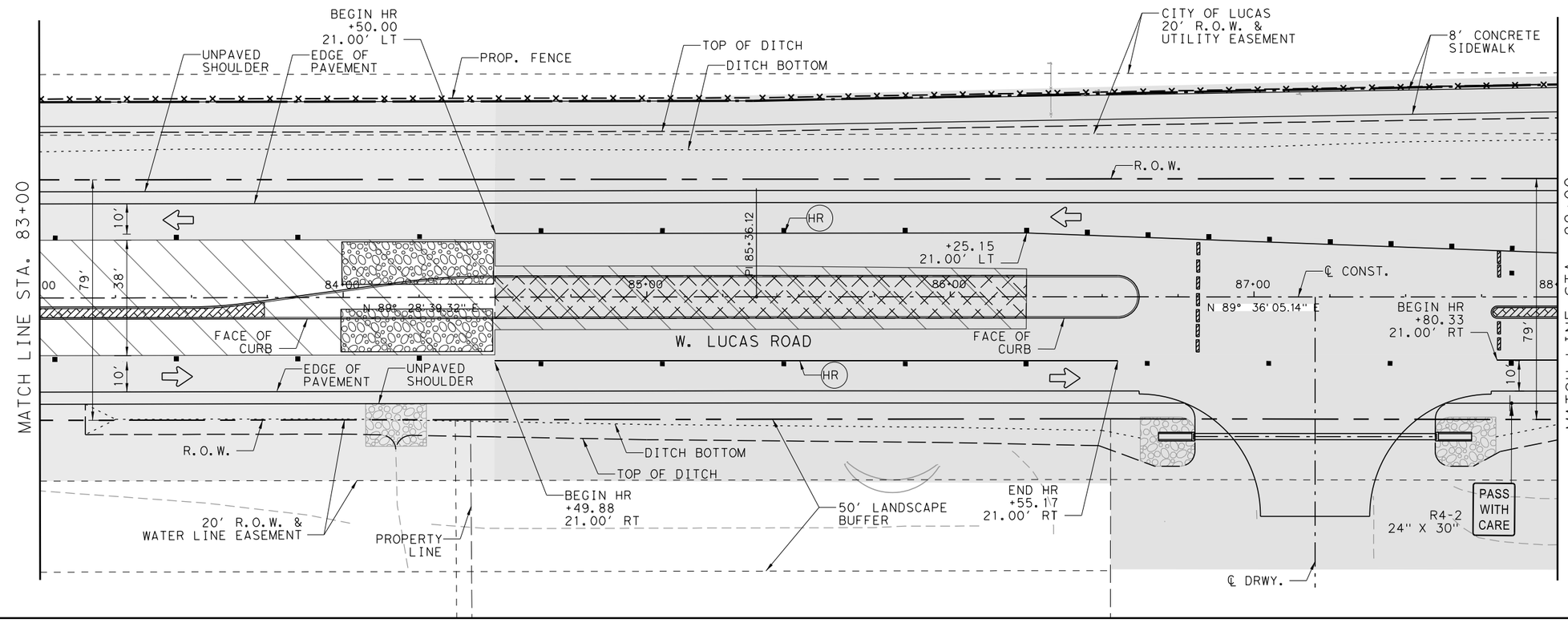
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		48
COLLIN		

DATE: 4/6/2026 1:51:59 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_07.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 8 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

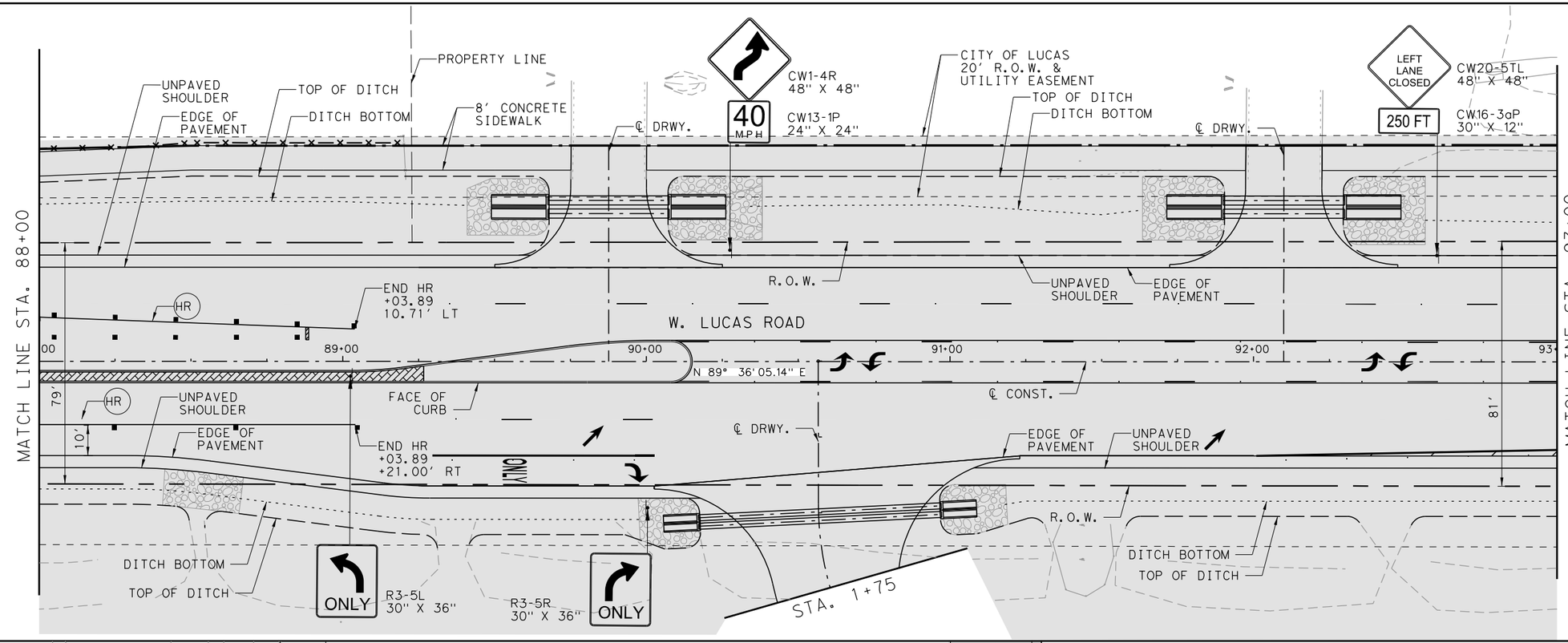
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		49
COLLIN		

DATE: 4/6/2026 1:52:01 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_08.dgn

Texas 811 Know what's below. Call before you dig.



W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 9 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

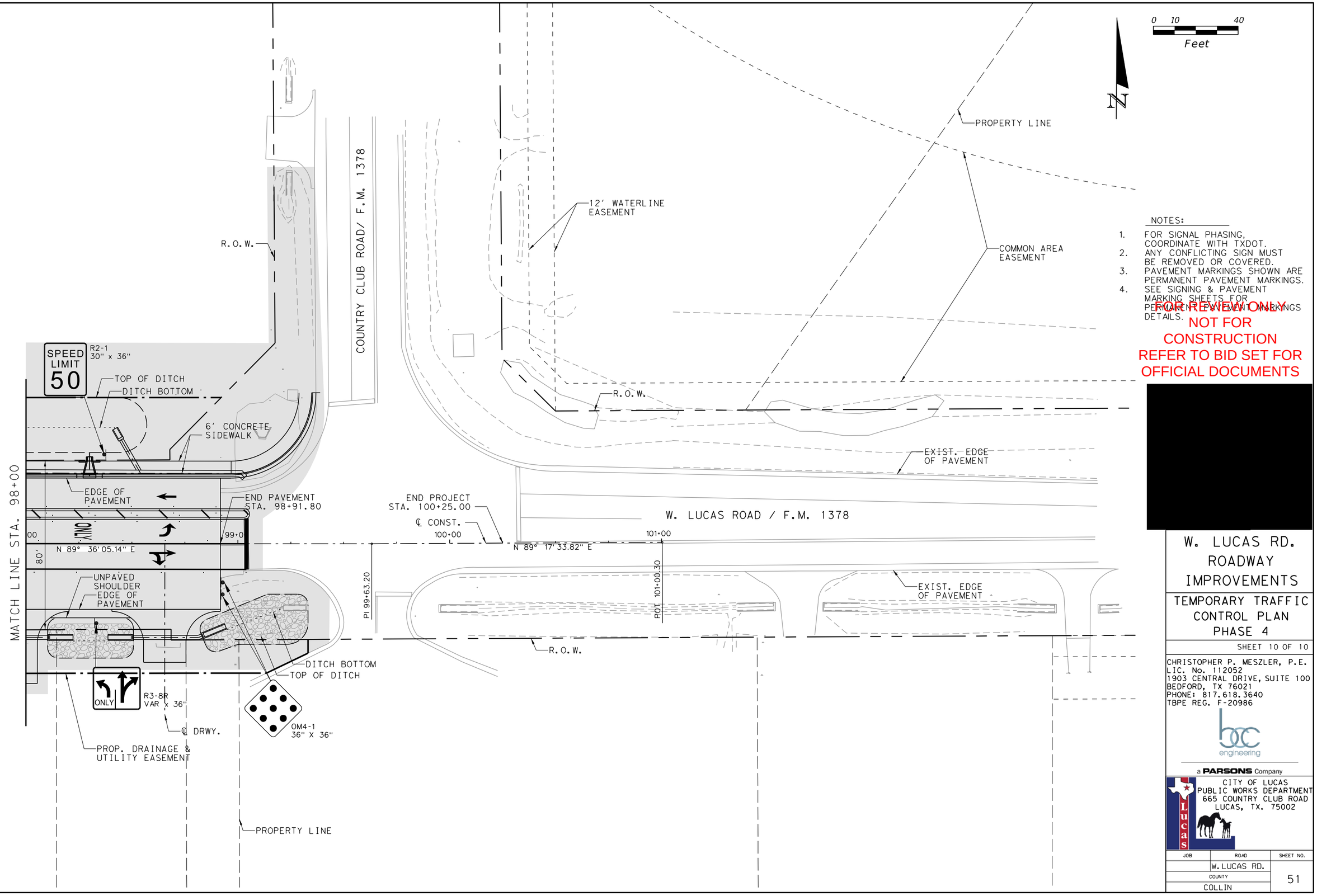
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		50
COLLIN		

DATE: 4/6/2026 1:52:03 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_09.dgn

Texas 811 Know what's below. Call before you dig.



NOTES:

1. FOR SIGNAL PHASING, COORDINATE WITH TXDOT.
2. ANY CONFLICTING SIGN MUST BE REMOVED OR COVERED.
3. PAVEMENT MARKINGS SHOWN ARE PERMANENT PAVEMENT MARKINGS.
4. SEE SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKINGS DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 4

SHEET 10 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	51
COUNTY		
COLLIN		

DATE: 4/6/2026 1:52:04 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH4_10.dgn

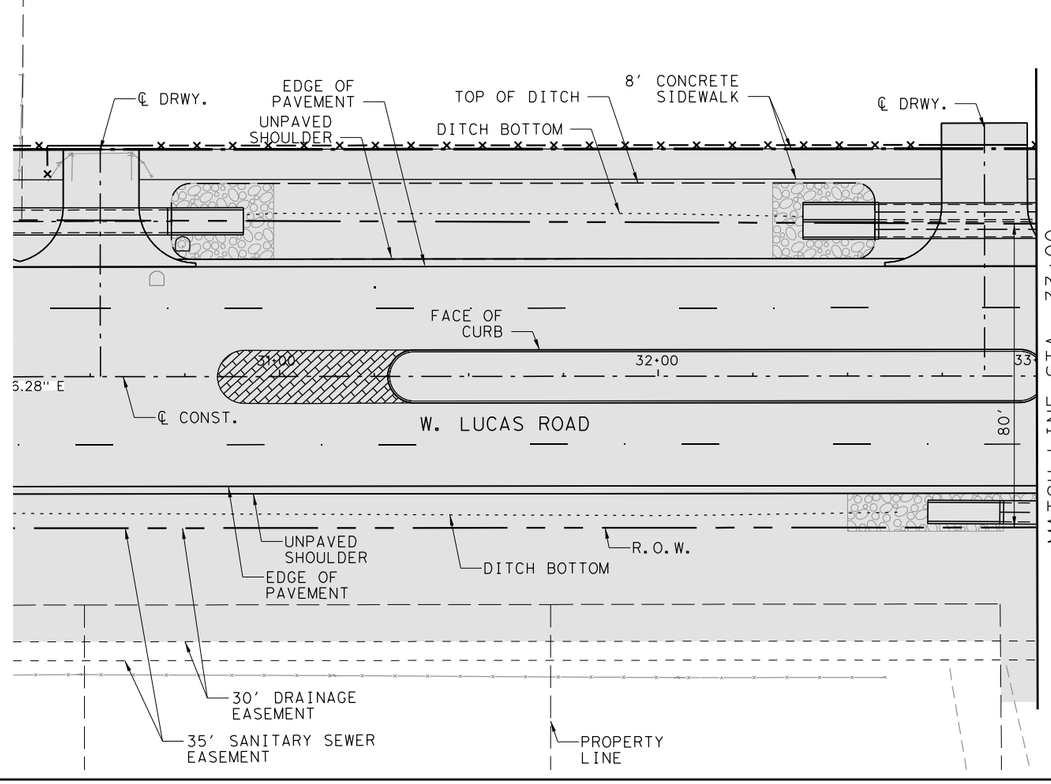
Texas811 Know what's below. Call before you dig.

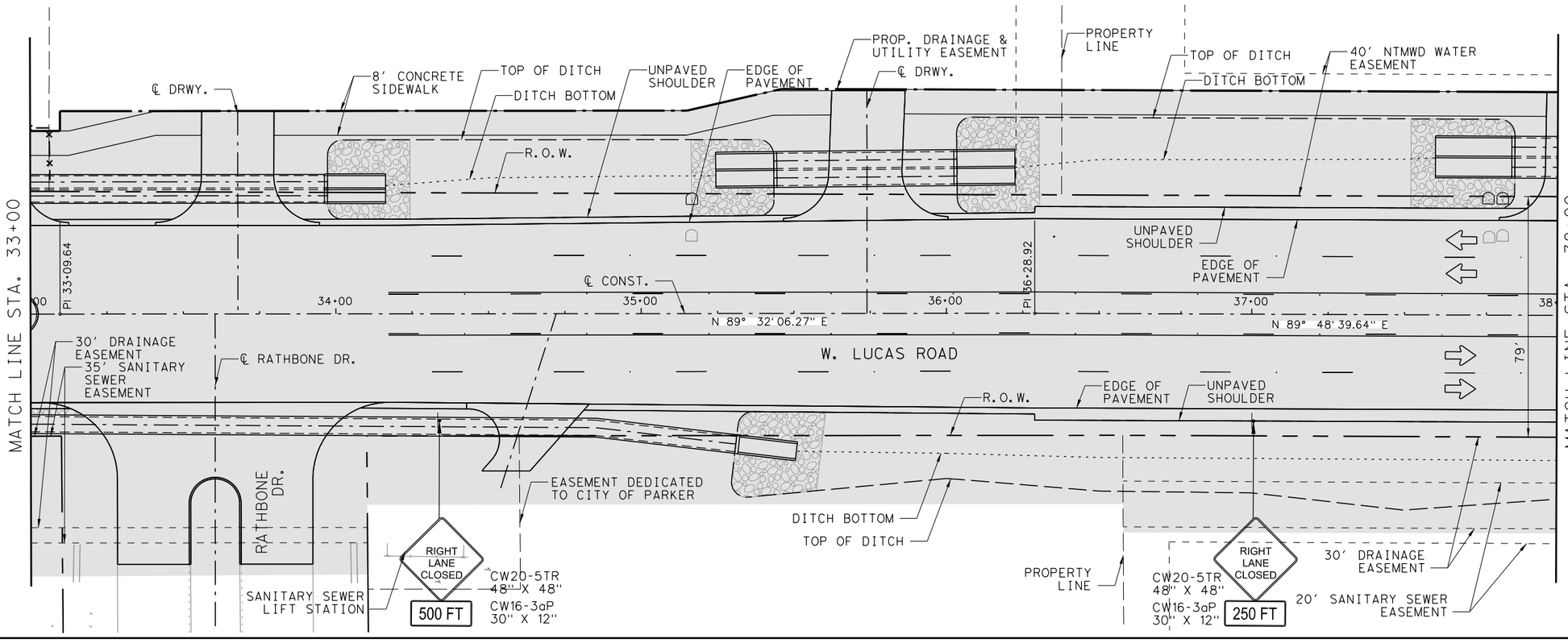
WORK ZONE PAVEMENT MARKING LEGEND:

COLOR/WIDTH/TYPE	EXIST. TO REMAIN	TEMPORARY	REMOVABLE
(W) (6") (SLD)	(A)	(B)	(BR)
(W) (24") (SLD)	(C)		
(W) (6") (BROKEN)	(E)		
(Y) (6") (SLD)	(G)	(H)	(HR)
(Y) (6") (BROKEN)	(K)	(J)	(JR)
(Y) (6") (SLD) (DOUBLE)	(I)		
R.P.M TYPE II-A-A @ 40' C-C		(L)	

LEGEND:

- PROPOSED CONSTRUCTION WORK ZONE - THIS PHASE
- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY CONSTRUCTION EXIT/ENTRANCE
- CONSTRUCTED PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT PLACED IN PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT REMOVAL





0 10 40
Feet

N

LEGEND:

- DIRECTION OF TRAFFIC
- PAVEMENT MARKINGS
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES
- CONCRETE SAFETY BARRIERS (F-SHAPED)

GENERAL NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. APPLY LEGEND AND SYMBOLS FROM THIS SHEET TO ALL SHEETS IN THIS PHASE.
3. CHANNELIZING DEVICE SPACING:

   STRAIGHT LINE - 40'
   TAPERED LINE - 20'
   CURVED LINE - 10'

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 5

SHEET 1 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

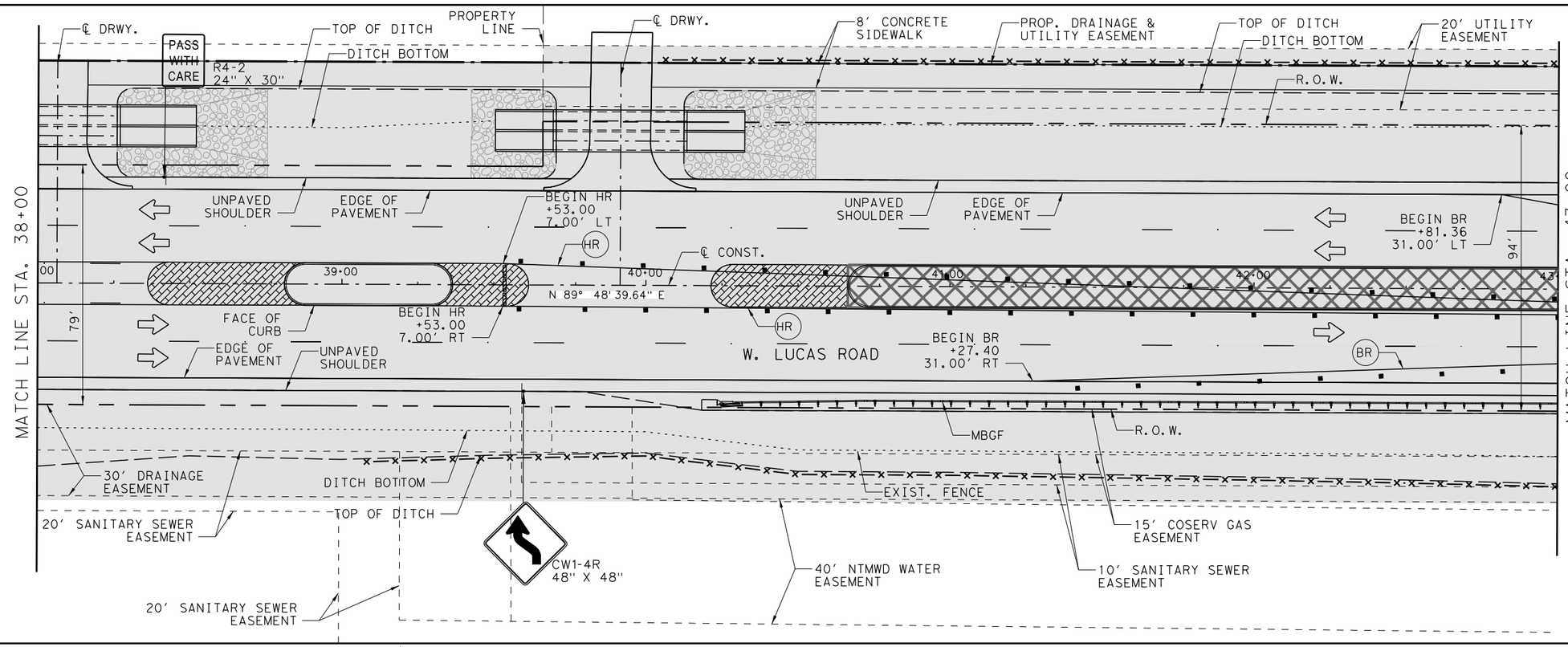
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		52
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:52:06 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH5_03.dgn



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 5

SHEET 2 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

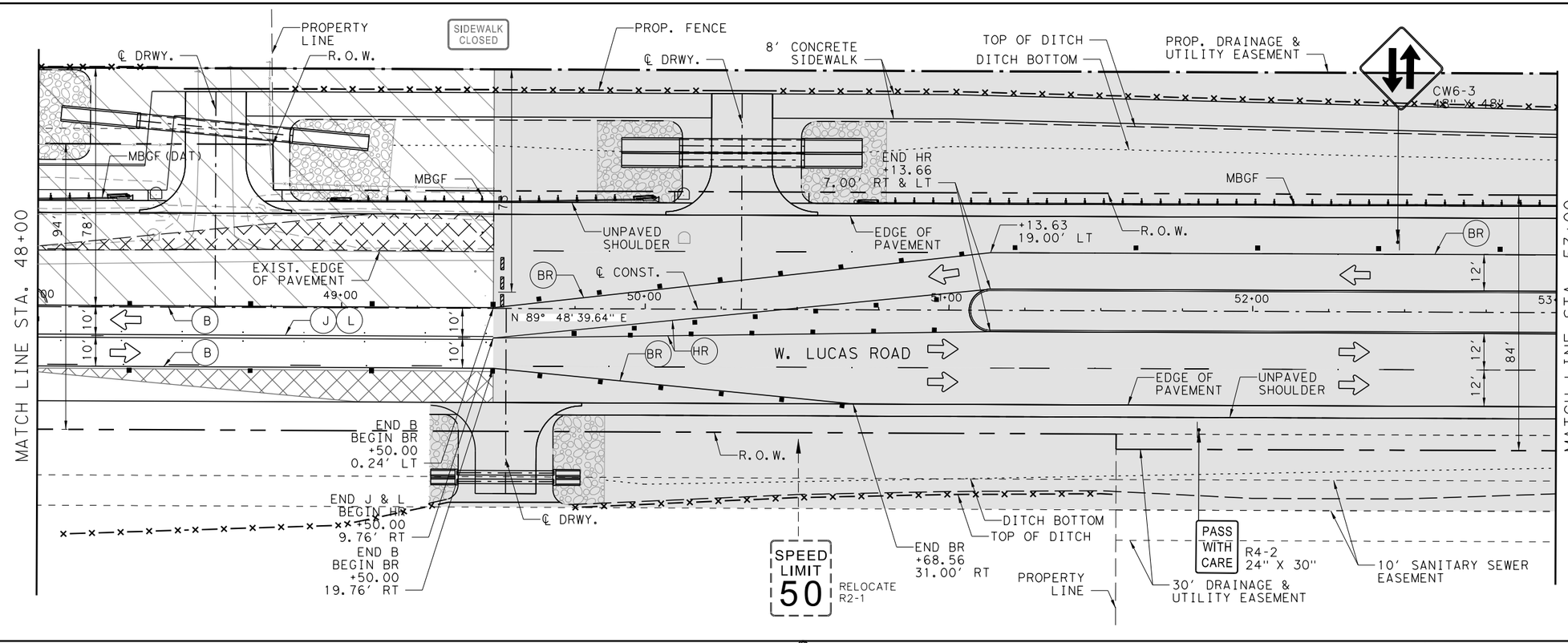
bc engineering
a PARSONS Company

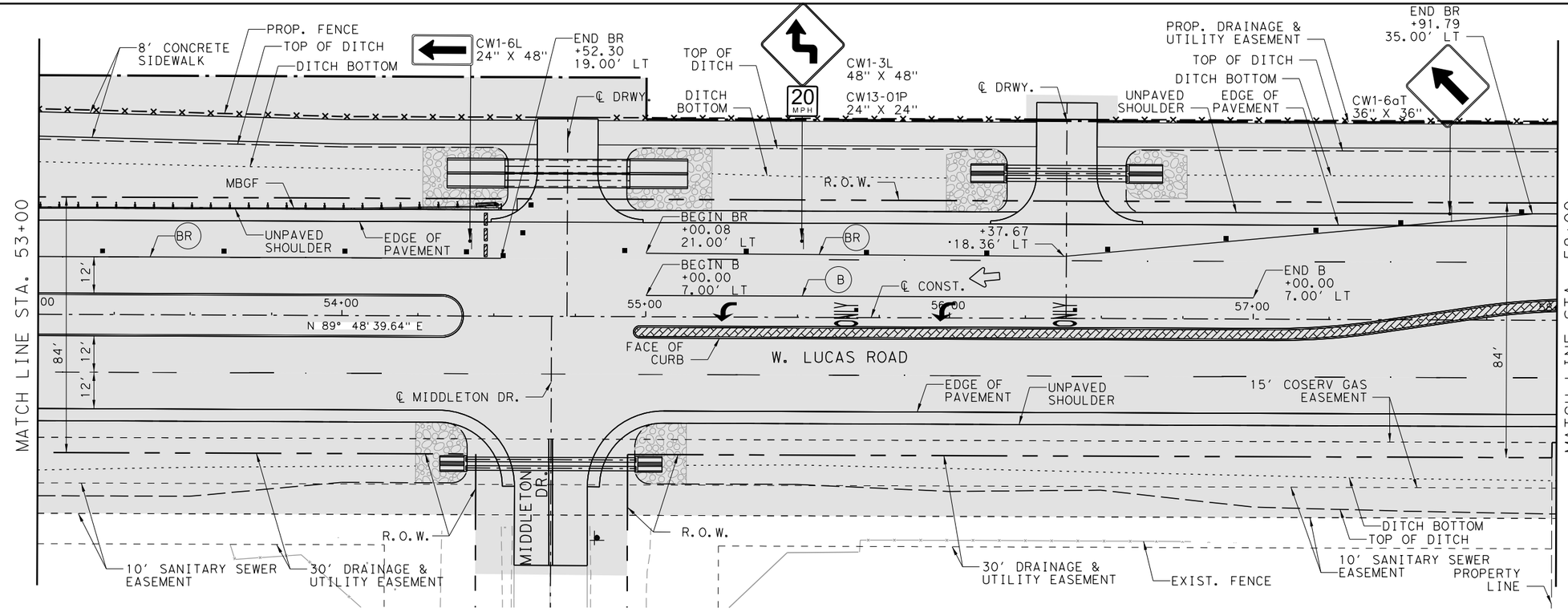
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		53
COLLIN		

DATE: 4/6/2026 1:52:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH5_04.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

NOTES:

1. END TEMPORARY REMOVABLE PAVEMENT MARKINGS AND BEGIN PERMANENT PAVEMENT MARKINGS AT 54+50
2. SEE PAVEMENT MARKING AND SIGNING SHEETS FOR PERMANENT MARKING DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 5

SHEET 3 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

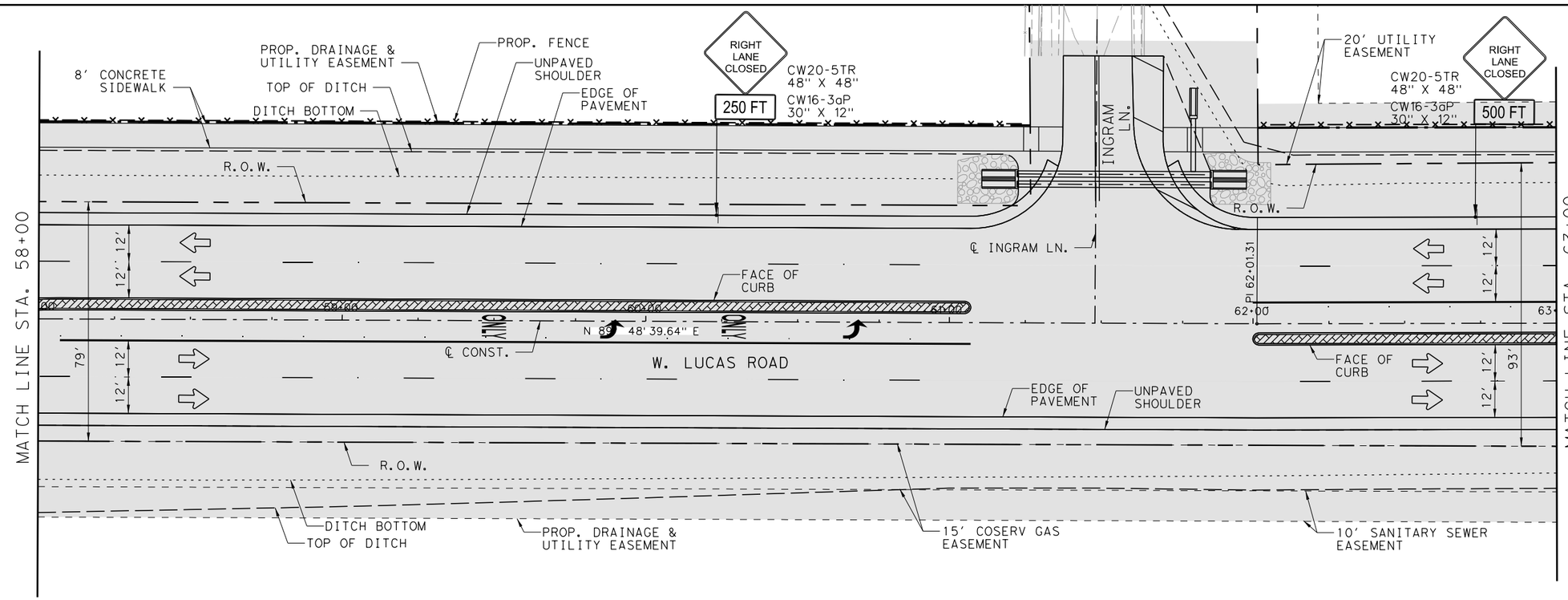
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		54
COLLIN		

DATE: 4/6/2026 1:52:10 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH5_05.dgn

Texas 811 Know what's below. Call before you dig.



0 10 40
Feet

N

NOTES:

1. PAVEMENT MARKINGS SHOWN ARE PERMANENT PAVEMENT MARKINGS.
2. REFER TO SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKING DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 5

SHEET 4 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	55
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

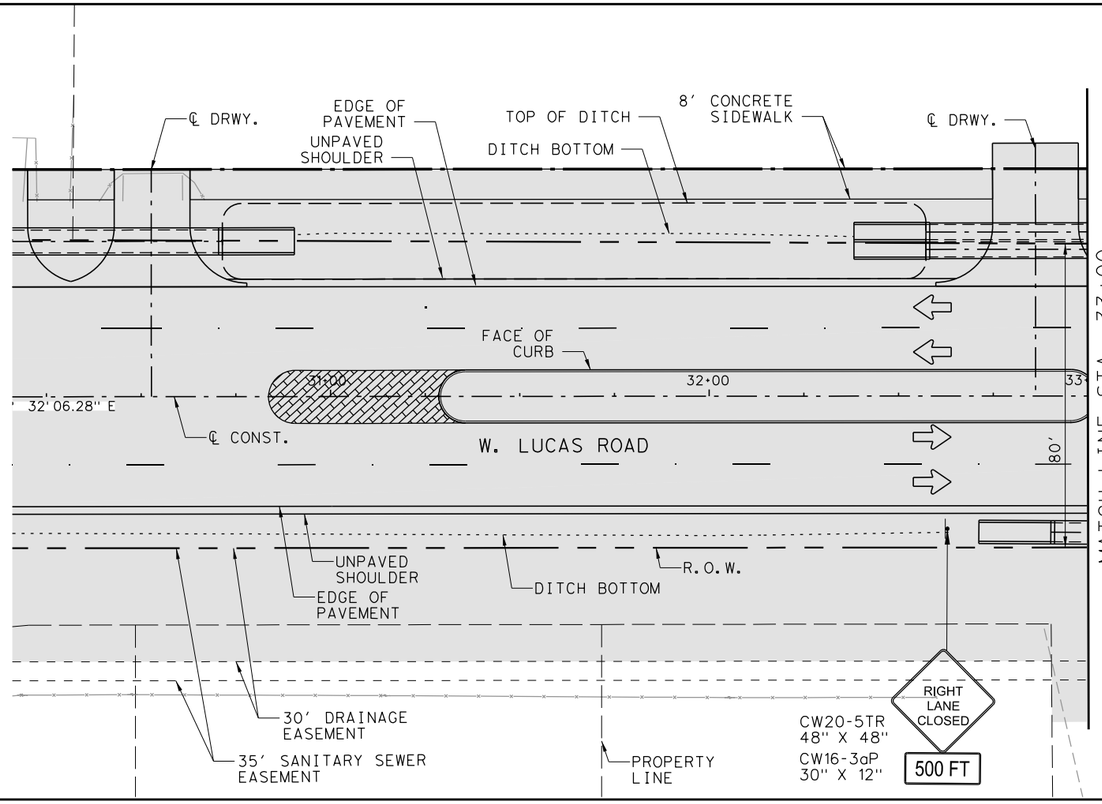
DATE: 4/6/2026 1:52:11 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH5_06.dgn

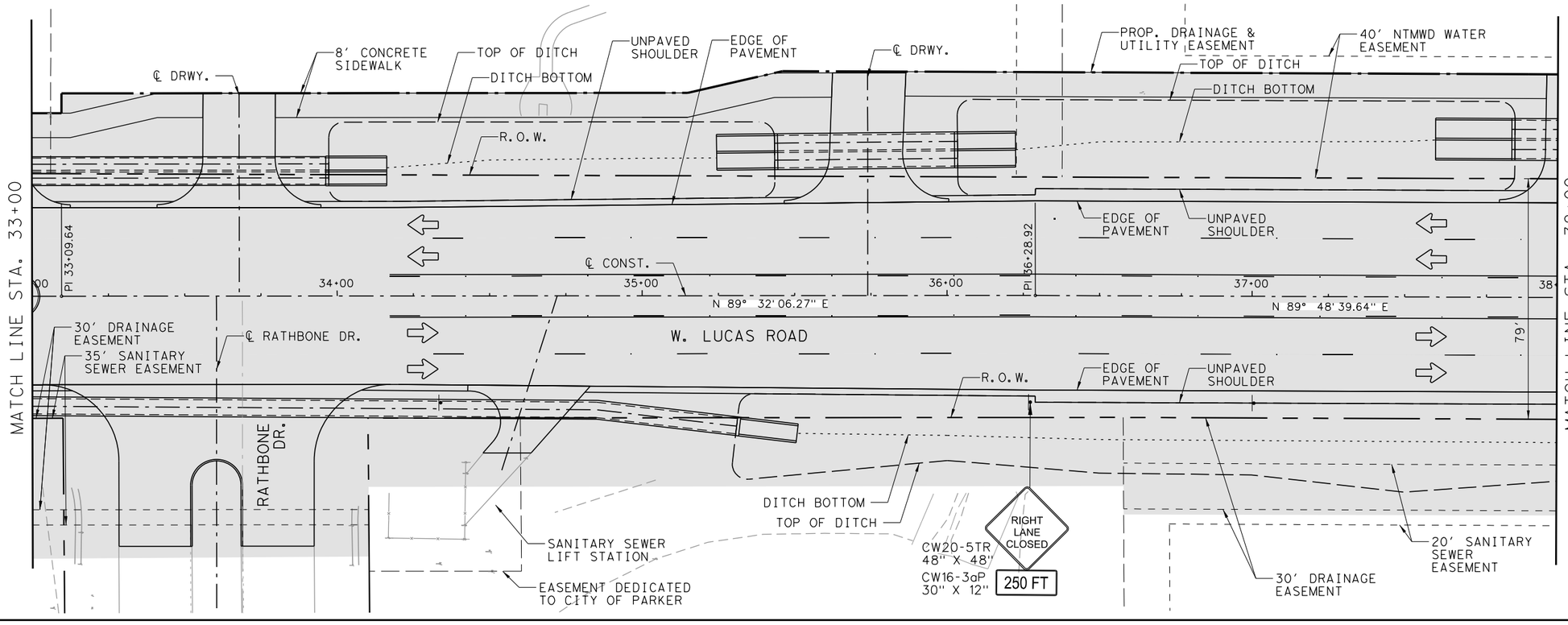
WORK ZONE PAVEMENT MARKING LEGEND:

COLOR/WIDTH/TYPE	EXIST. TO REMAIN	TEMPORARY	REMOVABLE
(W) (6") (SLD)	A	B	BR
(W) (24") (SLD)	C		
(W) (6") (BROKEN)	E		
(Y) (6") (SLD)	G	H	HR
(Y) (6") (BROKEN)	K	J	JR
(Y) (6") (SLD) (DOUBLE)	I		
R.P.M TYPE II-A-A @ 40' C-C		L	

LEGEND:

- PROPOSED CONSTRUCTION WORK ZONE - THIS PHASE
- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY CONSTRUCTION EXIT/ENTRANCE
- CONSTRUCTED PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT PLACED IN PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT REMOVAL





0 10 40
Feet

LEGEND:

- DIRECTION OF TRAFFIC
- PAVEMENT MARKINGS
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES
- CONCRETE SAFETY BARRIERS (F-SHAPED)

GENERAL NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. APPLY LEGEND AND SYMBOLS FROM THIS SHEET TO ALL SHEETS IN THIS PHASE.
3. CHANNELIZING DEVICE SPACING:

   STRAIGHT LINE - 40'
   TAPERED LINE - 20'
   CURVED LINE - 10'

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 6

SHEET 1 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

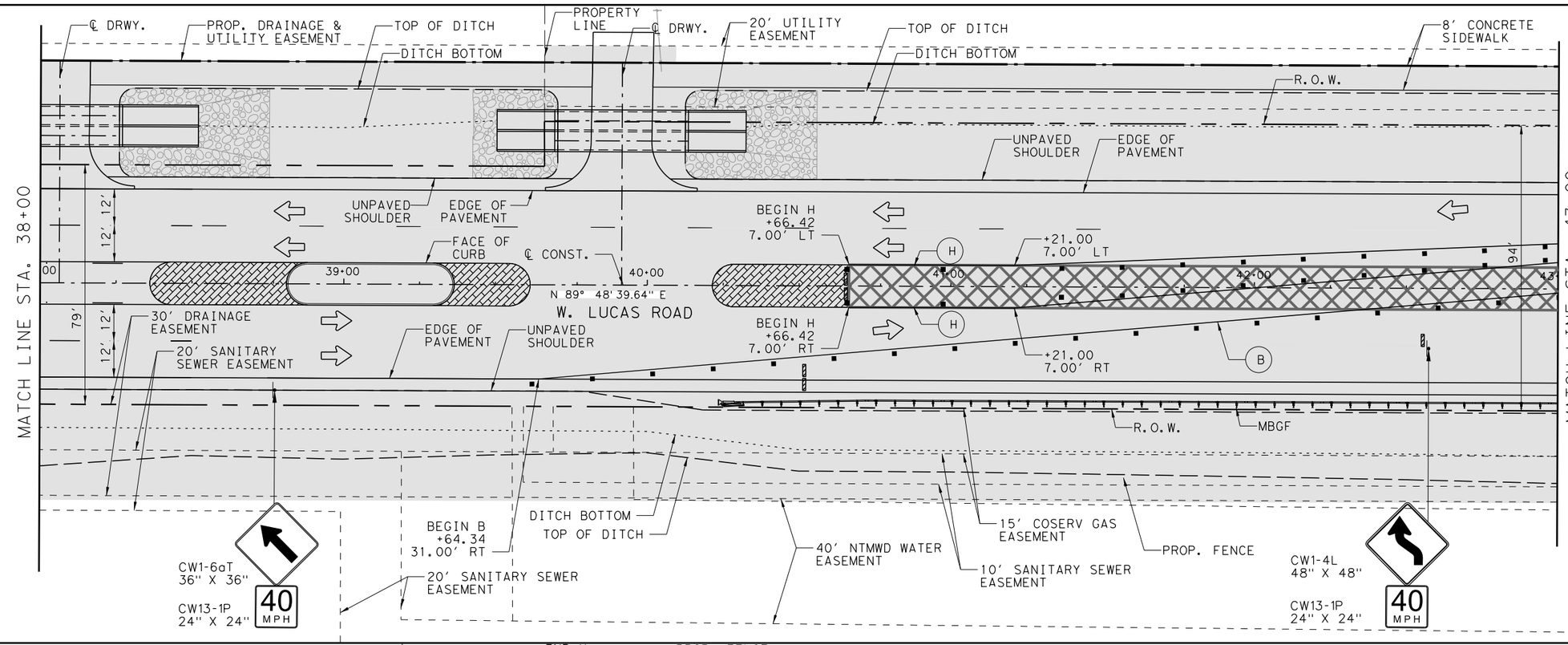
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		56
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:52:13 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH6_03.dgn

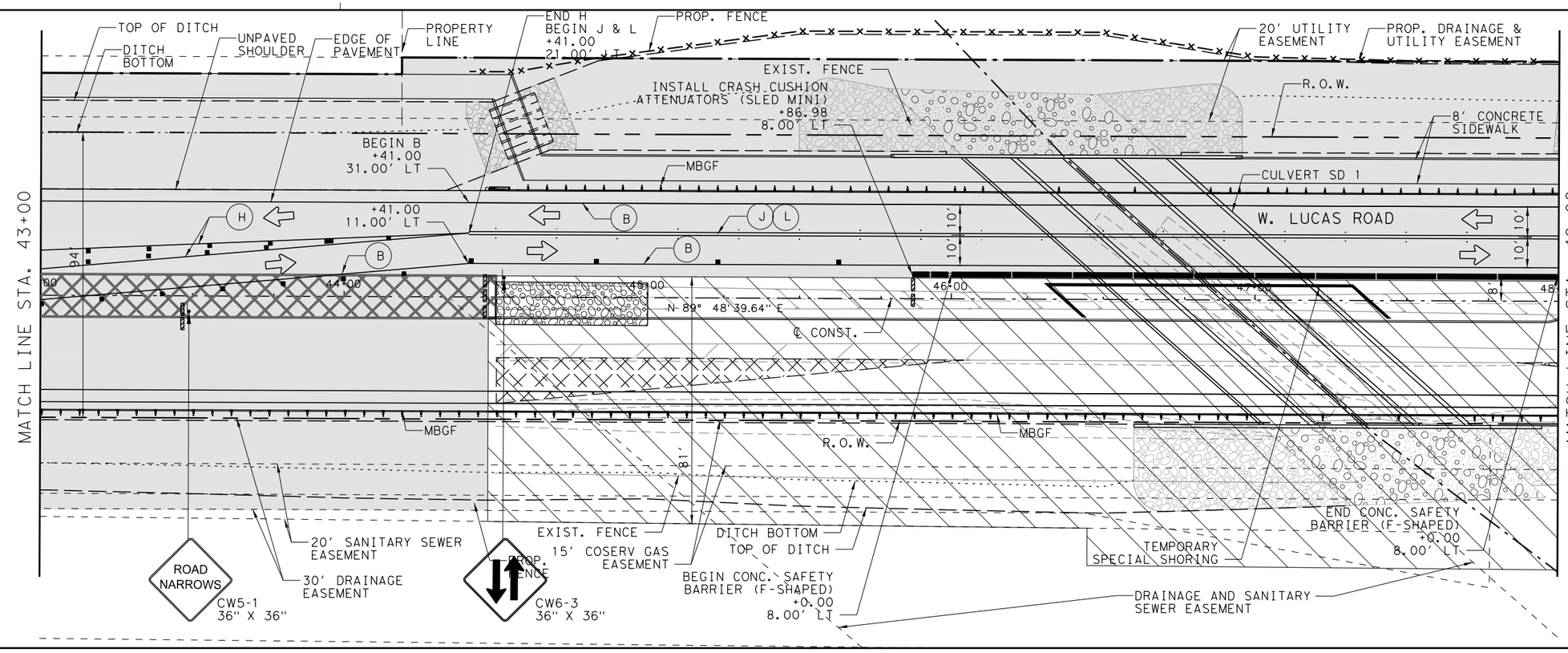


NOTES:

1. END PAVEMENT MARKINGS AND BEGIN TEMPORARY REMOVABLE PAVEMENTMARKINGS AT STA. 39+50.
2. SEE SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKING DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]



W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 6

SHEET 2 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

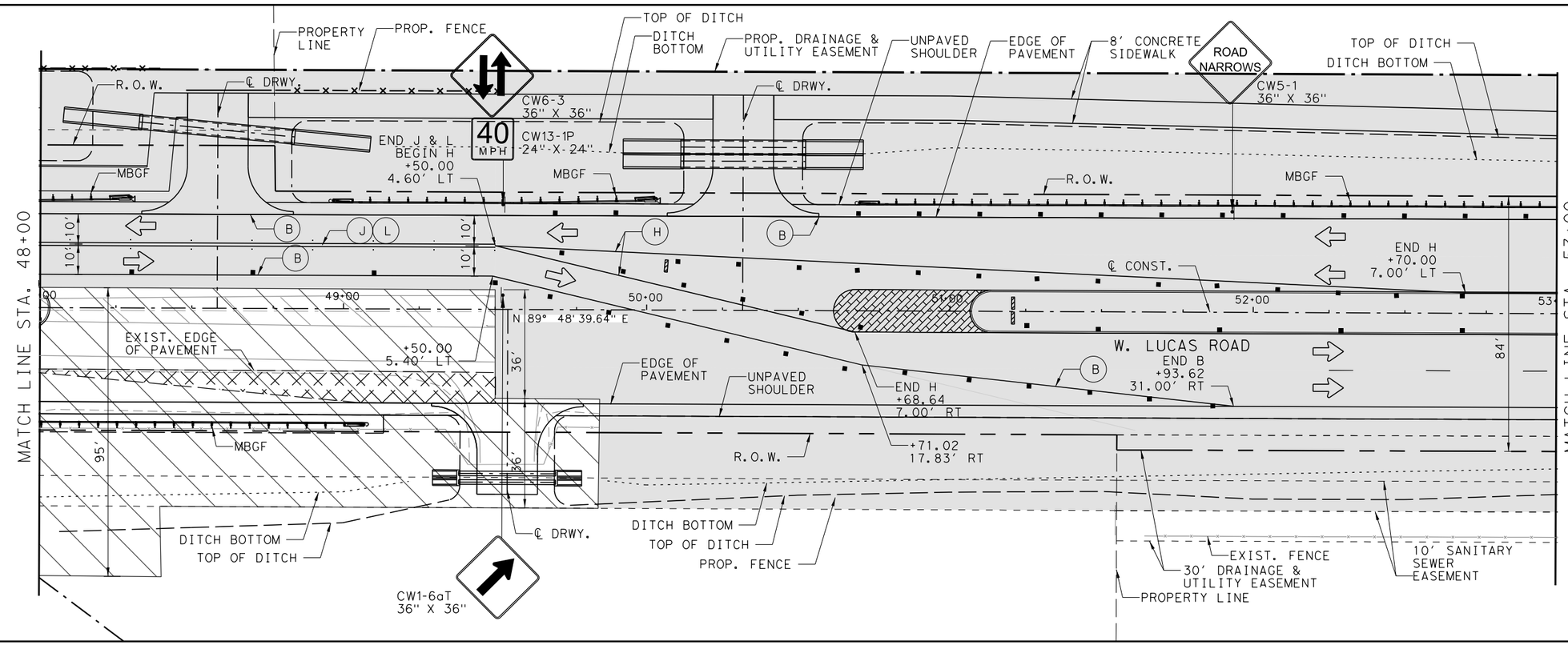
bc engineering
a PARSONS Company

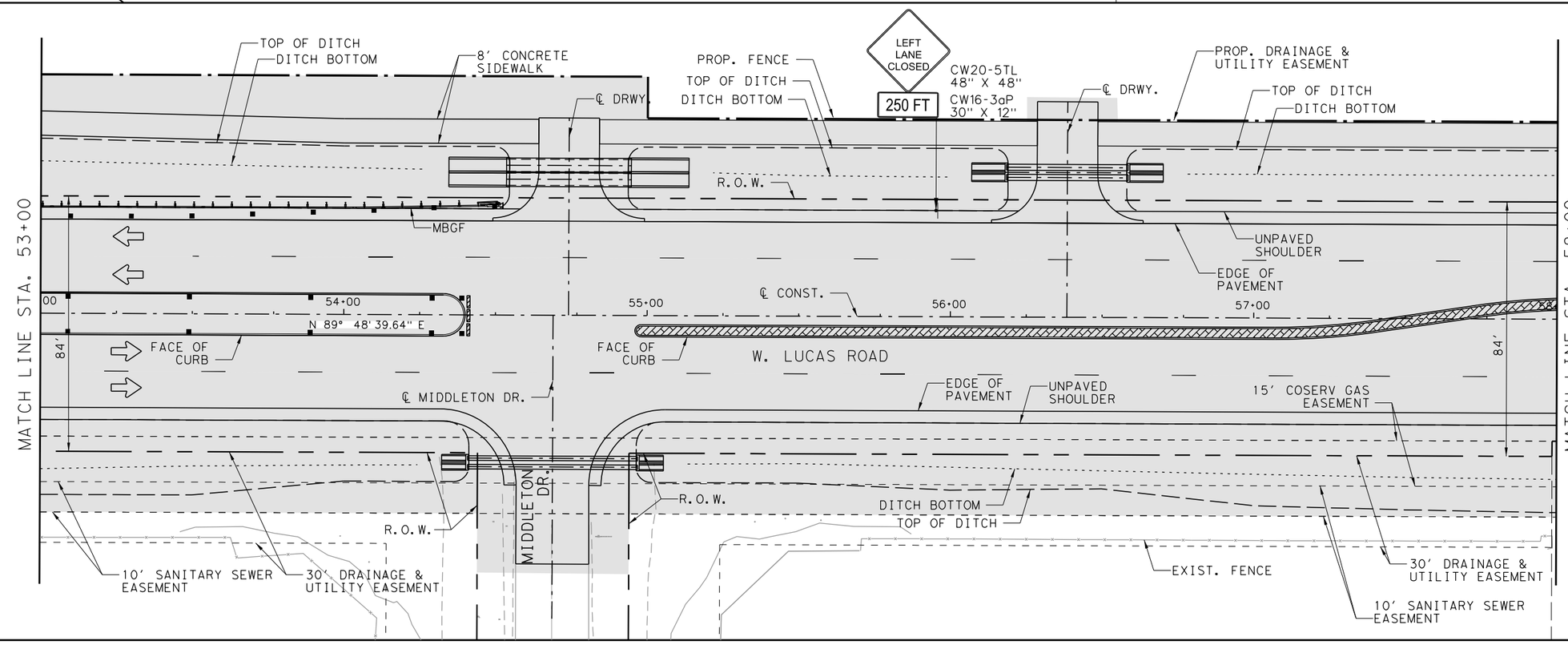
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		57
COLLIN		

DATE: 4/6/2026 1:52:15 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH6_04.dgn

Texas 811 Know what's below. Call before you dig.





NOTES:

1. END TEMPORARY REMOVABLE PAVEMENT MARKINGS AND BEGIN PERMANENT PAVEMENT MARKINGS AT STA. 52+00.
2. SEE SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKING DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 6

SHEET 3 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

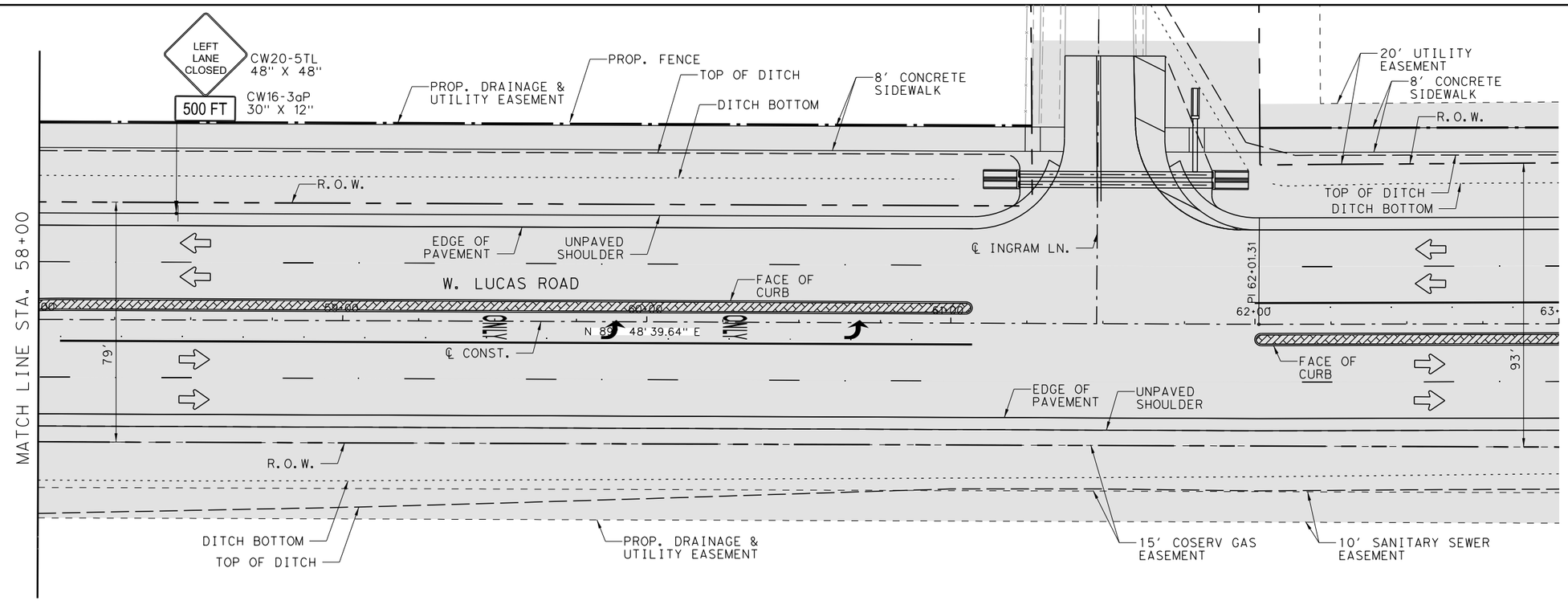
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		58
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:52:16 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH6_05.dgn



0 10 40
Feet

N

NOTES:

1. PAVEMENT MARKINGS SHOWN ARE PERMANENT PAVEMENT MARKINGS.
2. SEE SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKING DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 6

SHEET 4 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	59
COUNTY		
COLLIN		

DATE: 4/6/2026 1:52:17 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH6_06.dgn

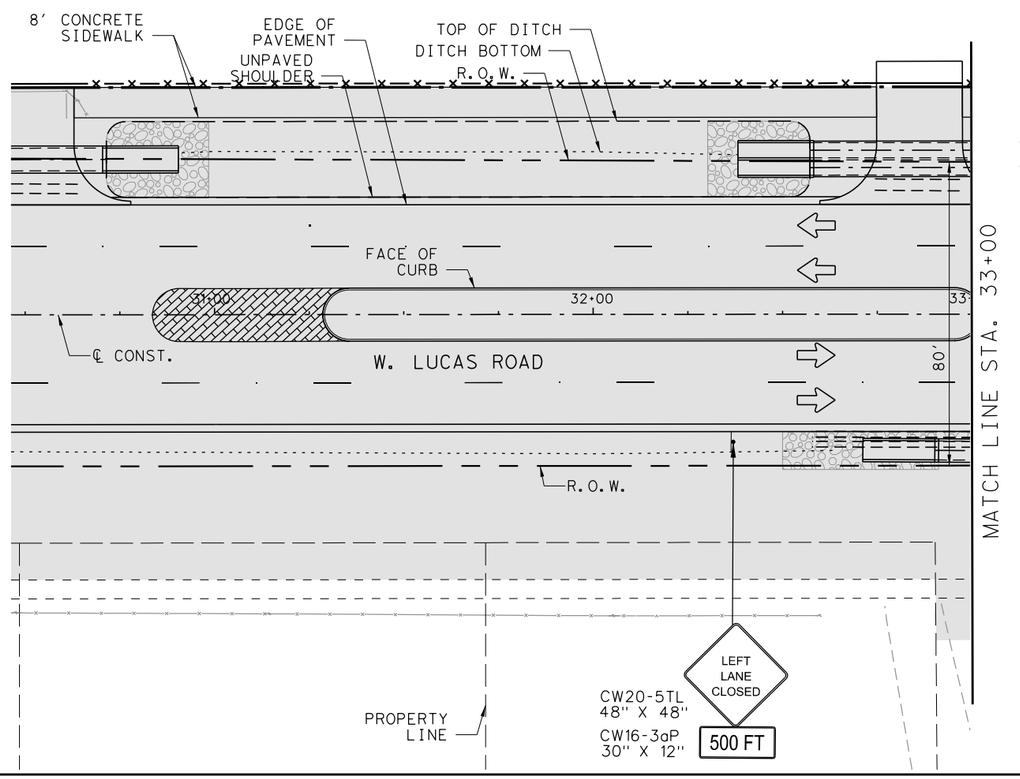
Texas 811 Know what's below. Call before you dig.

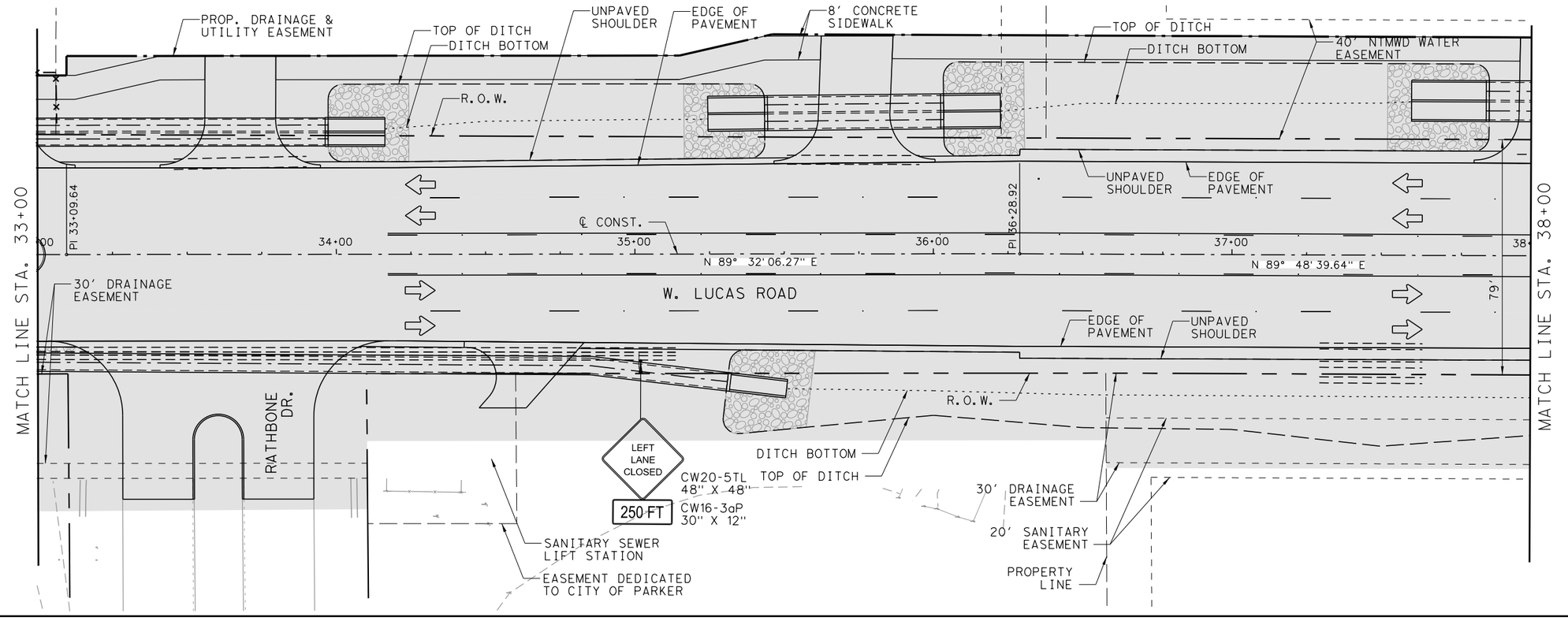
WORK ZONE PAVEMENT MARKING LEGEND:

COLOR/WIDTH/TYPE	EXIST. TO REMAIN	TEMPORARY	REMOVABLE
(W) (6") (SLD)	(A)	(B)	(BR)
(W) (24") (SLD)	(C)		
(W) (6") (BROKEN)	(E)		
(Y) (6") (SLD)	(G)	(H)	(HR)
(Y) (6") (BROKEN)	(K)	(J)	(JR)
(Y) (6") (SLD) (DOUBLE)	(I)		
R.P.M TYPE II-A-A @ 40' C-C		(L)	

LEGEND:

- PROPOSED CONSTRUCTION WORK ZONE - THIS PHASE
- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY CONSTRUCTION EXIT/ENTRANCE
- CONSTRUCTED PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT PLACED IN PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT REMOVAL





0 10 40
Feet

LEGEND:

- DIRECTION OF TRAFFIC
- PAVEMENT MARKINGS
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES

GENERAL NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. APPLY LEGEND AND SYMBOLS FROM THIS SHEET TO ALL SHEETS IN THIS PHASE.
3. CHANNELIZING DEVICE SPACING:

   STRAIGHT LINE - 40'
   TAPERED LINE - 20'
   CURVED LINE - 10'

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 7

SHEET 1 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

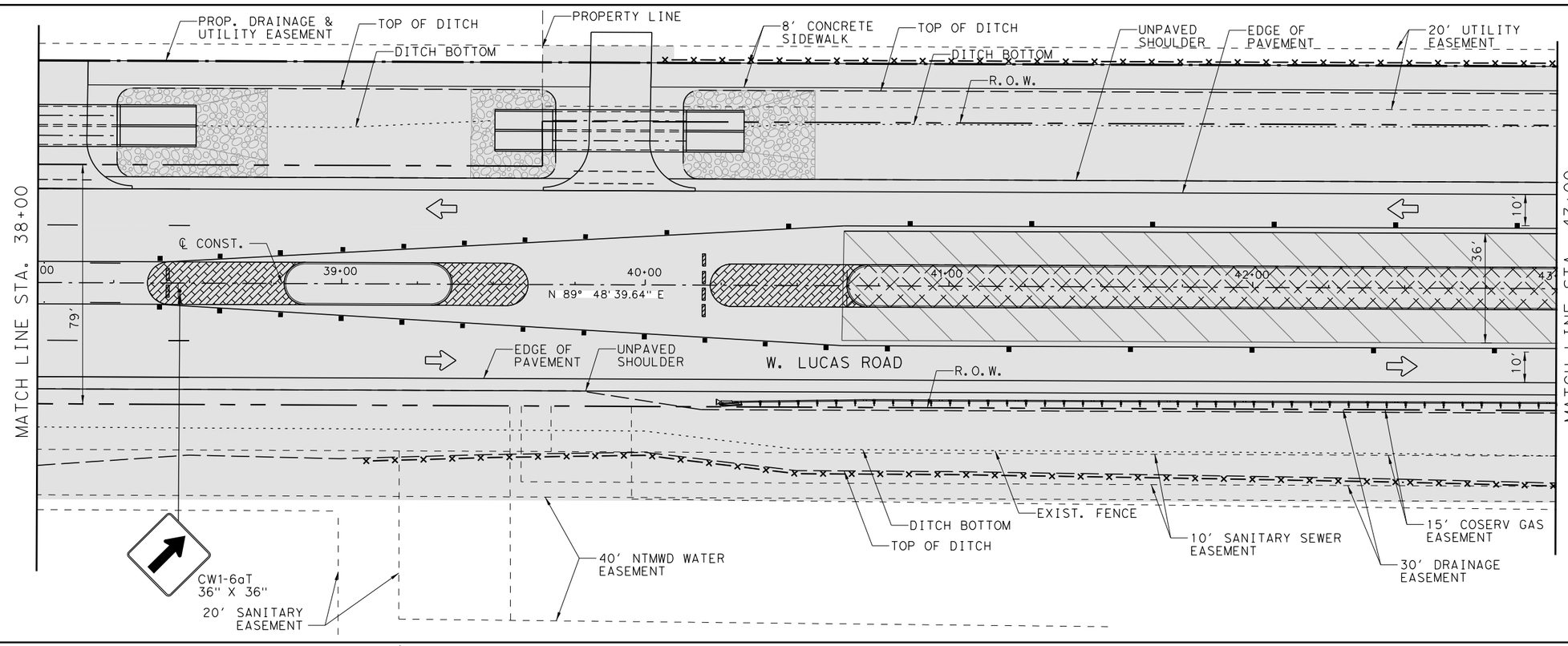
bc engineering
a PARSONS Company

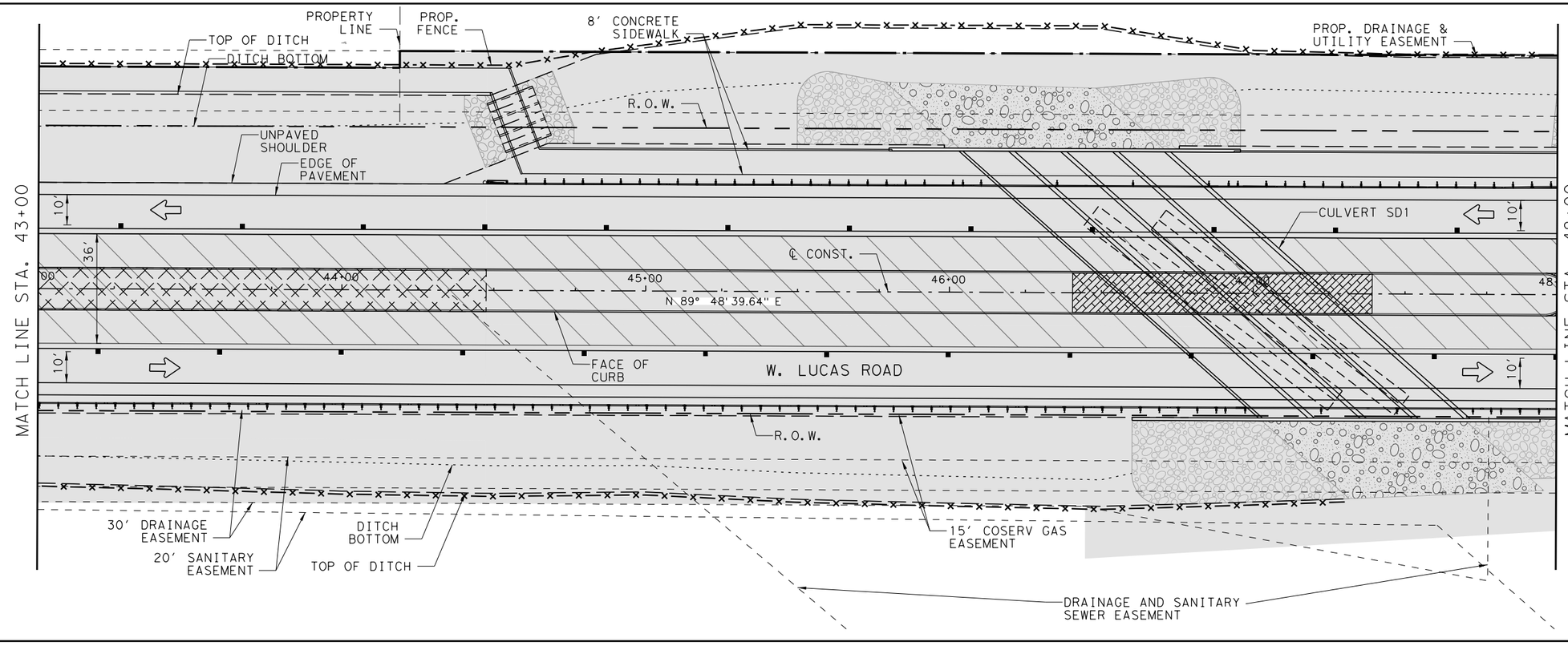
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	60
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:52:19 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH7_03.dgn





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 7

SHEET 2 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

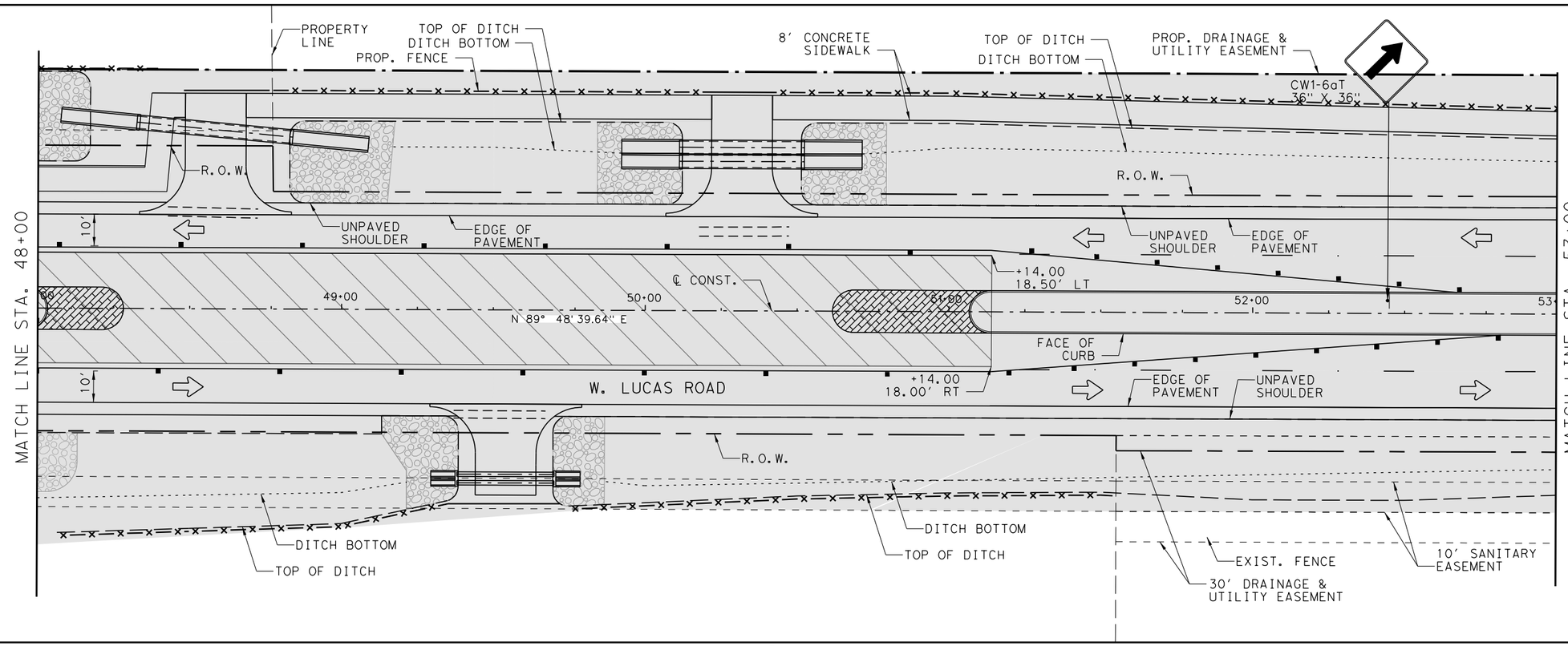
bc engineering
a PARSONS Company

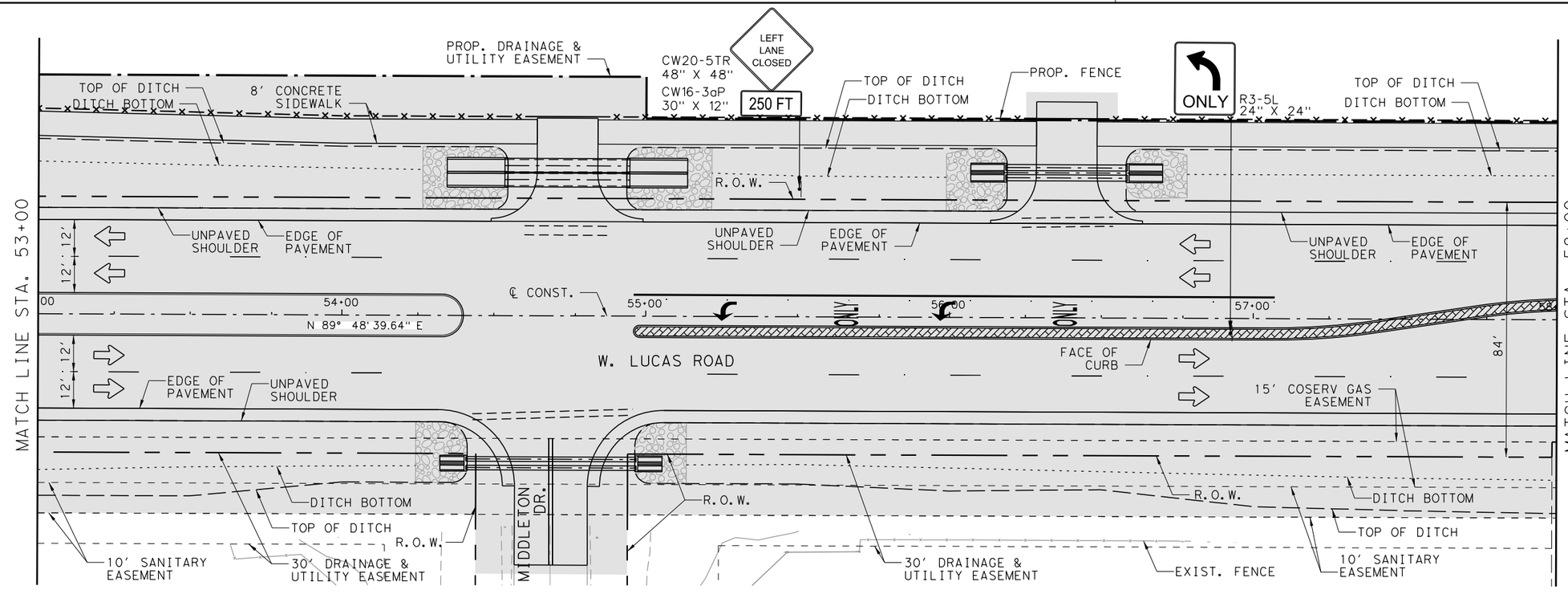
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		61
COLLIN		

DATE: 4/6/2026 1:52:21 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH7_04.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

N

NOTES:

1. END TEMPORARY REMOVABLE PAVEMENT MARKINGS AND BEGIN PERMANENT PAVEMENT MARKINGS AT STA. 52+75
2. SEE PAVEMENT MARKING AND SIGNING SHEETS FOR PERMANENT PAVEMENT MARKING DETAILS

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 7

SHEET 3 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

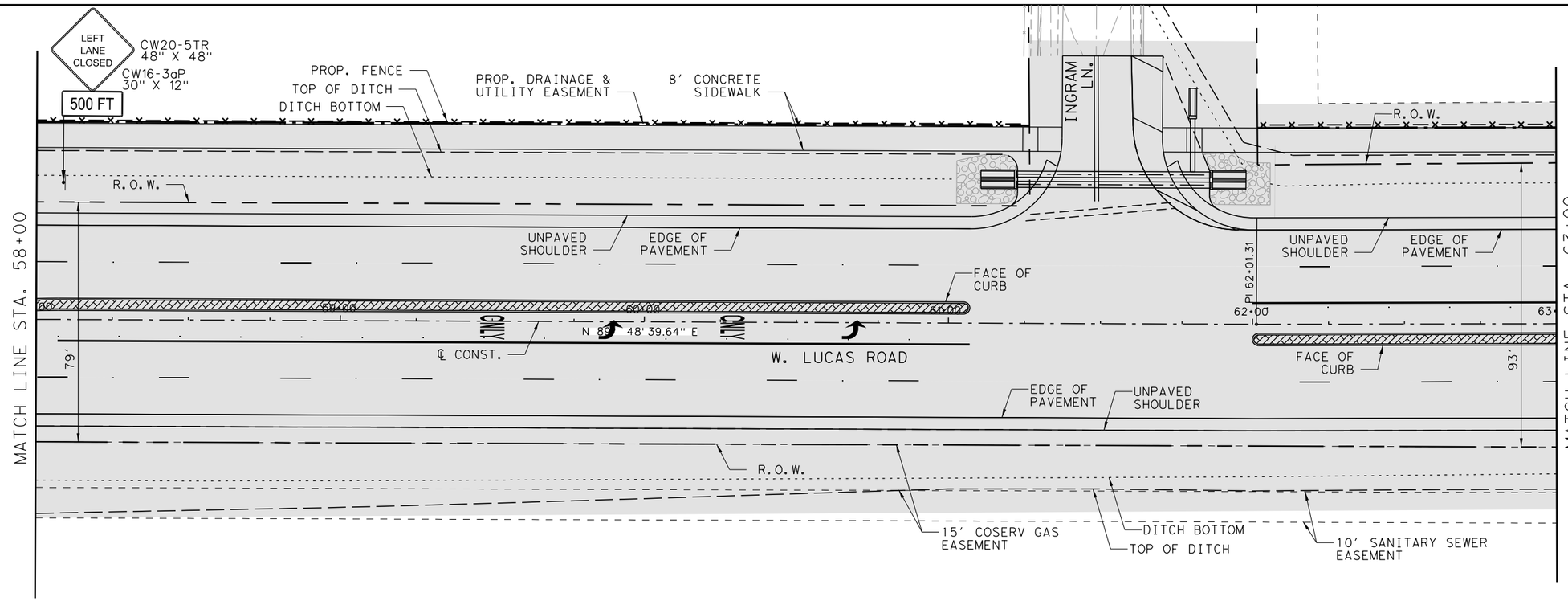
bc engineering
a PARSONS Company

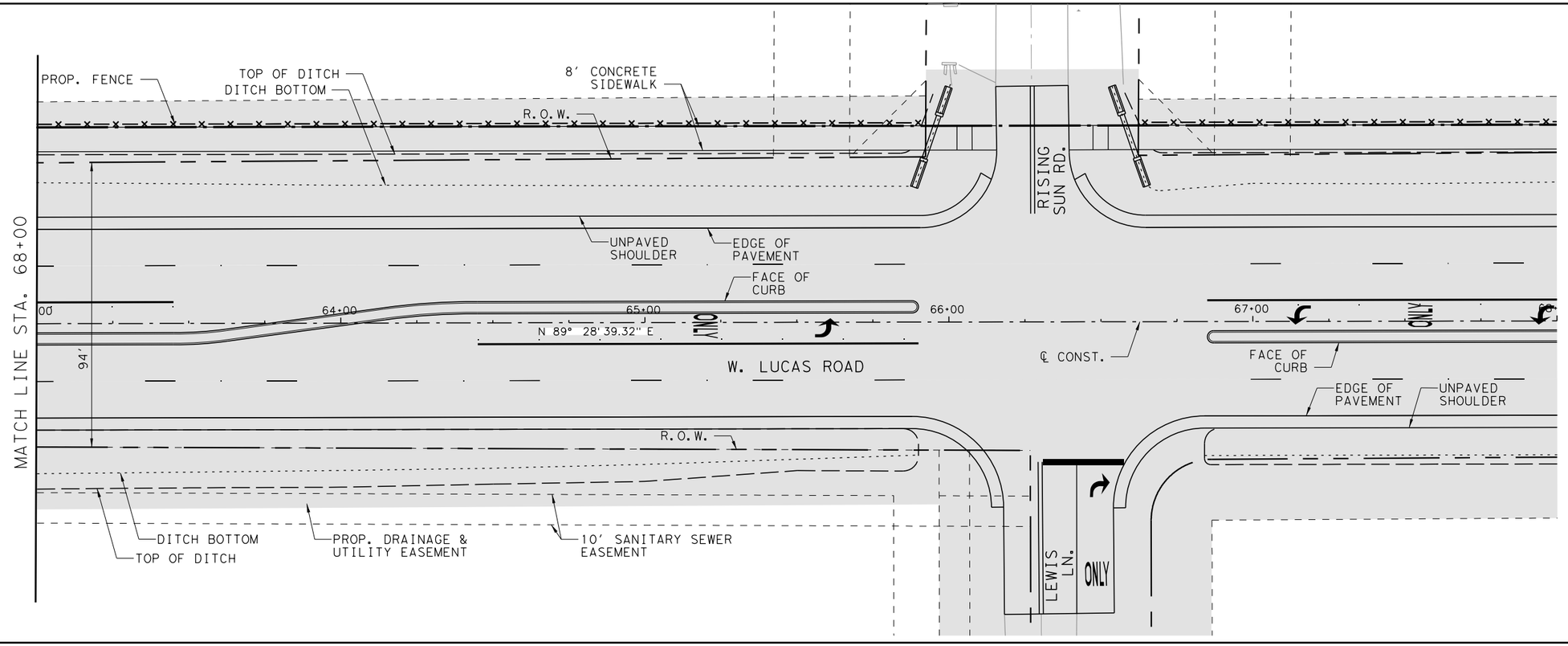
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	62
COUNTY		
COLLIN		

DATE: 4/6/2026 1:52:22 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH7_05.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

N

NOTES:

1. PAVEMENT MARKINGS SHOWN ARE PERMANENT PAVEMENT MARKINGS.
2. SEE SIGNING & PAVEMENT MARKING SHEETS FOR PERMANENT PAVEMENT MARKING DETAILS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN PHASE 7

SHEET 4 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	63
COUNTY		
COLLIN		

DATE: 4/6/2026 1:52:32 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_PH7_06.dgn

Texas 811 Know what's below. Call before you dig.

LEGEND:

- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY ASPHALT PAVEMENT PLACED IN PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT REMOVAL
- PROPOSED CONSTRUCTION THIS PHASE
- CONSTRUCTED PREVIOUS PHASE
- DIRECTION OF TRAFFIC
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES
- FLAG
- CONCRETE SAFETY BARRIERS (F-SHAPED)

(SA) STOP — R1-1, 30" X 30"

(SC) 20 MPH — CW13-1P, 24" X 24"

CW1-3 (L OR R), 36" X 36"

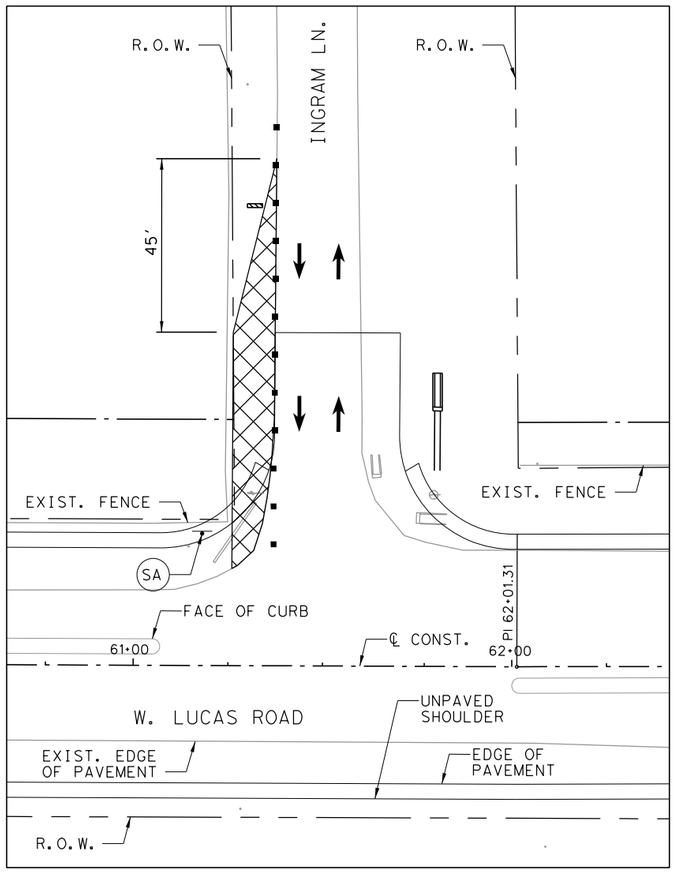
0 10 40 Feet

N

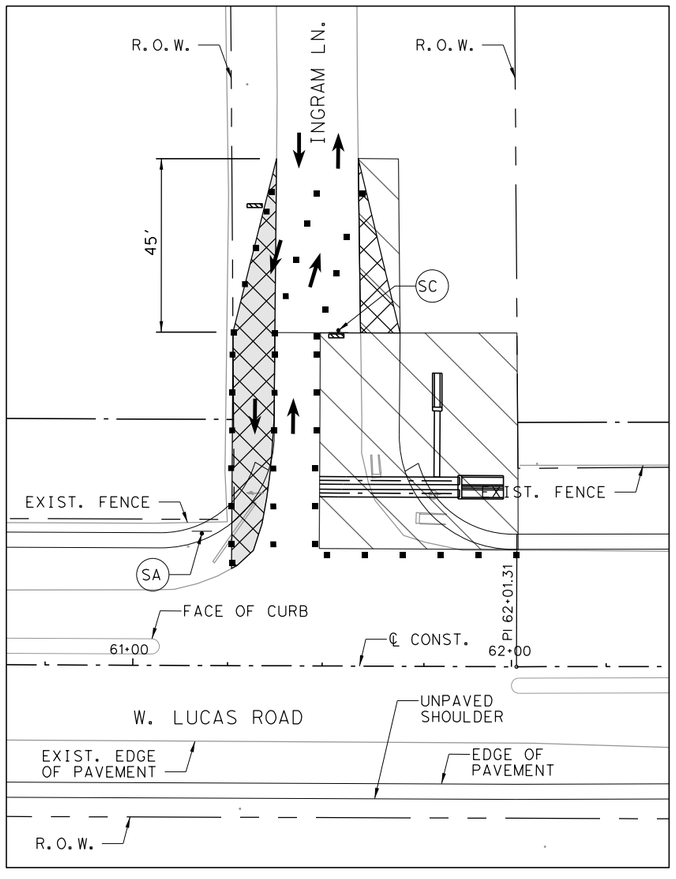
NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. CHANNELIZING DEVICE SPACING IS 10'.
3. DETAIL SHOWN FOR INGRAM LN. SIMILAR DETAIL APPLICABLE TO LEWIS LN.
4. USE OPPOSING TRAFFIC LANE DIVIDERS BELOW THE CENTER.

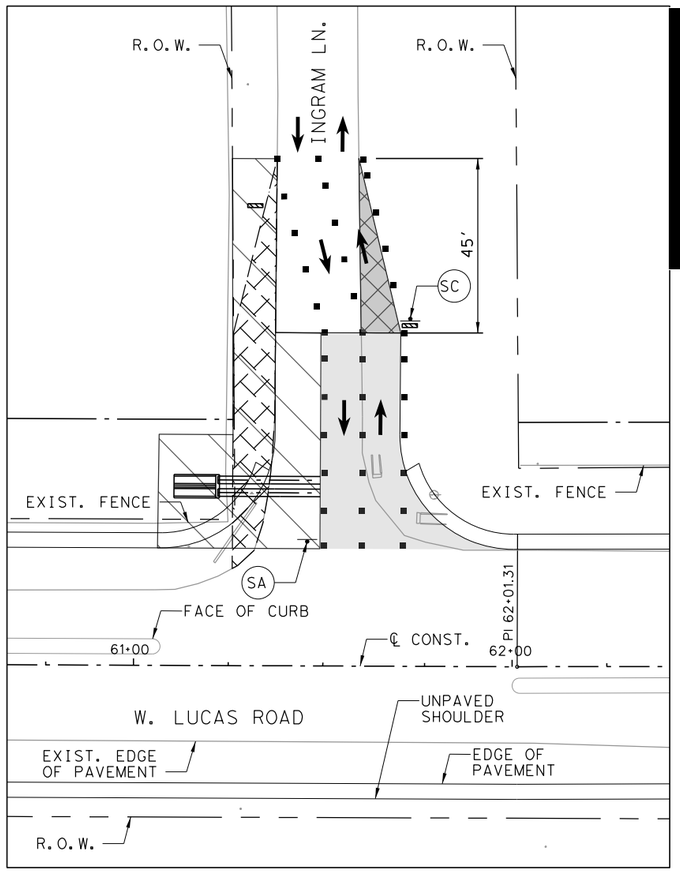
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS



STAGE-1



STAGE-2



STAGE-3

W. LUCAS RD. ROADWAY IMPROVEMENTS

TTC INTERSECTION DETAILS

SHEET 1 OF 2

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	64
	COUNTY	
	COLLIN	

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:52:33 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_SUBPH_2.1_DETAILS.dgn

LEGEND:

- PROPOSED TEMPORARY ASPHALT PAVEMENT
- TEMPORARY ASPHALT PAVEMENT PLACED IN PREVIOUS PHASE
- TEMPORARY ASPHALT PAVEMENT REMOVAL
- PROPOSED CONSTRUCTION THIS PHASE
- CONSTRUCTED PREVIOUS PHASE
- DIRECTION OF TRAFFIC
- GROUND MOUNTED SIGN
- BARRICADES (TYPE III)
- CHANNELIZING DEVICES
- FLAG
- CONCRETE SAFETY BARRIERS (F-SHAPED)

(SA) STOP — R1-1, 30" X 30"

(SB) YIELD / TO ONCOMING TRAFFIC — R1-2, 42" X 42" X 42"; R1-2aP, 48" X 36"

(SC) ONE LANE ROAD AHEAD — CW20-4D, 48" X 48"

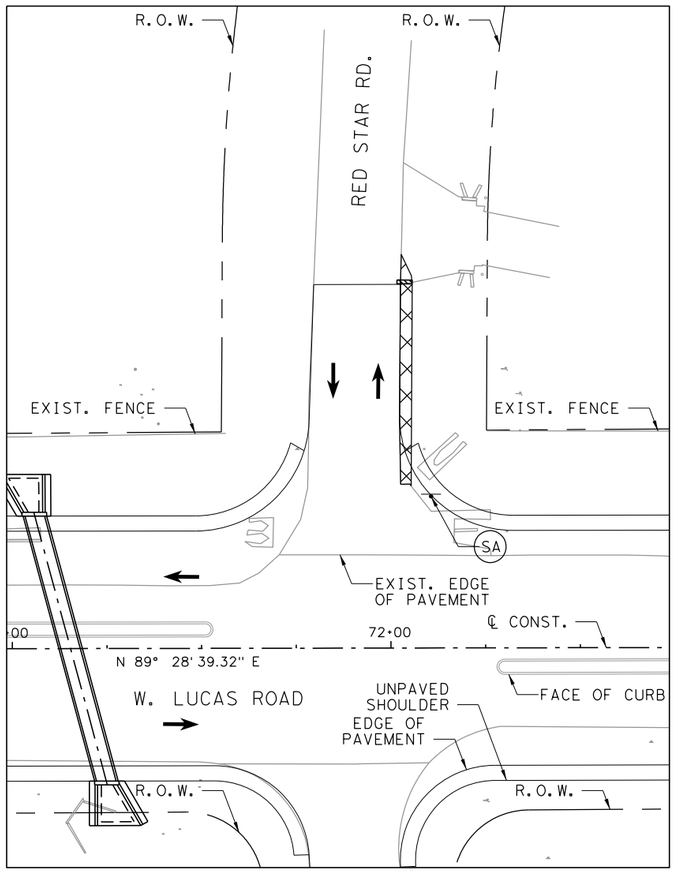
0 10 40
Feet

N

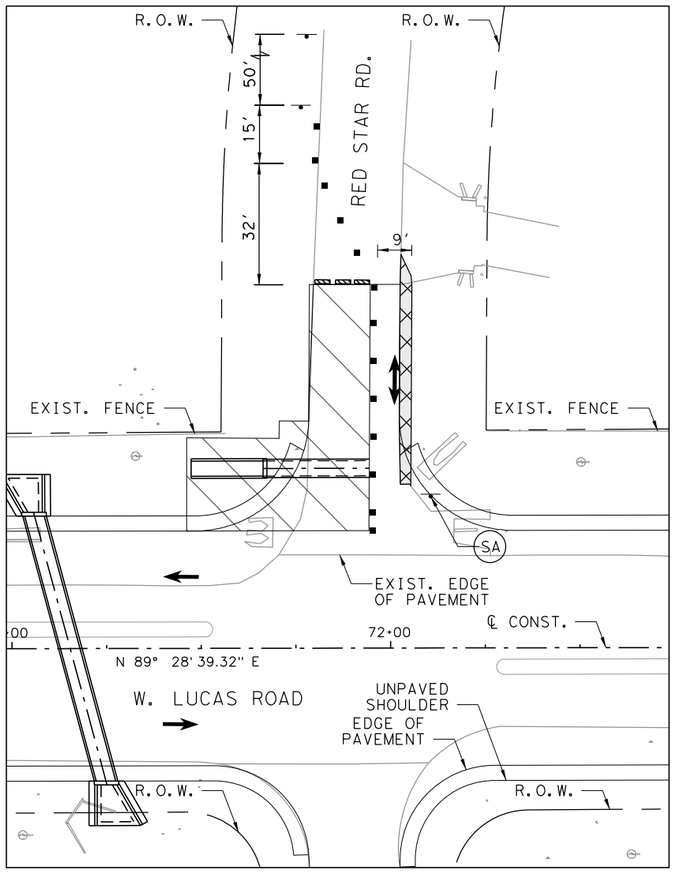
NOTES:

1. EXISTING UTILITIES NOT SHOWN FOR CLARITY.
2. CHANNELIZING DEVICE SPACING IS 10'.
3. DETAIL SHOWN FOR RED STAR RD. SIMILAR DETAIL ALSO APPLICABLE TO RISING SUN RD.
4. USE OPPOSING TRAFFIC LANE DIVIDER AS NEEDED IN THE CENTER.

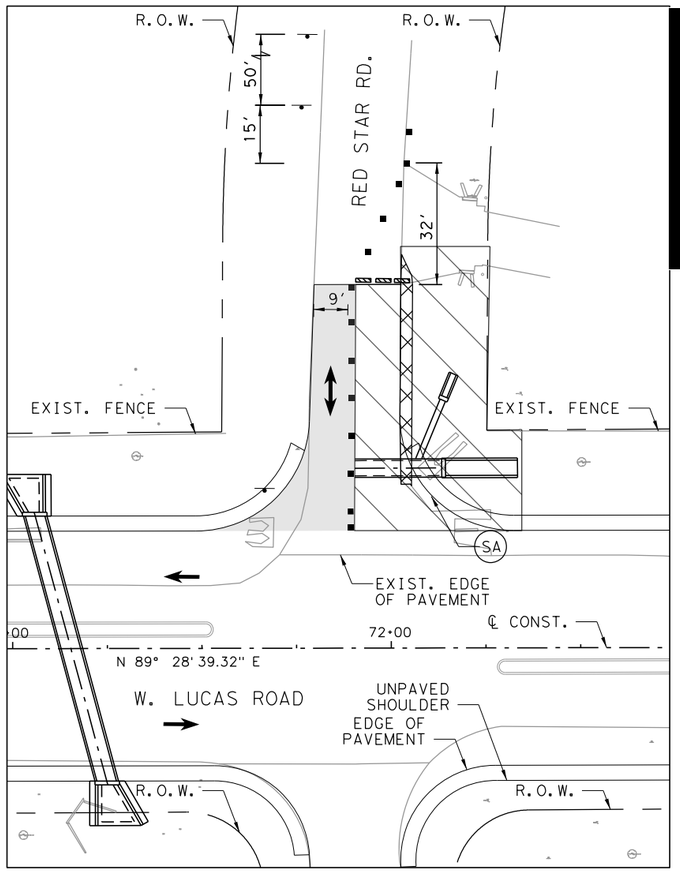
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS



STAGE-1



STAGE-2



STAGE-3

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TTC INTERSECTION DETAILS

SHEET 2 OF 2

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bgc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	65
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:52:35 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_SUBPH_2.2_DETAILS.dgn

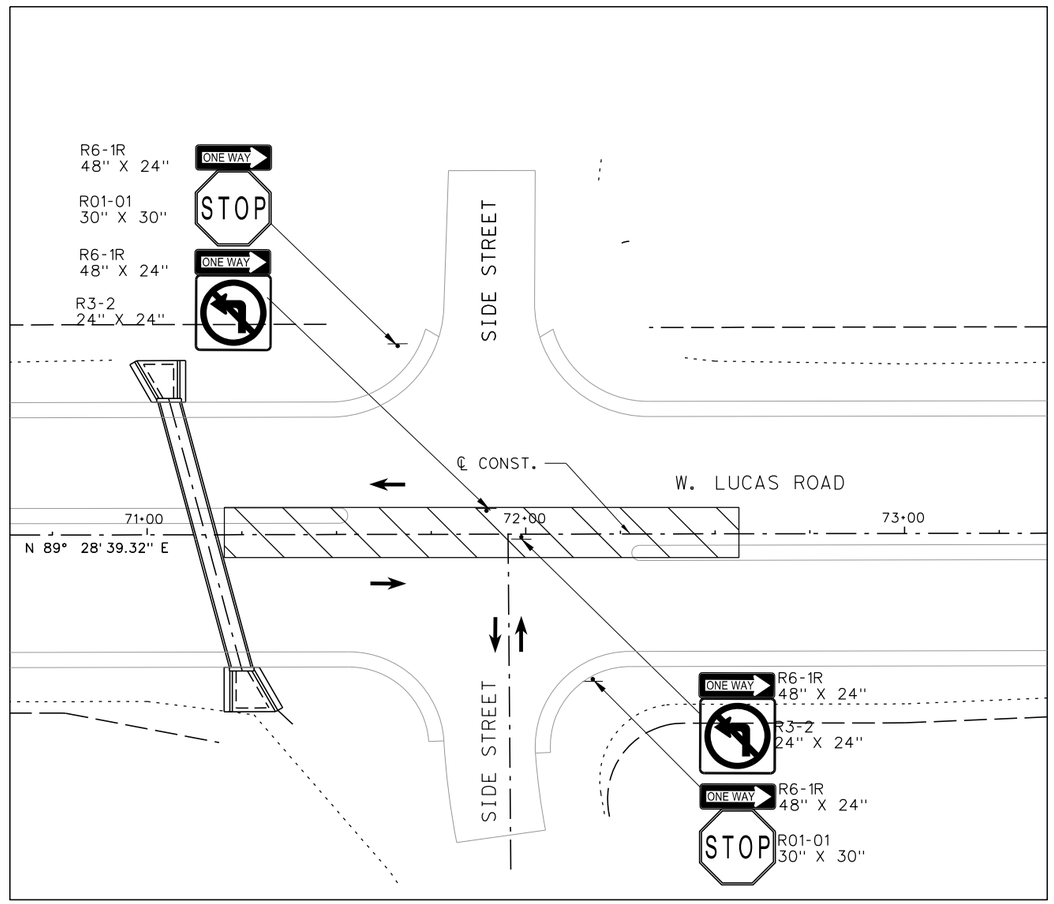
LEGEND:

WORK ZONE AREA

DIRECTION OF TRAFFIC

NOTES:

1. "NO TURN" DETAIL APPLICABLE TO ALL PHASES WHEN REQUIRED.
2. MUST MAINTAIN TRAFFIC FLOW AT BEE CAVES AND AT ALL TIMES.



0 10 40
Feet

N

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TTC "NO LEFT" DETAILS

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bec engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		66
COLLIN		

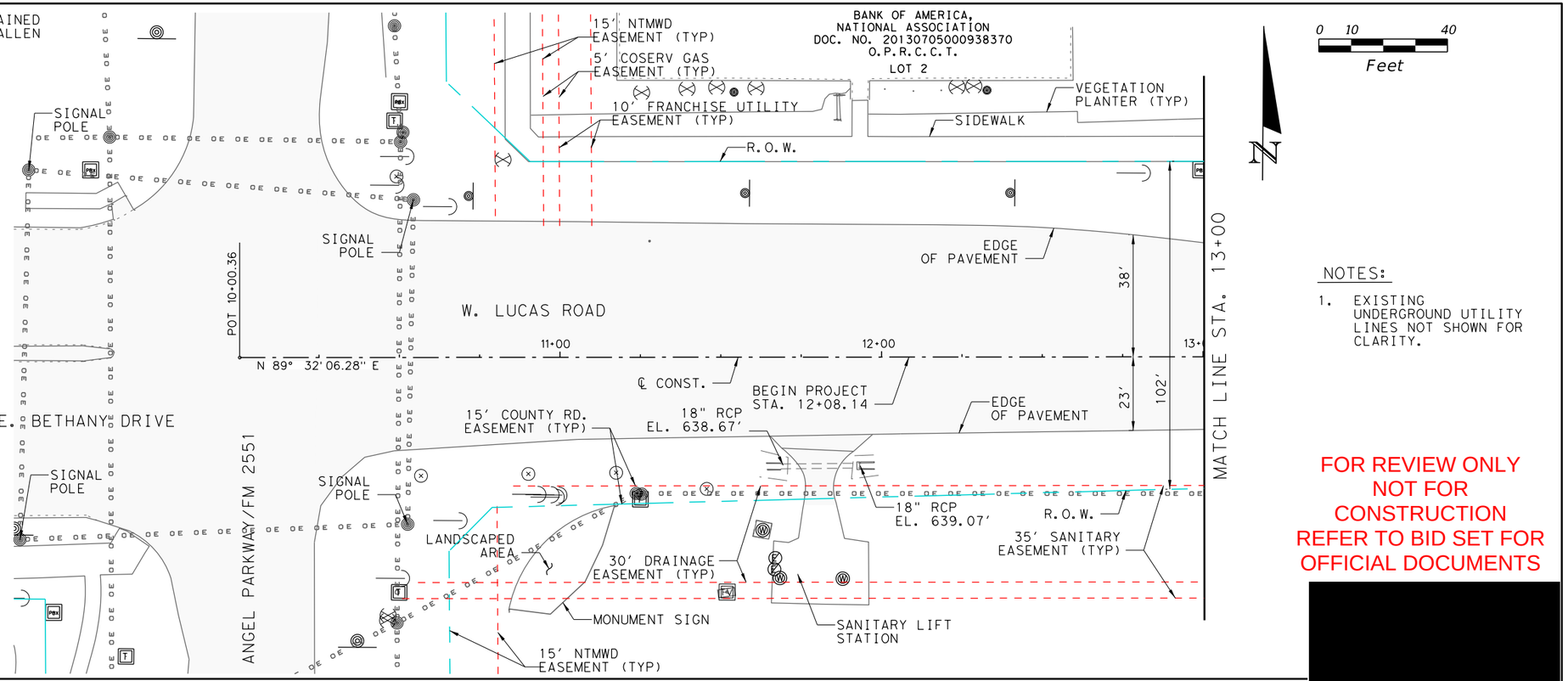
Texas 811 Know what's below. Call before you dig.

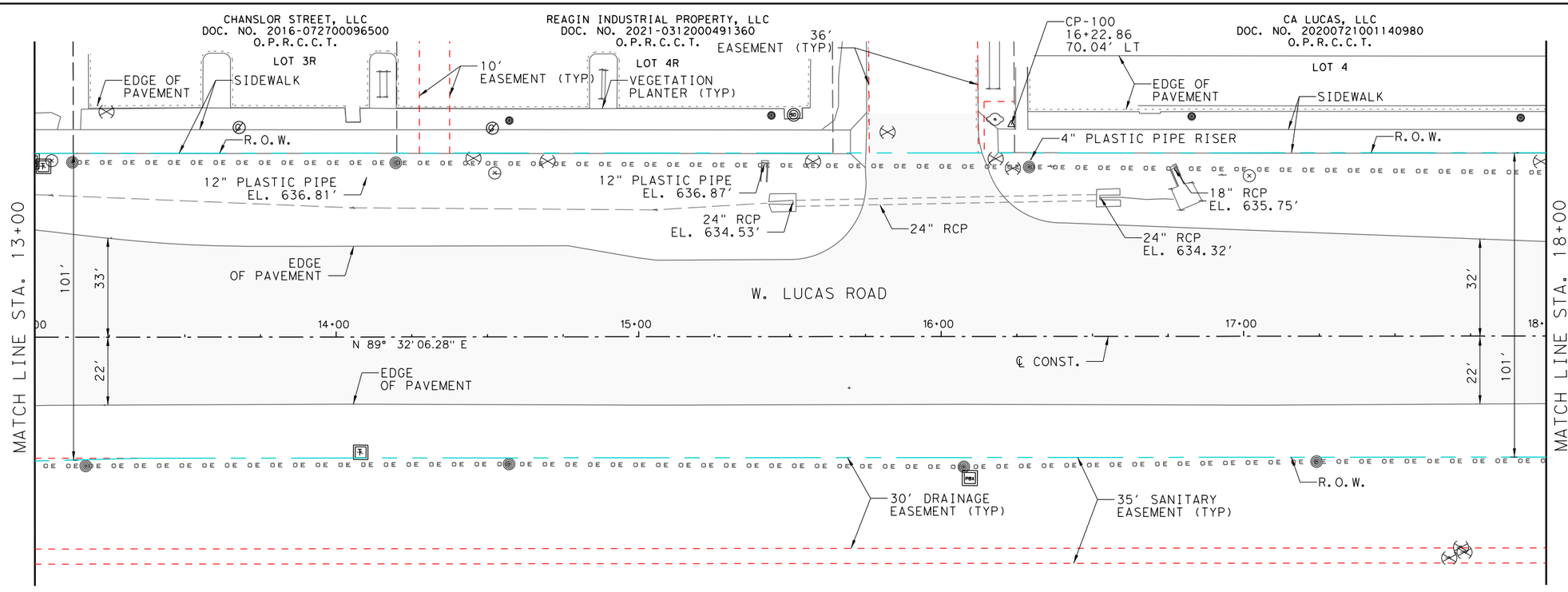
DATE: 4/6/2026 1:52:35 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\2. TCP\WLucas_TCP_SUBPH_2.3_DETAILS.dgn

LEGEND:

- SIGN & POST
- MAIL BOX
- POWER POLE
- LIGHT POLE
- TRAFFIC SIGNAL LIGHT
- FIRE HYDRANT
- WATER VALVE
- INT. CONTROL VALVE
- MARKER POST
- PLASTIC PIPE RISER
- ELECTRIC TRANSFORMER BOX
- TRAFFIC SIGNAL POWER BOX
- JUNCTION BOX
- ELEC. POWER BOX
- PULL BOX
- CABLE TV BOX
- TELEPHONE PEDESTAL
- ELEC. POWER PEDESTAL
- CABLE TV PEDESTAL
- TELEPHONE HANDHOLE
- FIBER OPTIC HANDHOLE
- STORM SEWER MANHOLE
- WASTE WATER MANHOLE
- TELEPHONE MANHOLE
- ELEC. MANHOLE
- FIBER OPTIC MANHOLE
- FIBER OPTIC VAULT
- GAS VENT
- GAS METER
- ELECTRIC METER
- WATER METER
- WATER VAULT
- TEST HOLE LOCATION
- DOWN GUY & ANCHOR
- PROPERTY LINE
- EXISTING PAVEMENT

**TRAFFIC SIGNAL MAINTAINED BY CITY OF ALLEN





0 10 40
Feet

NOTES:

1. EXISTING UNDERGROUND UTILITY LINES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 1 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

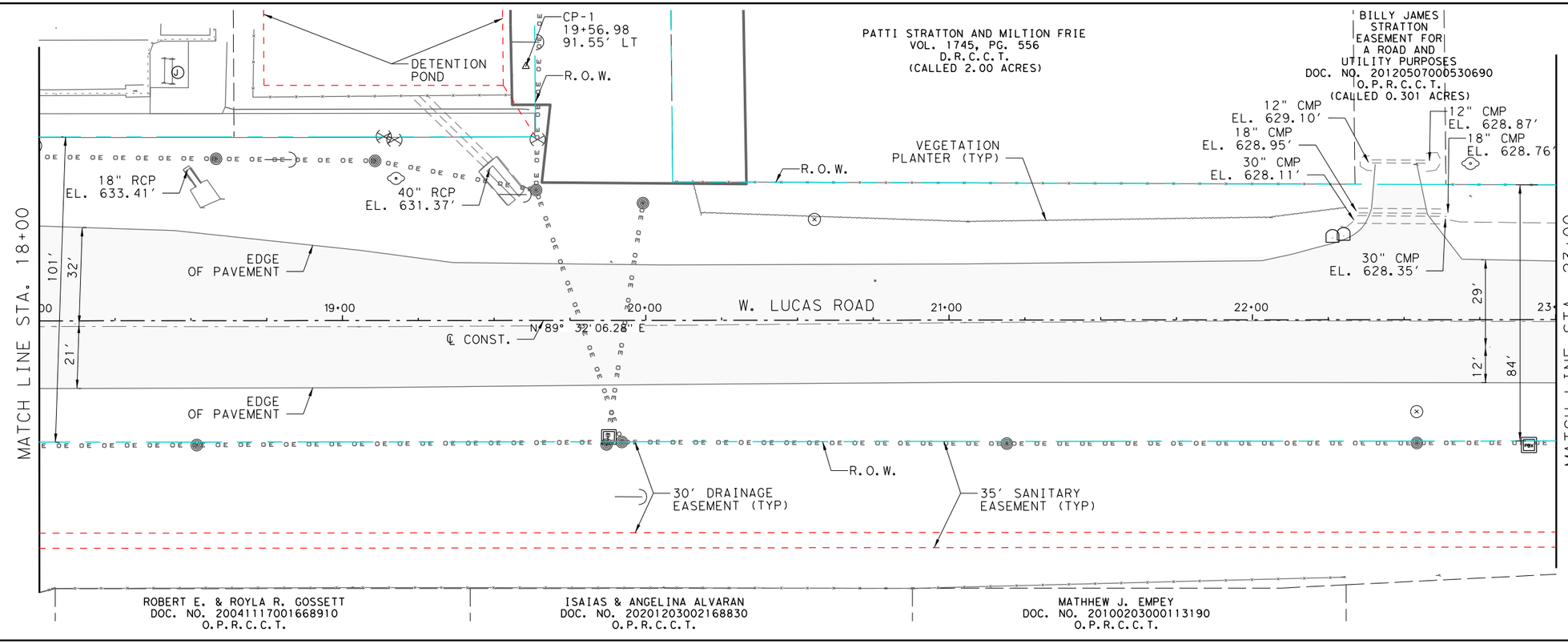
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		67
COLLIN		

DATE: 4/6/2026 1:56:07 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX01.dgn

Texas 811 Know what's below. Call before you dig.



W. LUCAS RD.
ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 2 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		68
COLLIN		

DATE: 4/6/2026 1:56:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX02.dgn

Texas 811 Know what's below. Call before you dig.

PAUL AND TAMMIE KIRKLAND
TRACT 3
DOC. NO. 2001-0167667
O.P.R.C.C.T.
(CALLED 8.6067 ACRES)

PATTI STRATTON AND MILTION FRIE
VOL. 1745, PG. 556
D.R.C.C.T.
(CALLED 2.00 ACRES)

30" CMP
EL. 622.81'

30" CMP
EL. 623.42'

30" RCP
EL. 622.69'

30" RCP
EL. 622.42'

36" RCP
EL. 620.08'

36" RCP
EL. 620.24'

R.O.W.

FENCE (TYP)

MATCH LINE STA. 28+00

EDGE
OF PAVEMENT

29+00

30+00

31+00

℄ CONST.

32+00

MATCH LINE STA. 33+00

N 89° 32' 06.28" E

W. LUCAS ROAD

LANDSCAPED
AREA

EDGE
OF PAVEMENT

18" RCP
EL. 621.01'

18" RCP
EL. 621.13'

R.O.W.

MONUMENT
SIGN

30' DRAINAGE
EASEMENT (TYP)

35' SANITARY
EASEMENT (TYP)

MICHAEL & HEATHER HART
DOC. NO. 20120724000894560
O.P.R.C.C.T.

BRANDON & CHAY NERSESIAN
DOC. NO. 20160531000673910
O.P.R.C.C.T.

DAVID & LEENA GREENSPAN FAMILY TRUST
DOC. NO. 20051116001623110
O.P.R.C.C.T.

BARRY M. & CATHERINE D. DAVIS
DOC. NO. 20170516000629560
O.P.R.C.C.T.

0 10 40
Feet

NOTES:

1. EXISTING UNDERGROUND UTILITY LINES NOT SHOWN FOR CLARITY.
2. FOR LEGEND SEE EXISTING CONDITIONS SHEET 1 OF 10.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

CORNERSTONE BAPTIST CHURCH EXHIBIT "A"
DOC. NO. 2003-0095484
O.P.R.C.C.T.
(CALLED 11.543 ACRES OF WHICH 0.304 ACRES
IS LOCATED IN COUNTY ROAD NO. 263)

55' NTMWD WATER
EASEMENT (TYP)

INTERNATIONAL FUTBOL ACADEMY-DALLAS, LLC
DOC. NO. 20201218002284090
O.P.R.C.C.T.
(CALLED 7.48 ACRES)

EXISTING CONCRETE
PAVEMENT AND SIGN

42" RCP
EL. 618.57'

40' NTMWD WATER
EASEMENT (TYP)

36" CMP
EL. 617.08'

R.O.W.

MATCH LINE STA. 33+00

PI 33+09.64

42" RCP
EL. 619.91'

42" RCP
EL. 619.57'

EDGE
OF PAVEMENT

42" RCP
EL. 618.79'

PI 36+28.92

CP-101
37+64.12
29.14' RT

34+00

35+00

36+00

℄ CONST.

37+00

MATCH LINE STA. 38+00

N 89° 32' 06.27" E

W. LUCAS ROAD

N 89° 48' 39.64" E

44"X24"
CULVERT
EL. 616.88'

30' DRAINAGE
EASEMENT (TYP)

35' SANITARY
EASEMENT (TYP)

LANDSCAPED
AREA

EDGE
OF PAVEMENT

48"X24" CULVERT
EL. 617.16'

LANDSCAPED
AREA

2-18" RCP

18" RCP
EL. 620.25'

18" RCP
EL. 620.16'

R.O.W.

48"X24" CULVERT
EL. 617.25'

30' DRAINAGE
EASEMENT (TYP)

44"X24" CULVERT
EL. 617.29'

44"X24"
CULVERT
EL. 616.87'

MONUMENT
SIGN

MONUMENT
SIGN

SANITARY SEWER
LIFT STATION

RATHBONE
DR.

EASEMENT DEDICATED
TO CITY OF PARKER

LOT 2-X

DRAINAGE AND UTILITY
EASEMENT TO THE
CITY OF PARKER

20' SANITARY
EASEMENT (TYP)

BEDELL FAMILY LIMITED PARTNERSHIP
VOL. 4670, PG. 1295
D.R.C.C.T.
(REMAINDER OF A CALLED 356 ACRES)

44"X24"
CULVERT
EL. 616.89'

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 3 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		69
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:10 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX03.dgn

INTERNATIONAL FUTBOL ACADEMY-DALLAS, LLC
DOC. NO. 20201218002284090
O.P.R.C.C.T.
(CALLED 7.48 ACRES)

STEWART FAMILY TRUST DOC. NO. 2005-0016386
O.P.R.C.C.T.
(CALLED 10.15 ACRES)

0 10 40
Feet

N

20' UTILITY EASEMENT (TYP)
FENCE (TYP)
R.O.W.
R.O.W.
36" CMP
EL. 616.80'
48" CMP
EL. 615.69'
48" CMP
EL. 615.24'
EDGE OF PAVEMENT
℄ CONST.
N 89° 48' 39.64" E
W. LUCAS ROAD
EDGE OF PAVEMENT
MATCH LINE STA. 38+00
MATCH LINE STA. 43+00
00
39+00
40+00
41+00
42+00
43
79'
20'
19'
20'
94'
19'
30' DRAINAGE EASEMENT (TYP)
R.O.W.
FENCE (TYP)
20' SANITARY EASEMENT (TYP)
40' NTMWD WATER EASEMENT (TYP)
BEDELL FAMILY LIMITED PARTNERSHIP
VOL. 4670, PG. 1295
D.R.C.C.T.
(REMAINDER OF A CALLED 356 ACRES)
10' SANITARY SEWER EASEMENT (TYP)
15' COSERV GAS EASEMENT (TYP)
20' SANITARY EASEMENT (TYP)

NOTES:

1. EXISTING UNDERGROUND UTILITY LINES NOT SHOWN FOR CLARITY.
2. FOR LEGEND SEE EXISTING CONDITIONS SHEET 1 OF 10.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

STEWART FAMILY TRUST DOC. NO. 2005-0016386
O.P.R.C.C.T.
(CALLED 10.15 ACRES)

JEFFREY R. HELGESON
DOC. NO. 20090925001194060
O.P.R.C.C.T.
AS DESCRIBED IN
DOC. NO. 99-0023979
O.P.R.C.C.T.
(CALLED 10.152 ACRES)

20' UTILITY EASEMENT (TYP)
FENCE (TYP)
R.O.W.
96" CMP
EL. 609.71'
96" CMP
EL. 609.52'
EDGE OF PAVEMENT
℄ CONST.
N 89° 48' 39.64" E
W. LUCAS ROAD
EDGE OF PAVEMENT
MATCH LINE STA. 43+00
MATCH LINE STA. 48+00
00
44+00
45+00
46+00
47+00
48
94'
20'
19'
19'
20'
94'
30' DRAINAGE EASEMENT (TYP)
R.O.W.
FENCE (TYP)
96" CMP
EL. 608.85'
96" CMP
EL. 609.10'
15' COSERV GAS EASEMENT (TYP)
10' SANITARY SEWER EASEMENT (TYP)
20' SANITARY EASEMENT (TYP)
BEDELL FAMILY LIMITED PARTNERSHIP
VOL. 4670, PG. 1295
D.R.C.C.T.
(REMAINDER OF A CALLED 356 ACRES)
PARKER BEDELL FARMS, LTD
DRAINAGE AND SANITARY SEWER EASEMENT
DOC. NO. 20100407000333730
O.P.R.C.C.T.
DRAINAGE AND SANITARY SEWER EASEMENT

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 4 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

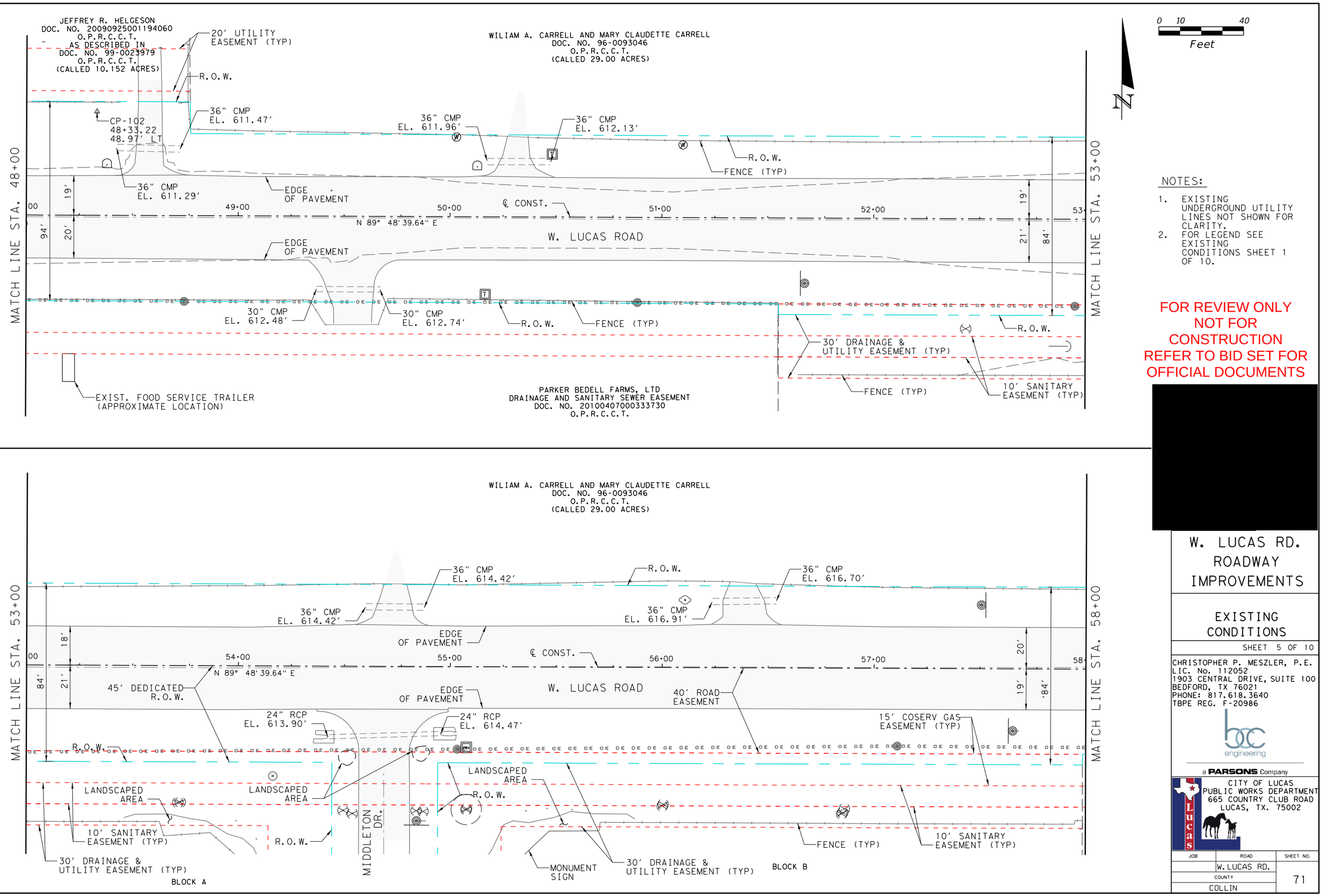
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		70
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:11 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX04.dgn



DATE: 4/6/2026 1:56:13 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX05.dgn

Texas 811 Know what's below. Call before you dig.

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 5 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		71
COLLIN		

WILIAM A. CARRELL AND MARY CLAUDETTE CARRELL
DOC. NO. 96-0093046
O.P.R.C.C.T.
(CALLED 29.00 ACRES)

CP-2
61+87.75
203.09' LT

R.O.W.

INGRAM LN.

ANTHONY L. SASSINE AND MELISSA K. HYATT
DOC. NO. 5589-003249
O.P.R.C.C.T.

20' UTILITY EASEMENT (TYP)

FENCE (TYP)

24" RCP
EL. 619.76'

24" RCP
EL. 621.11'

24" RCP
EL. 620.09'

MATCH LINE STA. 58+00

MATCH LINE STA. 63+00

EDGE OF PAVEMENT

59+00 60+00 61+00 62+00 63

PI 62+01.31

℄ CONST.

N 89° 48' 39.64" E

W. LUCAS ROAD

79'
20'
19'
30'
23'
93'

15' COSERV GAS EASEMENT (TYP)

10' SANITARY SEWER EASEMENT (TYP)

BEDELL FAMILY LIMITED PARTNERSHIP
VOL. 4670, PG. 1295
D.R.C.C.T.
(REMAINDER OF A CALLED 356 ACRES)

0 10 40
Feet

NOTES:

1. EXISTING UNDERGROUND UTILITY LINES NOT SHOWN FOR CLARITY.
2. FOR LEGEND SEE EXISTING CONDITIONS SHEET 1 OF 10.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ANTHONY L. SASSINE AND MELISSA K. HYATT
DOC. NO. 5589-003249
O.P.R.C.C.T.

18" CMP
18" CMP

RISING SUN RD.

25'X25' LANDSCAPE EASEMENT

20' UTILITY EASEMENT (TYP)

JASON MCCLURE AND AMY MCCLURE
DOC. NO. 20100202000106160
O.P.R.C.C.T.

25'X25' LANDSCAPE EASEMENT

20' DRAINAGE & UTILITY EASEMENT (TYP)

R.O.W.

FENCE (TYP)

MATCH LINE STA. 63+00

MATCH LINE STA. 68+00

EDGE OF PAVEMENT

64+00 65+00 66+00 67+00 68

℄ CONST.

N 89° 28' 39.32" E

W. LUCAS ROAD

94'
29'
25'
20'
100'
23'

LANDSCAPED AREA

15' COSERV GAS EASEMENT (TYP)

10' SANITARY SEWER EASEMENT (TYP)

BEDELL FAMILY LIMITED PARTNERSHIP
VOL. 4670, PG. 1295
D.R.C.C.T.
(REMAINDER OF A CALLED 356 ACRES)

LEWIS LN.

MONUMENT SIGN

AMENDED FINAL PLAT
ESTATES AT AUSTIN TRAIL
PHASE 1
DOC. NO. S4701-6331-2
P.R.D.C.T.

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 6 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		72
COLLIN		

DATE: 4/6/2026 1:56:14 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX06.dgn

Texas 811 Know what's below. Call before you dig.

JASON MCCLURE AND AMY MCCLURE
DOC. NO. 20100202000106160
O.P.R.C.C.T.

BRADLEY WAYNE BRAZEAL AND BRIGITTE BRAZEAL
DOC. NO. 20100527000535000
O.P.R.C.C.T.

RED STAR RD.

0 10 40
Feet

N

MATCH LINE STA. 68+00

MATCH LINE STA. 73+00

20' DRAINAGE & UTILITY EASEMENT (TYP)

R.O.W.

FENCE (TYP)

30" RCP
EL. 617.13'

30" RCP
EL. 617.28'

30" RCP
EL. 617.13'

30" RCP
EL. 616.95'

30" RCP
EL. 617.19'

30" RCP
EL. 617.27'

30" RCP
EL. 617.40'

EDGE OF PAVEMENT

℄ CONST.

68+00 69+00 70+00 71+00 72+00 73+00

N 89° 28' 39.32" E

W. LUCAS ROAD

17' 22' 100'

24' 21' 100'

LANDSCAPED AREA

STONE RIPRAP

30" RCP
EL. 616.01'

30" RCP
EL. 615.90'

BEE CAVE RD.

AMENDED FINAL PLAT
ESTATES AT AUSTIN TRAIL
PHASE 1
DOC. NO. S4701-6331-2
P.R.D.C.T.

ALAN & MICHELLE MCLEMORE
DOC. NO. 20090324000339360
O.P.R.C.C.T.

NOTES:

1. EXISTING UNDERGROUND UTILITY LINES NOT SHOWN FOR CLARITY.
2. FOR LEGEND SEE EXISTING CONDITIONS SHEET 1 OF 10.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

KRAIG AND KIMBERLY NUNN
DOC. NO. 05847-02851
P.R.D.C.T.

JANET E. KAPP
DOC. NO. 20191216001597940
O.P.R.C.C.T.
(REMAINDER OF A CALLED 30.282 ACRES)
AS DESCRIBED IN
VOL. 686, PG. 436

CP-103
76+16.63
47.38' LT

CITY OF LUCAS
20' R.O.W. & UTILITY EASEMENT

73+00 74+00 75+00 76+00 77+00 78+00

N 89° 28' 39.32" E

19' 21' 100'

20' 28' 80'

RETAINING WALL

50' LANDSCAPE BUFFER (TYP)

20' R.O.W & WATER LINE EASEMENT (TYP)

FENCE (TYP)

HELDER RUEDA MELENDEZ
DOC. NO. 20140723000767520
O.P.R.C.C.T.

DARREN HARVEY
DOC. NO. 20171222001687460
O.P.R.C.C.T.

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 7 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

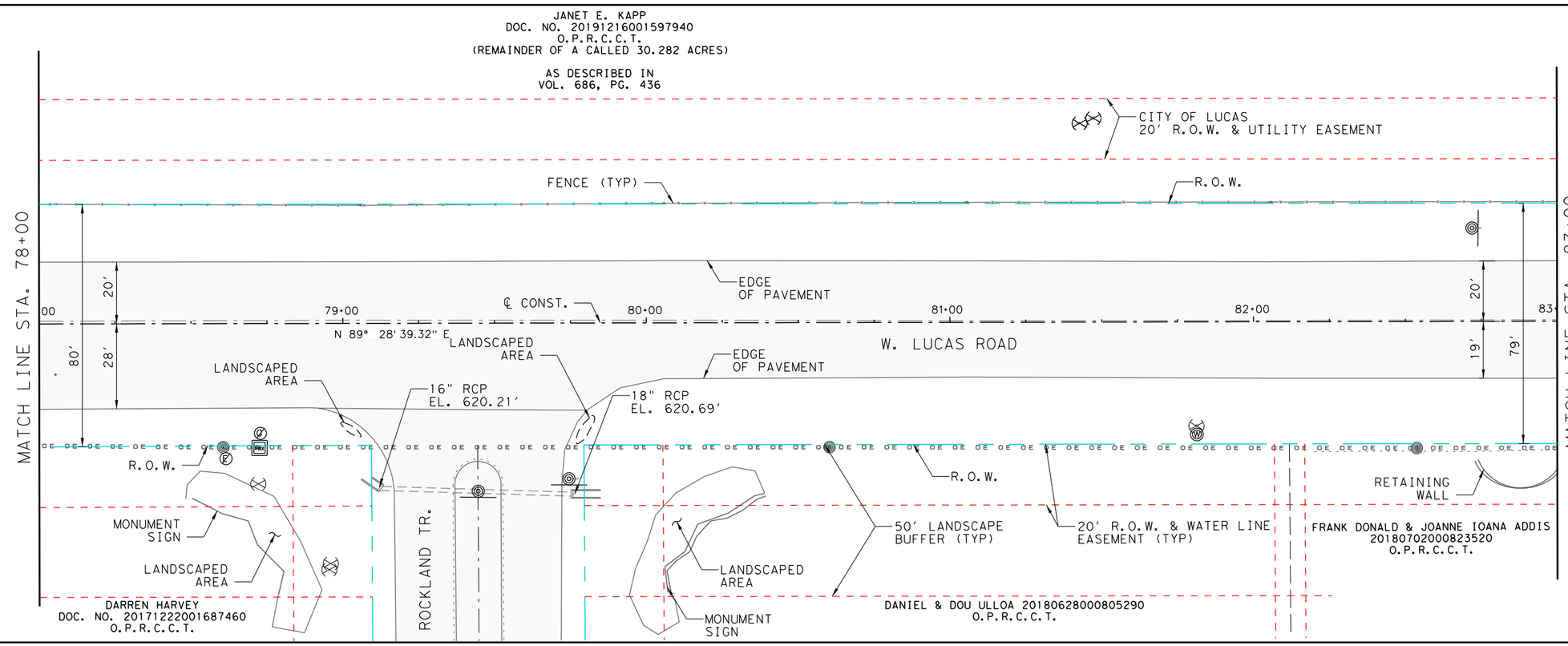
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		73
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:16 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_Ex07.dgn



DATE: 4/6/2026 1:56:17 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX08.dgn

Texas 811 Know what's below. Call before you dig.

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

EXISTING
CONDITIONS

SHEET 8 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		74
COLLIN		

JANET E. KAPP
DOC. NO. 20191216001597940
O.P.R.C.C.T.
(REMAINDER OF A CALLED 30.282 ACRES)

AS DESCRIBED IN
VOL. 686, PG. 436

TRINITY TABERNACLE ASSEMBLY OF GOD
DOC. NO. 20170119000081780
O.P.R.C.C.T.
(CALLED 7.47 ACRES)

16" RCP
EL. 614.75'

16" RCP
EL. 614.37'

PROPERTY LINE
(TYP)

CITY OF LUCAS
20' R.O.W. & UTILITY EASEMENT

16" RCP
EL. 613.46'

16" RCP
EL. 612.62'

FENCE (TYP)

18" RCP
EL. 615.20'

18" RCP
EL 615.04'

R.O.W.

18" RCP
EL. 613.42'

18" RCP
EL. 613.11'

18" RCP
EL. 615.21'

18" RCP
EL 614.95'

18" RCP
EL. 613.46'

18" RCP
EL. 613.11'

MATCH LINE STA. 88+00

EDGE
OF PAVEMENT

W. LUCAS ROAD

00 89+00 90+00 91+00 92+00 93

N 89° 36' 05.14" E

℄ CONST.

S 0° 27' 05.53" E

19'
19'
79'
20'
16'
81'

EDGE
OF PAVEMENT

R.O.W.

20' R.O.W. & WATER LINE
EASEMENT (TYP)

VEGETATION
PLANTER (TYP)

MATCH LINE STA. 93+00

LOVEJOY INDEPENDENT SCHOOL DISTRICT
DOC. NO. 2002-0137893
O.P.R.D.C.T.
(CALLED 30.0 ACRES)

ROBERT E. SWEELY
VOL. 2624, PG. 350
D.R.C.C.T.
(CALLED 2.334 ACRES)

FINAL PLAT
LOT 1, BLOCK 1
LUCAS FIRE STATION ADDITION
DOC. NO. 20140520010001510
P.R.D.C.T.

15' DRAINAGE
& UTILITY
EASEMENT (TYP)

30' DRAINAGE
EASEMENT (TYP)

18" RCP
EL. 612.60'

18" RCP
EL. 612.36'

10' UTILITY
EASEMENT (TYP)

20' R.O.W.
& UTILITY
EASEMENT

R.O.W.

FENCE (TYP)

18" RCP
EL. 608.82'

R.O.W.

36" CMP SILTED
EL. 611.24'

36" CMP SILTED
EL. 610.54'

VEGETATION
PLANTER (TYP)

36" CMP
EL. 609.72'

36" CMP
EL. 609.91'

36" RCP
EL. 608.43'

EDGE
OF PAVEMENT

W. LUCAS ROAD

00 94+00 95+00 96+00 97+00 98

N 89° 36' 05.14" E

℄ CONST.

21'
16'
81'
25'
16'
80'

24" CMP
EL. 608.23'

24" CMP
EL. 608.29'

24" CMP
EL. 606.69'

24" RCP
EL. 609.95'

24" RCP
EL. 609.42'

24" CMP
EL. 608.32'

24" CMP
EL. 608.07'

24" CMP
EL. 606.75'

R.O.W.

DRIVEWAY (SOD)

24" RCP
EL. 609.61'

24" RCP
EL. 610.06'

LOVEJOY INDEPENDENT SCHOOL DISTRICT
DOC. NO. 2002-0137893
O.P.R.D.C.T.
(CALLED 30.0 ACRES)

20' R.O.W. & WATER LINE
EASEMENT (TYP)

PROPERTY LINE
(TYP)

ESTATE OF
SPURGIN TRUMAN
(NO DEED OF
RECORD FOUND)

MATCH LINE STA. 93+00

MATCH LINE STA. 98+00

0 10 40
Feet

NOTES:

1. EXISTING UNDERGROUND UTILITY LINES NOT SHOWN FOR CLARITY.
2. FOR LEGEND SEE EXISTING CONDITIONS SHEET 1 OF 10.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 9 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		75
COLLIN		

DATE: 4/6/2026 1:56:19 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX09.dgn

Texas 811 Know what's below. Call before you dig.

**TRAFFIC SIGNAL MAINTAINED BY TXDOT

24" RCP
EL. 609.35'

CP-3
99+16.56
173.30' LT

24" RCP
EL. 608.99'

FINAL PLAT
LOT 1, BLOCK 1
LUCAS FIRE STATION ADDITION
DOC. NO. 20140520010001510
P.R.D.C.T.

COUNTRY CLUB ROAD

12' WATERLINE EASEMENT (TYP)

MARTIN & VARANJUTA THOMAS
DOC. NO. 20120724000892310
O.P.R.C.C.T.

PROPERTY LINE (TYP)

REPLAT
CIMARRON PHASE II
LOTS 24R-26R, BLOCK A
DOC. NO. 20121011010002500
P.R.D.C.T.

COMMON AREA EASEMENT

SIGNAL POLE

24" RCP
EL. 606.20'

R.O.W.

SIGNAL POLE

R.O.W.

EDGE OF PAVEMENT

MATCH LINE STA. 98+00

27'

EDGE OF PAVEMENT

END RECONSTRUCTION
STA. 98+91.80

℄ CONST.

END PROJECT
STA. 100+25.00

99+00

100+00

101+00

N 89° 36' 05.14" E

N 89° 17' 33.82" E

W. LUCAS ROAD

80'

41'

24" RCP
EL. 605.51'

PI 99+63.20

POT 101+00.30

36" RCP
EL. 602.25'

EDGE OF PAVEMENT

36" RCP
EL. 600.91'

36" RCP
EL. 600.99'

36" RCP
EL. 601.73'

SIGNAL POLE

SIGNAL POLE

36" RCP
EL. 603.95'

24" RCP
EL. 604.94'

R.O.W.

24" CMP
EL. 608.64'

24" CMP
EL. 606.30'

24" RCP
EL. 605.83'

ALAN RAY SPURGIN
VOL. 1328 PG. 851
D.R.C.C.T.
(CALLED 2.92 ACRES)

FINAL PLAT
LOT 1, BLOCK A
GRAIGS CAR CARE
DOC. NO.
20060210010000490
P.R.C.C.T.

MAHMOUD PROPERTIES LLC
DOC. NO. 20191009001265330
O.P.R.C.C.T.
(CALLED 2.25 ACRES)

HB ENTERPRISES, LLC
DOC. NO. 20170331000413910
O.P.R.C.C.T.
(CALLED 1.281 ACRES)

0 10 40
Feet

N

NOTES:

1. EXISTING UNDERGROUND UTILITY LINES NOT SHOWN FOR CLARITY.
2. FOR LEGEND SEE EXISTING CONDITIONS SHEET 1 OF 10.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING CONDITIONS

SHEET 10 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	76
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:20 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_EX10.dgn

Texas811 Know what's below. Call before you dig.

CL CONSTRUCTION ALONG WEST LUCAS ROAD

<* 1 DESCRIBE CHAIN CL_WLR_02

Chain CL_WLR_02 contains:
200 201 202 203 204 205 206

Beginning chain CL_WLR_02 description

Point 200 N 7,083,033.8292 E 2,544,213.1719 Sta 10+00.36

Course from 200 to 201 N 89° 32' 06" E Dist 2,309.2772

Point 201 N 7,083,052.5675 E 2,546,522.3731 Sta 33+09.64

Course from 201 to 202 N 89° 32' 06" E Dist 319.2754

Point 202 N 7,083,055.1582 E 2,546,841.6380 Sta 36+28.92

Course from 202 to 203 N 89° 48' 40" E Dist 2,572.3956

Point 203 N 7,083,063.6432 E 2,549,414.0196 Sta 62+01.31

Course from 203 to 204 N 89° 28' 39" E Dist 2,334.8052

Point 204 N 7,083,084.9311 E 2,551,748.7277 Sta 85+36.12

Course from 204 to 205 N 89° 36' 05" E Dist 1,427.0834

Point 205 N 7,083,094.8584 E 2,553,175.7766 Sta 99+63.20

Course from 205 to 206 N 89° 17' 34" E Dist 137.0980

Point 206 N 7,083,096.5507 E 2,553,312.8642 Sta 101+00.30

Ending chain CL_WLR_02 description

CL CONSTRUCTION ALONG RATHBONE DRIVE

Chain CL_RATH contains:
234 235

Beginning chain CL_RATH description
Description: 230 231

Point 234 N 7,083,052.9796 E 2,546,573.1611 Sta 1+00.00

Course from 234 to 235 S 0° 27' 54" E Dist 150.0000

Point 235 N 7,082,902.9845 E 2,546,574.3782 Sta 2+50.00

Ending chain CL_RATH description

CL CONSTRUCTION ALONG MIDDLETON DRIVE

Chain CL_MIDLTN contains:
1010 1011

Beginning chain CL_MIDLTN description

Point 1010 N 7,083,061.2275 E 2,548,681.6919 Sta 1+00.00

Course from 1010 to 1011 S 0° 11' 20.36" E Dist 100.0000

Point 1011 N 7,082,961.2280 E 2,548,682.0218 Sta 2+00.00

Ending chain CL_MIDLTN description

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

VERTICAL & HORIZONTAL DATA

SHEET 1 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	77
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:20 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_VERT_HORZ_01.dgn

CL CONSTRUCTION ALONG INGRAM LANE

Chain CL_INGRAM contains:
1020 1021

Beginning chain CL_INGRAM description

Point 1020 N 7,083,163.4671 E 2,549,360.6536 Sta 0+00.00

Course from 1020 to 1021 S 0° 00' 18.53" W Dist 100.0000

Point 1021 N 7,083,063.4671 E 2,549,360.6446 Sta 1+00.00

Ending chain CL_INGRAM description

CL CONSTRUCTION ALONG RISING SUN ROAD

Chain CL_RISESUN contains:
1040 1041

Beginning chain CL_RISESUN description

Point 1040 N 7,083,167.5246 E 2,549,839.4894 Sta 0+00.00

Course from 1040 to 1041 S 1° 14' 32.79" E Dist 100.0057

Equation: Sta 1+00.01 (BK) = Sta 1+00.00 (AH) ---------- End Region 1 / Begin Region 2

Point 1041 N 7,083,067.5424 E 2,549,841.6578 Sta 1+00.00

Ending chain CL_RISESUN description

CL CONSTRUCTION ALONG LEWIS LANE ROAD

Chain CL_LEWIS contains:
1030 1031

Beginning chain CL_LEWIS description

Point 1030 N 7,083,067.5424 E 2,549,841.6578 Sta 1+00.00

Course from 1030 to 1031 S 1° 14' 32.79" E Dist 100.0064

Equation: Sta 2+00.01 (BK) = Sta 2+00.00 (AH) ---------- End Region 1 / Begin Region 2

Point 1031 N 7,082,967.5595 E 2,549,843.8263 Sta 2+00.00

Ending chain CL_LEWIS description

CL CONSTRUCTION ALONG RED STAR ROAD

Chain CL_REDSTAR contains:
1050 1051

Beginning chain CL_REDSTAR description

Point 1050 N 7,083,172.6569 E 2,550,402.3546 Sta 0+00.00

Course from 1050 to 1051 S 0° 08' 57.16" E Dist 100.0000

Point 1051 N 7,083,072.6572 E 2,550,402.6150 Sta 1+00.00

Ending chain CL_REDSTAR description

CL CONSTRUCTION ALONG ROCKLAND TRAIL

Chain CL_ROCKTR contains:
1070 1071

Beginning chain CL_ROCKTR description

Point 1070 N 7,083,079.5340 E 2,551,156.9528 Sta 1+00.00

Course from 1070 to 1071 S 0° 49' 12.32" E Dist 133.9903

Point 1071 N 7,082,945.5574 E 2,551,158.8705 Sta 2+33.99

Ending chain CL_ROCKTR description

CL CONSTRUCTION ALONG BEE CAVES ROAD

Chain CL_BCAVE contains:
1060 CUR CL_BCAVE1 1061

Beginning chain CL_BCAVE description

Point 1060 N 7,083,072.6572 E 2,550,402.6150 Sta 1+00.00

Course from 1060 to PC CL_BCAVE1 S 0° 31' 20.68" E Dist 46.1646

Curve Data

Curve CL_BCAVE1				
P.I. Station		1+67.27	N 7,083,005.3924	E 2,550,403.2283
Delta	-	9° 44' 11.19" (LT)		
Degree	-	23° 07' 28.09"		
Tangent	-	21.1031		
Length	-	42.1045		
Radius	-	247.7712		
External	-	0.8971		
Long Chord	-	42.0539		
Mid. Ord.	-	0.8938		
P.C. Station		1+46.16	N 7,083,026.4945	E 2,550,403.0359
P.T. Station		1+88.27	N 7,082,984.6267	E 2,550,406.9867
C.C.			N 7,083,028.7536	E 2,550,650.7968
Back	-	S 0° 31' 20.68" E		
Ahead	-	S 10° 15' 31.87" E		
Chord Bear	-	S 5° 23' 26.27" E		

Course from PT CL_BCAVE1 to 1061 S 9° 55' 47.86" E Dist 11.7309

Point 1061 N 7,082,973.0715 E 2,550,409.0096 Sta 2+00.00

Ending chain CL_BCAVE description

CL CONSTRUCTION ALONG LOVEJOY SCHOOL DRIVEWAY

Chain CL_LOVEJOY contains:
150 CUR LOVEJOY1 151 152

Beginning chain CL_LOVEJOY description

Point 150 N 7,083,088.7185 E 2,552,269.2367 Sta 1+00.00

Course from 150 to PC LOVEJOY1 S 0° 27' 05.53" E Dist 47.1047

Curve Data

Curve LOVEJOY1				
P.I. Station		2+46.32	N 7,082,942.4036	E 2,552,270.3898
Delta	-	89° 32' 54.47" (LT)		
Degree	-	57° 17' 45.22"		
Tangent	-	99.2148		
Length	-	156.2912		
Radius	-	99.9998		
External	-	40.8673		
Long Chord	-	140.8627		
Mid. Ord.	-	29.0112		
P.C. Station		1+47.10	N 7,083,041.6153	E 2,552,269.6079
P.T. Station		3+03.40	N 7,082,942.4036	E 2,552,369.6046
C.C.			N 7,083,042.4034	E 2,552,369.6046
Back	-	S 0° 27' 05.53" E		
Ahead	-	Due East		
Chord Bear	-	S 45° 13' 32.76" E		

Course from PT LOVEJOY1 to 151 Due East Dist 281.0602

Point 151 N 7,082,942.4036 E 2,552,650.6648 Sta 5+84.46

Course from 151 to 152 Due East Dist 45.5439

Point 152 N 7,082,942.4036 E 2,552,696.2087 Sta 6+30.00

Ending chain CL_LOVEJOY description

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

VERTICAL & HORIZONTAL DATA

SHEET 2 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bec engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	78
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.
DATE: 4/6/2026 1:56:21 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_VERT_HORZ_02.dgn

CL PROFILE ALONG WEST LUCAS ROAD

<x 2 PRINT PROFILE CL_WLR_PR03

Beginning profile CL_WLR_PR03 description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	12+07.78	642.7871				
VPI 2	16+68.64	636.7000	-1.3208			
VPI 3	20+09.64	632.9900	-1.0880			
VPI 4	27+99.64	626.5000	-0.8215			
VPI 5	32+55.64	623.3400	-0.6930			
VPC	42+00.41	617.9387	-0.5717	K = 301.9		
VPI 6	42+82.50	617.4694		164.1791	82.0895	82.0895
VPT	43+64.59	617.4466	-0.0278			
VPC	53+37.73	617.1760	-0.0278	K = 130.0		
Low Point	53+41.35	617.1755				
VPI 7	54+04.00	617.1575		132.5390	66.2695	66.2695
VPT	54+70.27	617.8147	0.9917			
VPC	57+11.56	620.2076	0.9917	K = 263.9	SSD = 1064.3	
VPI 8	58+01.56	621.1002		180.0061	90.0030	90.0030
VPT	58+91.56	621.3789	0.3097			
VPC	63+92.14	622.9292	0.3097	K = 222.5	SSD = 932.4	
High Point	64+61.05	623.0359				
VPI 9	64+79.64	623.2002		175.0004	87.5002	87.5002
VPT	65+67.14	622.7830	-0.4768			
VPC	69+79.66	620.8162	-0.4768	K = 416.0		
VPI 10	71+04.66	620.2202		250.0012	125.0006	125.0006
Low Point	71+77.98	620.3434				
VPT	72+29.66	620.3755	0.1242			
VPC	75+11.75	620.7260	0.1242	K = 320.3		
VPI 11	76+11.75	620.8502		199.9983	99.9991	99.9991
VPT	77+11.75	621.5988	0.7486			
VPC	81+34.64	624.7645	0.7486	K = 122.7	SSD = 451.0	
High Point	82+26.47	625.1082				
VPI 12	82+59.64	625.7002		249.9995	124.9997	124.9997
VPT	83+84.64	624.0883	-1.2895			
VPI 13	87+44.31	619.4502	-1.2895			
VPI 14	91+12.27	616.1347	-0.9010			
VPI 15	94+49.41	613.6802	-0.7280			
VPI 16	97+11.27	611.4767	-0.8415			
VPI 17	98+43.17	610.5068	-0.7353			
VPI 18	98+91.44	610.0355	-0.9765			
VPI 19	99+11.43	609.7489	-1.4338			

Ending profile CL_WLR_PR03 description

CL PROFILE ALONG RATHBONE DRIVE

Beginning profile PR_RATH_NEW description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	1+00.00	623.1600				
VPI 2	1+31.00	622.5400	-2.0000			
VPI 3	1+34.00	622.6000	2.0000			
VPC	1+34.00	622.6000	1.8000	K = 10.0		
VPI 4	1+44.00	622.7800		20.0000	10.0000	10.0000
VPT	1+54.00	623.1600	3.8000			
VPI 5	1+54.00	623.1600				
VPC	1+57.88	623.3053	3.7500	K = 5.0	SSD = 13290.1	
VPI 6	1+58.00	623.3100		0.2500	0.1250	0.1250
VPT	1+58.12	623.3146	3.7000			
VPC	1+58.50	623.3285	3.7000	K = 5.0	SSD = 184.4	
VPI 7	1+68.00	623.6800		19.0000	9.5000	9.5000
High Point	1+77.00	623.6707				
VPT	1+77.50	623.6705	-0.1000			
VPI 8	1+78.00	623.6700	-0.1000			
VPI 9	2+00.00	623.6500	-0.0909			

Ending profile PR_RATH_NEW description

CL PROFILE ALONG RATHBONE DRIVE (LT/RT)

Beginning profile PR_RATH_LT_NEW description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	1+00.00	623.1100				
VPI 2	1+31.00	622.4900	-2.0000			
VPI 3	1+51.00	622.8900	2.0000			
VPC	1+51.00	622.8900	1.5882	K = 21.4	SSD = 435.4	
VPI 4	1+68.00	623.1600		34.0000	17.0000	17.0000
VPT	1+85.00	623.1600	0.0000			

Ending profile PR_RATH_LT_NEW description

Beginning profile PR_RATH_RT_NEW description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	1+00.00	623.2200				
VPI 2	1+31.00	622.6000	-2.0000			
VPI 3	1+51.00	623.0000	2.0000			
VPC	1+51.00	623.0000	1.4706	K = 22.2	SSD = 451.5	
VPI 4	1+68.00	623.2500		34.0000	17.0000	17.0000
High Point	1+83.69	623.2404				
VPT	1+85.00	623.2400	-0.0588			

Ending profile PR_RATH_RT_NEW description

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

VERTICAL &
HORIZONTAL DATA

SHEET 3 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	79
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:21 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_VERT_HORZ_03.dgn

Texas 811 Know what's below. Call before you dig.

CL PROFILE ALONG MIDDLETON DRIVE

Beginning profile PR_MIDLTON_NEW description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	1+00.00	617.8000				
VPI 2	1+31.00	617.1800	-2.0000			
VPC	1+31.00	617.1800	1.0000	K = 7.3	SSD = 186.3	
High Point	1+38.26	617.2163				
VPI 3	1+45.00	617.3200		28.0000	14.0000	14.0000
VPT	1+59.00	616.9200	-2.8571			
VPI 4	1+59.00	616.9200				
VPI 5	1+62.00	616.8300	-3.0000			
VPC	1+62.00	616.8300	-2.8000	K = 18.2		
VPI 6	1+72.00	616.5500		20.0000	10.0000	10.0000
VPT	1+82.00	616.3800	-1.7000			

Ending profile PR_MIDLTON_NEW description

CL PROFILE ALONG INGRAM LANE

Beginning profile PR_INGRAM description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	0+03.73	623.1295				
VPI 2	0+12.00	623.0590	-0.8515			
VPC	0+15.00	623.0209	-1.2725	K = 12.3	SSD = 286.8	
VPI 3	0+30.00	622.8300		30.0000	15.0000	15.0000
VPT	0+45.00	622.2724	-3.7172			
VPC	0+49.00	622.1237	-3.7172	K = 11.6		
VPI 4	0+59.00	621.7520		20.0000	10.0000	10.0000
VPT	0+69.00	621.5520	-2.0000			
VPI 5	0+69.00	621.5520				
VPI 6	1+00.00	622.1720	2.0000			

Ending profile PR_INGRAM description

CL PROFILE ALONG RISING SUN ROAD

Beginning profile PR_RISINGSUN description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	0+22.45	623.4270				
VPC	0+22.45	623.4270	-1.0267	K = 3.8	SSD = 177.9	
VPI 2	0+29.95	623.3500		15.0000	7.5000	7.5000
VPT	0+37.45	622.9805	-4.9272			
VPC	0+39.00	622.9041	-4.9272	K = 10.2		
VPI 3	0+54.00	622.1650		30.0000	15.0000	15.0000
VPT	0+69.00	621.8688	-1.9747			
VPI 4	0+69.00	621.8688				
VPI 5	1+00.01	622.4890	2.0000			

Ending profile PR_RISINGSUN description

CL PROFILE ALONG LEWIS LANE

Beginning profile PR_LEWIS description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	1+00.00	622.4863				
VPI 2	1+31.00	621.8660	-2.0010			
VPI 3	1+66.00	21.2944	-1.6331			
VPI 4	1+96.00	620.9850	-1.0315			

Ending profile PR_LEWIS description

CL PROFILE ALONG RED STAR ROAD

Beginning profile PR_REDSTAR description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	0+04.00	622.0770				
VPC	0+04.00	622.0770	-0.9750	K = 4.4	SSD = 156.4	
VPI 2	0+14.00	621.9795		20.0000	10.0000	10.0000
VPT	0+24.00	621.4280	-5.5152			
VPC	0+29.00	621.1522	-5.5152	K = 10.3		
VPI 3	0+49.00	620.0492		40.0000	20.0000	20.0000
VPT	0+69.00	619.7250	-1.6210			
VPI 4	0+69.00	619.7250				
VPI 5	1+00.00	620.3450	2.0000			

Ending profile PR_REDSTAR description

CL PROFILE ALONG BEE CAVES ROAD

Beginning profile PR_BCAVE description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	1+00.00	620.3500				
VPI 2	1+31.00	619.7280	-2.0065			
VPI 3	1+80.00	618.4077	-2.6945			

Ending profile PR_BCAVE description

CL PROFILE ALONG ROCKLAND TRAIL

Beginning profile PR_ROCKTR_NEW description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	1+00.00	623.3400				
VPI 2	1+31.00	622.7200	-2.0000			
VPI 3	1+40.00	622.9000	2.0000			
VPI 4	1+55.00	623.2000	2.0000			
VPI 5	1+70.00	623.8800	4.5333			
VPI 6	1+72.50	623.9900	4.4000			
VPI 7	1+85.00	624.5600	4.5600			
VPI 8	1+97.50	624.7400	1.4400			
VPI 9	2+15.76	625.0000	1.4239			

Equation: Sta 2+33.99 (BK) = Sta 0+00.00 (AH)

Ending profile PR_ROCKTR_NEW description

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

VERTICAL & HORIZONTAL DATA

SHEET 4 OF 4

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bgc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	80
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:22 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_VERT_HORZ_04.dgn

15' NTMWD EASEMENT (TYP)

5' COSERV GAS EASEMENT (TYP)

EXIST. SIDEWALK

EXIST. R.O.W.

DITCH BOTTOM K1

MATCH TO EXISTING ASPHALT BEGIN TYPE II CURB (MONOLITHIC)

TYPE II CURB (MONOLITHIC)

EDGE OF PAVEMENT

SAW CUT EXIST. PVMT.

E. BETHANY DRIVE

W. LUCAS ROAD

POT 10+00.36

℄ CONST.

11+00

12+00

13+

N 89° 32' 06.28" E

44'

BEGIN PROJECT STA. 10+00.00

FACE OF CURB (TYP)

BEGIN RECONSTRUCTION BEGIN CONCRETE PAVEMENT MATCH EXISTING PAVEMENT +08.14

4'

22'

2'

UNPAVED SHOULDER EDGE OF PAVEMENT

225' R

229' R

EXIST R.O.W.

DITCH BOTTOM B1

ANGEL PARKWAY (F.M. 2551)

15' COUNTY RD. EASEMENT (TYP)

30' DRAINAGE EASEMENT (TYP)

SANITARY LIFT STATION

EXIST. FENCE

MATCH LINE STA. 13+00

0 10 40

Feet

LEGEND:

RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH

CONCRETE RIPRAP

COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

645.06

(-)2.0000 %

EXISTING GROUND @ ℄ CONST.

BEGIN PROJECT
BEGIN RECONSTRUCTION
BEGIN CONCRETE PAVEMENT
STA. 12+08.14
ELEV. 642.79'
MATCH EXISTING PAVEMENT

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

(-)1.2736 %

642.79

PGL @ ℄ CONST.

(-)1.3208 %

STA. 10+41.00
EL. - 644.24'

L = 30.00'

STA = 10+65.00
EL - 644.60'

640.17

642.79

(-)1.10 %

(-)0.92 %

(-)2.46 %

639.57

DITCH K1

DITCH B1

645

640

635

630

PROP.

EXIST.

644.96

643.70

643.51

643.08

642.87

642.23

642.23

641.57

641.67

10+00

11+00

12+00

13+00

MATCH LINE STA. 13+00

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 1 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	81
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:25 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP01.dgn

Texas811 Know what's below. Call before you dig.

RIPRAP & SET BY OTHERS
EXIST. SIDEWALK
EXIST. R.O.W.
END TYPE II CURB (MONOLITHIC)
SAWCUT
TYPE I CURB RAMP
TYPE I CURB RAMP
SAWCUT
EXIST. SIDEWALK
DITCH BOTTOM K1
DITCH BOTTOM K2
BEGIN TYPE II CURB (MONOLITHIC)
CULVERT K1
TYPE II CURB (MONOLITHIC)
END TYPE II CURB (MONOLITHIC)
EDGE OF PAVEMENT
FACE OF CURB (TYP)
+48.36 7.00' LT 2' R
EDGE OF PAVEMENT
UNPAVED SHOULDER
+45.06 7.00' LT
FACE OF CURB (TYP)
MATCH LINE STA. 13+00
MATCH LINE STA. 18+00
33'
4'
32'
2'
14'
22'
225' R
221' R
N 89° 32' 06.28" E
℄ CONST. +48.36 3.00' RT
W. LUCAS ROAD
7' R +45.06 7.00' RT
EDGE OF PAVEMENT
UNPAVED SHOULDER
DITCH BOTTOM B1
EXIST. R.O.W.
30' DRAINAGE EASEMENT
35' SANITARY EASEMENT
EXIST. FENCE
EXIST. FENCE
SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL
EXISTING GROUND @ ℄ CONST.
PGL @ ℄ CONST.
VPI 16+68.64 EL. = 636.70'
638.07
633.23
(-)1.16 %
(-)1.92 %
(-)1.20 %
(-)1.44 %
(-)1.14 %
(-)1.16 %
(-)1.08 %
(-)1.44 %
(-)1.48 %
(-)1.04 %
(-)1.08 %
(-)1.3208 %
(-)1.0880 %
(-)1.02 %
(-)1.12 %
(-)1.04 %
(-)0.96 %
(-)1.08 %
DITCH K1
DITCH A1
DITCH B1
645
640
635
630
PROP. EXIST.
641.57 641.67
640.91 641.23
640.25 640.71
639.59 640.05
638.93 639.35
638.27 638.69
637.61 638.11
636.95 637.32
636.36 636.84
635.82 636.33
635.27 635.72
13+00
14+00
15+00
16+00
17+00
18+00

0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 2 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	82
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:26 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP02.dgn

EXIST. FENCE
EXIST. SIDEWALK
EXIST. R.O.W.
BEGIN SIDEWALK +63.41
CULVERT K2 TIE-IN 68.30' BEGIN 48" RCP 19+48.31 50.08' LT
+08.75 60.00'
PROPOSED DRAINAGE & UTILITY EASEMENT (VARIES FROM 14.4' TO
PROPOSED DRAINAGE & UTILITY EASEMENT (VARIES)
PROPERTY LINE
REPLACE GATE IN KIND
CULVERT A1 +37.84 60.00'
END FENCE
END FENCE REMOVAL
ROBERT STRATOR ROAD
PROPERTY LINE
TOP OF DITCH
DITCH BOTTOM A2 +57.84 60.00'
TOP OF DITCH
DITCH BOTTOM A1
BEGIN FENCE REMOVAL
8' CONCRETE SIDEWALK
EXIST. R.O.W.
EXISTING FENCE TO BE RELOCATED
DITCH K2
BEGIN FENCE
RELOCATE MAILBOX
MATCH LINE STA. 18+00
MATCH LINE STA. 23+00
+95.06 7.00' LT
+20.06 7.00' LT
7' R
7' R
CULVERT K2
+35.41 7.00' LT
+68.94 7.00' LT
EDGE OF PAVEMENT
UNPAVED SHOULDER
+85.96 7.00' LT
+10.94 7.00' LT
BEGIN FENCE
BEGIN FENCE REMOVAL
+84.85 7.00' LT
19+00
20+00
21+00
22+00
℄ CONST.
N 89° 32' 06.28" E
+95.06 7.00' RT
+20.06 7.00' RT
EDGE OF PAVEMENT
UNPAVED SHOULDER
7' R
+35.41 7.00' RT
7' R
+68.94 7.00' RT
W. LUCAS ROAD
FACE OF CURB (TYP)
7' R
+85.96 7.00' RT
7' R
+10.94 7.00' RT
7' R
+84.85 7.00' RT
EXIST. R.O.W.
DITCH BOTTOM B1
35' SANITARY EASEMENT
30' DRAINAGE EASEMENT
EXIST. FENCE
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE

0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.
4. CULVERT K2 RECEIVED RUNOFF FROM WALMART DETENTION BASIN. HW AND TW WERE CALCULATED USING HY-8 VERSION 7.80.
   Q 25YR = 80.75
   Q 100YR = 97.28
   HW25YR = 625.73
   HW100YR = 626.49
   TW 25YR = 621.99
   TW100YR = 622.53

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

TOP OF MH EL. = 633.17'
TOP OF MH EL. = 633.65'
VPI 20+09.64 EL. = 632.99
EXISTING GROUND @ ℄ CONST.
PGL @ ℄ CONST.
(-)1.0880 %
(-)0.8215 %
(-)0.92 %
(-)0.94 %
(-)0.84 %
(-)1.08 %
(-)0.68 %
(-)0.88 %
(-)1.02 %
(-)0.82 %
(-)0.82 %
(-)1.14 %
(-)0.51 %
(-)2.52 %
DITCH A1
DITCH B1
627.61
HW 100-YR EL = 626.49'
HW 25-YR EL = 625.73'
PRECAST BASE 8'X3'
PRECAST BASE 8'X3'
HGL
EL. = 621.65'
EL. = 621.48'
EL. = 621.43'
(-)0.5208 %
CULVERT K2 (CLASS II) (48" RCP)
(-)0.5208 %

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

	635	630	625	620
PROP.	635.27	634.73	634.18	633.64
EXIST.	635.72	635.24	634.81	634.29

	633.10	632.66	632.25	631.84	631.43	631.02	630.61
PROP.	633.76	633.30	632.84	632.42	631.99	631.60	631.21
EXIST.							

18+00 19+00 20+00 21+00 22+00 23+00

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 3 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	83
	COUNTY	
	COLLIN	

DATE: 4/6/2026 1:56:27 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP03.dgn

Texas 811 Know what's below. Call before you dig.

MATCH LINE STA. 23+00

MATCH LINE STA. 28+00

21' PROPOSED DRAINAGE & UTILITY EASEMENT
EXISTING FENCE TO BE RELOCATED
TOP OF DITCH
DITCH BOTTOM A2
8' CONCRETE SIDEWALK
EXIST. R.O.W.
PROPERTY LINE
END FENCE
END FENCE REMOVAL
+94.08 60.00'
+14.08 60.00'
TOP OF DITCH
DITCH BOTTOM A3
EXIST. R.O.W.
PROPERTY LINE
PIPE RAIL FENCE
BEGIN FENCE +53.09 60.99' LT
BEGIN FENCE REMOVAL
PROPERTY LINE
REPLACE GATE IN KIND +02.00 60.00'
END FENCE +98.00 60.99' LT
+22.00 60.00'
PIPE RAIL FENCE
21' PROPOSED DRAINAGE & UTILITY EASEMENT
BEGIN FENCE +90.97 60.99' LT
REPLACE GATE IN KIND
+86.97 60.00'
BEGIN FENCE +26.00 60.99' LT
END FENCE +62.97 60.99' LT
+66.97 60.00'
RELOCATE MAILBOX
EXIST. FENCE TO BE REMOVED
CULVERT A2
CULVERT A3
END FENCE REMOVAL
RELOCATE MAILBOX
RELOCATE MAILBOX
2'
22'
14'
+29.85 7.00' LT
EDGE OF PAVEMENT
UNPAVED SHOULDER
+41.85 7.00' LT
+66.96 7.00' LT
7' R
7' R
+41.09 7.00' LT
7' R
+86.09 7.00' LT
FACE OF CURB (TYP)
+50.09 7.00' LT
7' R
+75.09 7.00' LT
7' R
24+00
25+00
26+00
27+00
28+00
℄ CONST.
W. LUCAS ROAD
N 89° 32' 06.28" E
CULVERT K2
+29.85 7.00' RT
FACE OF CURB (TYP)
7' R
+41.85 7.00' RT
+66.96 7.00' RT
+41.09 7.00' RT
+86.09 7.00' RT
+50.09 7.00' RT
+75.09 7.00' RT
EDGE OF PAVEMENT
UNPAVED SHOULDER
2'
EXIST. R.O.W.
DITCH BOTTOM B1
EXIST. FENCE
30' DRAINAGE EASEMENT
35' SANITARY EASEMENT
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

TOP OF MH
EL. = 628.89'
EXISTING GROUND @ ℄ CONST.
DITCH B1
PGL @ ℄ CONST.
(-)0.84 %
DITCH A2
(-)0.82 %
(-)0.82 %
(-)0.50 %
(-)0.40 %
(-)0.48 %
(-)0.46 %
(-)1.16 %
(-)0.8215 %
(-)1.32 %
(-)0.83 %
(-)0.55 %
(-)0.58 %
(-)0.60 %
(-)0.86 %
(-)0.84 %
(-)0.86 %
HW 100-YR EL = 623.78'
HGL
625.00
DITCH A3
HW 25-YR EL = 622.94'
EL. = 618.47'
PRECAST BASE 5'X3'
CULVERT K2 (CLASS II) (48" RCP)
(-)0.5208 %
(-)0.5208 %

630
625
620
615

	23+00	24+00	25+00	26+00	27+00	28+00
PROP.	630.61	630.19	629.78	629.37	628.96	628.55	628.14	627.73	627.32	626.91	626.50
EXIST.	631.21	630.88	630.56	630.28	630.01	629.66	629.29	628.91	628.54	628.20	627.87

0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 4 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

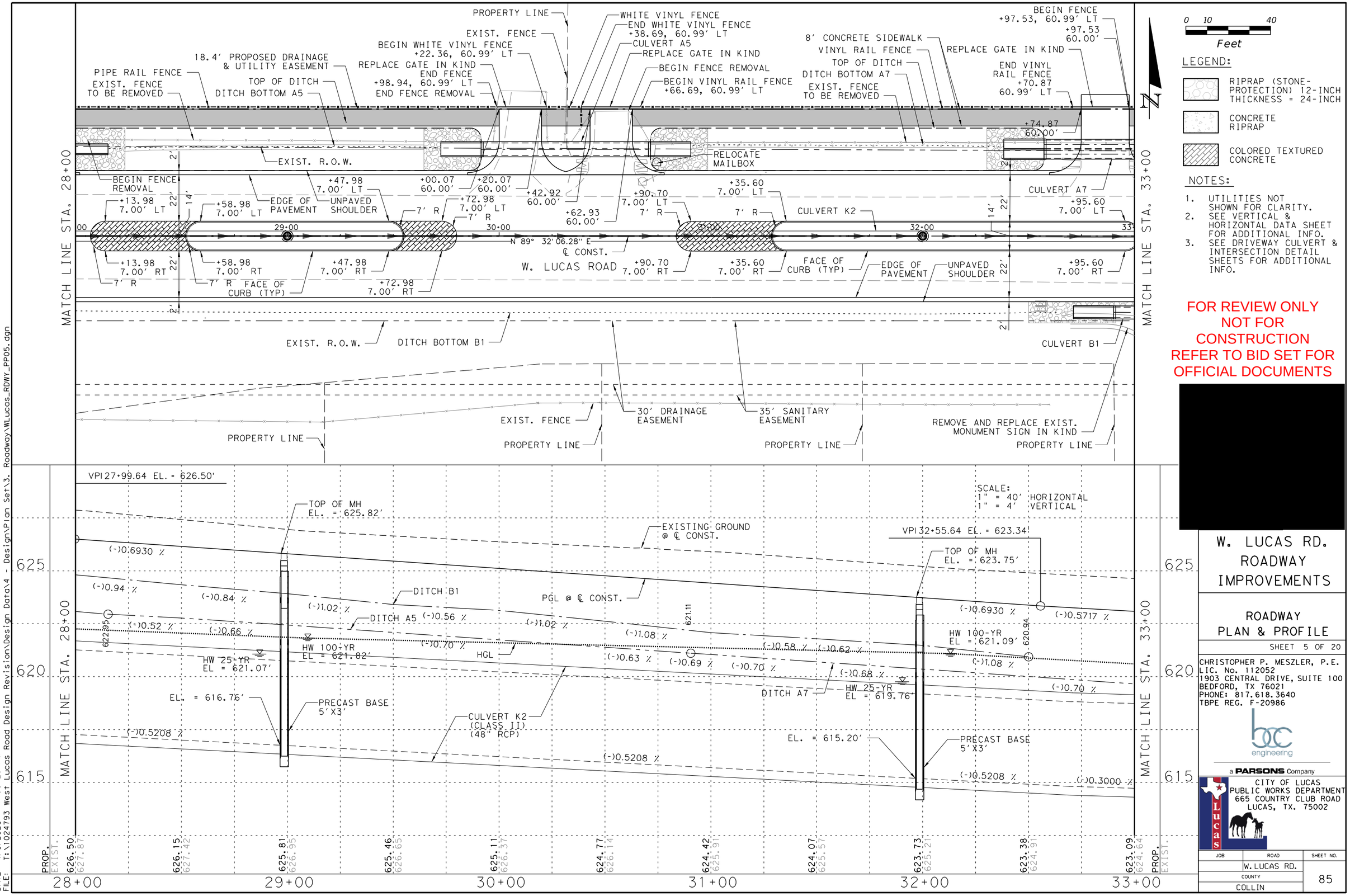
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	84
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:28 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP04.dgn

Texas 811 Know what's below. Call before you dig.



0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 5 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		85
COLLIN		

DATE: 4/6/2026 1:56:29 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP05.dgn

Texas 811 Know what's below. Call before you dig.

PROPERTY LINE
END VINYL RAIL FENCE
+06.11, 60.99' LT
+12.53
60.00'
+41.01
66.50'
+56.04
66.50'
+79.79
66.50'
PROPOSED DRAINAGE & UTILITY EASEMENT
+15.00
66.50'
+43.48
73.00'
+62.49
73.00'
+86.56
73.40'
TOP OF DITCH
DITCH BOTTOM A9
EXIST. R.O.W.
PROPERTY LINE
TOP OF DITCH
DITCH BOTTOM A10
40' NTMWD WATER EASEMENT
8' CONCRETE SIDEWALK
+96.34
73.20'
MATCH LINE STA. 33+00
UNPAVED SHOULDER
END FENCE REMOVAL
EXIST. FENCE TO BE REMOVED
CULVERT A7
BEGIN TRANSITION
+20.00
29.00' LT
UNPAVED SHOULDER
RELOCATE MAILBOX
EDGE OF PAVEMENT
CULVERT A9
END TRANSITION
+28.92
31.00' LT
RELOCATE MAILBOX
CULVERT A10
UNPAVED SHOULDER
PI 33+09.64
PI 36+28.92
33+00
34+00
35+00
36+00
37+00
38+00
N 89° 32' 06.27" E
N 89° 48' 39.64" E
7' R
CULVERT K2
℄ CONST.
W. LUCAS ROAD
PROTECT EXIST. MONUMENT SIGN
BEGIN TRANSITION
+20.00
29.00' RT
CULVERT B1
EDGE OF PAVEMENT
UNPAVED SHOULDER
END TRANSITION
+28.84
31.00' RT
EDGE OF PAVEMENT
UNPAVED SHOULDER
8.5' R
RATHBONE DR.
EXIST. R.O.W.
DITCH BOTTOM B2
TOP OF DITCH
EXIST. R.O.W.
35' SANITARY EASEMENT (TYP)
30' DRAINAGE EASEMENT (TYP)
END TYPE II CURB
BEGIN TYPE II CURB
EXIST. SANITARY SEWER
LIFT STATION
CITY OF PARKER
PROTECT EXIST. MONUMENT SIGN
EXIST. FENCE
PROPERTY LINE
20' SANITARY EASEMENT
30' DRAINAGE EASEMENT
30
MATCH LINE STA. 38+00

0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

EXISTING GROUND @ ℄ CONST.
PGL @ ℄ CONST.
HGL
(-)0.5717 %
(-)0.70 %
(-)0.68 %
(-)1.10 %
(-)0.58 %
(-)0.70 %
(-)1.36 %
(-)0.70 %
(-)0.69 %
(-)0.71 %
(-)0.58 %
(-)0.58 %
(-)0.64 %
(-)0.56 %
(-)1.22 %
(-)0.3000 %
(-)0.3000 %
618.85
617.39
617.33
DITCH A9
CULVERT K2 (CLASS II) (48" RCP)
DITCH B2
TOP OF MH
EL. = 620.81'
HW 25-YR
EL = 617.85
HW 100-YR
EL = 618.23'
DITCH A10 PRECAST BASE 5' X3'
EL. = 613.54'

PROP.	EXIST.	
623.09	624.64	33+00
622.80	624.33	
622.52	624.02	34+00
622.23	623.77	
621.94	623.43	35+00
621.66	623.17	
621.37	622.99	36+00
621.09	622.75	
620.80	622.52	37+00
620.51	622.09	
620.23	621.62	38+00
PROP.	EXIST.	

625 620 615 610

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

ROADWAY
PLAN & PROFILE

SHEET 6 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	86
	COUNTY	
	COLLIN	

DATE: 4/6/2026 1:56:30 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP06.dgn

Texas811 Know what's below. Call before you dig.

MATCH LINE STA. 38+00

PROPERTY LINE

PROPOSED DRAINAGE & UTILITY EASEMENT (VARIES FROM 14.4' TO 28.6')

TOP OF DITCH

DITCH BOTTOM A11

+16.34 73.20'

+01.48 73.20'

+81.71 73.20'

EXIST. FENCE

BEGIN FENCE +04.09, 74.20' LT

4.6' PROPOSED DRAINAGE & UTILITY EASEMENT

WIRE FENCE (TYPE C)

8' CONCRETE SIDEWALK

EXIST. FENCE TO BE REMOVED

20' UTILITY EASEMENT

PROP. DRAINAGE & UTILITY EASEMENT

TOP OF DITCH

DITCH BOTTOM A12

EXIST. R.O.W.

EXIST. R.O.W.

CULVERT A10

FACE OF CURB (TYP)

+29.42 7.00' LT

CULVERT A11

+43.12 7.00' LT

+88.12 7.00' LT

+54.42 7.00' LT

℄ CONST.

+28.42 7.00' LT

+73.42 7.00' LT

CULVERT K2

EDGE OF PAVEMENT

UNPAVED SHOULDER

39+00

40+00

41+00

42+00

43+00

N 89° 48' 39.64" E

14'

24'

4'

7' R

+43.12 7.00' RT

+88.12 7.00' RT

+29.42 7.00' RT

+54.42 7.00' RT

+28.42 7.00' RT

+73.42 7.00' RT

W. LUCAS ROAD

FACE OF CURB (TYP)

EDGE OF PAVEMENT

UNPAVED SHOULDER

BEGIN MBGF +72.40 37.50' RT

EXIST. R.O.W.

DITCH BOTTOM B2

SGT(SPIG SGET)

MBGF(MOW STRIP)

BEGIN FENCE REMOVAL

WIRE FENCE (TYPE C)

DRAINAGE EASEMENT

BEGIN FENCE +06.25 58.45' RT

20' SANITARY EASEMENT

40' NTMWD WATER EASEMENT

EXIST. FENCE TO BE REMOVED

DITCH BOTTOM B2

TOP OF DITCH

10' SANITARY SEWER EASEMENT

15' COSERV GAS EASEMENT

EXISTING GROUND @ ℄ CONST.

VPC 42+00.41 EL. = 617.94

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

TOP OF MH EL. = 617.96'

PGL @ ℄ CONST.

HGL

HW 25-YR EL = 616.93'

HW 100-YR EL = 617.52'

STA = 42+82.50
EL = 617.47'
ex = 0.11'
K = 302
L = 164.18'

PRECAST BASE 5'X3'

EL. = 611.22'

(-)0.52 %

(-)0.64 %

(-)0.51 %

(-)0.67 %

(-)0.88 %

(-)0.62 %

(-)0.66 %

(-)0.84 %

(-)0.84 %

(-)0.22 %

(-)0.64 %

(-)0.54 %

(-)0.56 %

(-)0.62 %

(-)0.58 %

(-)0.64 %

(-)0.60 %

(-)0.56 %

(-)0.84 %

(-)0.54 %

(-)0.6125 %

(-)0.3000 %

(-)0.5717 %

DITCH A11

DITCH B2

CULVERT K2 (CLASS II) (48" RCP)

DITCH A12

DITCH B2

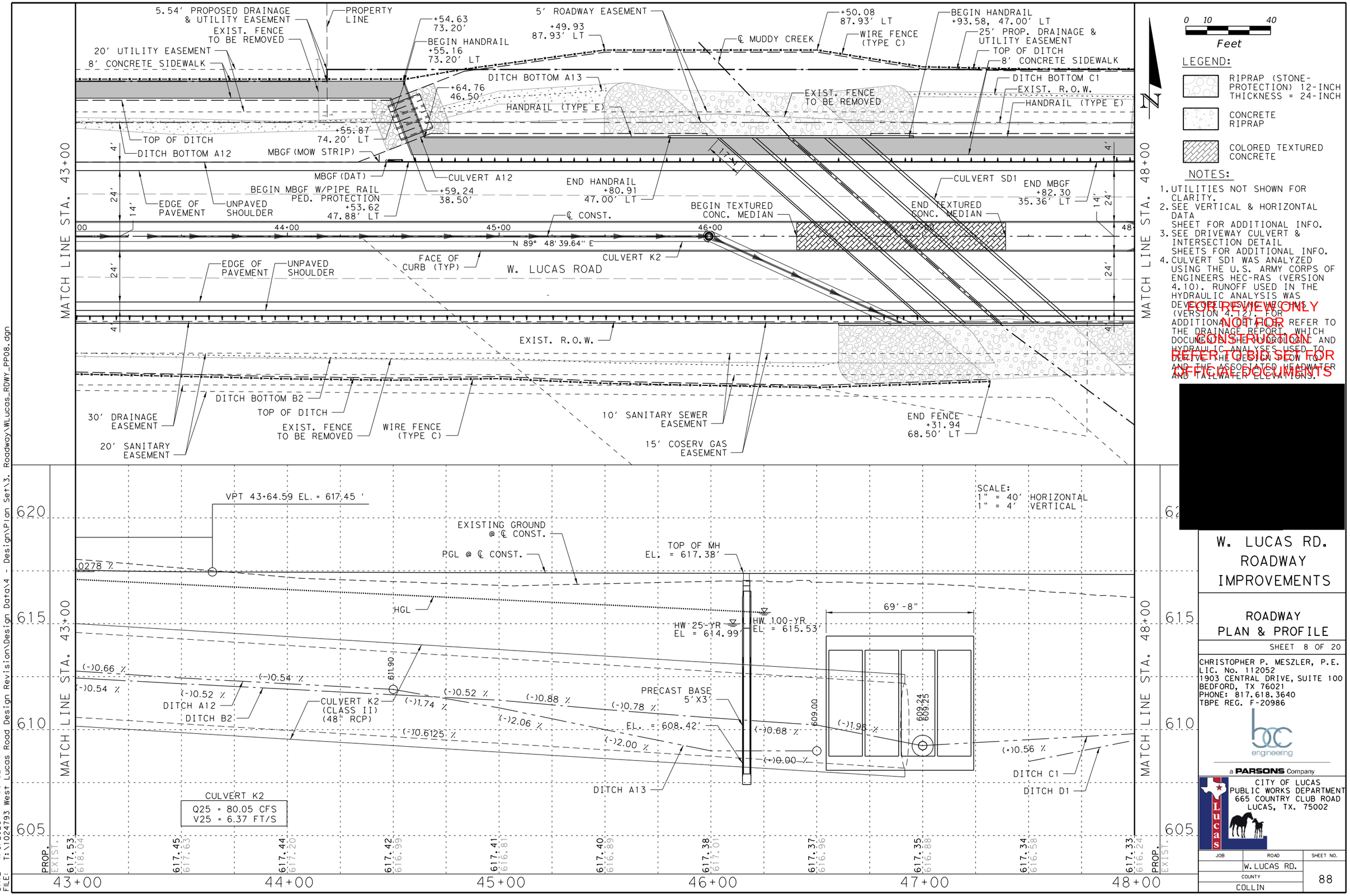
TOP OF 90" TUNNEL LINER FOR ENCASED 72" NTMWD WATER

615.97

614.46

620 615 610 605

| PROP. | EXIST. | | |



W. LUCAS RD.
ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 8 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

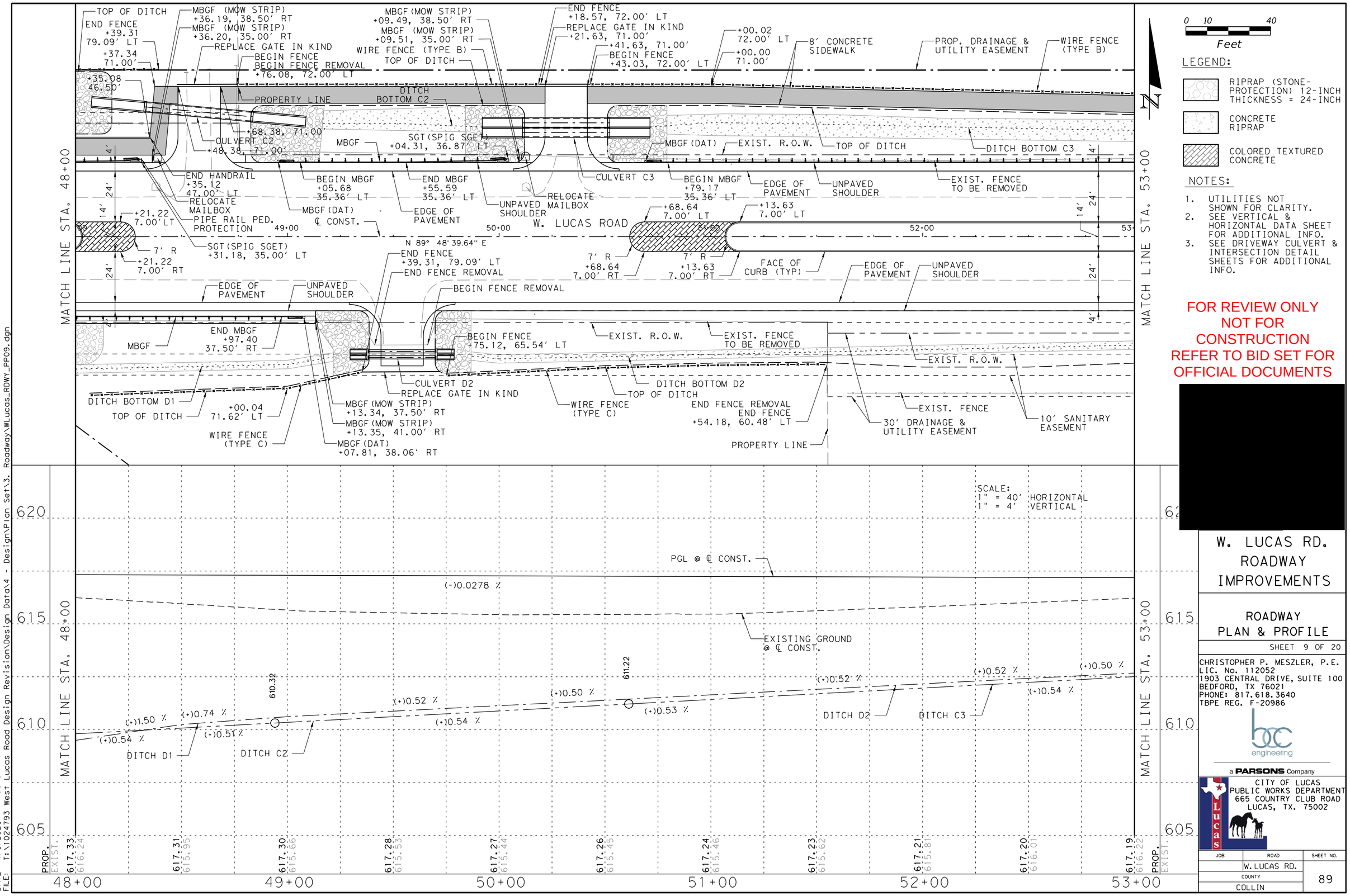
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	88
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:32 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP08.dgn

Texas811 Know what's below. Call before you dig.



0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 9 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

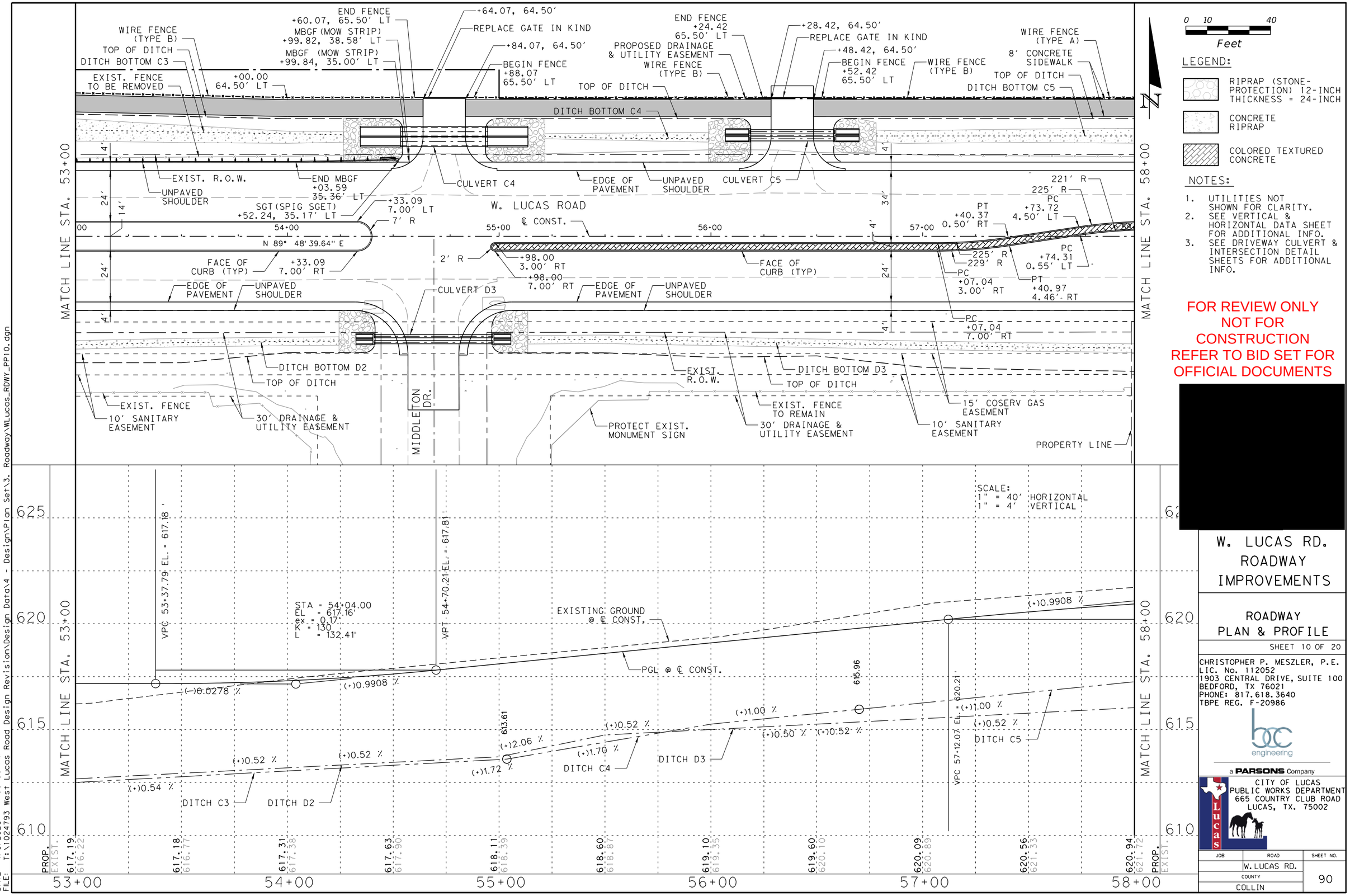
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	89
COUNTY	COLLIN	

DATE: 4/6/2026 1:56:34 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\W.Lucas_RDWY_PP09.dgn

Texas811 Know what's below. Call before you dig.



W. LUCAS RD.
ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 10 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986
bec engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	90
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:35 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP10.dgn

Texas811 Know what's below. Call before you dig.

MATCH EXISTING DITCH ELEVATION
+37.15
64.50'
END FENCE
END FENCE REMOVAL
+24.28
65.50' LT
8' CONCRETE SIDEWALK
TOP OF DITCH
DITCH BOTTOM C5
WIRE FENCE (TYPE B)
PROPOSED DRAINAGE & UTILITY EASEMENT
INGRAM LANE
+70.16
64.50'
BEGIN FENCE
+01.12
65.50' LT
BEGIN FENCE REMOVAL
VINYL RAIL FENCE
20' UTILITY EASEMENT
TOP OF DITCH
DITCH BOTTOM C6
EXIST. FENCE
EXIST. R.O.W.
EXIST. FENCE TO BE REMOVED
EXIST. R.O.W.
CULVERT C6
EDGE OF PAVEMENT
UNPAVED SHOULDER
EXIST. FENCE TO BE REMOVED
+05.00
7.00' LT
+05.00
3.00' LT
2' R
UNPAVED SHOULDER
EDGE OF PAVEMENT
PI 62+01.31
PT
+07.04
7.00' LT
FACE OF CURB (TYP)
W. LUCAS ROAD
+01.98
3.00' RT
PT
+07.04
3.00' LT
N 89° 48' 39.64" E
℄ CONST.
2' R
+01.98
7.00' RT
FACE OF CURB (TYP)
EDGE OF PAVEMENT
UNPAVED SHOULDER
EXIST. R.O.W.
DITCH BOTTOM D3
TOP OF DITCH
15' COSERV GAS EASEMENT
10' SANITARY SEWER EASEMENT
MATCH LINE STA. 58+00
MATCH LINE STA. 63+00

0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

STA = 58+01.92
EL = 621.10'
SSD = 1066'
ex = -0.15'
K = 264
L = 179.70'

VPT 58+91.77 EL. = 621.38'

EXISTING GROUND @ ℄ CONST.
PGL @ ℄ CONST.
618.69
DITCH C5
DITCH C6
DITCH D3
(+)0.3097 %
(+)0.36 %
(+)0.52 %
(+)0.50 %
(+)0.36 %
(+)0.52 %
(+)0.50 %
(+)0.43 %
(+)0.52 %
(+)0.58 %
(+)0.54 %
(+)0.52 %

PROP.	EXIST.	
620.94	621.72	58+00
621.22	621.88	
621.40	622.04	59+00
621.56	622.10	
621.72	622.14	60+00
621.87	622.40	
622.02	622.70	61+00
622.18	622.39	
622.33	622.99	62+00
622.49	623.13	
622.64	623.29	63+00
PROP.	EXIST.	

630
625
620
615

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 11 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

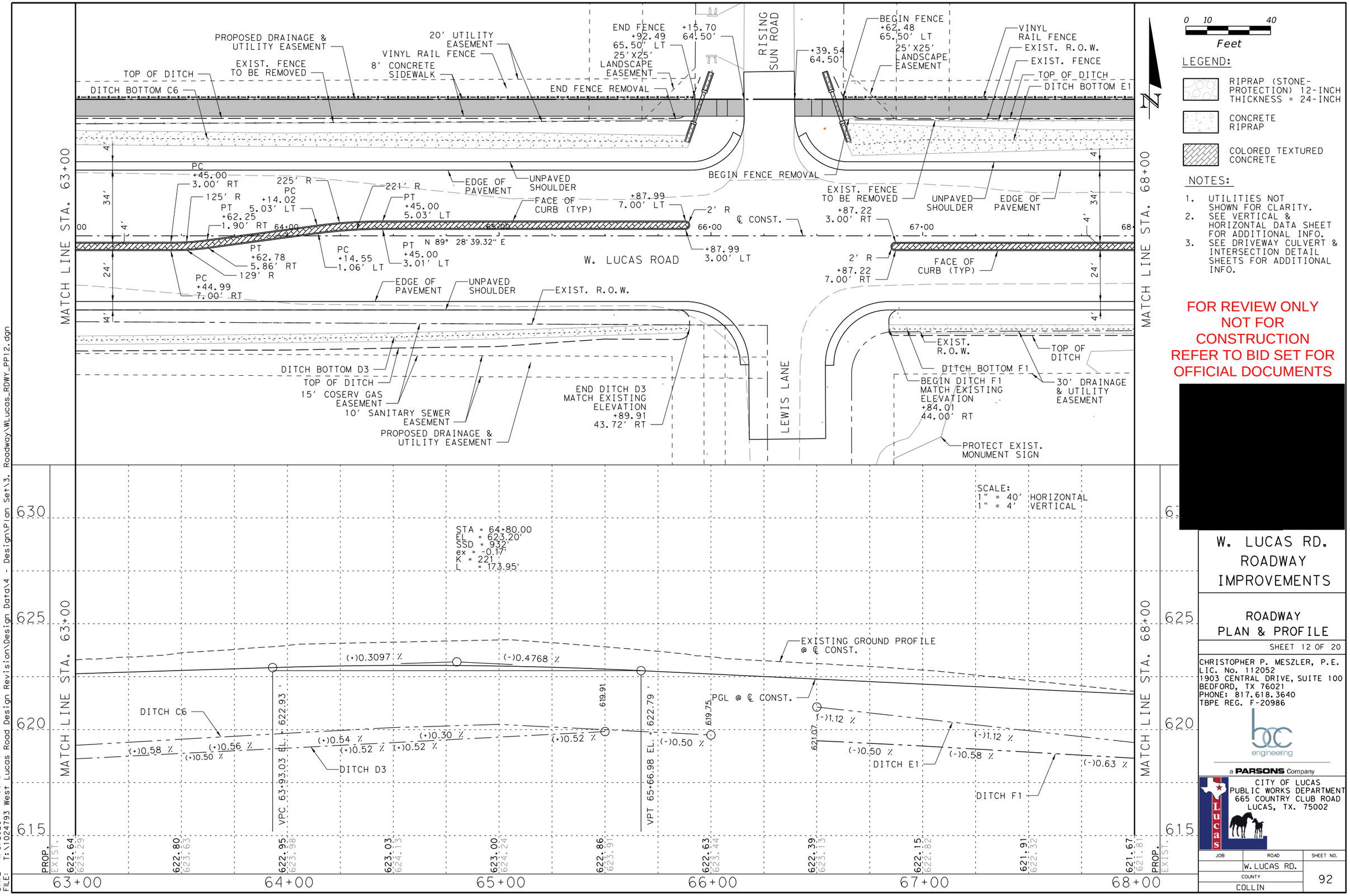
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	91
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:36 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\W_Lucas_RDWY_PP11.dgn

Texas 811 Know what's below. Call before you dig.


MATCH LINE STA. 63+00
MATCH LINE STA. 68+00
PROPOSED DRAINAGE & UTILITY EASEMENT
EXIST. FENCE TO BE REMOVED
TOP OF DITCH
DITCH BOTTOM C6
20' UTILITY EASEMENT
VINYL RAIL FENCE
8' CONCRETE SIDEWALK
END FENCE REMOVAL
END FENCE +92.49 65.50' LT
+15.70 64.50'
25'X25' LANDSCAPE EASEMENT
RISING SUN ROAD
+39.54 64.50'
BEGIN FENCE +62.48 65.50' LT
25'X25' LANDSCAPE EASEMENT
VINYL RAIL FENCE
EXIST. R.O.W.
EXIST. FENCE
TOP OF DITCH
DITCH BOTTOM E1
BEGIN FENCE REMOVAL
EXIST. FENCE TO BE REMOVED +87.22 3.00' RT
UNPAVED SHOULDER
EDGE OF PAVEMENT
PC +45.00 3.00' RT
125' R
225' R
PC +14.02 5.03' LT
PT +62.25 1.90' RT
221' R
PT +45.00 5.03' LT
FACE OF CURB (TYP)
+87.99 7.00' LT
2' R
℄ CONST.
66+00
67+00
64+00
65+00
N 89° 28' 39.32" E
+87.99 3.00' LT
PT +62.78 5.86' RT
129' R
PC +14.55 1.06' LT
PT +45.00 3.01' LT
W. LUCAS ROAD
PC +44.99 7.00' RT
+87.22 7.00' RT
EDGE OF PAVEMENT
UNPAVED SHOULDER
EXIST. R.O.W.
DITCH BOTTOM D3
TOP OF DITCH
15' COSERV GAS EASEMENT
10' SANITARY SEWER EASEMENT
PROPOSED DRAINAGE & UTILITY EASEMENT
END DITCH D3 MATCH EXISTING ELEVATION +89.91 43.72' RT
LEWIS LANE
EXIST. R.O.W.
TOP OF DITCH
DITCH BOTTOM F1
BEGIN DITCH F1 MATCH EXISTING ELEVATION +84.01 44.00' RT
30' DRAINAGE & UTILITY EASEMENT
PROTECT EXIST. MONUMENT SIGN
4'
34'
24'
SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL
STA = 64+80.00
EL = 623.20'
SSD = 932'
ex = -0.17'
K = 221
L = 173.95'
EXISTING GROUND PROFILE @ ℄ CONST.
PGL @ ℄ CONST.
(+)0.3097 %
(-)0.4768 %
(+)0.58 %
(+)0.50 %
(+)0.56 %
(+)0.54 %
(+)0.52 %
(+)0.30 %
(+)0.52 %
(-)0.50 %
(-)1.12 %
(-)0.50 %
(-)0.58 %
(-)0.63 %
DITCH C6
DITCH D3
DITCH E1
DITCH F1
VPC 63+93.03 EL. 622.93
VPT 65+66.98 EL. 622.79
619.91
619.75
621.07
630
625
620
615
PROP. EXIST.
622.64 623.29
622.80 623.63
622.95 623.98
623.03 624.13
623.00 624.24
622.86 623.91
622.63 623.44
622.39 623.13
622.15 622.82
621.91 622.32
621.67 621.81
63+00
64+00
65+00
66+00
67+00
68+00
0 10 40
Feet
LEGEND:
RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
CONCRETE RIPRAP
COLORED TEXTURED CONCRETE
NOTES:
1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS
W. LUCAS RD. ROADWAY IMPROVEMENTS
ROADWAY PLAN & PROFILE
SHEET 12 OF 20
CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986
bc engineering
a PARSONS Company
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002
JOB
ROAD
W. LUCAS RD.
SHEET NO.
92
COUNTY
COLLIN
DATE: 4/6/2026 1:56:37 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\W.Lucas_RDWY_PP12.dgn
Texas811 Know what's below. Call before you dig.

8' CONCRETE SIDEWALK
EXIST. FENCE
EXIST. R.O.W.
PROPOSED DRAINAGE & UTILITY EASEMENT
TOP OF DITCH
DITCH BOTTOM E1
20' DRAINAGE & UTILITY EASEMENT
RESIDENTIAL BLACK BARS FENCE
VINYL RAIL FENCE
EXIST. FENCE TO BE REMOVED
DITCH E1 +03.81 46.00' LT
END FENCE +55.38 65.50' LT
END FENCE REMOVAL
+78.64 64.50'
RED STAR RD.
+02.42 64.50'
BEGIN FENCE +25.58 65.50' LT
BEGIN FENCE REMOVAL
VINYL RAIL FENCE
TOP OF DITCH
DITCH BOTTOM E3

MATCH LINE STA. 68+00

EDGE OF PAVEMENT
UNPAVED SHOULDER
PC +37.38 4.03' LT
225' R
221' R
PT +75.07 7.00' LT
+50.00 45.44' LT
FACE OF CURB (TYP)
CULVERT SD-2
+50.99 CULVERT E3 7.00' LT
+50.99 3.00' LT
2' R
PC +75.00 3.00' RT
PT +12.71 0.03' RT
69+00
70+00
71+00
72+00
73+00
N 89° 28' 39.32" E
PC +38.03 0.08' LT
PT +75.00 3.00' LT
℄ CONST.
W. LUCAS ROAD
225' R
229' R
PT +13.35 3.97' RT
PC +75.00 7.00' RT
EDGE OF PAVEMENT
UNPAVED SHOULDER
EXIST. FENCE TO BE REMOVED
+30.00 3.00' RT
UNPAVED SHOULDER
EDGE OF PAVEMENT
2' R
+30.00 7.00' RT
FACE OF CURB (TYP)
4' 34' 4' 24' 4'

EXIST. R.O.W.
DITCH BOTTOM F1
TOP OF DITCH
PROTECT OR REPLACE IN KIND EXIST. LANDSCAPE
PROPERTY LINE
20' DRAINAGE & UTILITY EASEMENT
PROTECT OR REPLACE IN KIND EXIST. LANDSCAPE
+77.49 47.00' RT
DITCH F1 +28.13 47.55' RT
END DITCH F1 +66.40 92.74' RT
BEE CAVE RD.
DITCH BOTTOM G1
TOP OF DITCH
BEGIN DITCH G1 +20.68 74.14' RT

MATCH LINE STA. 73+00

0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

630
625
620
615

VPC 69+80.05 EL. = 620.82 '
VPT 72+30.00 EL. = 620.38 '
STA = 71+05.02
EL = 620.22'
ex = 0.19'
K = 416
L = 249.95'
EXISTING GROUND @ ℄ CONST.
PGL @ ℄ CONST.
(-)0.4768 %
(+)0.1242 %
(-)1.12 %
(-)1.12 %
DITCH F1
(-)1.12 %
DITCH E1
(-)0.63 %
(-)1.12 %
(-)17.68 %
(-)18.93 %
(+)0.00 %
(-)0.42 %
(+)0.50 %
616.60
(+)0.49 %
(+)0.51 %
DITCH E2
616.44'
(+)1.30 %
(+)0.50 %
DITCH G1

PROP.	EXIST.
621.67	621.81
621.43	621.60
621.20	621.45
620.96	621.18
620.73	620.96
620.54	620.84
620.42	620.74
620.35	620.53
620.35	620.31
620.40	620.27
620.46	620.22

68+00 69+00 70+00 71+00 72+00 73+00

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 13 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bec engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	93
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:38 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP13.dgn

PROPOSED DRAINAGE & UTILITY EASEMENT
VINYL RAIL FENCE
8' CONCRETE SIDEWALK
20' DRAINAGE & UTILITY EASEMENT
EXIST. R.O.W.
TOP OF DITCH
DITCH BOTTOM E3
PROPERTY LINE
END FENCE +29.39 65.50' LT
EXIST. FENCE TO BE REMOVED
BEGIN FENCE +29.39 65.50' LT
20' R.O.W. & UTILITY EASEMENT
CITY OF LUCAS
WIRE FENCE (TYPE D)
MATCH LINE STA. 73+00
MATCH LINE STA. 78+00
4'
34'
24'
4'
EDGE OF PAVEMENT
UNPAVED SHOULDER
PT +92.33 1.90' RT
PC +75.00 3.00' RT
℄ CONST.
225' R
PC +44.05 5.02' LT
PT +75.00 7.00' LT
EXIST. R.O.W.
EXIST. FENCE TO BE REMOVED
14'
74+00
75+00
76+00
77+00
78+00
N 89° 28' 39.32" E
FACE OF CURB (TYP)
W. LUCAS ROAD
125' R
EDGE OF PAVEMENT
UNPAVED SHOULDER
EXIST. R.O.W.
DITCH BOTTOM G1
TOP OF DITCH
20' DRAINAGE & UTILITY EASEMENT
50' LANDSCAPE BUFFER
PROPERTY LINE
PROTECT EXIST. RETAINING WALL
20' R.O.W. & WATER LINE EASEMENT

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

630
625
620
615

VPC 75+12.19 EL. = 620.73 '
VPT 77+12.04 EL. = 621.60 '
STA = 76+12.11
EL = 620.85'
ex = 0.16'
K = 320
L = 199.86'
PGL @ ℄ CONST.
EXISTING GROUND @ ℄ CONST.
(+)0.1242 %
(+)0.7486 %
(+)0.46 %
(+)0.46 %
(+)0.44 %
(+)0.30 %
DITCH E2
DITCH G1

	620.46	620.53	620.59	620.65	620.71	620.80	620.96	621.19	621.51	621.89	622.26
PROP.	620.46	620.53	620.59	620.65	620.71	620.80	620.96	621.19	621.51	621.89	622.26
EXIST.	620.22	620.22	620.22	620.45	620.74	621.07	621.41	621.61	621.77	622.01	622.26

73+00 74+00 75+00 76+00 77+00 78+00

0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 14 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

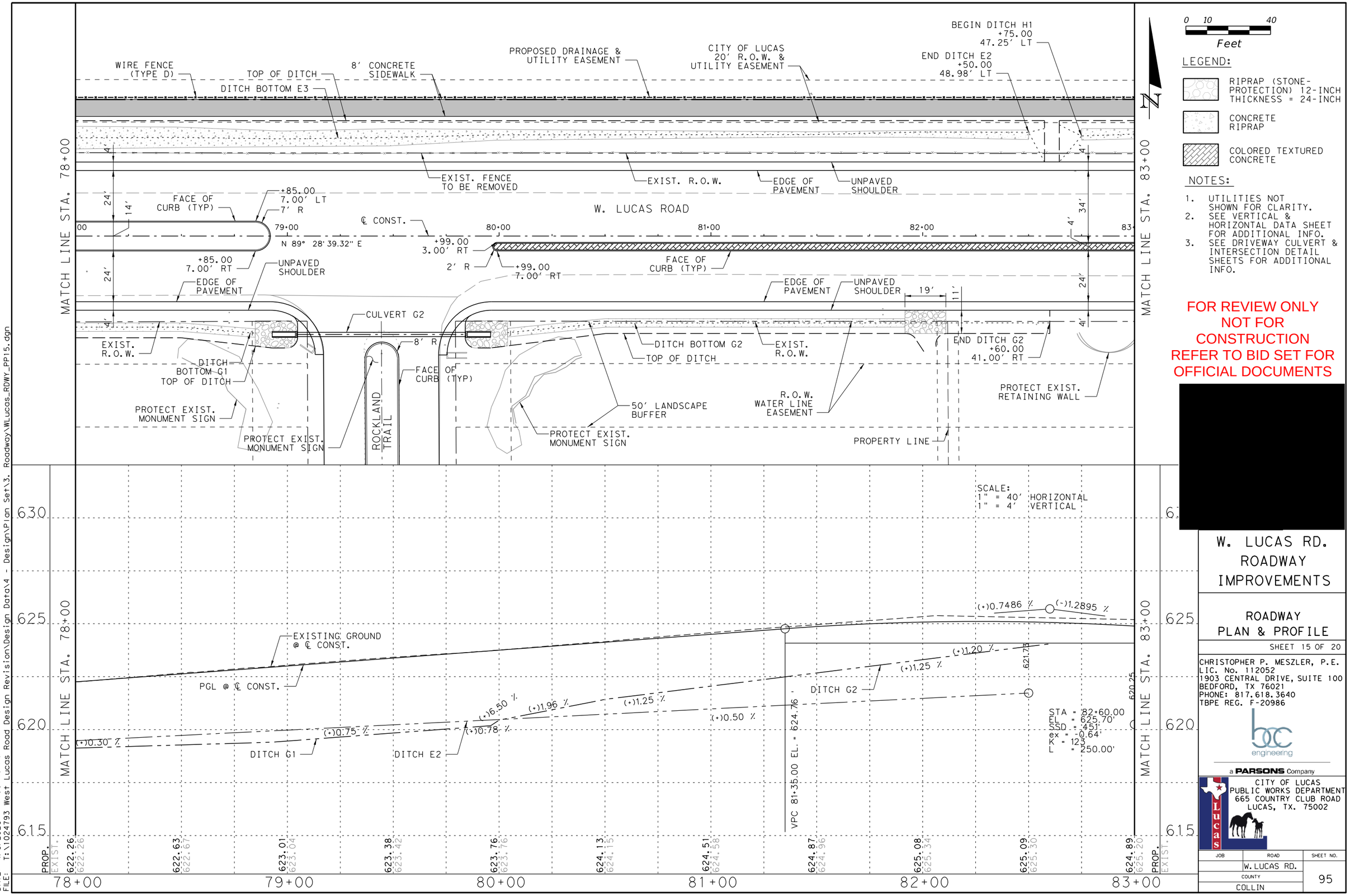
bgc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	94
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:39 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\W_Lucas_RDWY_PP14.dgn



0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 15 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

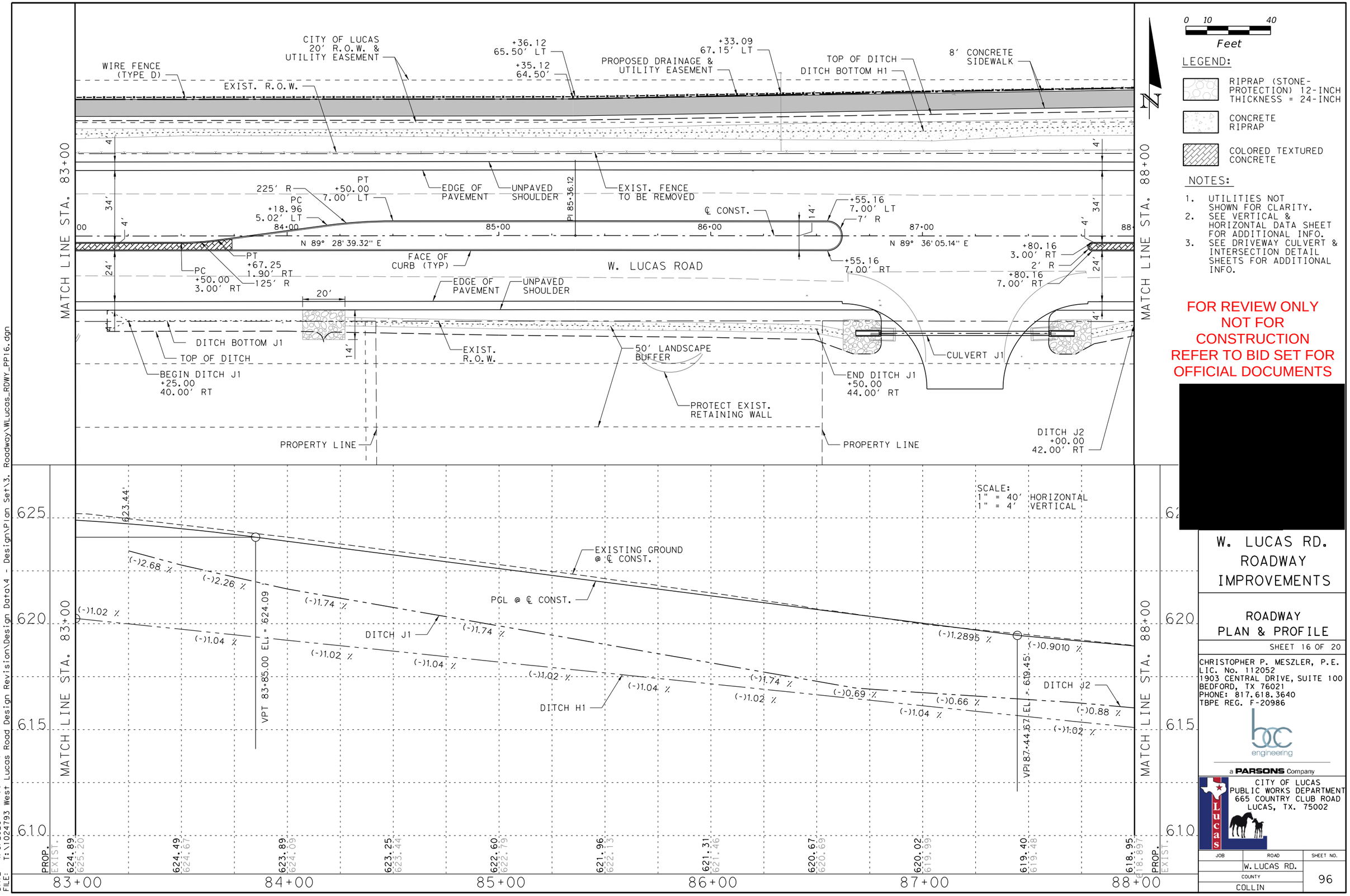
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	95
	COUNTY	
	COLLIN	

DATE: 4/6/2026 1:56:40 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP15.dgn

Texas811 Know what's below. Call before you dig.



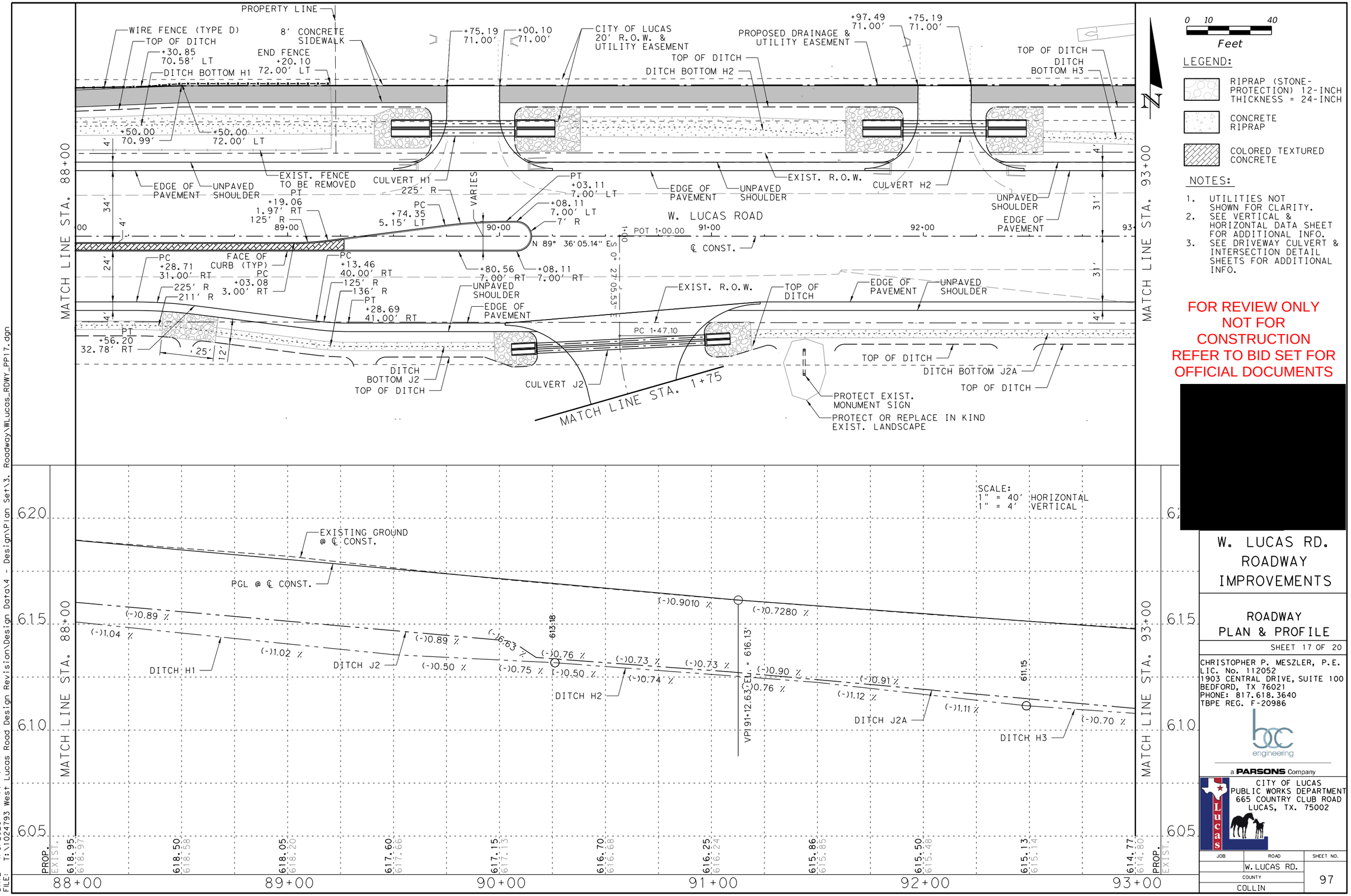
CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	96
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:41 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP16.dgn

Texas811 Know what's below. Call before you dig.



W. LUCAS RD.
ROADWAY
IMPROVEMENTS

ROADWAY
PLAN & PROFILE

SHEET 17 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

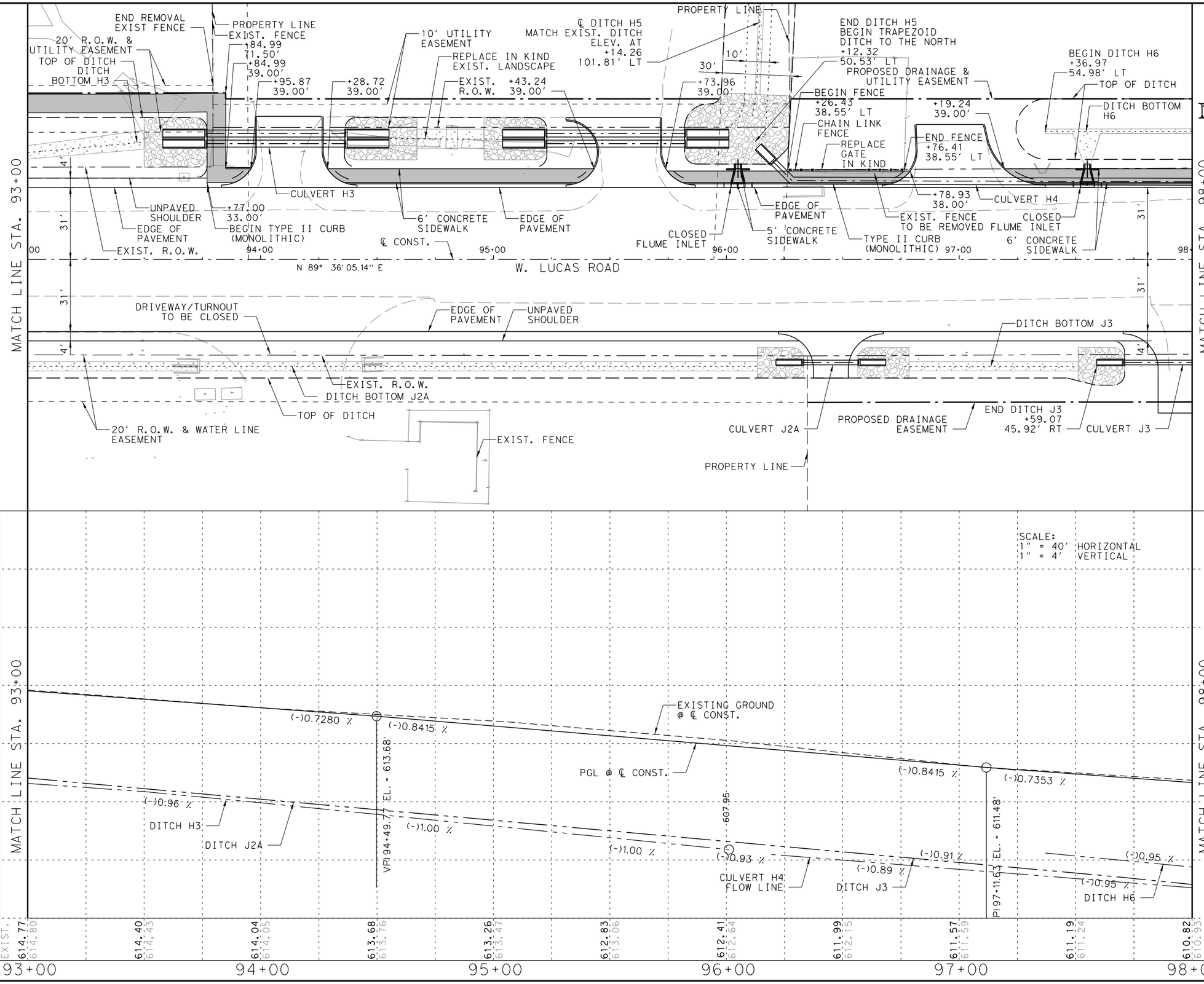
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	97
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:43 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\W.Lucas_RDWY_PP17.dgn

Texas811 Know what's below. Call before you dig.



0 10 40
Feet

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- COLORED TEXTURED CONCRETE

NOTES:

1. UTILITIES NOT SHOWN FOR CLARITY.
2. SEE VERTICAL & HORIZONTAL DATA SHEET FOR ADDITIONAL INFO.
3. SEE DRIVEWAY CULVERT & INTERSECTION DETAIL SHEETS FOR ADDITIONAL INFO.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

ROADWAY PLAN & PROFILE

SHEET 18 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

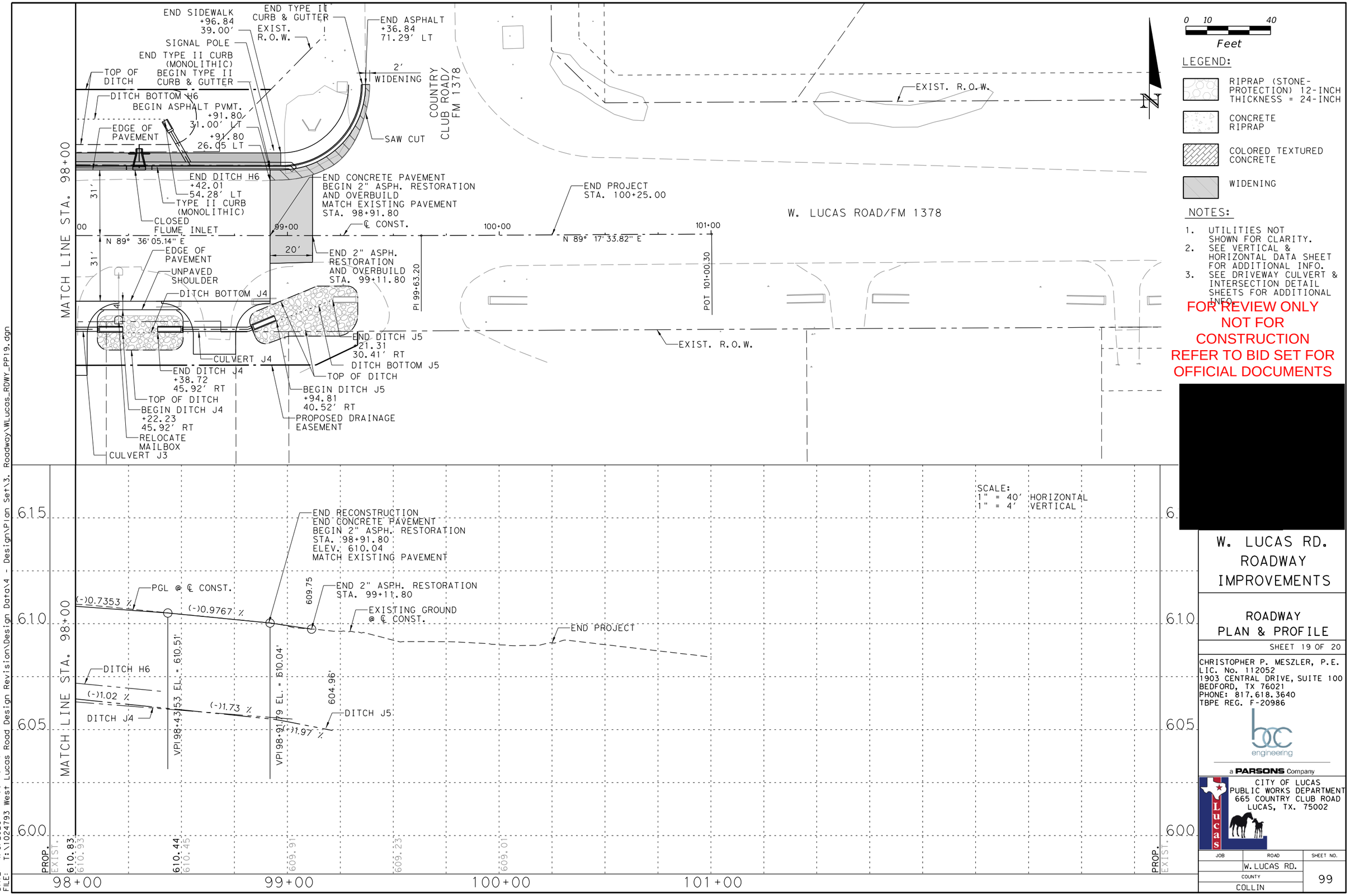
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		98
COLLIN		

DATE: 4/6/2026 1:56:44 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP18.dgn

Texas 811 Know what's below. Call before you dig.



DATE: 4/6/2026 1:56:45 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP19.dgn

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

ROADWAY
PLAN & PROFILE

SHEET 19 OF 20

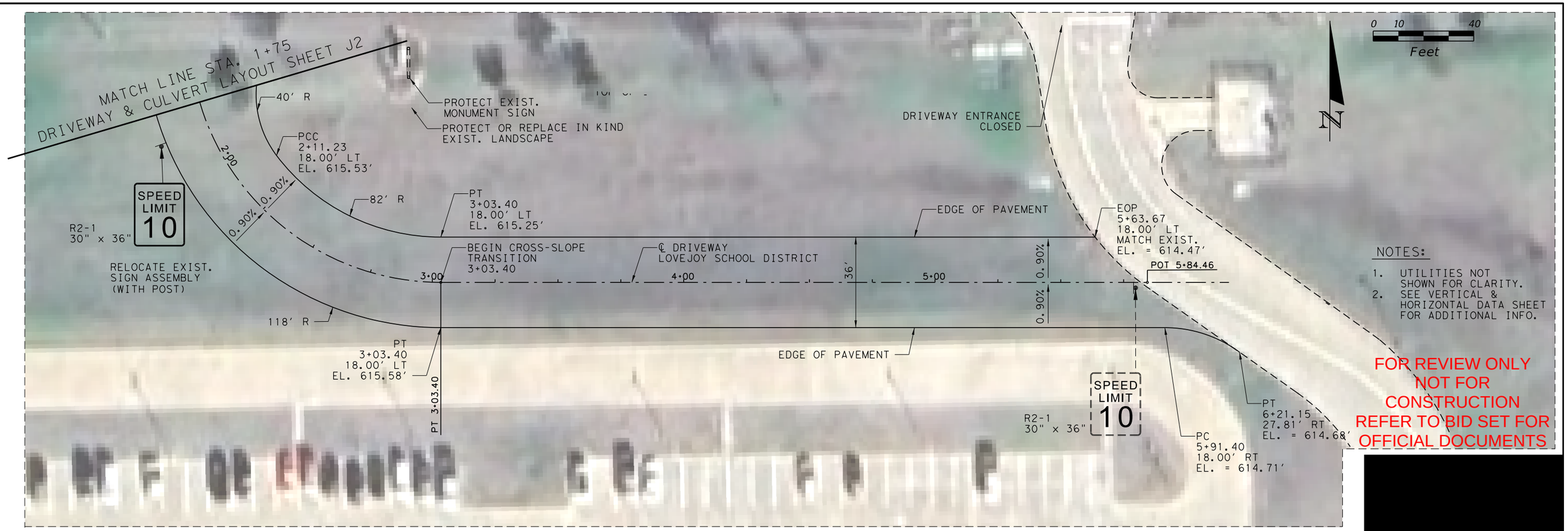
CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

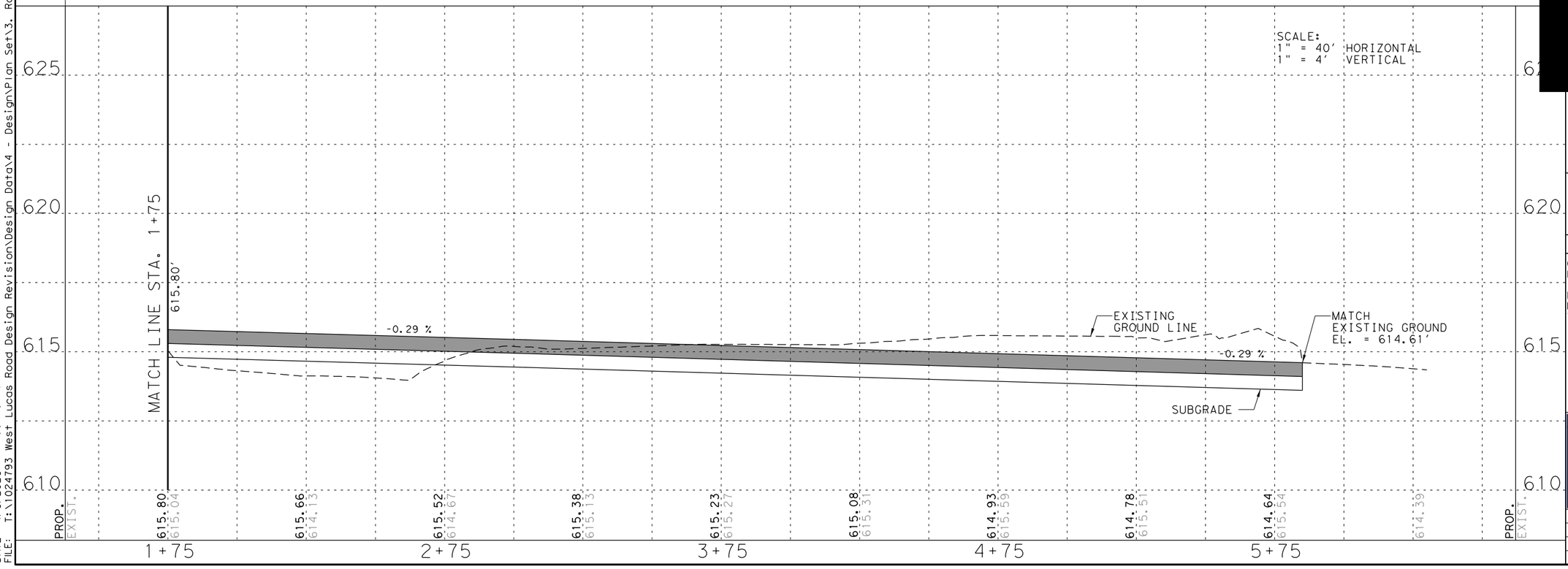
bec engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	99
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.





W. LUCAS RD.
ROADWAY
IMPROVEMENTS

ROADWAY
PLAN & PROFILE

SHEET 20 OF 20

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

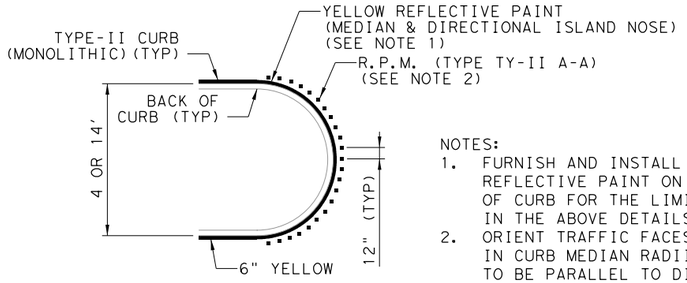
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	100
COUNTY		
COLLIN		

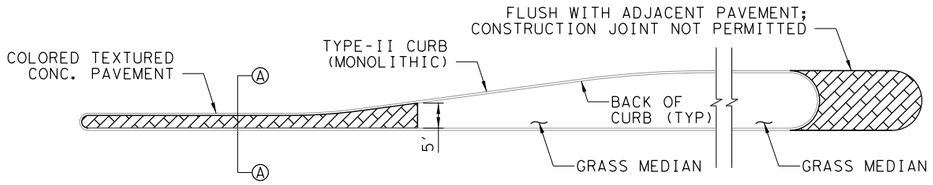
DATE: 4/6/2026 1:56:46 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_PP20.dgn

Texas811 Know what's below. Call before you dig.



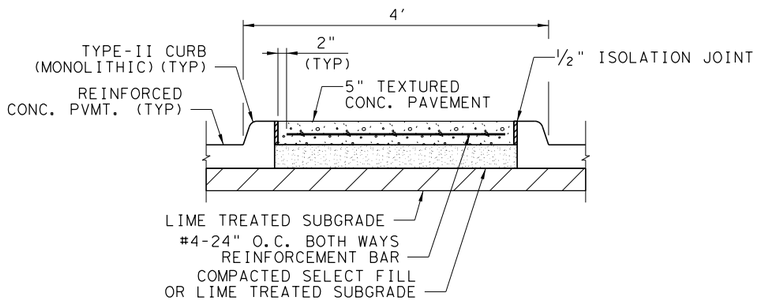
NOTES:
1. FURNISH AND INSTALL REFLECTIVE PAINT ON THE FACE OF CURB FOR THE LIMITS SHOWN IN THE ABOVE DETAILS.
2. ORIENT TRAFFIC FACES OF RPMs IN CURB MEDIAN RADII TO BE PARALLEL TO DIRECTION OF TRAVEL LANES.

R.P.M. PLACEMENT DETAIL
(MEDIAN AND SEPARATOR NOSE)

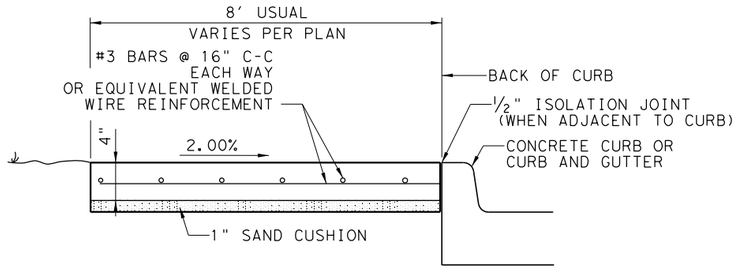


NOTES:
1. PAVEMENT TEXTURE: STAMP CONCRETE WITH BRICK PAVER PATTERN AND APPLY LIGHT BROOM FINISH.
2. PAVEMENT COLOR: SIKA-SCOFIELD CS-14 DARK WALNUT STAIN OR APPROVEDEQUAL.
3. SUBMIT PRODUCT FOR APPROVAL.
4. INSTALL PER MANUFACTURER RECOMMENDATIONS.
5. APPLY STAIN AFTER CONCRETE CURES.
6. DO NOT USE CURING COMPOUND ON PAVEMENT TO BE STAINED AND SEALED.

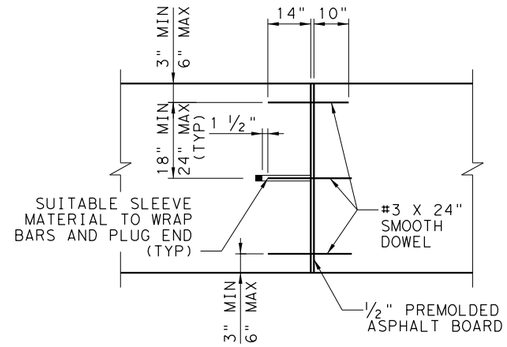
TEXTURED PAVEMENT DETAIL
(LEFT TURN LANE SHOWN)



SECTION A-A
TRAFFIC SEPARATOR TYPICAL
(LEFT TURN LANE SHOWN)

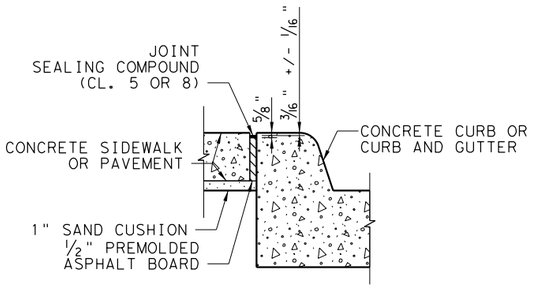


CONCRETE SIDEWALK DETAIL

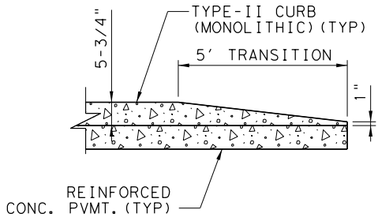


TRANSVERSE EXPANSION JOINT

NOTES:
1. CONCRETE FOR SPECIAL CONCRETE SIDEWALK W/ INTEGRATED RETAINING WALL SHALL BE CLASS "C". ALL OTHER CONCRETE SIDEWALK SHALL BE CLASS "A".
2. ALL REINFORCING STEEL SHALL BE GRADE 60, # 4 BARS UNLESS OTHERWISE INDICATED.
3. SEE PLAN SHEETS FOR LOCATIONS OF SIDEWALKS AND RETAINING WALLS.
4. LONGITUDINAL SLOPE OF SIDEWALKS SHALL NOT EXCEED 5% EXCEPT IN CASES WHERE THE ADJACENT ROADWAY SLOPE EXCEEDS 5%. IF ROADWAY SLOPE EXCEEDS 5%, LONGITUDINAL SLOPE OF SIDEWALK MAY MATCH THAT OF ROADWAY.
5. IF SIDEWALK WIDTH IS LESS THAN 5', PROVIDE 5' X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200' SPACING.
6. RETAINING WALL WILL BE SUBSIDIARY TO THE ITEM, "CONC SIDEWALKS (SPECIAL) (TYPE A)" OR "CONC SIDEWALKS (SPECIAL)(TYPE B)", WITH LIMITS OF PAY AS SHOWN.
7. SURFACE TREATMENT OF RETAINING WALL FACE DETAILED ELSEWHERE IN THE PLANS.
8. SEE PED STANDARDS FOR TREATMENT AT INTERSECTIONS AND CROSSWALKS.



1/2" ISOLATION JOINT DETAIL
(SIDEWALK ADJACENT TO CURB)



CURB TRANSITION DETAIL

REFER TO DETAIL CDD (FTW)
MODIFY DETAIL:
1. PAY AREA IS MEASURED FROM EDGE OF ROADWAY PAVEMENT TO END OF DRIVEWAY.
2. REPLACE 1" SAND CUSHION WITH 6" COMPACTED SUBGRADE (95% STD PROCTOR COMPACTION)
3. DO NOT PROVIDE 1" RISE AT GUTTER
4. MAX GRADES: RESIDENTIAL 12%; COMMERCIAL 10%
5. 4000 PSI CONCRETE (MATCH ROADWAY PAVEMENT SPECIFICATION)

DRIVEWAY DETAIL

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

DRAWING
NOT TO SCALE

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

ROADWAY DETAILS

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

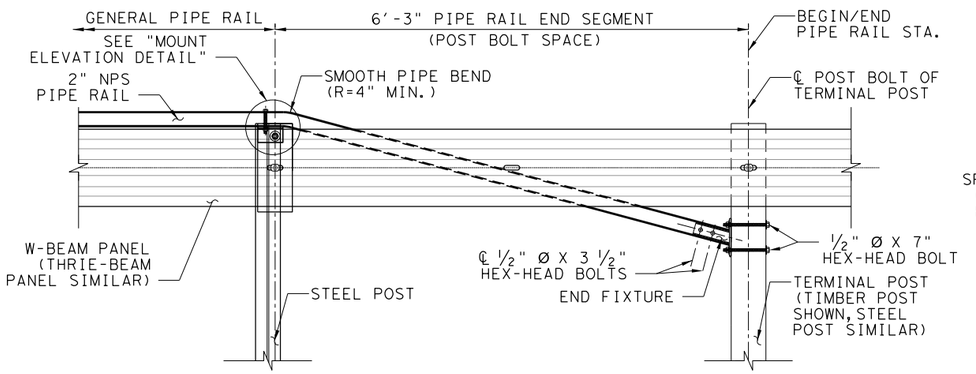
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

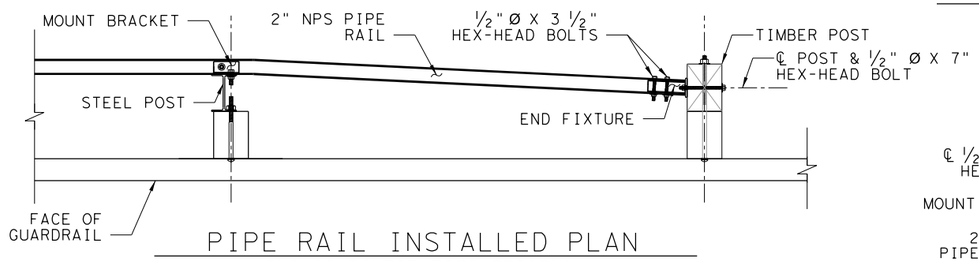
JOB	ROAD	SHEET NO.
	W. LUCAS RD.	101
	COUNTY	
	COLLIN	

Texas 811
Know what's below.
Call before you dig.

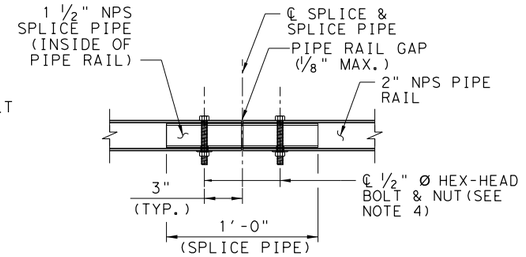
DATE: 4/6/2026 1:56:48 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_MISC_Details_01.dgn



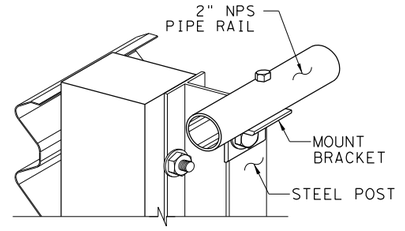
PIPE RAIL INSTALLED ELEVATION
(END SEGMENT SHOWN)



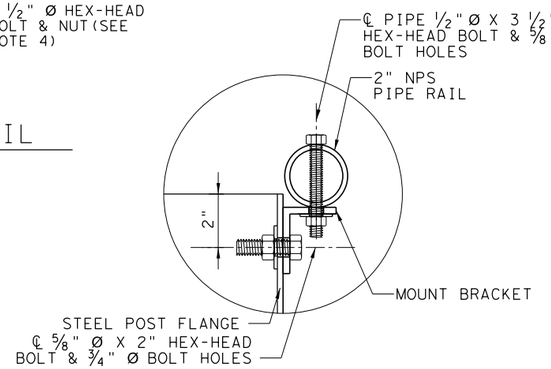
PIPE RAIL INSTALLED PLAN
(END AT TIMBER POST OPTION)



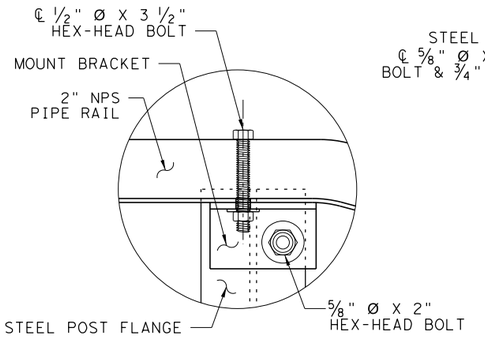
RAIL SPLICE DETAIL



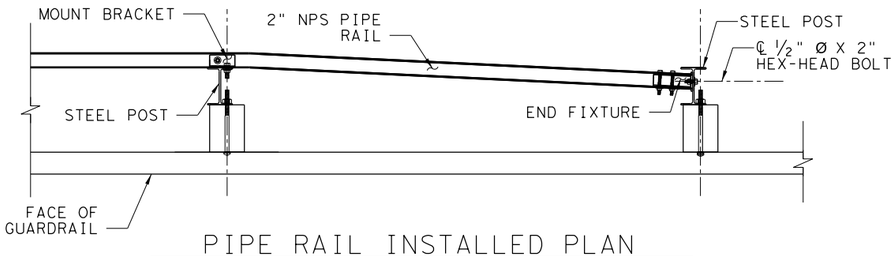
MOUNT ISOMETRIC CUT-AWAY



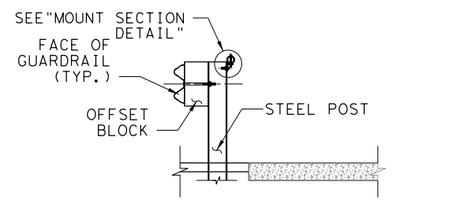
MOUNT SECTION DETAIL



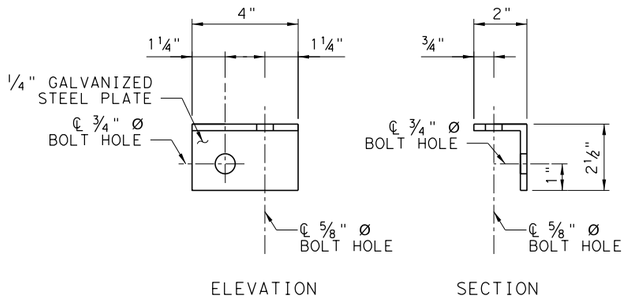
MOUNT ELEVATION DETAIL
(BACK VIEW - MIRRORED)



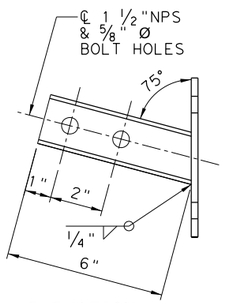
PIPE RAIL INSTALLED PLAN
(END AT STEEL POST OPTION)

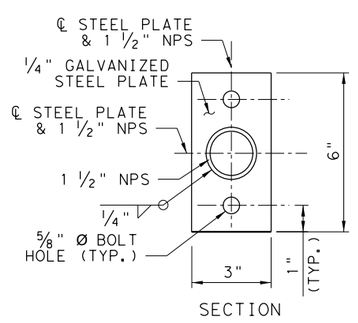


GENERAL PIPE RAIL SECTION
(SHOWN W/SIDEWALK)

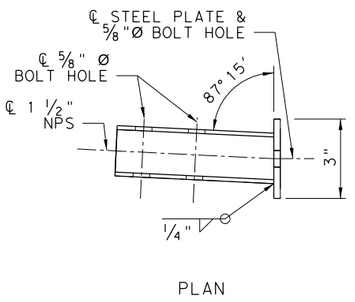


MOUNT BRACKET DETAIL





END FIXTURE DETAIL



NOTES:

1. GENERAL: INSTALL GENERAL PIPE RAIL WHERE INDICATED IN THE PLANS OR WHEN EXISTING SIDEWALKS OR SHARED USE PATHS ARE LOCATED LESS THAN 4'-0" FROM THE BACK OF STEEL POSTS AS.
2. PIPE RAIL END SEGMENTS: PLACE END SEGMENTS ON BOTH ENDS OF GENERAL PIPE RAIL RUNS, WITH END FIXTURES MOUNTED TO TERMINAL POSTS LOCATED OUTSIDE OF APPROACH TERMINAL ASSEMBLY ('LE'), TRAILING ANCHORAGE ASSEMBLY ('LT'), AND APPROACH TRANSITION ('LA') SEGMENTS.
3. MATERIALS: USE STEEL BRACKETS, FIXTURES, AND PIPES.
4. RAIL SPLICES: INSTALL RAIL SPLICES TO JOIN PIECES OF 2" NPS PIPE RAIL INTO A CONTINUOUS SYSTEM. PLACE SPLICES AS NEEDED, AT A SPACING OF 18'-0" OR GREATER. ORIENT THE HEAD OF BOLT ON THE TOP OF THE PIPE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

DRAWING NOT TO SCALE

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

PIPE RAIL
MBGF PEDESTRIAN PROTECTION

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	102
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:49 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_RDWY_MISC_Details_02.dgn

DITCH BOTTOM
TOP OF DITCH
EDGE OF PAVEMENT
UNPAVED SHOULDER
EXIST. R.O.W.
2.0%
34+17.43
29.00' RT
EL.= 621.84'
PT
25'R
STA 34+17.43
EL= 622.42'
34+00
STA 33+92.43
EL= 621.98'
STA 33+68.93
EL= 622.69'
STA 33+68.93
EL= 622.11'
POT 1+00.00
90°00'00"
CULVERT A7
STA. EQ = W. LUCAS RD.
STA. = 33+60.43
℄ RATHBONE DR.
STA. = 1+00.00
1+00
8.5'
8.5'
STA 33+51.93
EL= 622.21'
8' SIDEWALK
STA 33+51.93
EL= 622.79'
POT 1+00.00
℄ CONST.
W. LUCAS ROAD
STA 33+28.43
EL= 622.34'
25'R
STA 33+03.43
EL= 623.07'
PC
33+03.43
29.00' RT
EL.= 622.49'
PI 33+09.64
PROPERTY LINE
EXIST. FENCE
33+00
UNPAVED SHOULDER
EDGE OF PAVEMENT
FACE OF CURB
C
STA 1+36.19
39.46' LT
EL= 622.16'
PC
1+54.00
32.00' LT
EL.= 622.48'
1+82.00
32.00' LT
MATCH EXIST.
EL.= ±622.68'
PROTECT EXIST. LANDSCAPE OR REPLACE IN KIND
EXIST. MONUMENT SIGN
EXIST. R.O.W.
EXIST. EDGE OF PAVEMENT
SAWCUT
1+82.00
8.00' LT
MATCH EXIST.
EL.= ±623.25'
END CONC. PVMT.
CULVERT B1
1+59.00
32.00' LT
EL =622.58'
1+59.00
EL =622.72'
1+62.00
8.50' LT
PGL LT
2.0%
2+00
EXIST. CURB
POT 2+50.00
8'R
EL= 622.62'
℄ RATHBONE DR.
EL= 622.71'
S 0° 27'53.73" E
CURB TYPE-II (MONOLITHIC)
RATHBONE DR.
PGL RT
1+62.00
8.50' RT
1+59.00
8.00' RT
EL= 622.81'
1+59.00
32.00' RT
EL= 622.85'
1+82.00
8.00' RT
MATCH EXIST.
EL.= ±623.31'
END CONC. PVMT.
SAWCUT
EXIST. EDGE OF PAVEMENT
PT
1+54.00
32.00' RT
EL.= 622.84'
1+82.00
32.00' RT
MATCH EXIST.
EL.= ±622.89'
C
STA 1+36.37
39.28' RT
EL= 622.67'
EXIST. MONUMENT SIGN
EXIST. R.O.W.
PROTECT EXIST. LANDSCAPE OR REPLACE IN KIND
EXIST. DRAINAGE EASEMENT
EXIST. SANITARY EASEMENT

0 5 20
Feet

NOTES:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. REMOVE AND REPLACE MONUMENT SIGNS IN KIND.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

PGL LEFT

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

630 / 625 / 620

VPT 1+29.00
EL. = 622.40'
622.69
EOP WLR
VPT 1+59.00
EL. = 622.71'
623.25
END PROFILE
STA. 1+82.00
EL. 623.25'
MATCH EXIST.
EXIST. GROUND
BEGIN PROFILE
STA. 1+00.00
EL. 622.69'
(-)1.00%
(+)1.03%
(+)2.36 %
PGL LT @ RATHBONE DR.
CULVERT B1

PGL RIGHT

625 / 620 / 615

VPT 1+29.00
EL. = 622.50'
622.79
EOP WLR
VPT 1+59.00
EL. = 622.81'
623.31
END PROFILE
STA. 1+82.00
EL. 623.31'
MATCH EXIST.
EXIST. GROUND
BEGIN PROFILE
STA. 1+00.00
EL. 622.79'
(-)1.00%
(+)1.03%
(+)2.17%
PGL RT @ RATHBONE DR.
CULVERT B1

1+00 2+00

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

INTERSECTION
DETAILS
RATHBONE DR.

SHEET 1 OF 7

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		103
COLLIN		

DATE: 4/6/2026 1:56:52 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\W.Lucas_INT_01_Rathbone_LTRT.dgn

Texas811 Know what's below. Call before you dig.

DITCH BOTTOM
TOP OF DITCH
EXIST. R.O.W.
2.0%
W. LUCAS ROAD
55.00
PT
55+05.98
31.00' RT
EL. = 617.55'
FACE OF CURB
25' R
BEGIN CROSS SLOPE TRANSITION
1+37.00
0.99%
℄ CONST.
℄ MIDDLETON DR.
S 0° 11' 20.36" E
1+00
2+00
CULVERT C3
STA. EQ =
W. LUCAS RD.
STA. = 54+68.98
MIDDLETON DR.
STA. = 1+00.00
CULVERT D3
SAWCUT
1.72%
1.82%
END CONC. PVMT.
END CROSS SLOPE TRANSITION
1+82.00
MIDDLETON DR.
PC
1+56.08
12.00' LT
EL. = 616.83'
1+82.00
12.09' LT
MATCH EXIST.
EL. = ±616.17'
END CONC. PVMT.
EXIST. MONUMENT SIGN
PROTECT EXIST. LANDSCAPE OR REPLACE IN KIND
EXIST. DRAINAGE AND UTILITY EASEMENT
RELOCATE EXIST. LANDSCAPE
EXIST. EDGE OF PAVEMENT
EXIST. R.O.W.
PT
1+56.00
12.00' RT
EL. = 616.90'
1+82.00
12.00' RT
MATCH EXIST.
EL. = ±616.17
END CONC. PVMT.
FACE OF CURB
EDGE OF PAVEMENT
UNPAVED SHOULDER
8' SIDEWALK
PC
54+31.98
31.00' RT
EL. = 616.81'
EXIST. SANITARY EASEMENT
DITCH BOTTOM
TOP OF DITCH
EXIST. FENCE
EXIST. FENCE (TYP)
2.0%

0 5 20
Feet

NOTES:

1. RIPRAP NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

630
625
620
615
610
605
600
1+00
2+00

STA = 1+72.00
EL = 616.55'
K = 17
L = 20.00'

617.80'
PGL @ ℄ MIDDLETON DR.
BEGIN PROFILE
STA. 1+00.00
EL. 617.80'
(-)2.00%
(+)1.01%
(-)2.86%
(-)2.86%
(-)2.86%
(-)1.65 %
VPC 1+62.00
EL. = 616.83'
VPT 1+82.00
EL. = 616.38'
END PROFILE
STA. 1+82.00
EL. 616.38'
MATCH EXIST.
EXIST. GROUND @ ℄ MIDDLETON DR.
616.38'
VPC 1+31.00
EL. = 617.18'
VPT 1+59.00
EL. = 616.92'
CULVERT D3
STA = 1+45.00
EL = 617.32'
K = 7
L = 28.00'

W. LUCAS RD. ROADWAY IMPROVEMENTS

INTERSECTION DETAILS MIDDLETON DR.

SHEET 2 OF 7

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

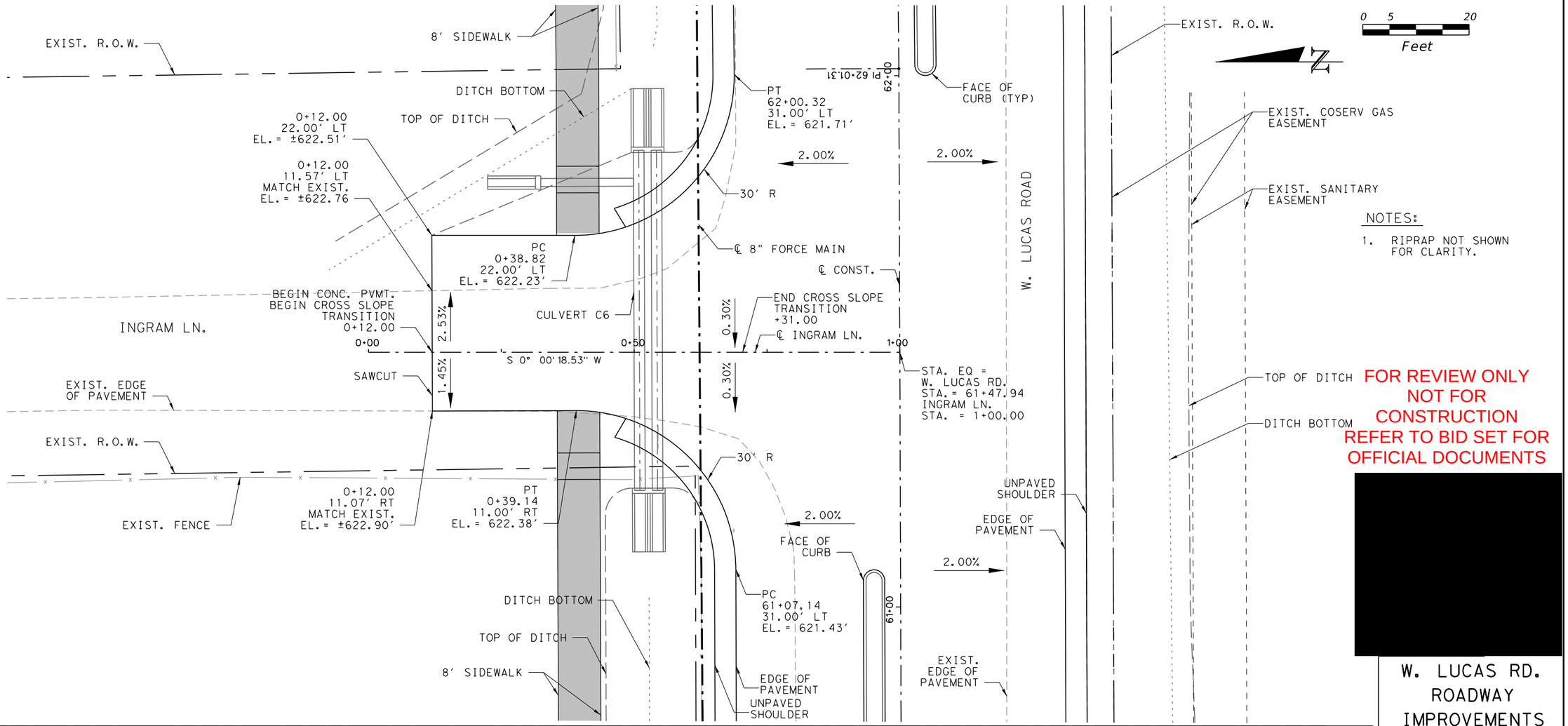
bc engineering
a PARSONS Company

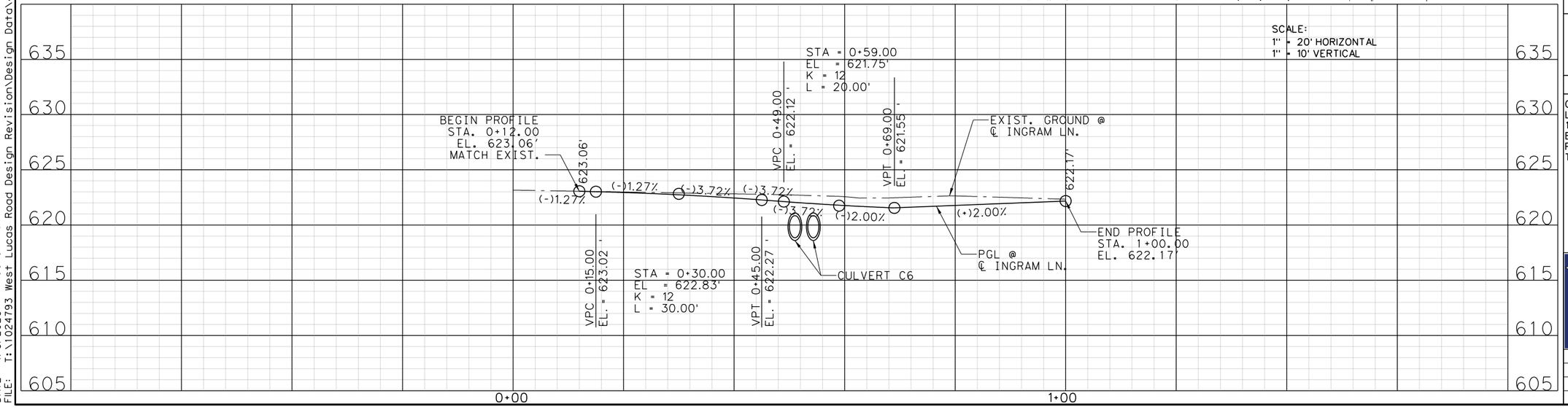
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	104
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:53 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\W.Lucas_INT_02_Middleton.dgn

Texas811 Know what's below. Call before you dig.





W. LUCAS RD. ROADWAY IMPROVEMENTS

INTERSECTION DETAILS INGRAM LN.

SHEET 3 OF 7

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

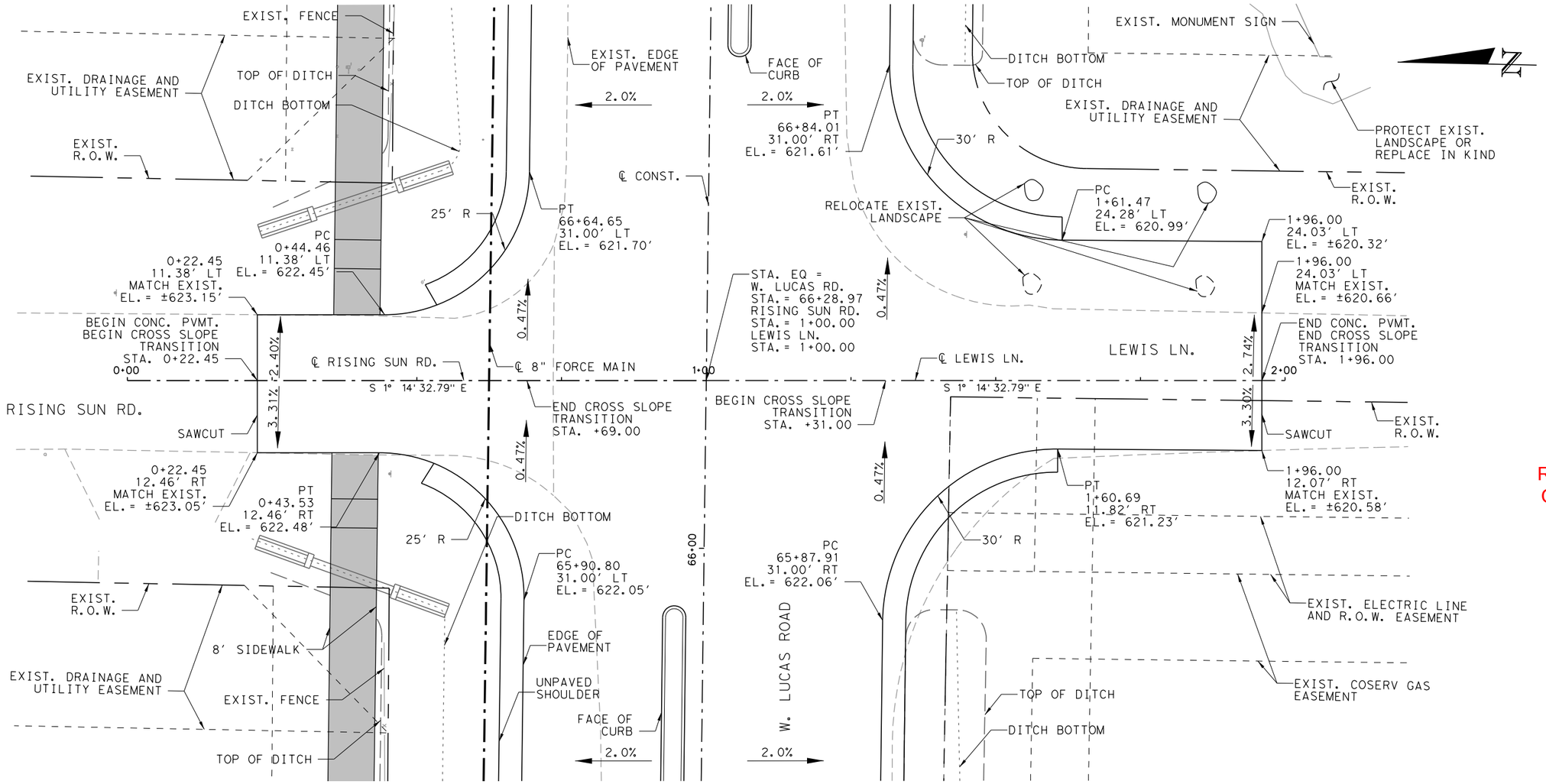
bc engineering
a PARSONS Company

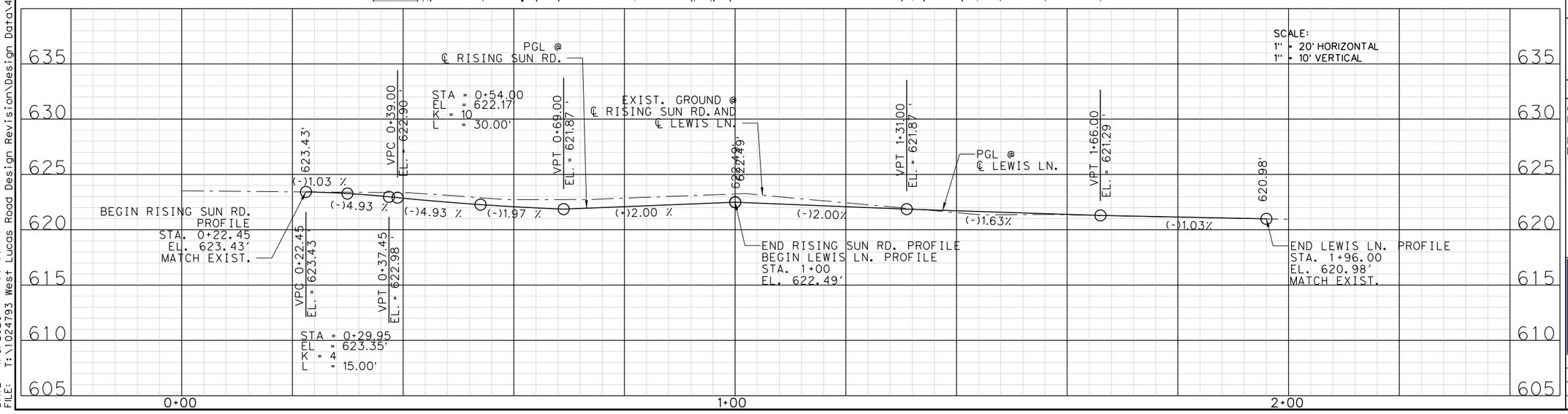
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		105
COLLIN		

DATE: 4/6/2026 1:56:54 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_INT_03_Ingram.dgn

Texas811 Know what's below. Call before you dig.





0 5 20
Feet

NOTES:

1. RIPRAP NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

INTERSECTION DETAILS-LEWIS LN. & RISING SUN RD.

SHEET 4 OF 7

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	106
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:55 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_INT_04_Lewis_RisingSun.dgn

Texas811 Know what's below. Call before you dig.

DITCH BOTTOM
EXIST. R.O.W.
TOP OF DITCH
EXIST. R.O.W.
8' SIDEWALK
EDGE OF PAVEMENT
UNPAVED SHOULDER
PT 72+32.40 31.00' LT EL. = 619.76'
0+04.00 12.10' LT MATCH EXIST. EL. = ±622.11'
PC +38.68 12.05' LT EL. = 622.45'
BEGIN CONC. PVMT. BEGIN CROSS SLOPE TRANSITION +04.00
0+00
SAWCUT
3.50%
0.14%
RED STAR RD.
S 0° 08' 57.16" E
CULVERT E2
℄ 8" FORCE MAIN
END CROSS SLOPE TRANSITION 0+31.00
℄ RED STAR RD.
0.04%
STA. EQ = W. LUCAS RD. STA. = 71+89.95 RED STAR RD. STA. = 1+00.00 BEE CAVES RD. STA. = 1+00.00
0+04.00 10.67' RT MATCH EXIST. EL. = ±621.69'
PT +40.13 11.86' RT EL. = 620.46'
30' R (TYP)
PC 71+48.50 31.00' LT EL. = 619.73'
FACE OF CURB
EXIST. R.O.W.
EXIST. EASEMENT
8' SIDEWALK
DITCH BOTTOM
TOP OF DITCH
2.0%
2.0%
72+00
1+00
℄ CONST.
℄ BEE CAVES RD.
S 0° 31' 20.68" E
BEGIN CROSS SLOPE TRANSITION 1+31.00
0.03%
0.03%
W. LUCAS ROAD
PC 1+46.16
25' R (TYP)
PT 72+27.37 31.00' RT EL. = 619.75'
PC 71+53.31 31.00' RT EL. = 619.73'
TOP OF DITCH
DITCH BOTTOM
EXIST. DRAINAGE AND UTILITY EASEMENT
EXIST. EASEMENT
EXIST. EDGE OF PAVEMENT
RELOCATE EXIST. LANDSCAPE
PC 1+58.43 12.20' LT EL. = 618.73'
RELOCATE EXIST. LANDSCAPE
EXIST. R.O.W.
1+80.00 12.90' LT MATCH EXIST. EL. = ±618.03'
2.89%
PT 1+88.27
POT 2+00.00
2.00
S 9° 55' 47.86" E
BEE CAVES RD.
3.67%
END CONC. PVMT. END CROSS SLOPE TRANSITION 1+80.00
SAWCUT
PT 1+54.16 11.81' RT EL. = 618.80'
EXIST. R.O.W.
1+80.00 10.77' RT MATCH EXIST. EL. = ±618.01'
RELOCATE EXIST. LANDSCAPE
DITCH BOTTOM
EXIST. DRAINAGE AND UTILITY EASEMENT
PROTECT EXIST. LANDSCAPE OR REPLACE IN KIND

0 5 20
Feet

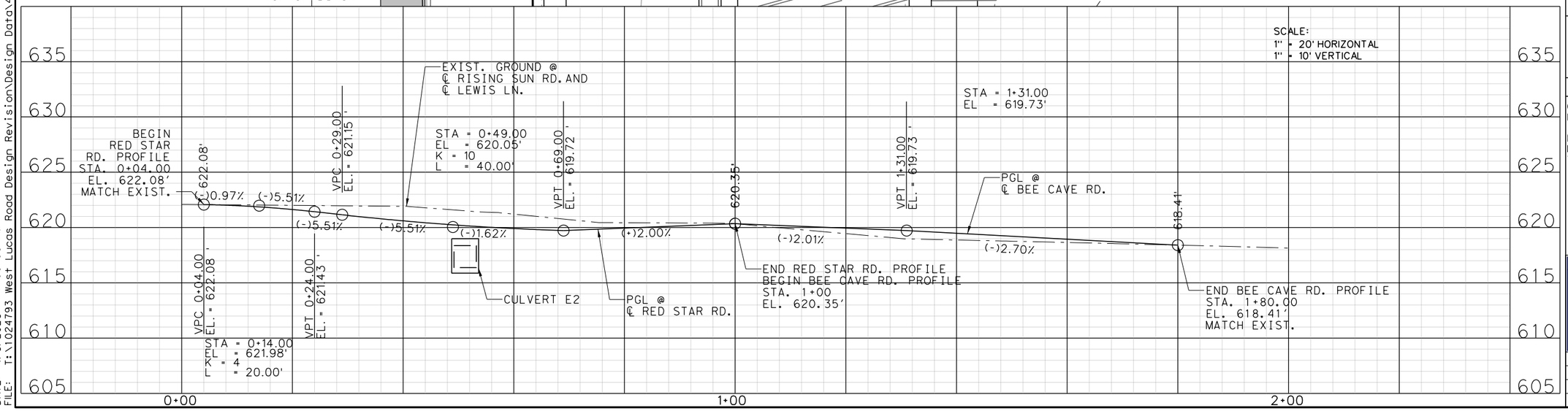
N

NOTES:

1. RIPRAP NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]



W. LUCAS RD. ROADWAY IMPROVEMENTS

INTERSECTION DETAILS-RED STAR RD & BEE CAVES RD.

SHEET 5 OF 7

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

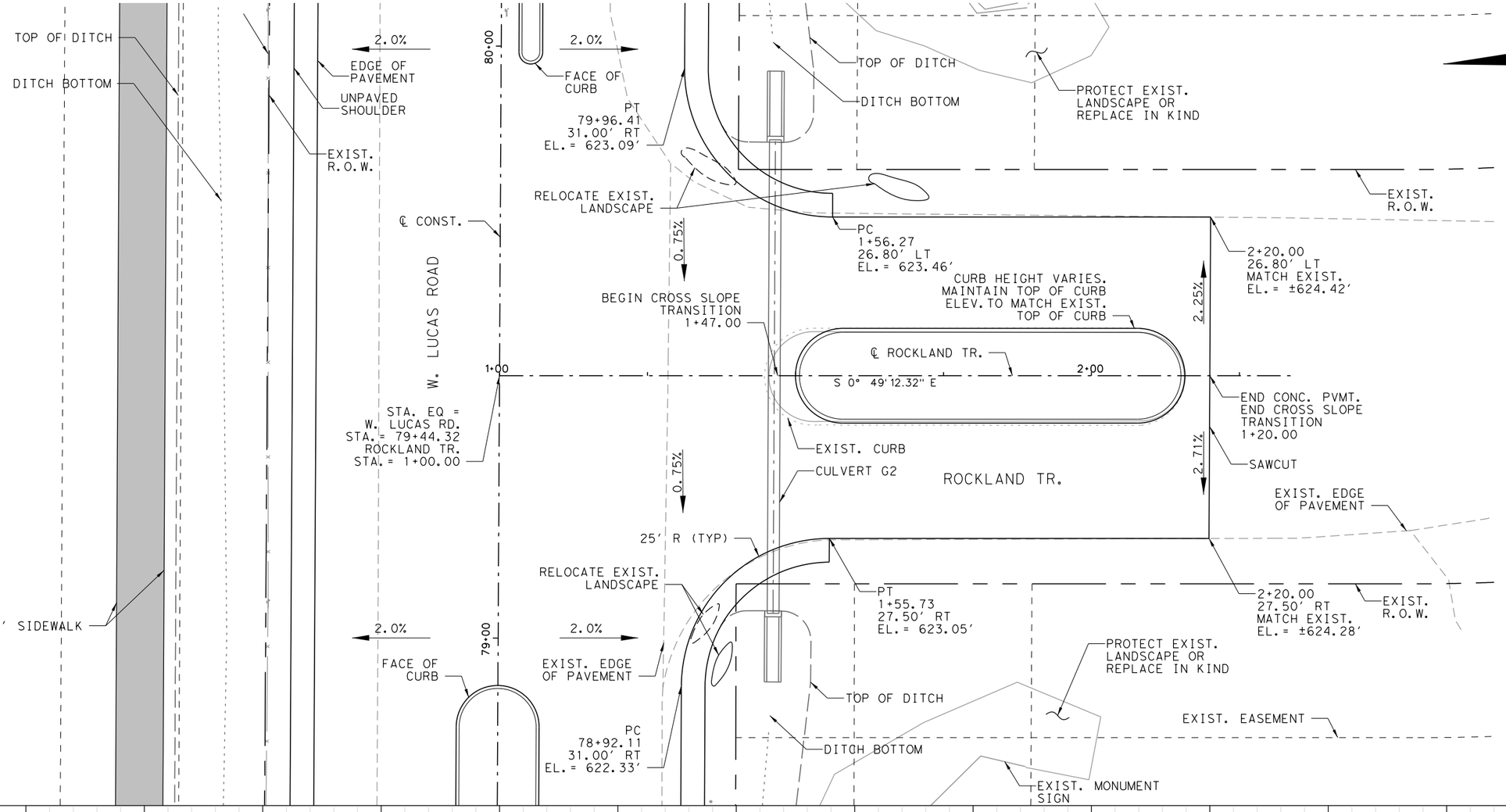
bgc engineering
a PARSONS Company

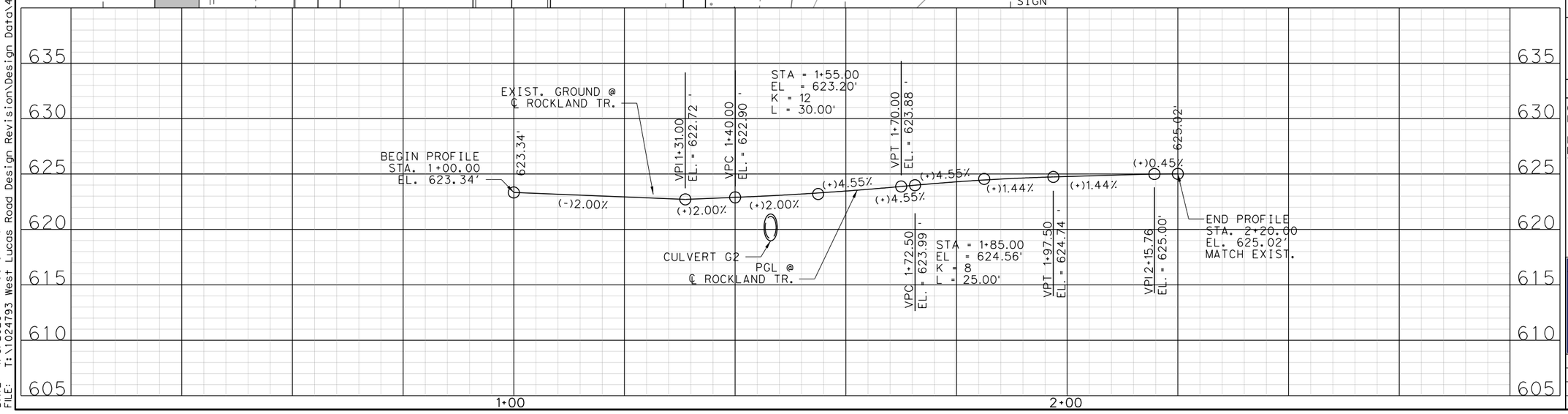
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	107
COUNTY		
COLLIN		

DATE: 4/6/2026 1:56:56 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_INT_05_BeeCave_RedStar.dgn

Texas811 Know what's below. Call before you dig.





NOTES:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. REFER TO ROADWAY DETAIL SHEET FOR CURB DETAIL.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

W. LUCAS RD. ROADWAY IMPROVEMENTS

INTERSECTION DETAILS ROCKLAND TR.

SHEET 6 OF 7

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

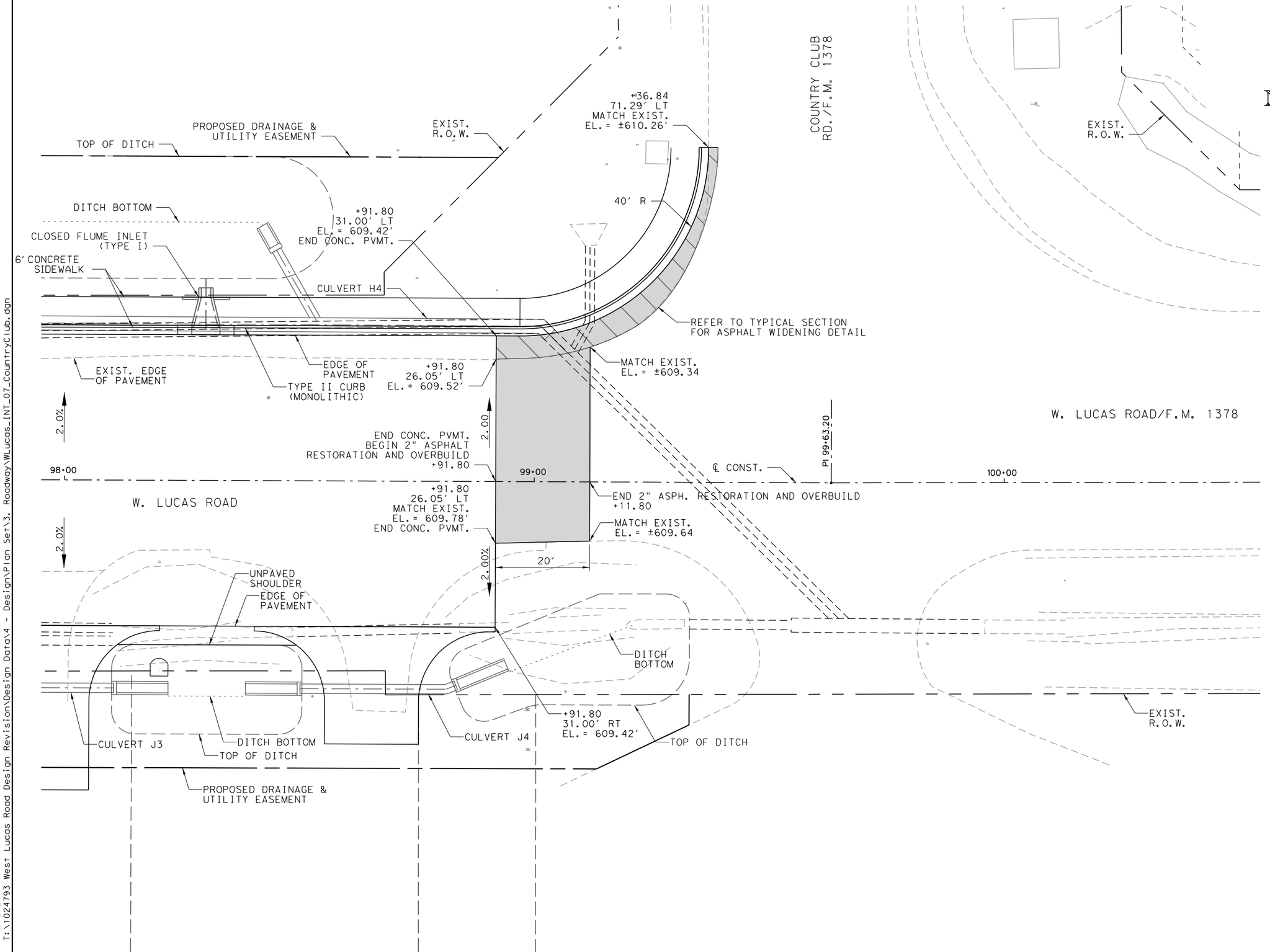
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	108
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:56:57 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_INT_06_Rockland.dgn



NOTES:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. REFER TO ROADWAY DETAIL SHEET FOR CURB DETAIL.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

INTERSECTION DETAILS COUNTRY CLUB RD.

SHEET 7 OF 7

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

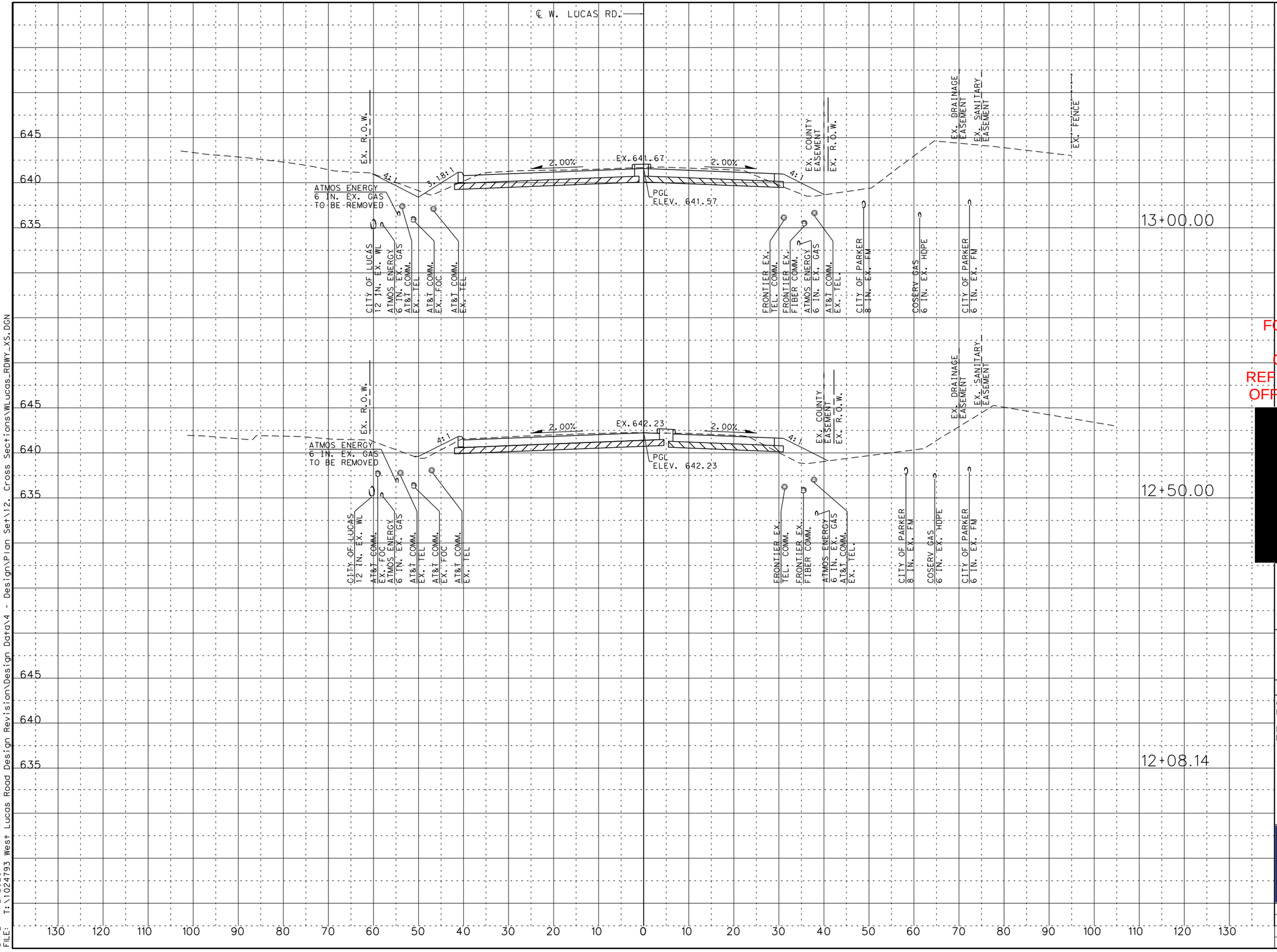
bec engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		109
COLLIN		

DATE: 4/6/2026 1:56:58 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\3. Roadway\WLucas_INT_07_CountryClub.dgn

Texas811 Know what's below. Call before you dig.



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 1 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

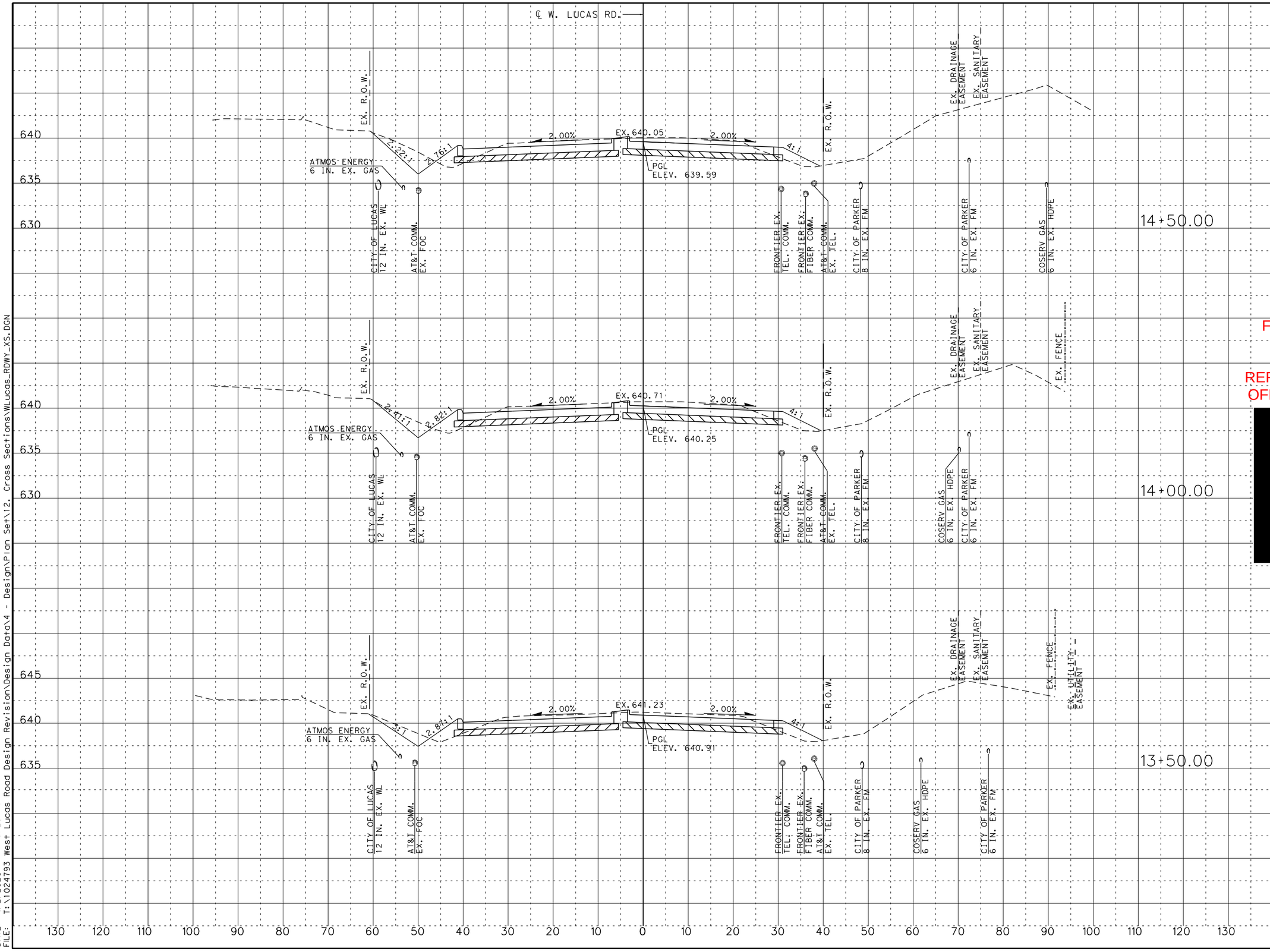
bgc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		110
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:39:58 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 2 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

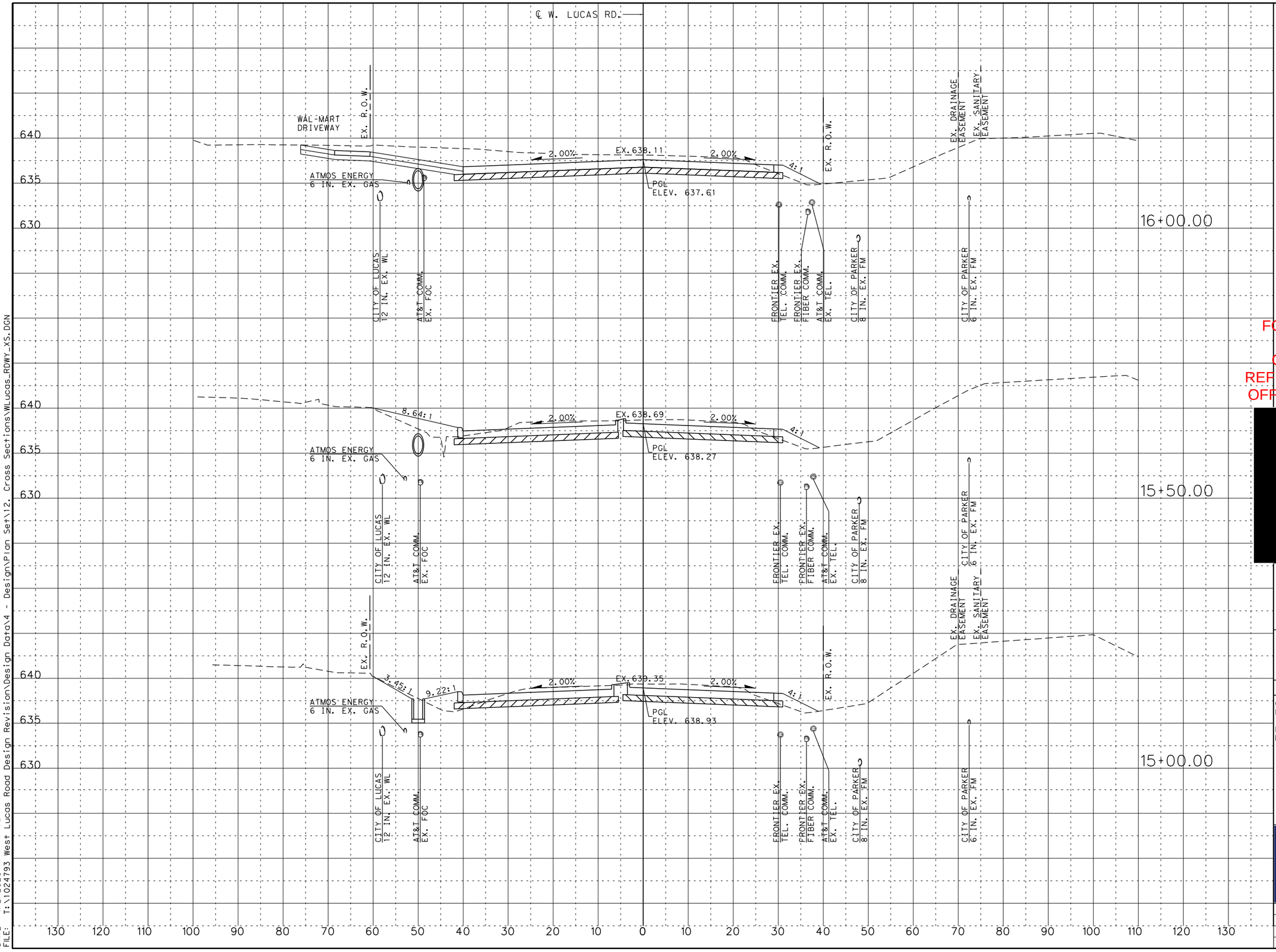
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		111
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
TEXAS 811.org 1-800-245-4545

DATE: 4/2/2026 1:40:25 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 3 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

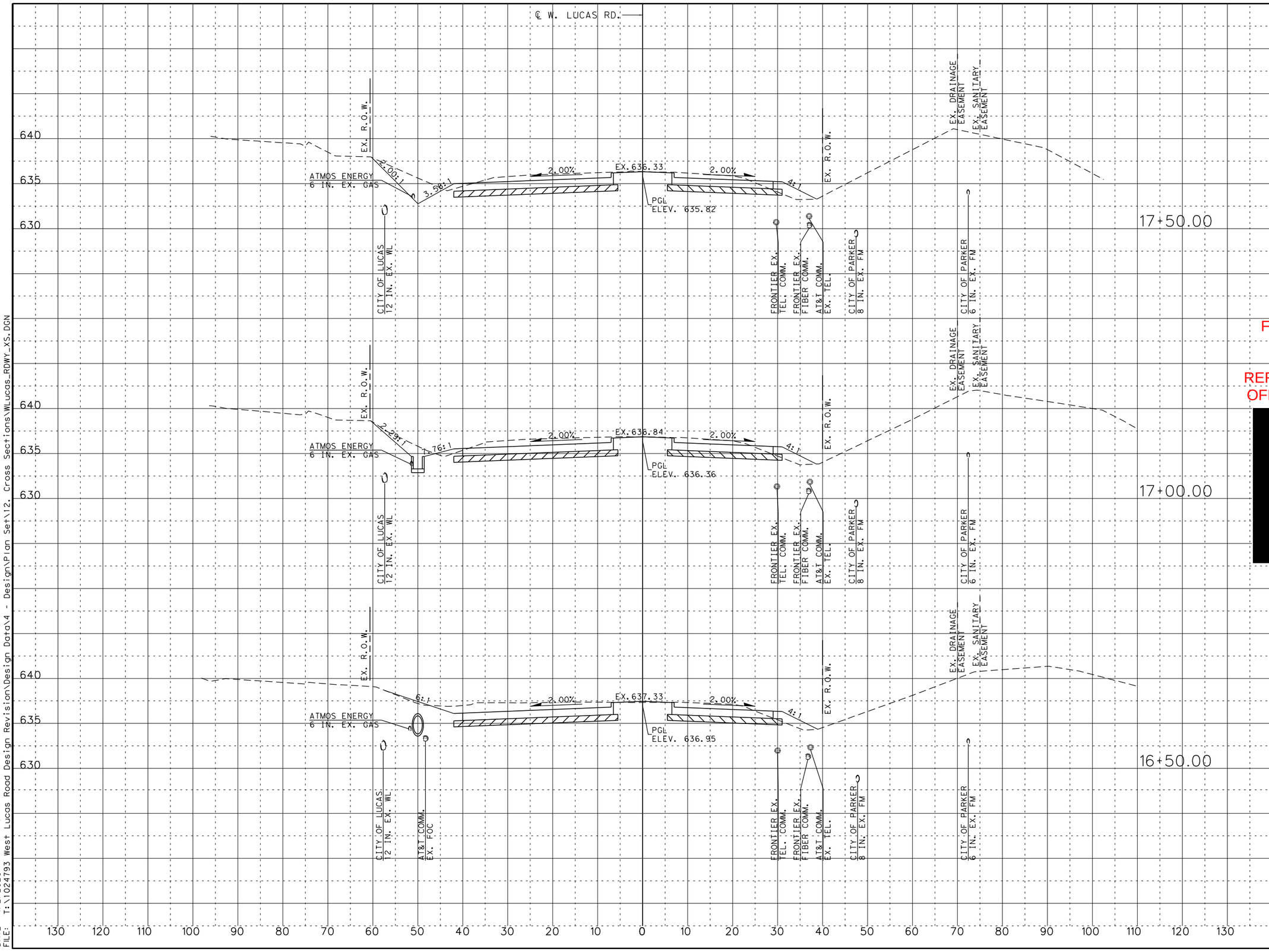
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	112
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:40:52 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 4 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

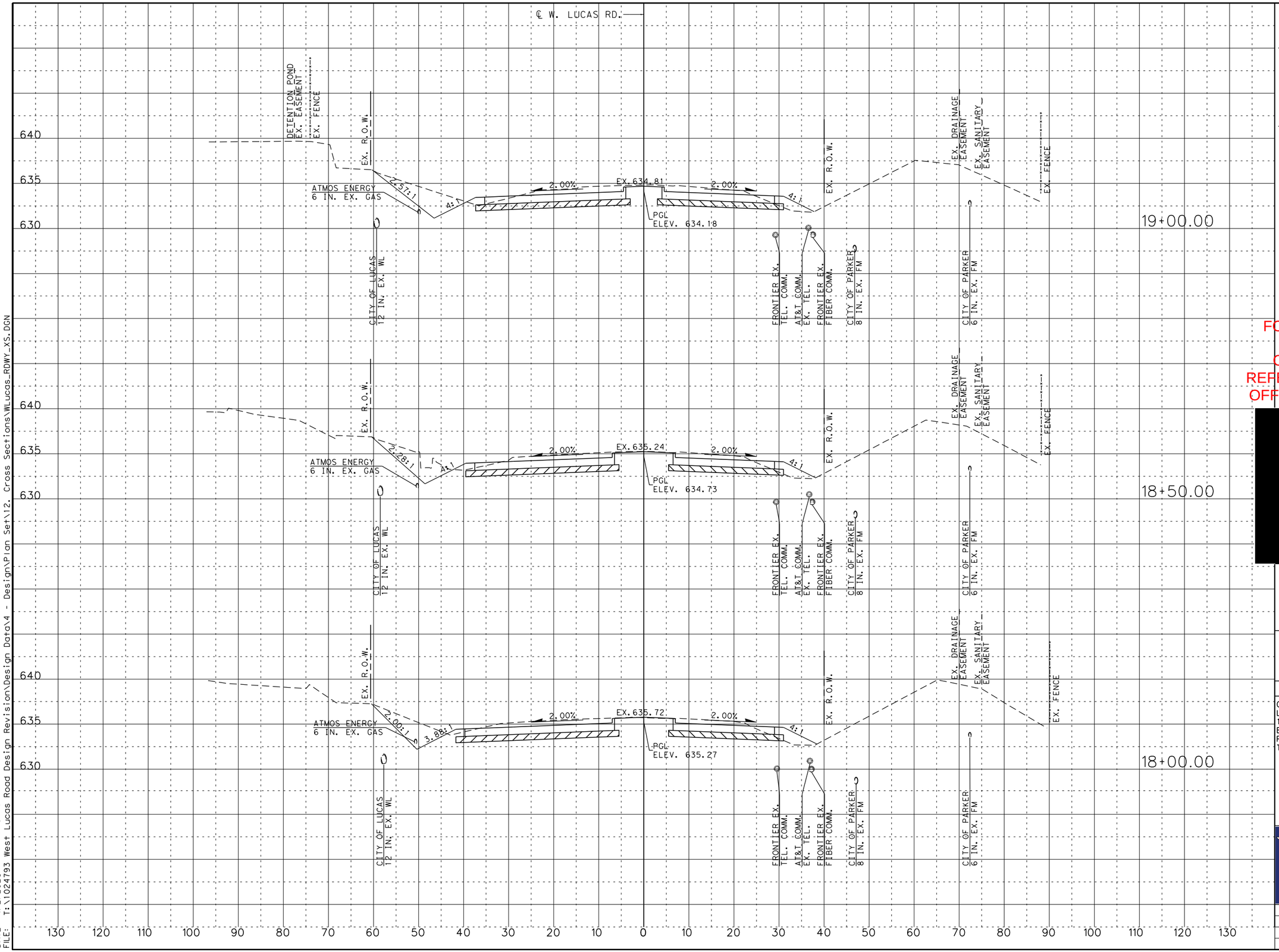
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		113
COLLIN		

CALL BEFORE YOU DIG
TEXAS811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:41:18 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 5 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

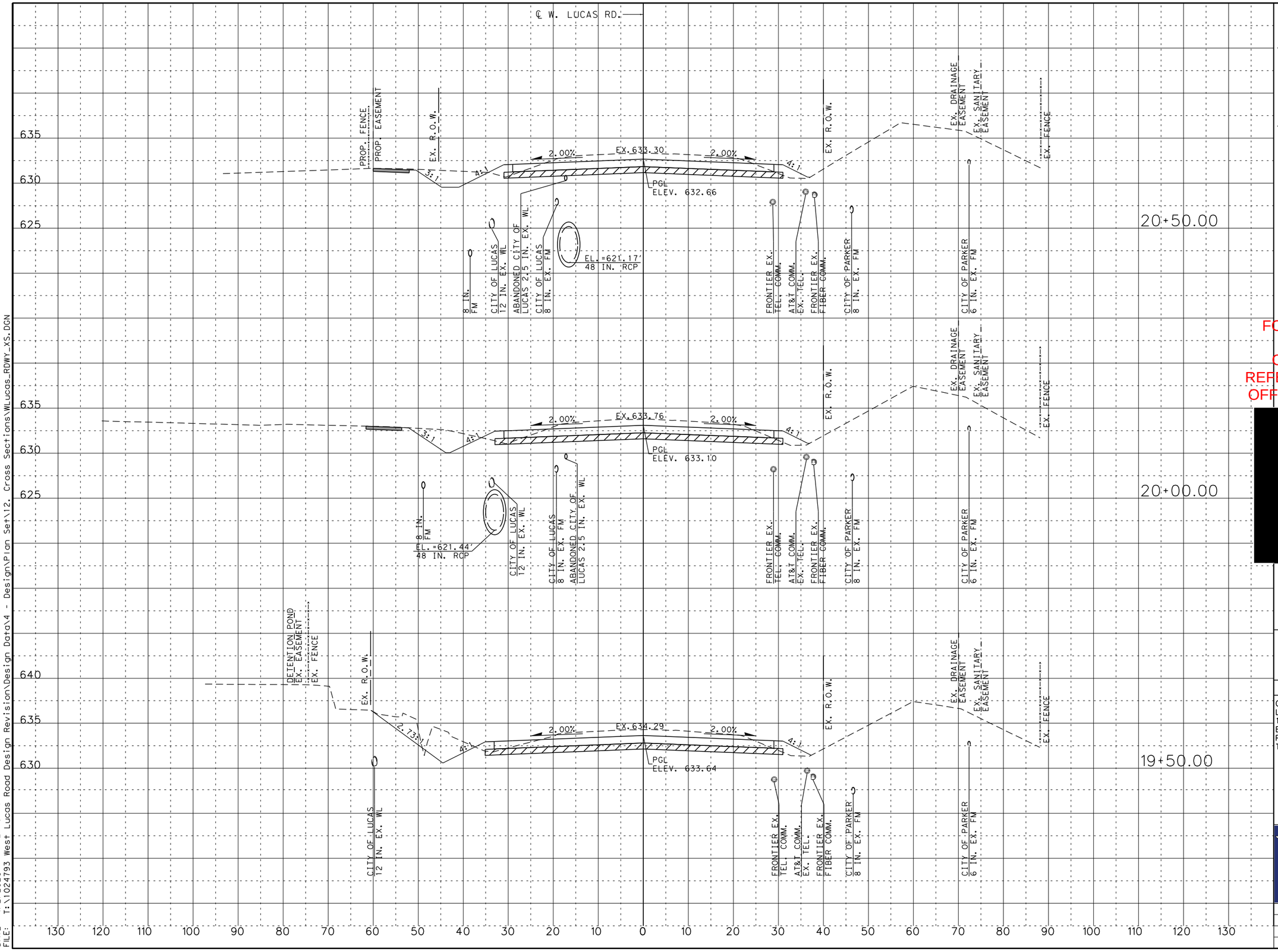
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	114
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (APPLIES TO MEMBERS AND NON-MEMBERS)
811 OR 1-800-DIG-TESS
TEXAS ONE CALL SYSTEM
1-800-245-4545
Texas811.org Know what's below. Call before you dig.

DATE: 4/2/2026 1:41:46 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 6 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

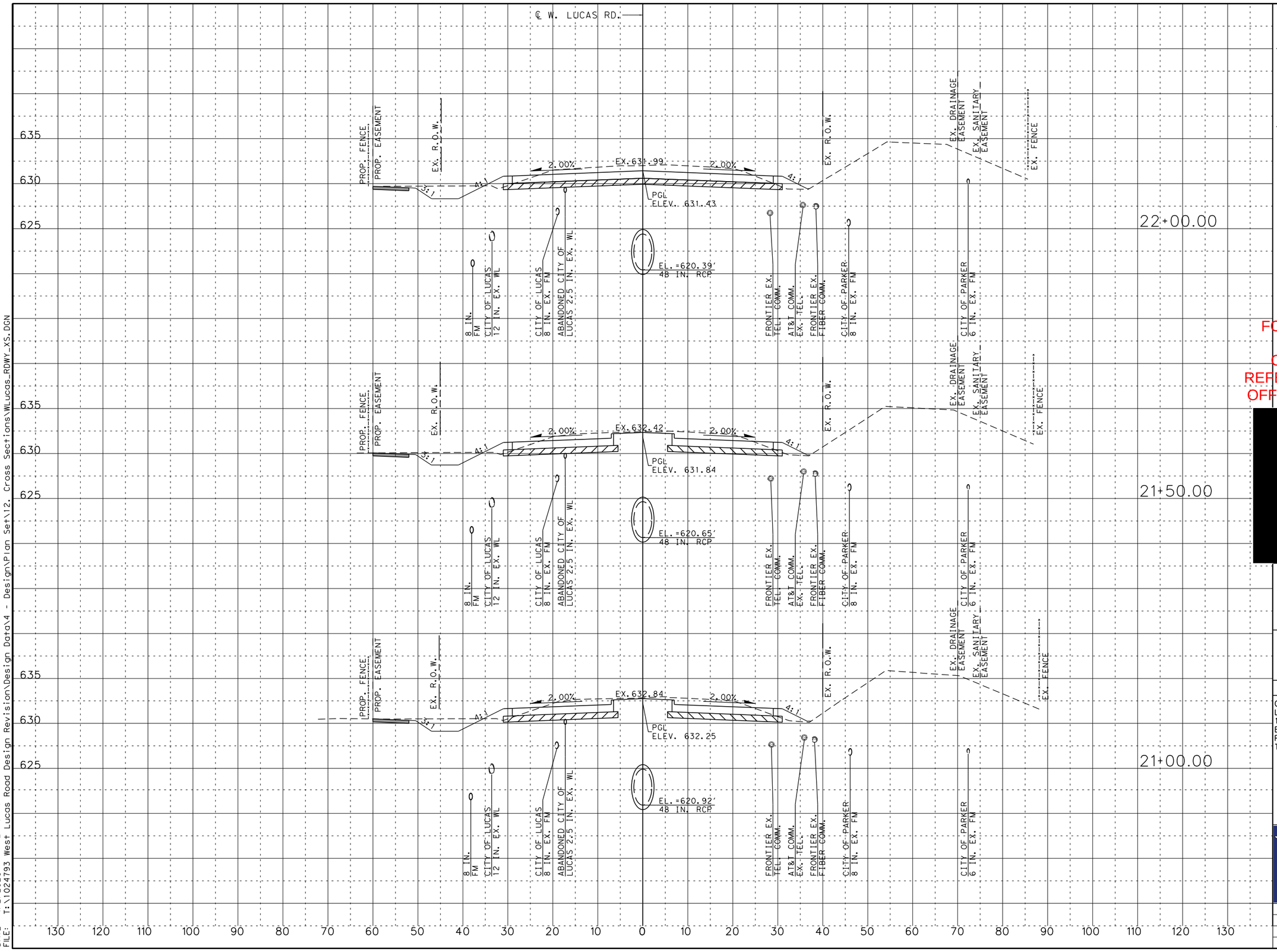
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	115
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (TEXAS LAW, CHAPTER 251, HSC)
811 OR 1-800-DIG-TESS
Texas811 Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:42:13 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

- EXISTING R.O.W.
- UTILITY EASEMENT
- EXIST. FENCE
- CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 7 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

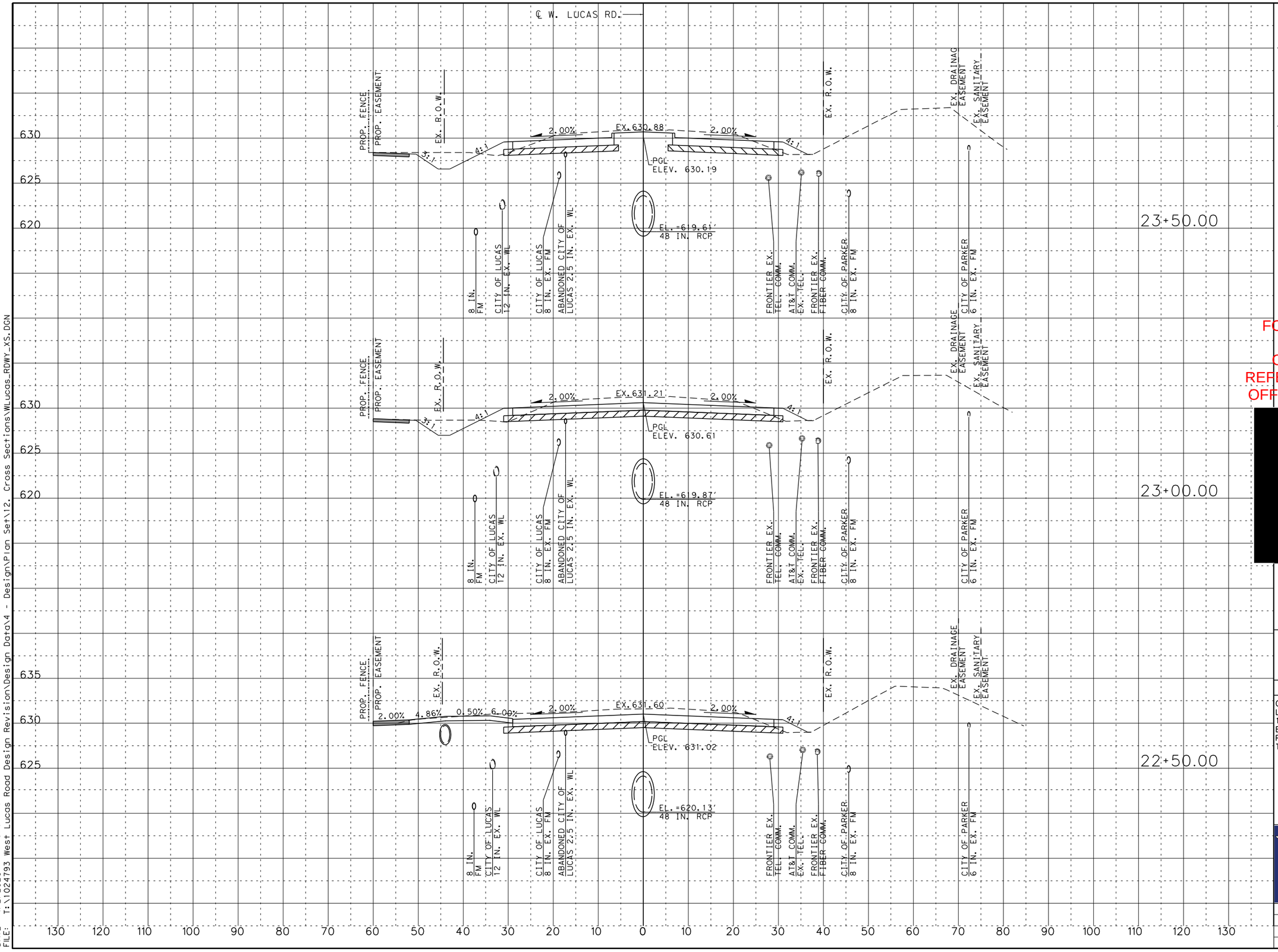
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		116
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW!!! (APPLIES TO BOTH CONTRACTOR AND OWNER)
CALL 811 AT LEAST 48 HOURS (BUT NOT MORE THAN 14 DAYS) BEFORE YOU BEGIN EXCAVATION.
TEXAS ONE CALL SYSTEM
1-800-245-4545
811 Know what's below. Call before you dig.

DATE: 4/2/2026 1:42:40 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

- EXISTING R.O.W.
- UTILITY EASEMENT
- EXIST. FENCE
- CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 8 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

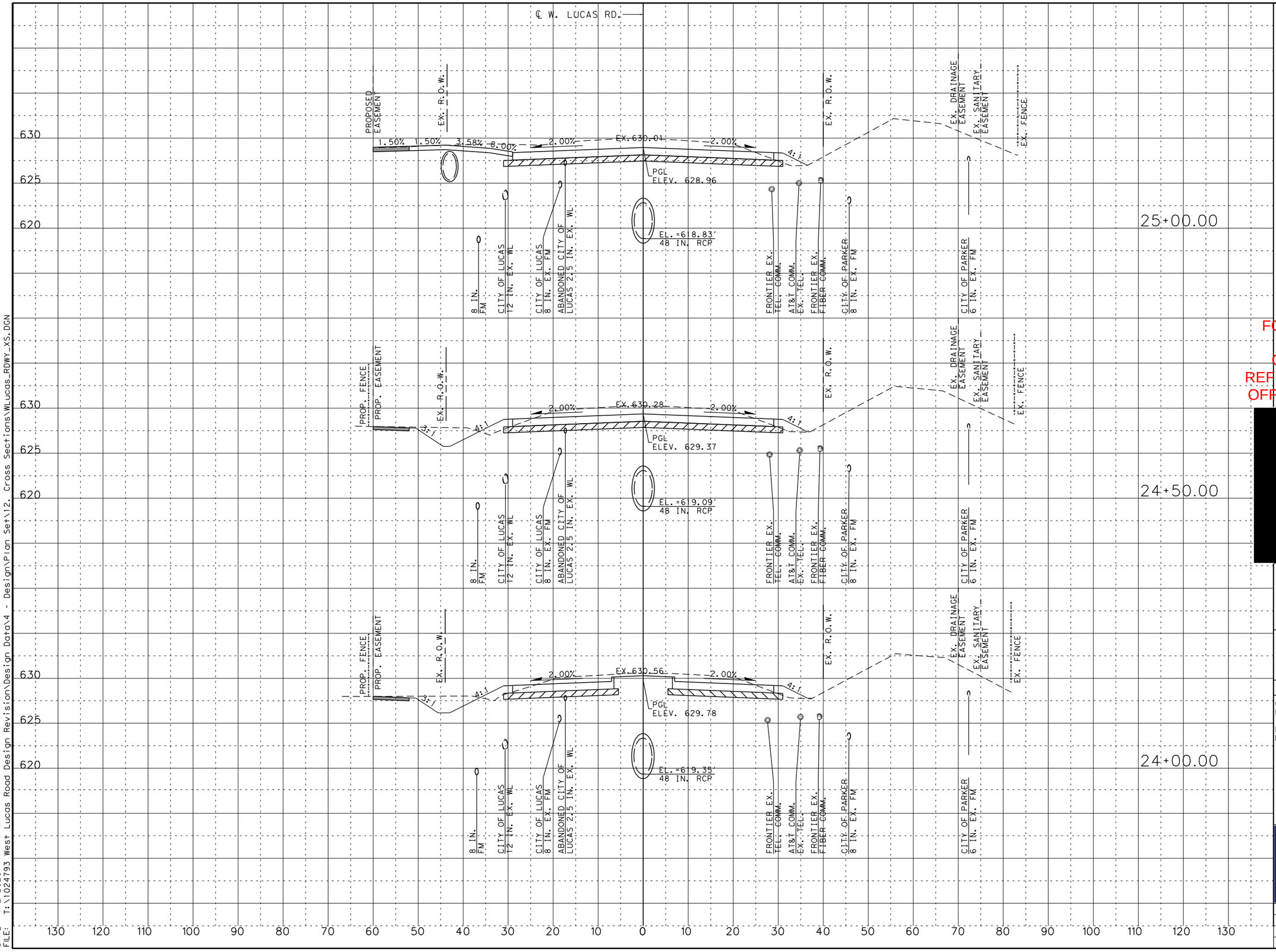
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		117
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's Below. Call before you dig.

DATE: 4/2/2026 1:43:07 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

—·—·— EXISTING R.O.W.
- - - - UTILITY EASEMENT
—x— EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 9 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

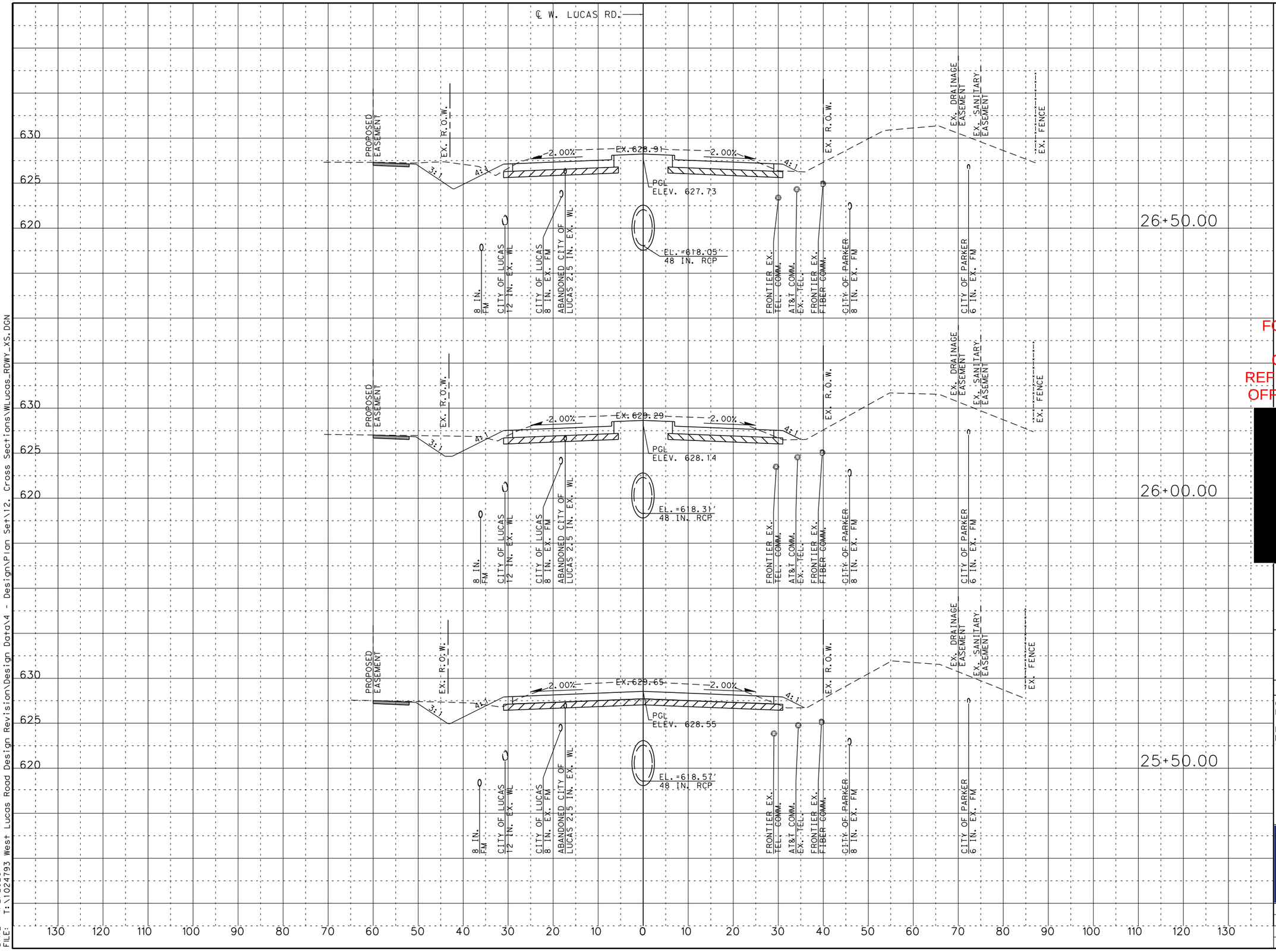
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	118
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (TEXAS ONE-CALL SYSTEM)
811 OR 1-800-DIG-TESS
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:43:34 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

- EXISTING R.O.W.
- UTILITY EASEMENT
- EXIST. FENCE
- CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 10 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

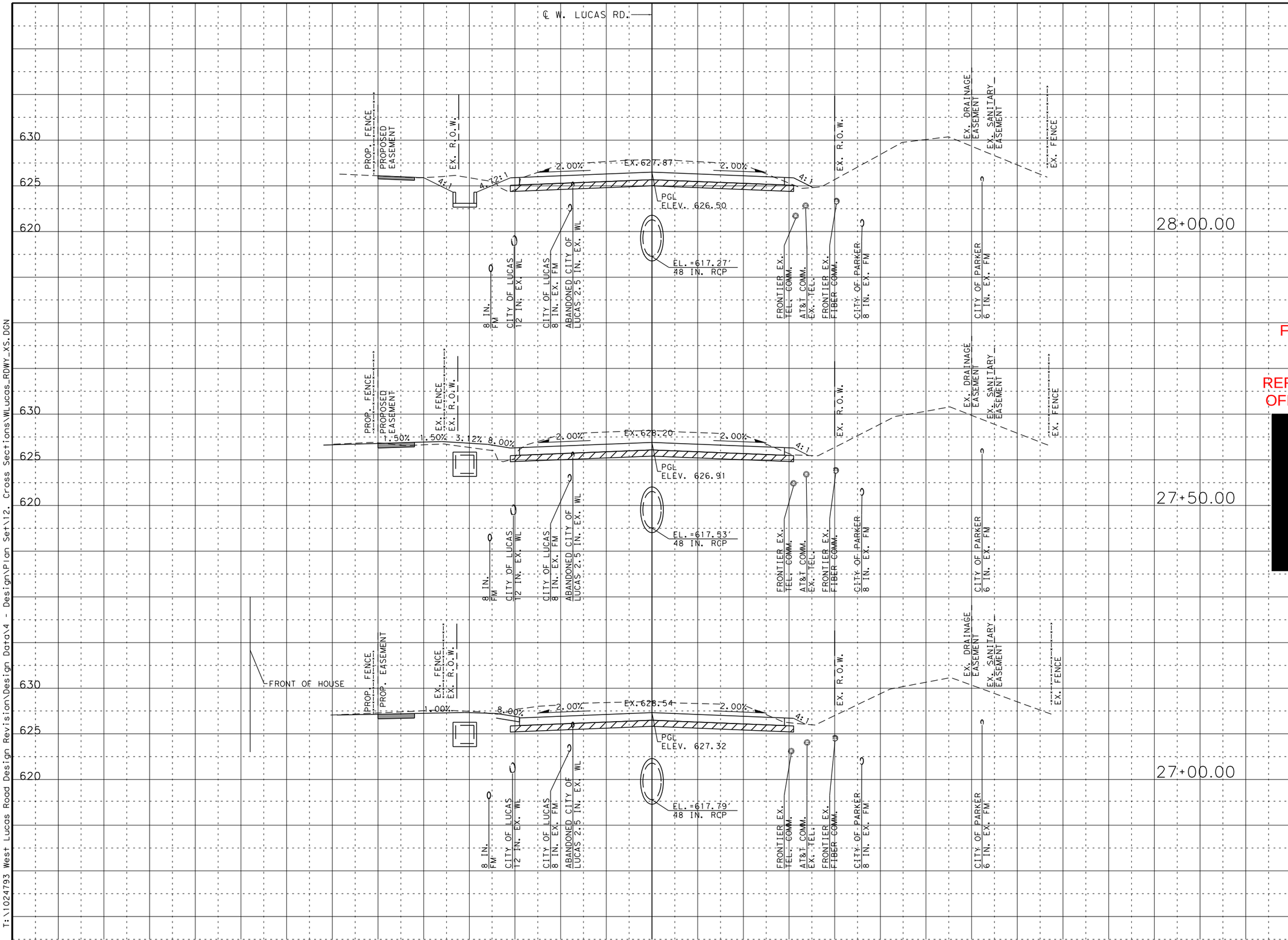
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	119
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (TEXAS811.COM)
811 OR 1-800-DIG-TESS
TEXAS ONE CALL SYSTEM
1-800-245-4545
Know what's below. Call before you dig.

DATE: 4/2/2026 1:44:01 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

- EXISTING R.O.W.
- UTILITY EASEMENT
- EXIST. FENCE
- CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 11 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

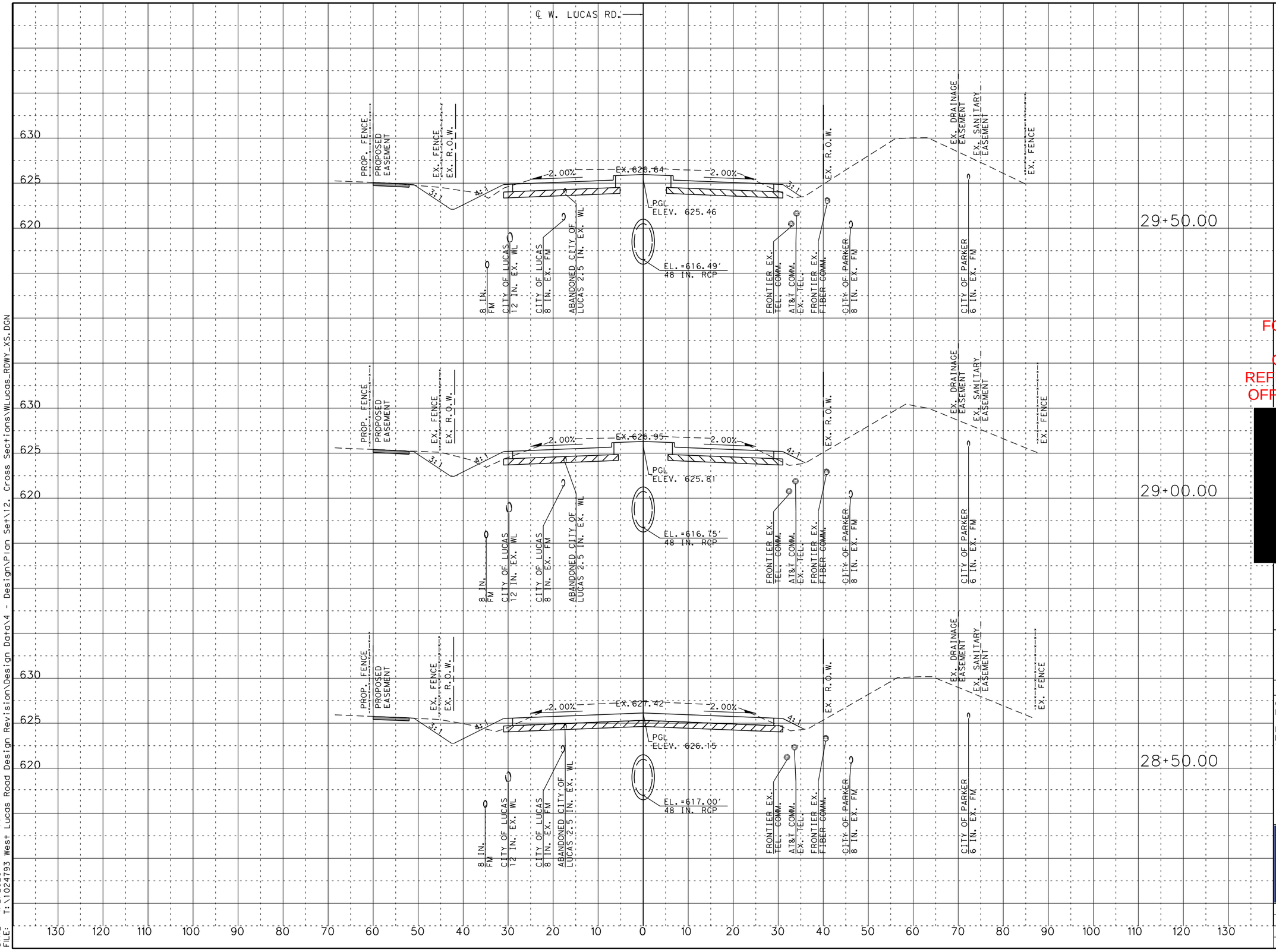
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	120
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (APPLIES TO ALL PERSONS, INCLUDING OWNERS, WHO PERFORM EXCAVATION OR DEMOLITION.)
TEXAS ONE CALL SYSTEM
1-800-245-4545
Texas811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:44:28 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 12 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

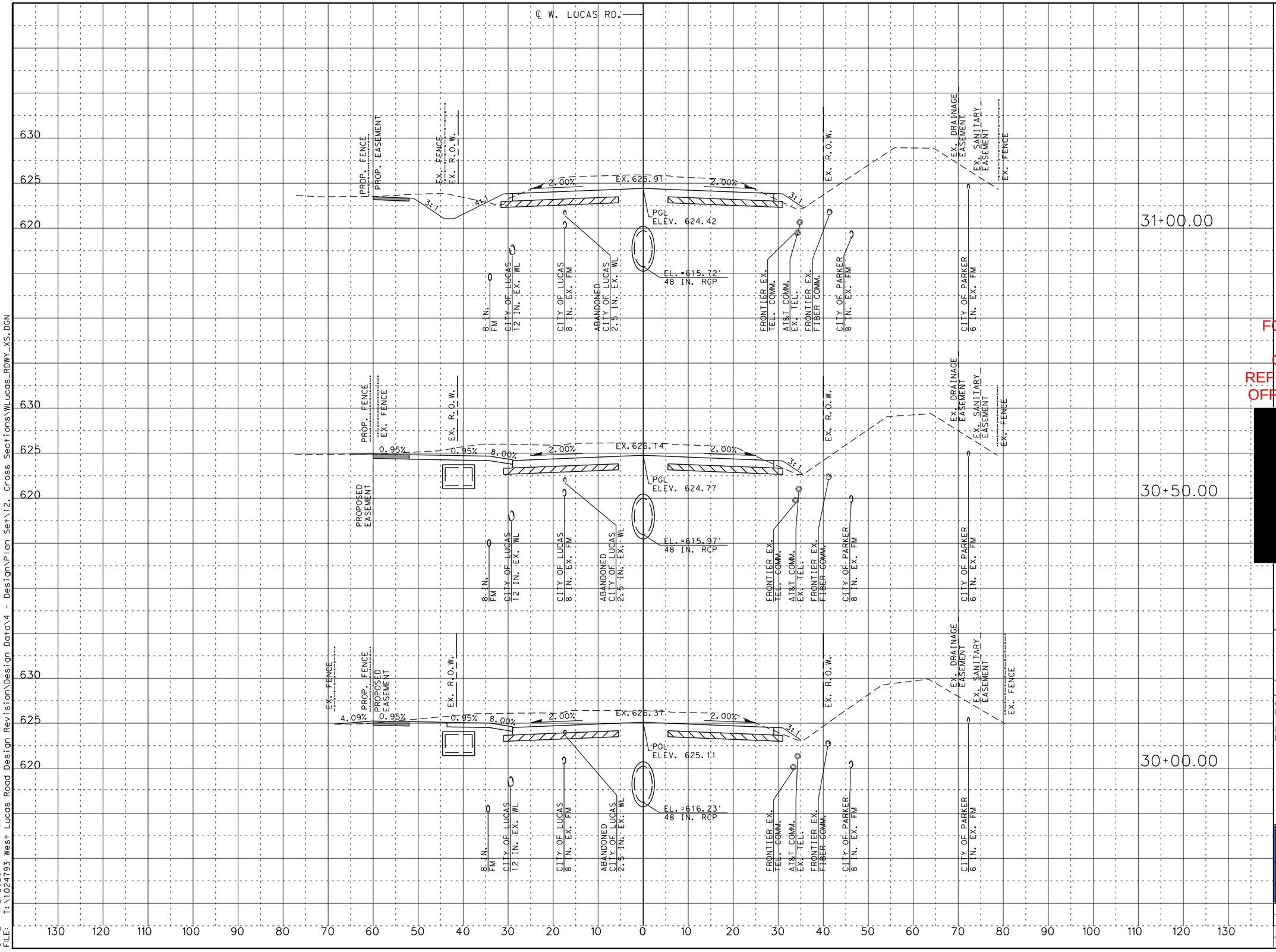
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	121
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:44:55 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

—·—·— EXISTING R.O.W.
- - - - UTILITY EASEMENT
—x— EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 13 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

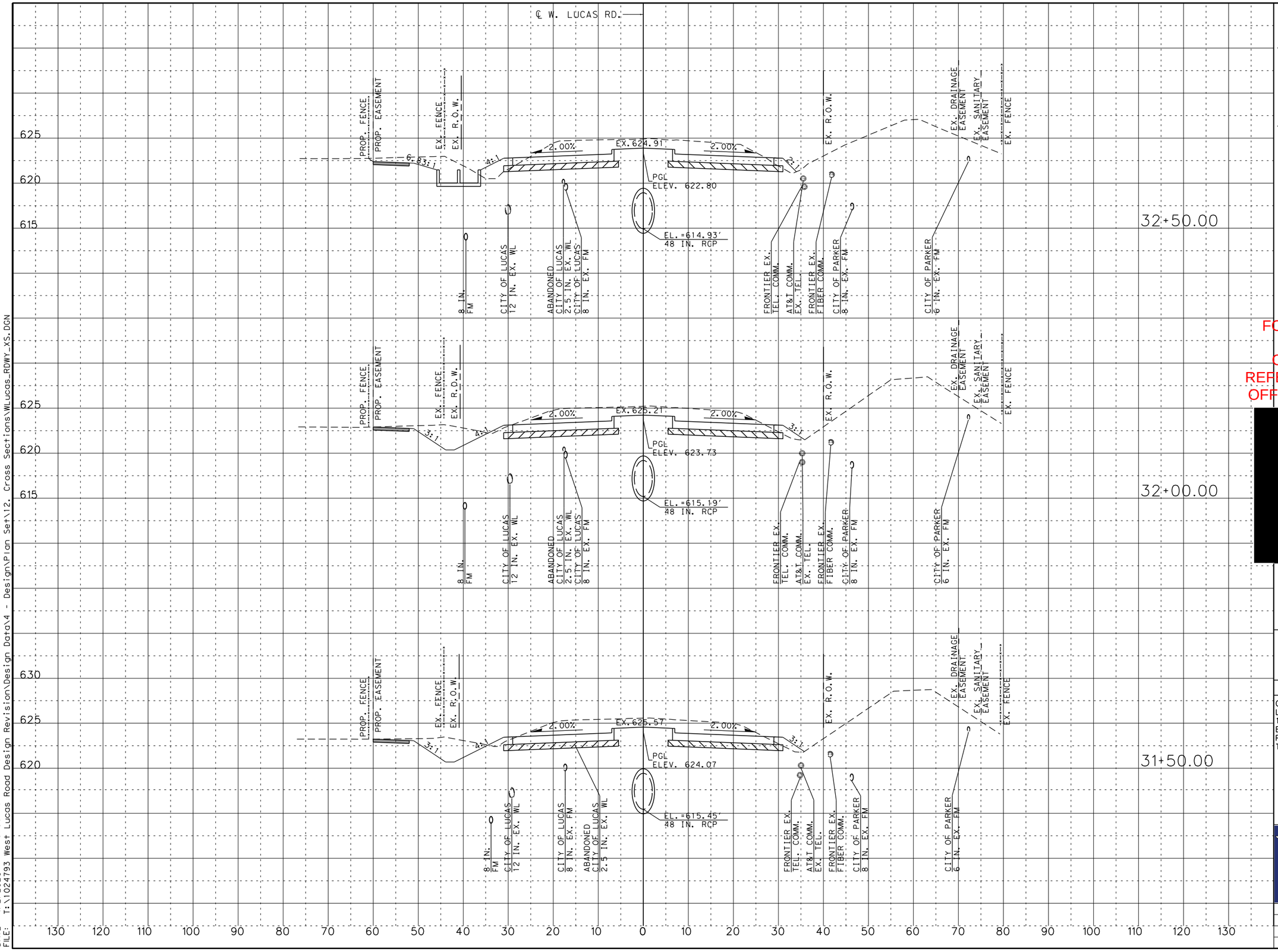
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		122
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (TEXAS LAW REQUIRES YOU TO CALL 811 AT LEAST 48 HOURS, BUT NOT MORE THAN 14 DAYS, BEFORE YOU BEGIN EXCAVATION.)
TEXAS ONE CALL SYSTEM
1-800-245-4545
Texas811 Know what's below. Call before you dig.

DATE: 4/2/2026 1:45:23 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

—·—·— EXISTING R.O.W.
- - - - UTILITY EASEMENT
—x— EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 14 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

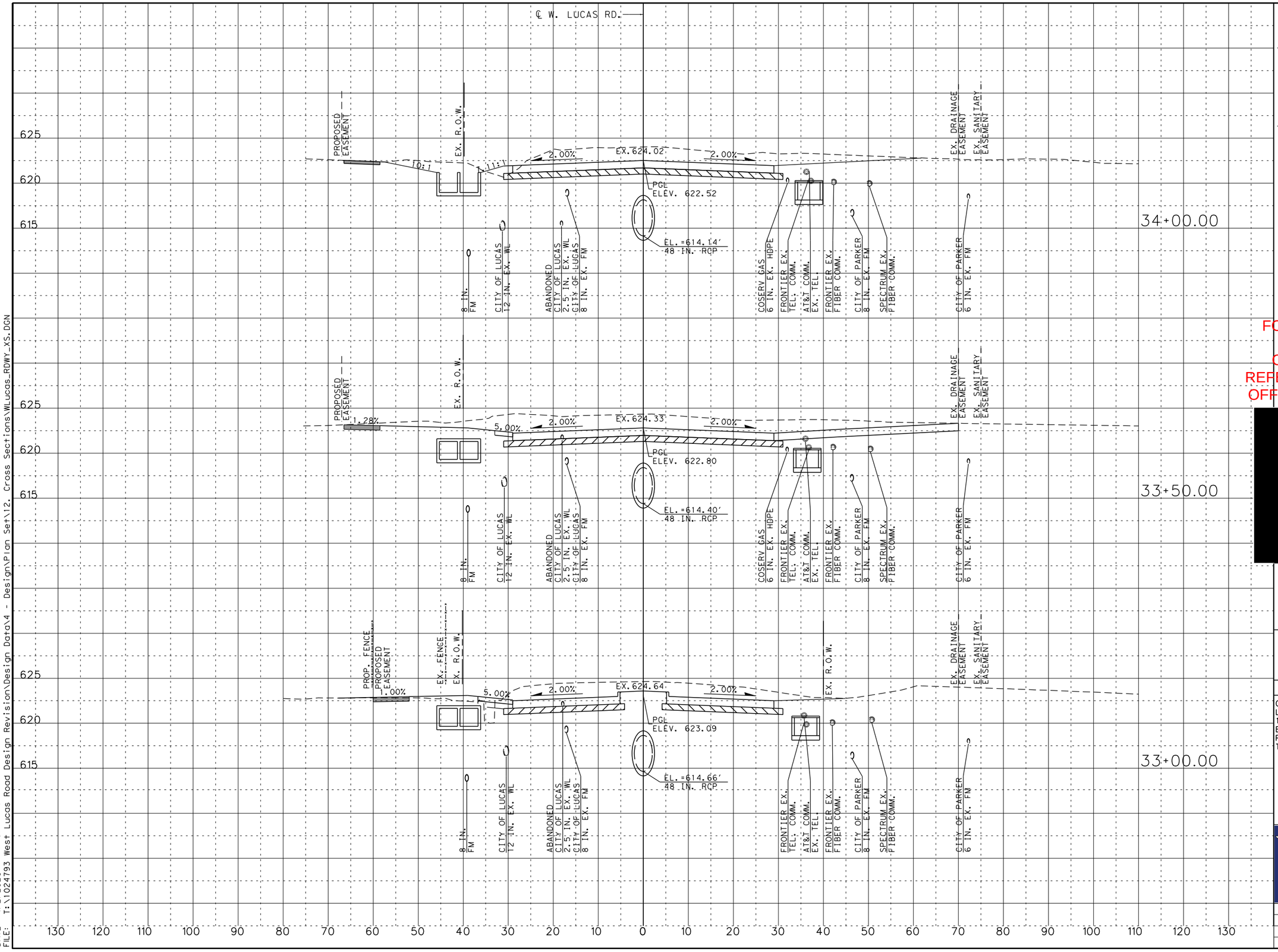
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		123
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:45:50 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

- EXISTING R.O.W.
- UTILITY EASEMENT
- EXIST. FENCE
- CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 15 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

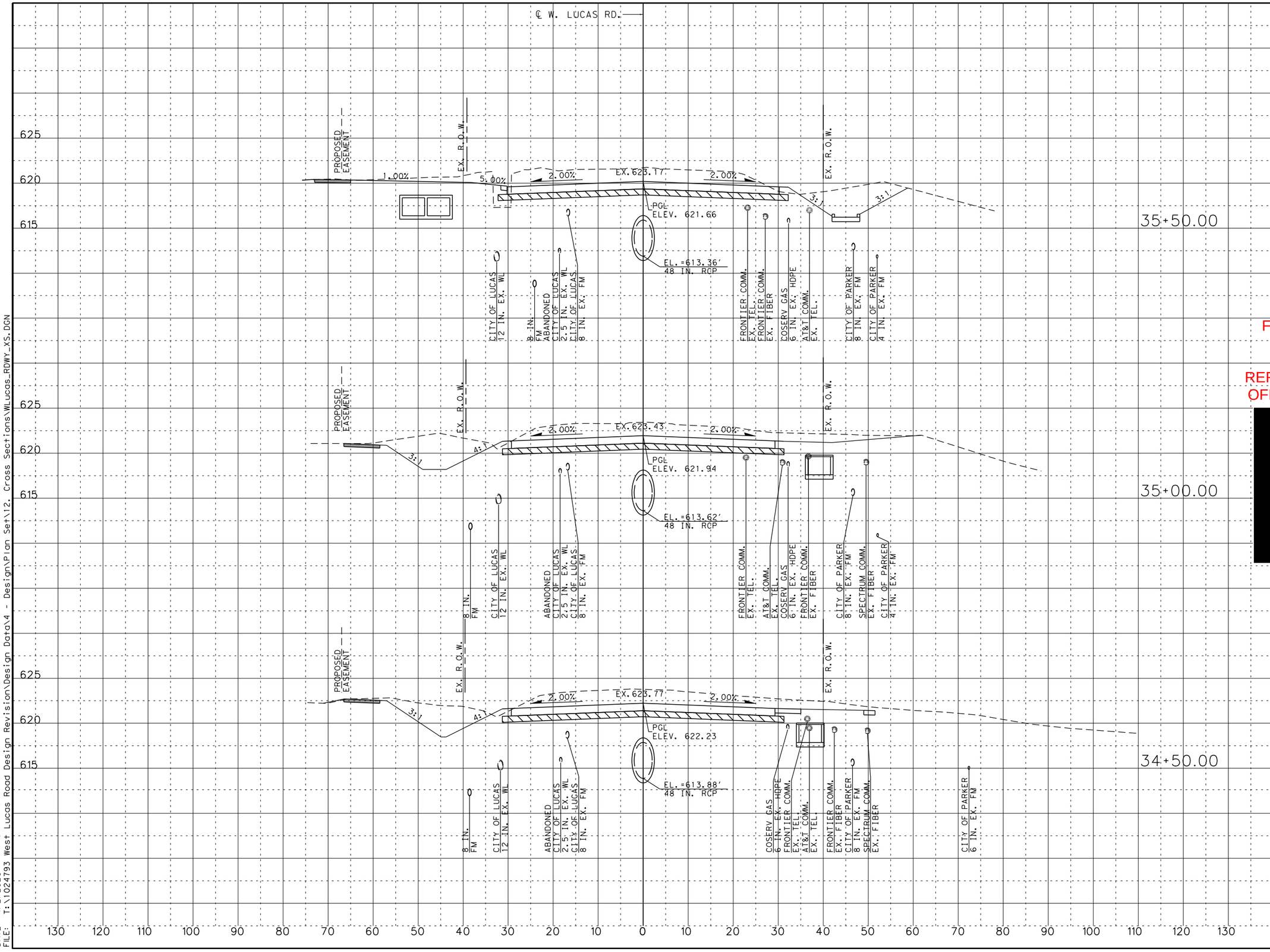
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		124
COLLIN		

CALL BEFORE YOU DIG
TEXAS811.org
811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:46:17 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 16 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

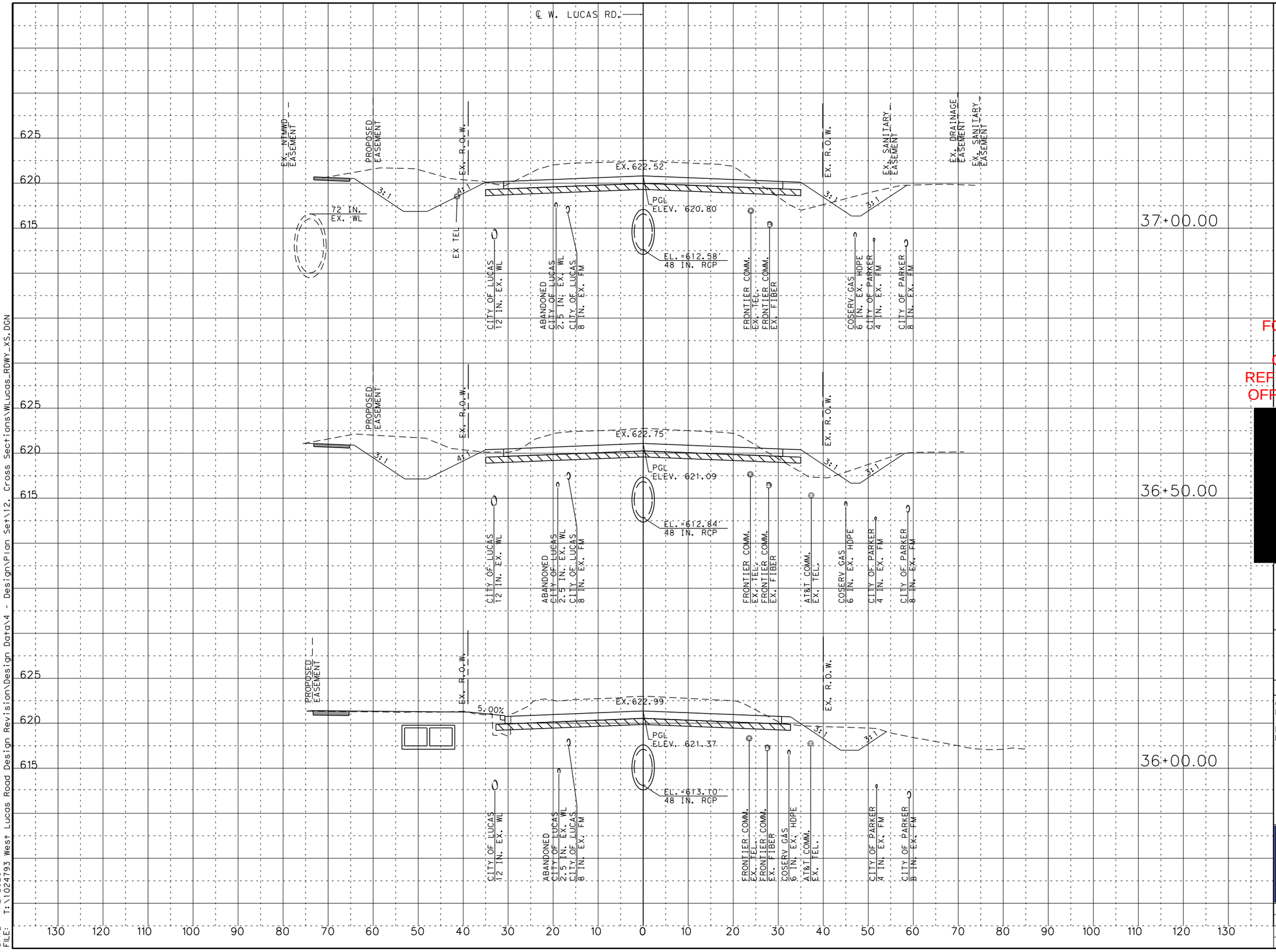
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	125
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW!
TEXAS811.ORG
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-DIG-TESS

DATE: 4/2/2026 1:46:44 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

—·—·— EXISTING R.O.W.
- - - - UTILITY EASEMENT
—x— EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 17 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

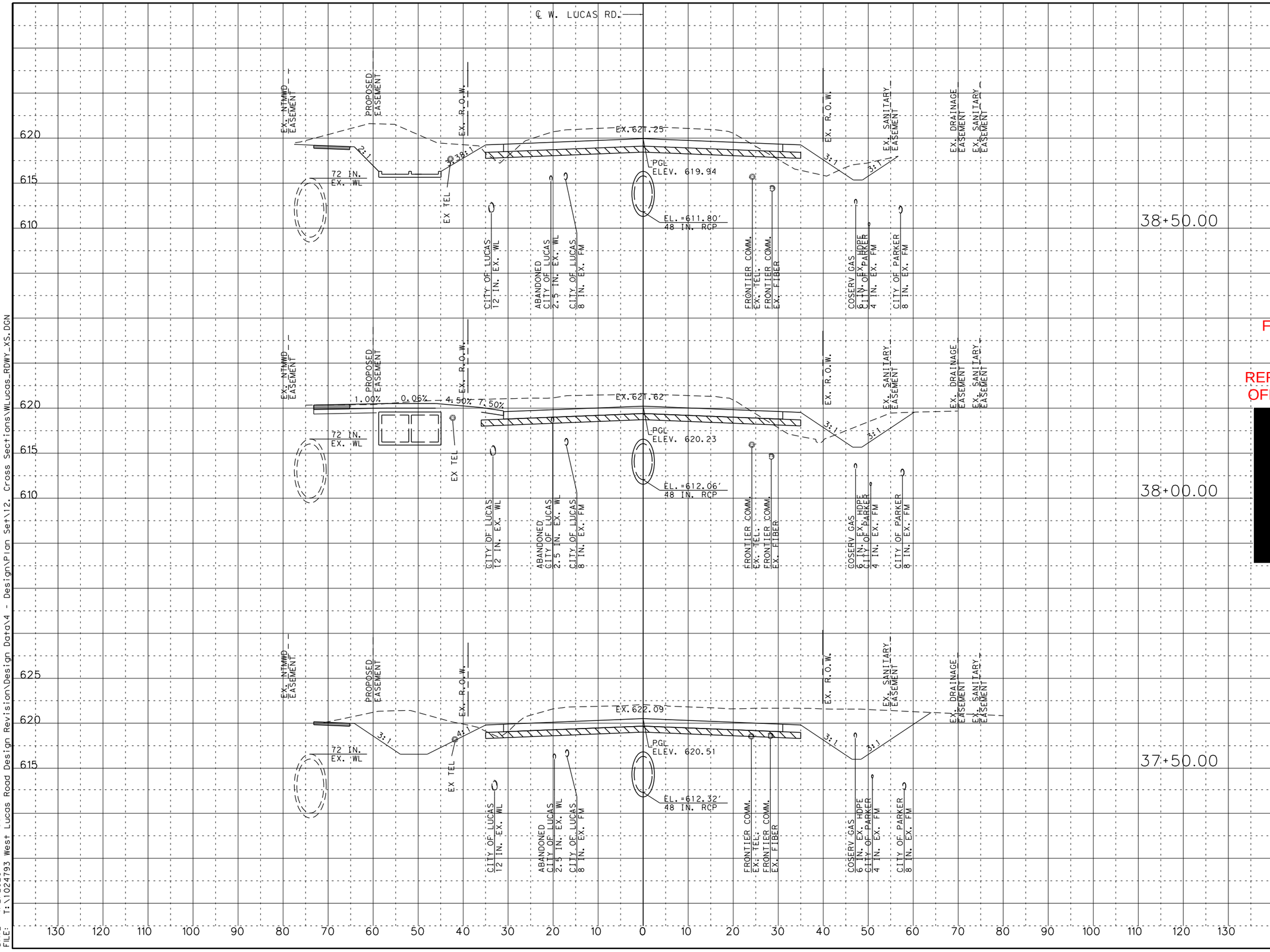
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	126
COUNTY	COLLIN	

CALL BEFORE YOU DIG
IT'S THE LAW (TEXAS HEALTH & SAFETY CODE, CHAPTER 756)
48 HOURS NOTICE BEFORE YOU DIG, EXCLUDING WEEKENDS AND HOLIDAYS.
TEXAS 811 Know what's below. Call before you dig.
WEB: ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:47:11 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 18 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

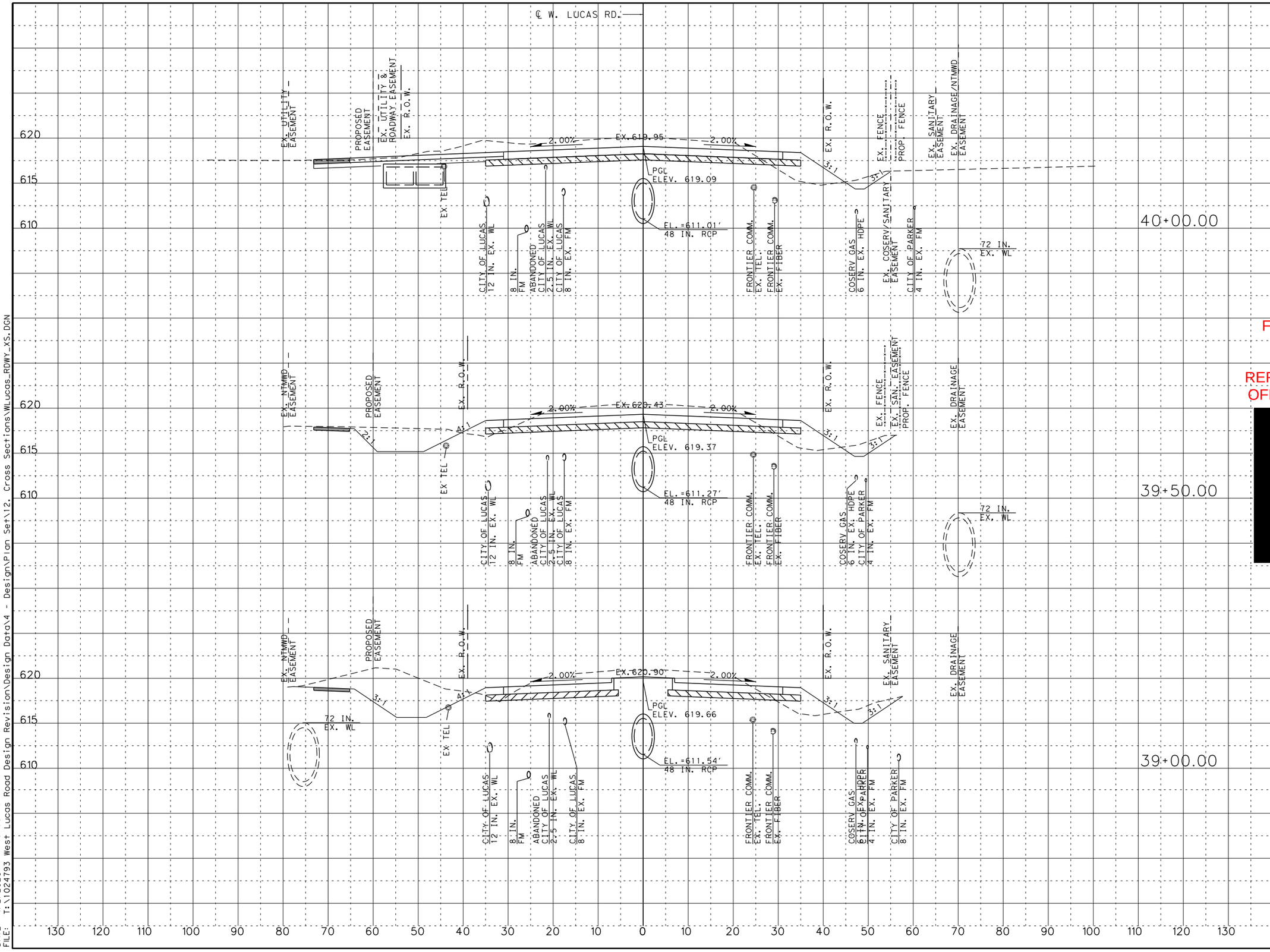
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	127
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811 Know what's below. Call before you dig.

DATE: 4/2/2026 1:47:38 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 19 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

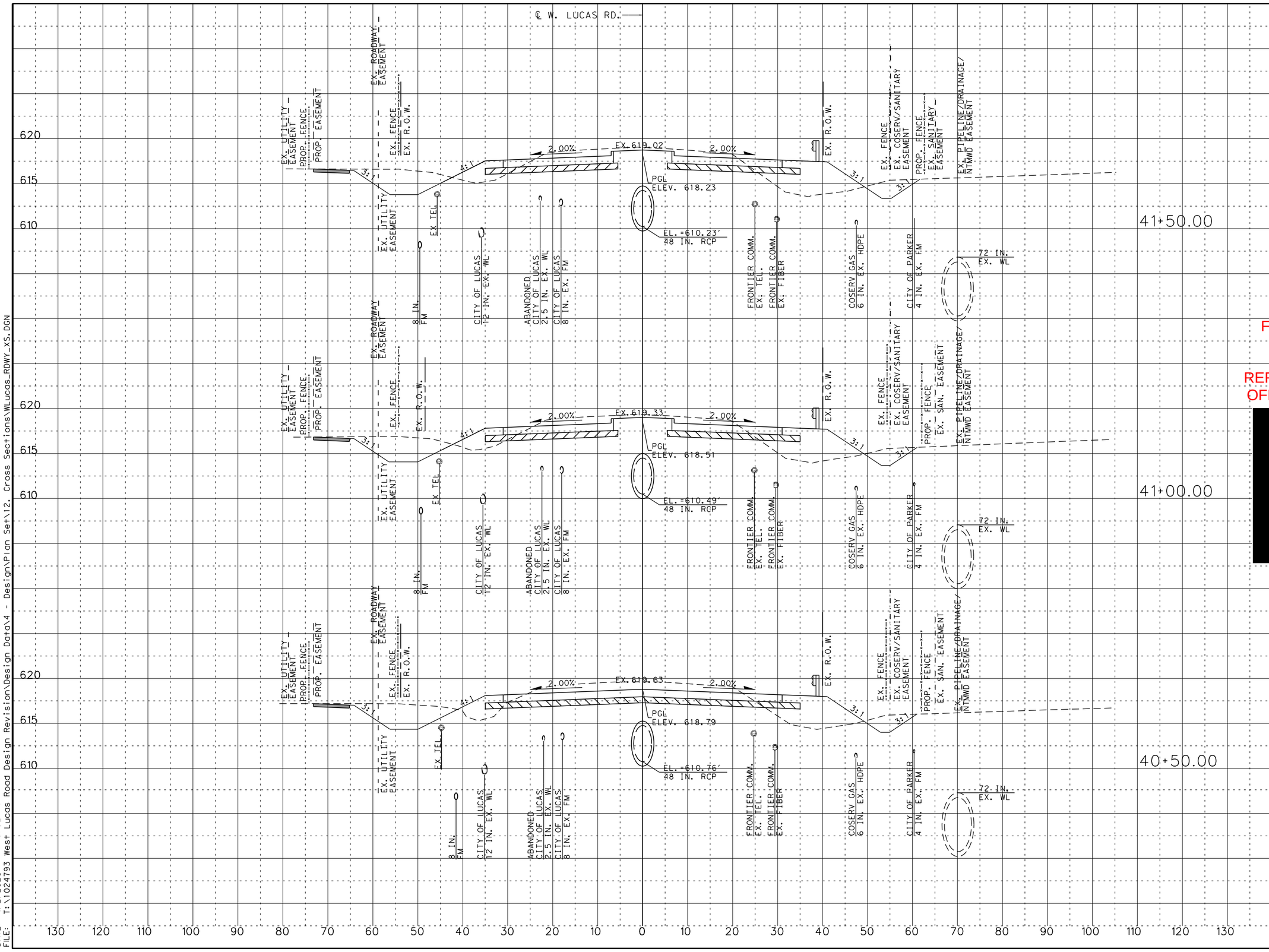
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		128
COLLIN		

CALL BEFORE YOU DIG
TEXAS811.org
Know what's below. Call before you dig.

DATE: 4/2/2026 1:48:05 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 20 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

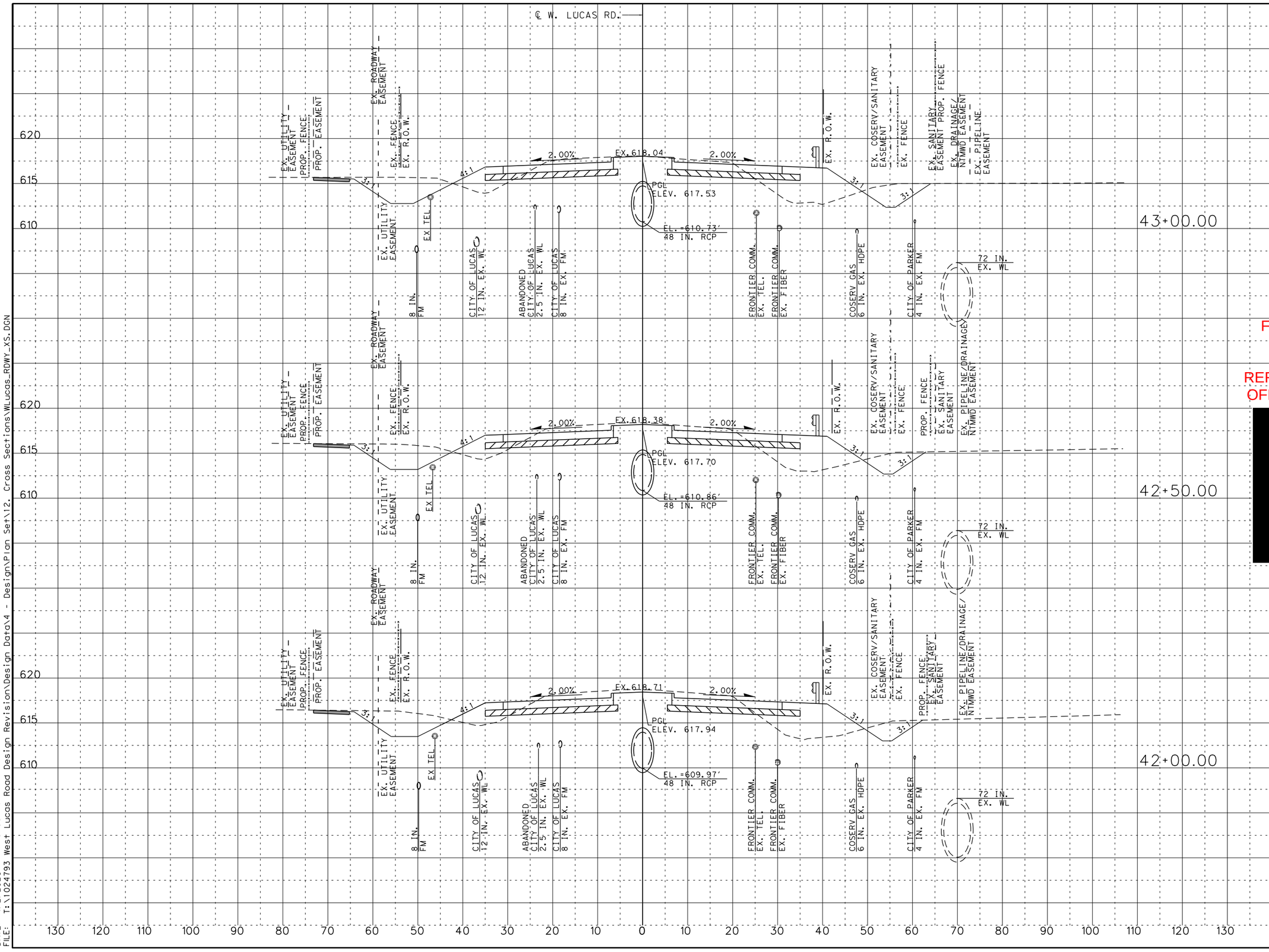
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	129
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW!
TEXAS ONE CALL SYSTEM
1-800-245-4545
Texas811

DATE: 4/2/2026 1:48:32 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 21 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

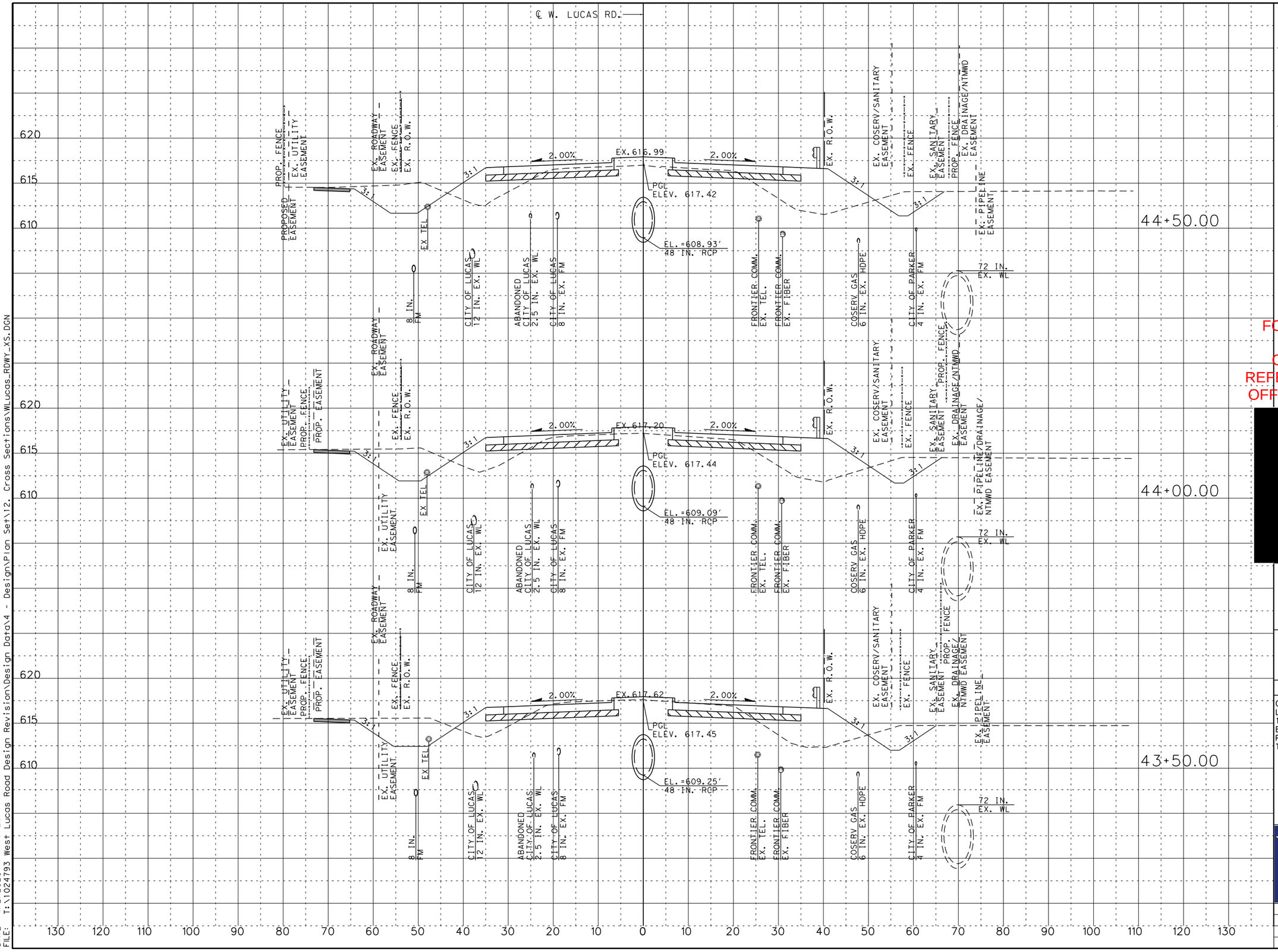
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	130
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:48:58 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 22 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

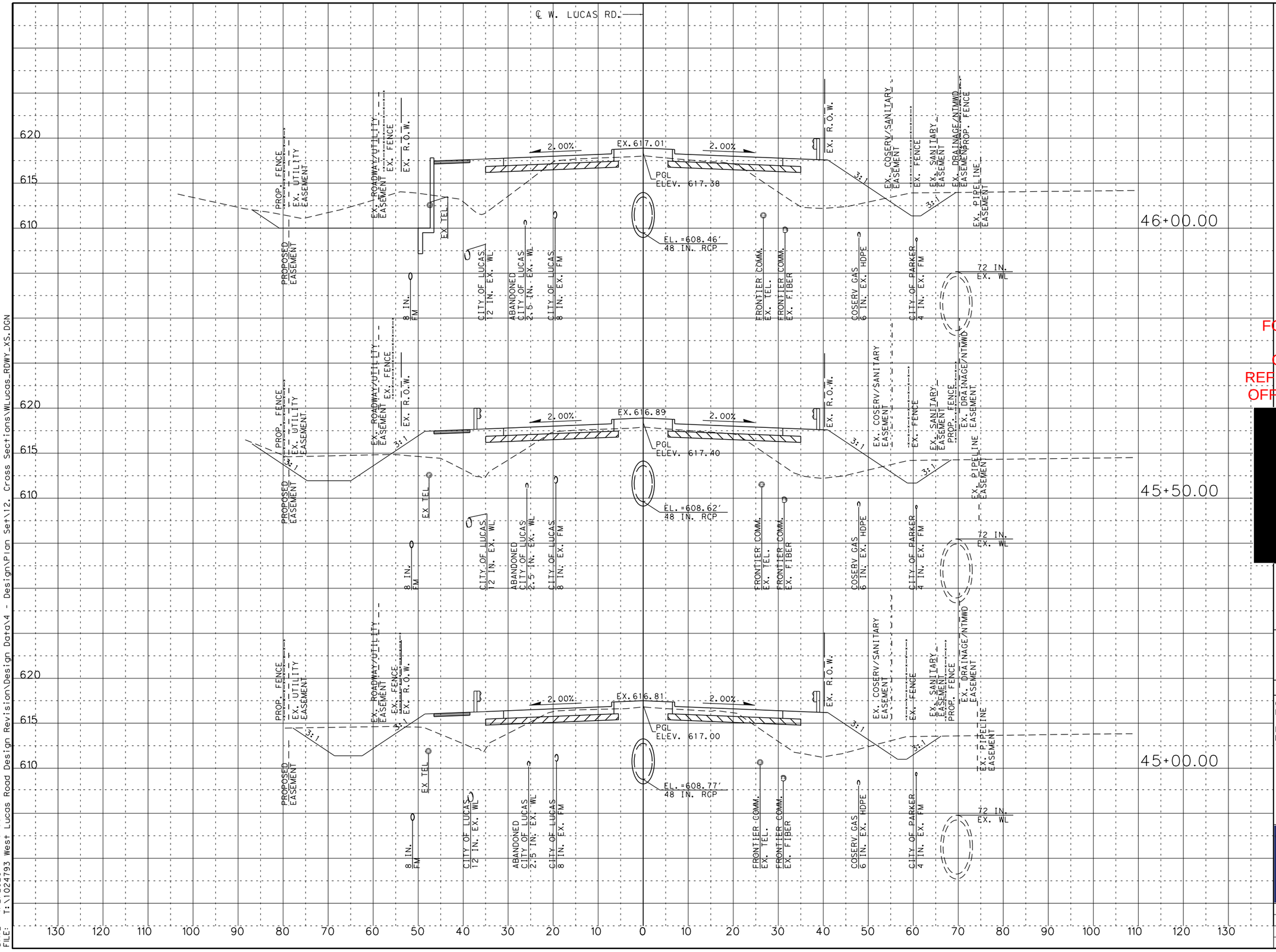
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		131
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-DIG-TEX

DATE: 4/2/2026 1:49:26 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 23 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

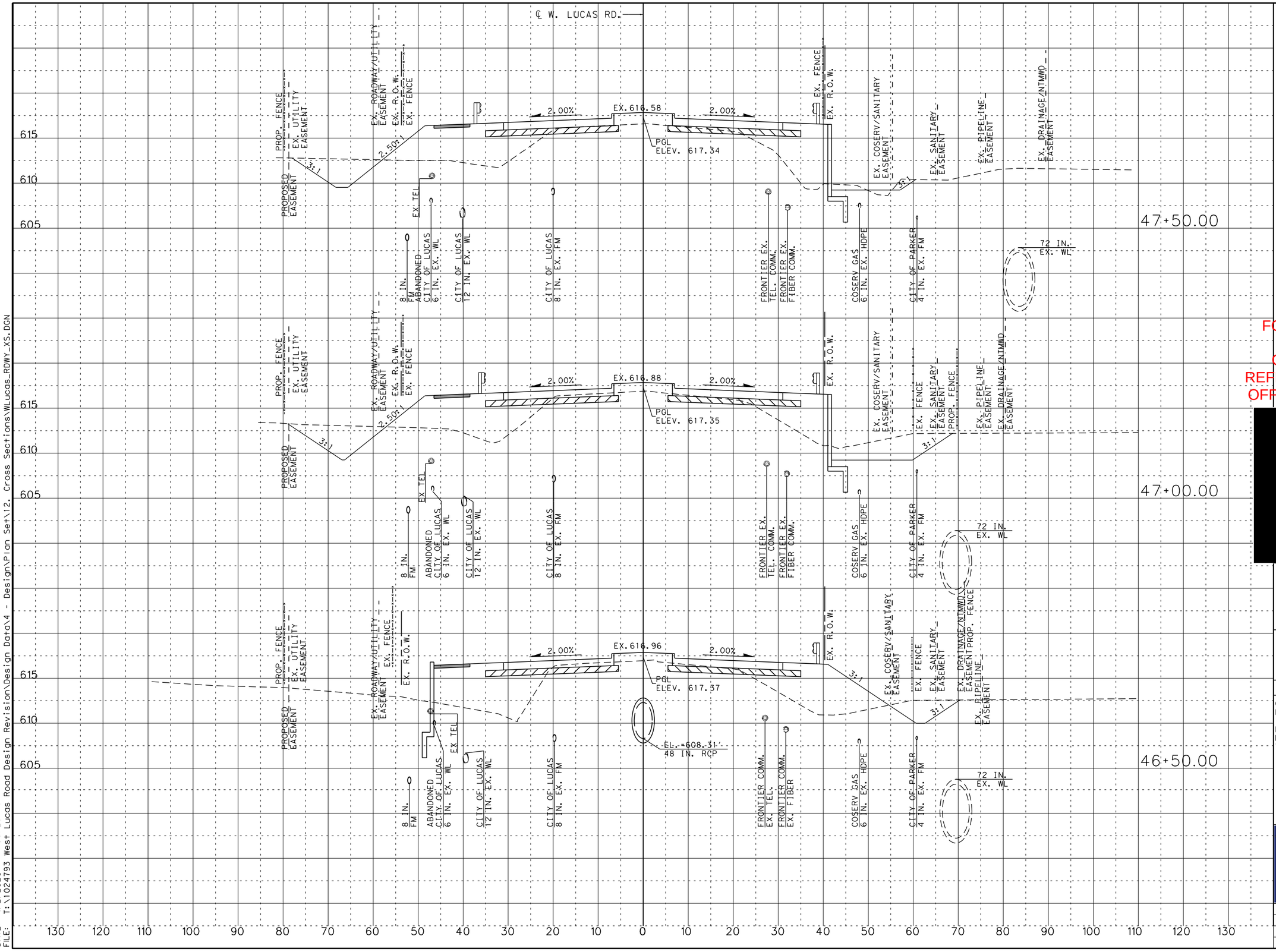
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	132
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (TEXAS HEALTH & SAFETY CODE, CHAPTER 756)
811 OR 1-800-DIG-TESS
TEXAS 811 texas811.org Know what's below. Call before you dig.

DATE: 4/2/2026 1:49:53 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 24 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

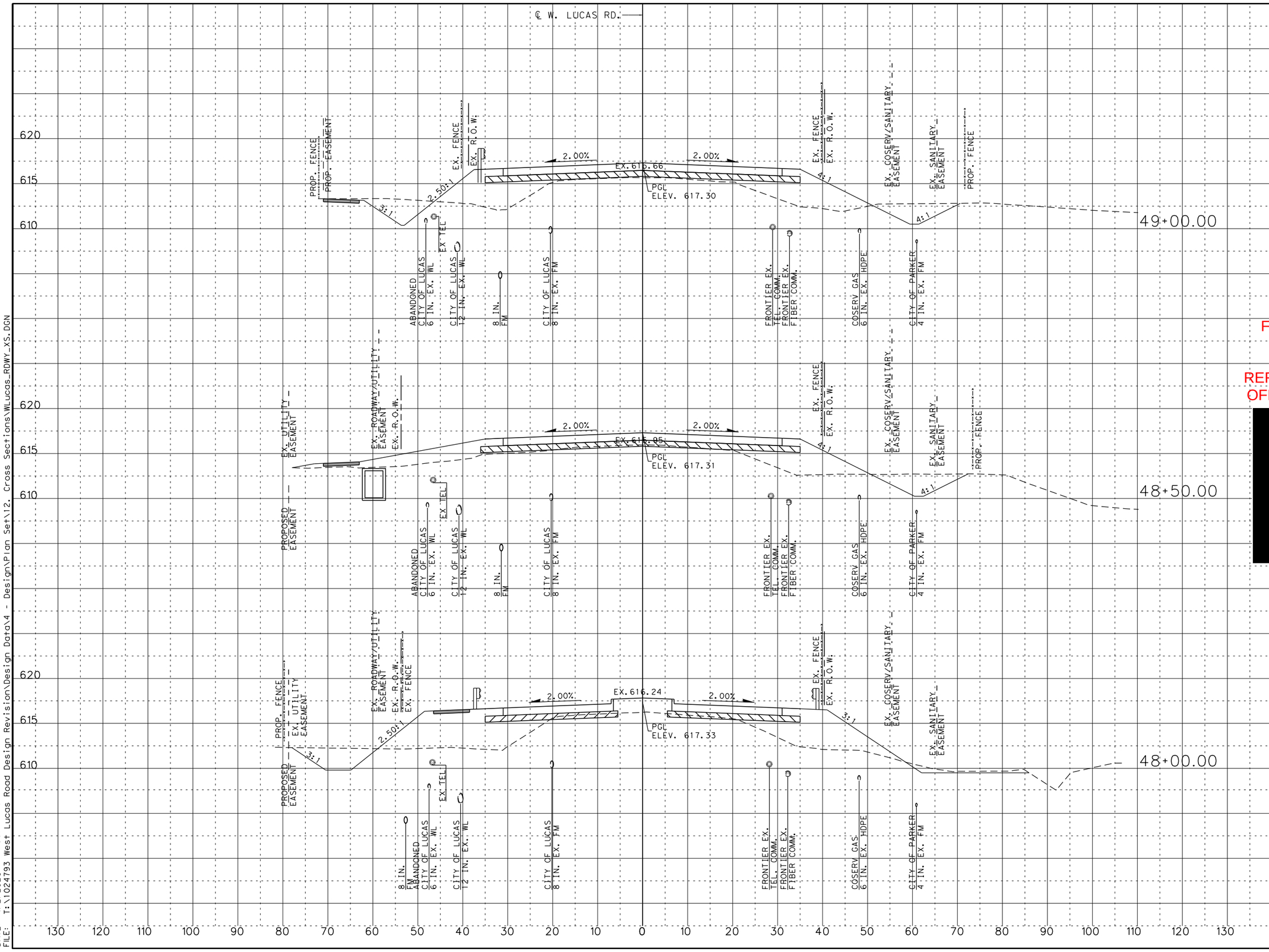
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		133
COLLIN		

CALL BEFORE YOU DIG
TEXAS811.ORG
Know what's Below. Call before you dig.

DATE: 4/2/2026 1:50:20 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 25 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

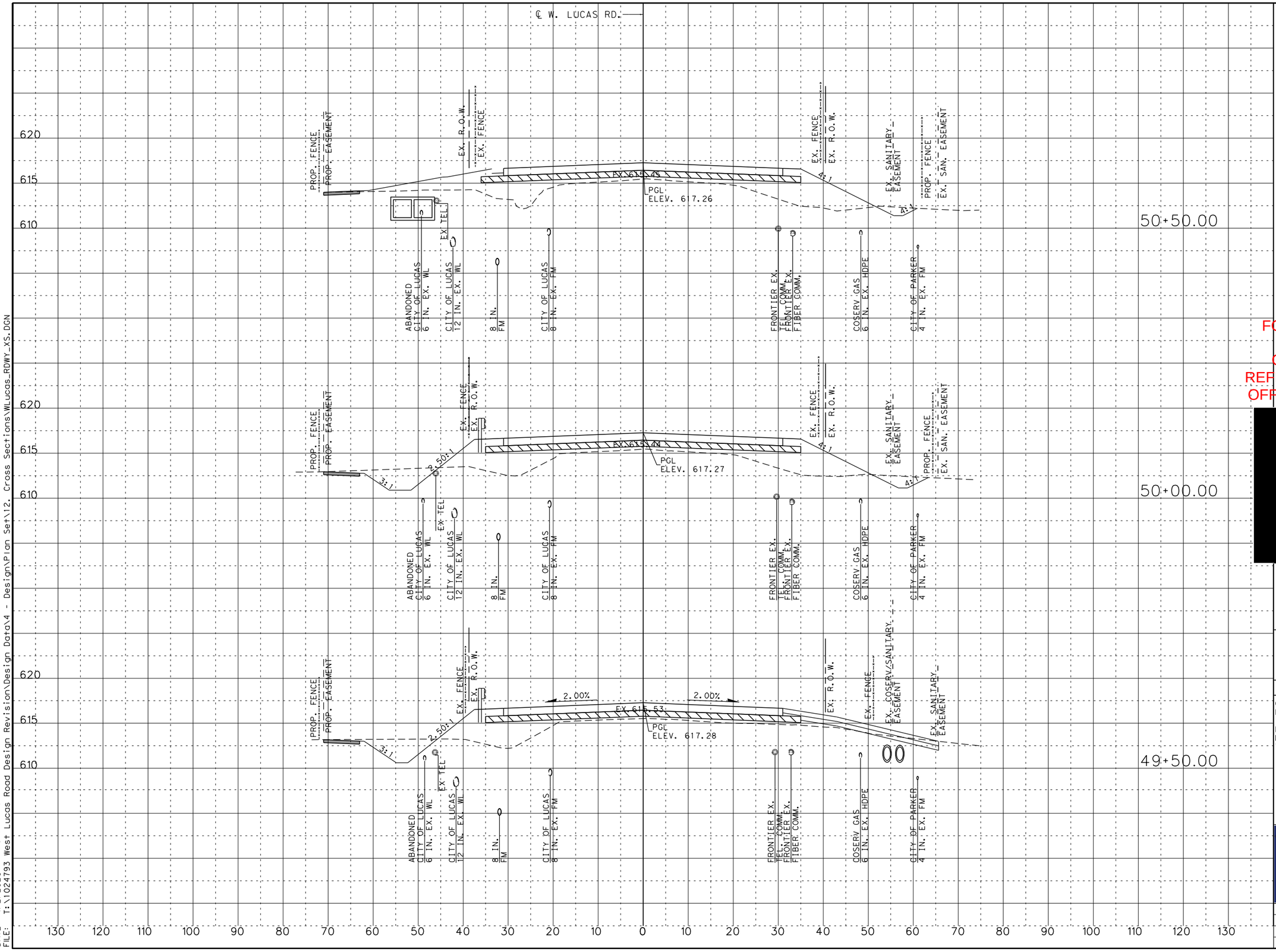
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		134
COLLIN		

CALL BEFORE YOU DIG
TEXAS811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:50:47 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

—·—·— EXISTING R.O.W.
- - - - UTILITY EASEMENT
—x— EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 26 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

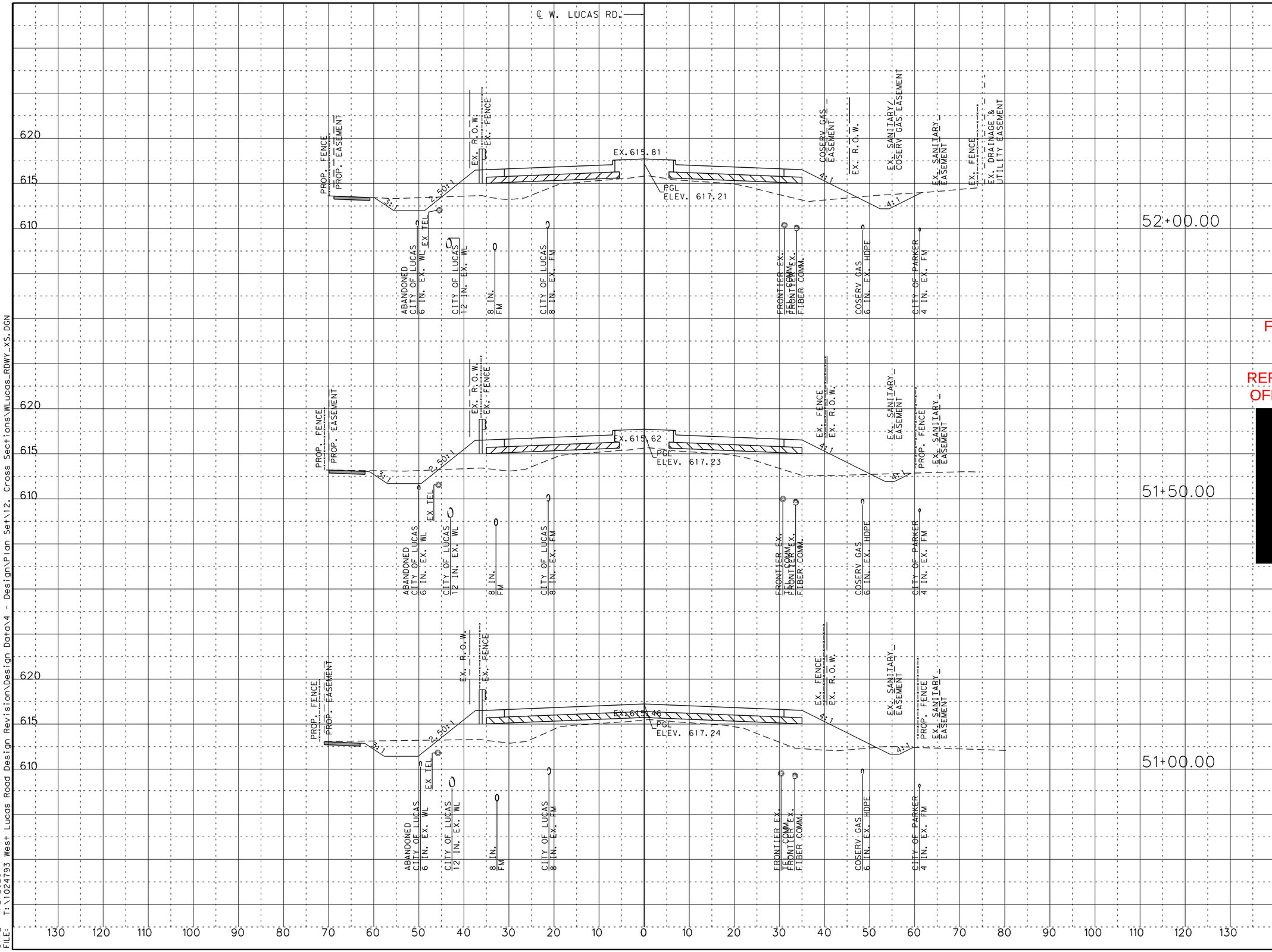
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	135
COUNTY	COLLIN	

CALL BEFORE YOU DIG
IT'S THE LAW (TEXAS HEALTH & SAFETY CODE, CHAPTER 756)
48 HOURS NOTICE BEFORE YOU DIG, EXCLUDING WEEKENDS AND HOLIDAYS.
TEXAS ONE CALL SYSTEM
1-800-245-4545
Texas811 Know what's below. Call before you dig.

DATE: 4/2/2026 1:51:14 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 27 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

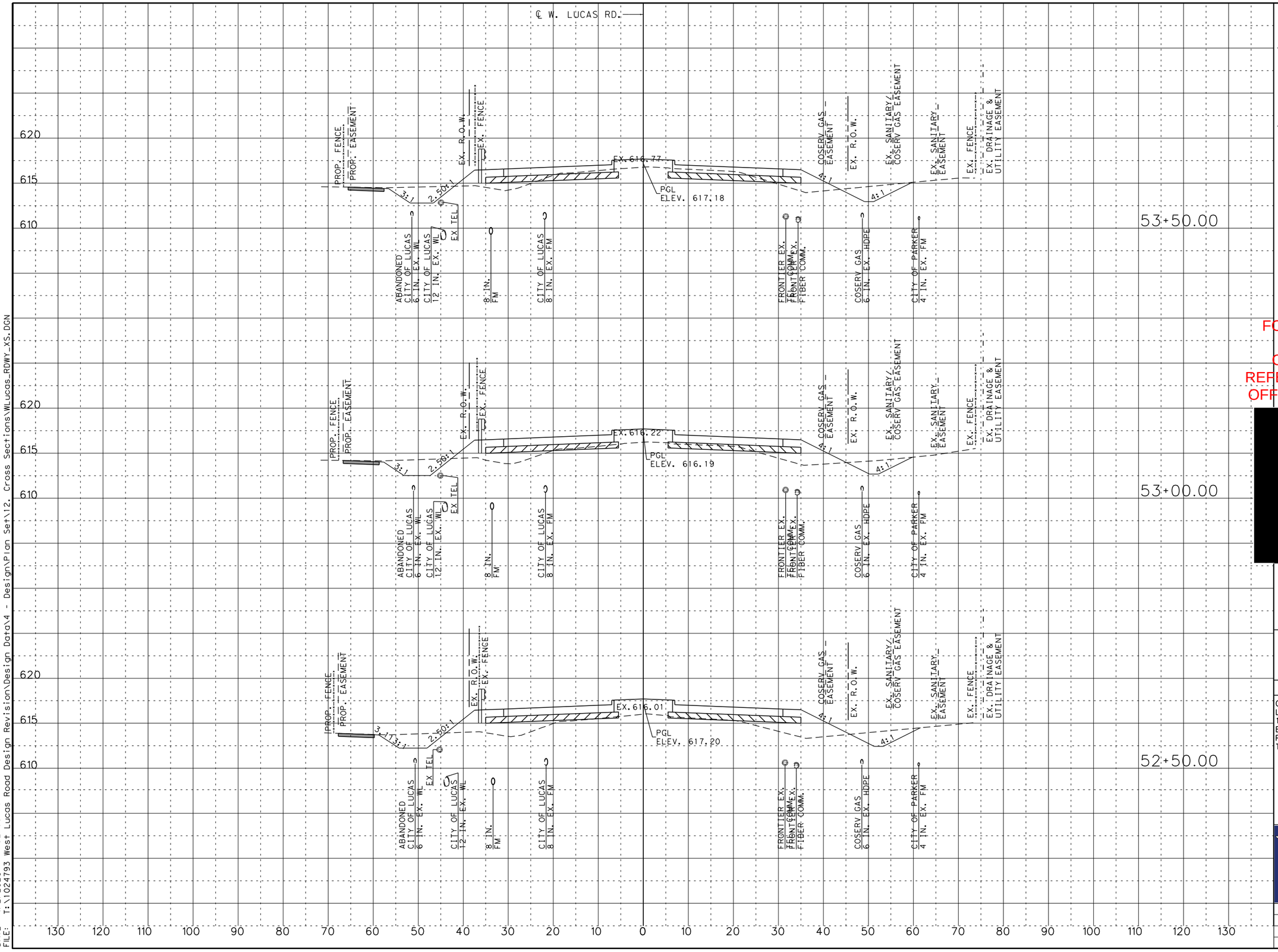
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	136
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS811.org
TEXAS ONE-CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:51:41 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 28 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

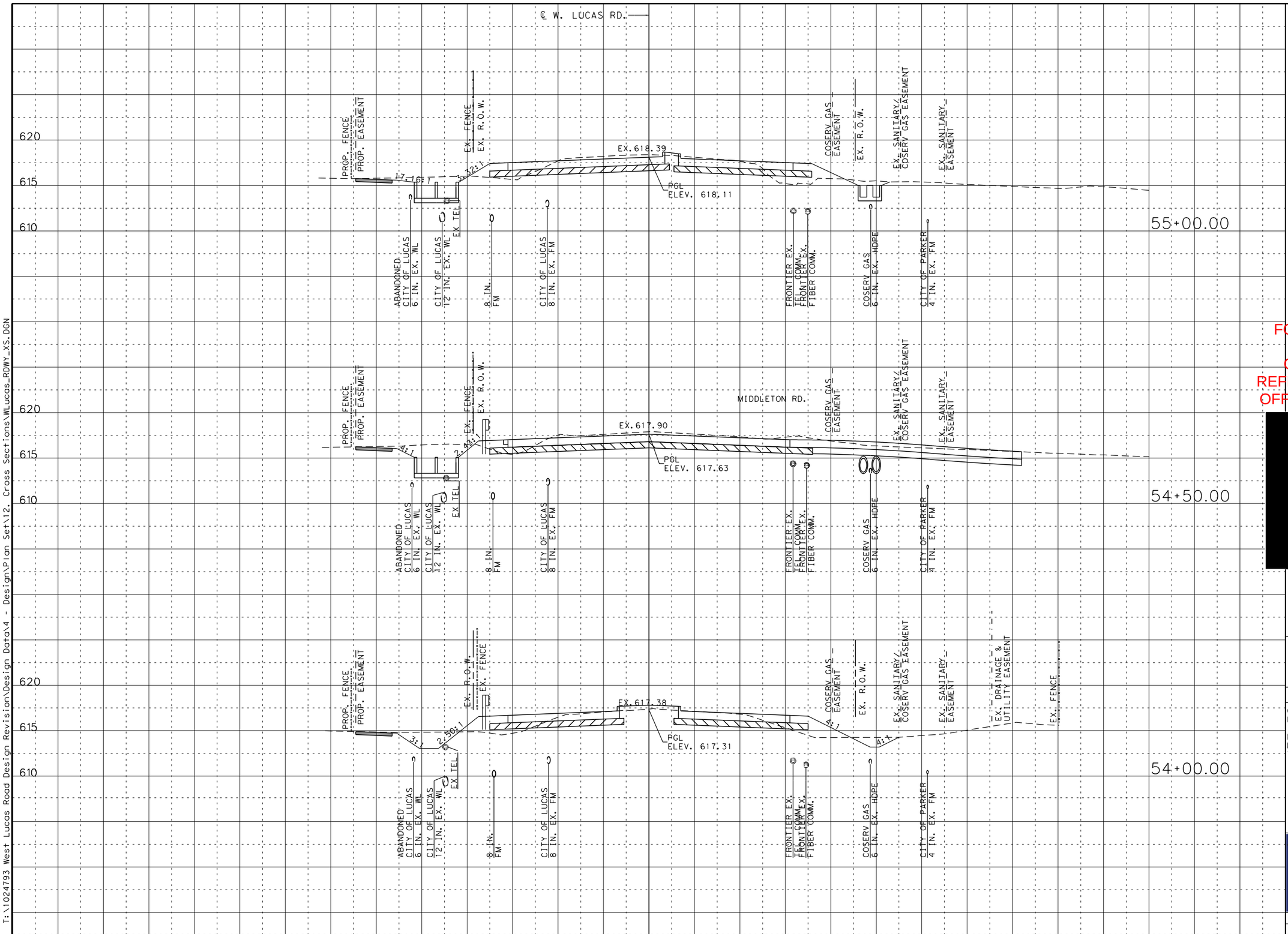
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		137
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW (TEXAS LAW, CHAPTER 251, HEALTH & SAFETY CODE)
811 OR 1-800-DIG-TESS
WWW.DIGTESS.COM
1-800-245-4545
Know what's below.
Call before you dig.

DATE: 4/2/2026 1:52:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

- EXISTING R.O.W.
- UTILITY EASEMENT
- EXIST. FENCE
- CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 29 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

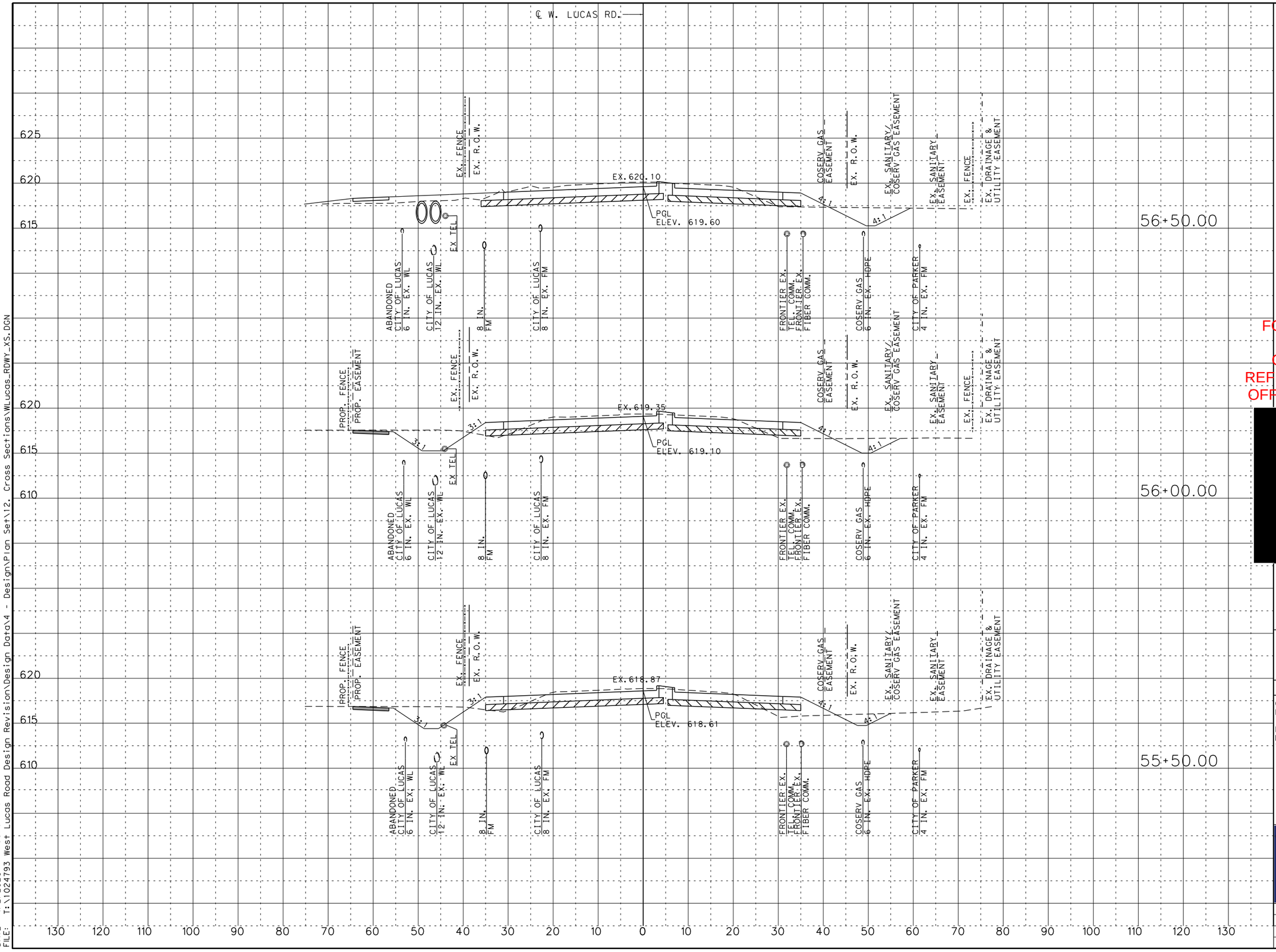
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	138
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:52:34 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 30 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

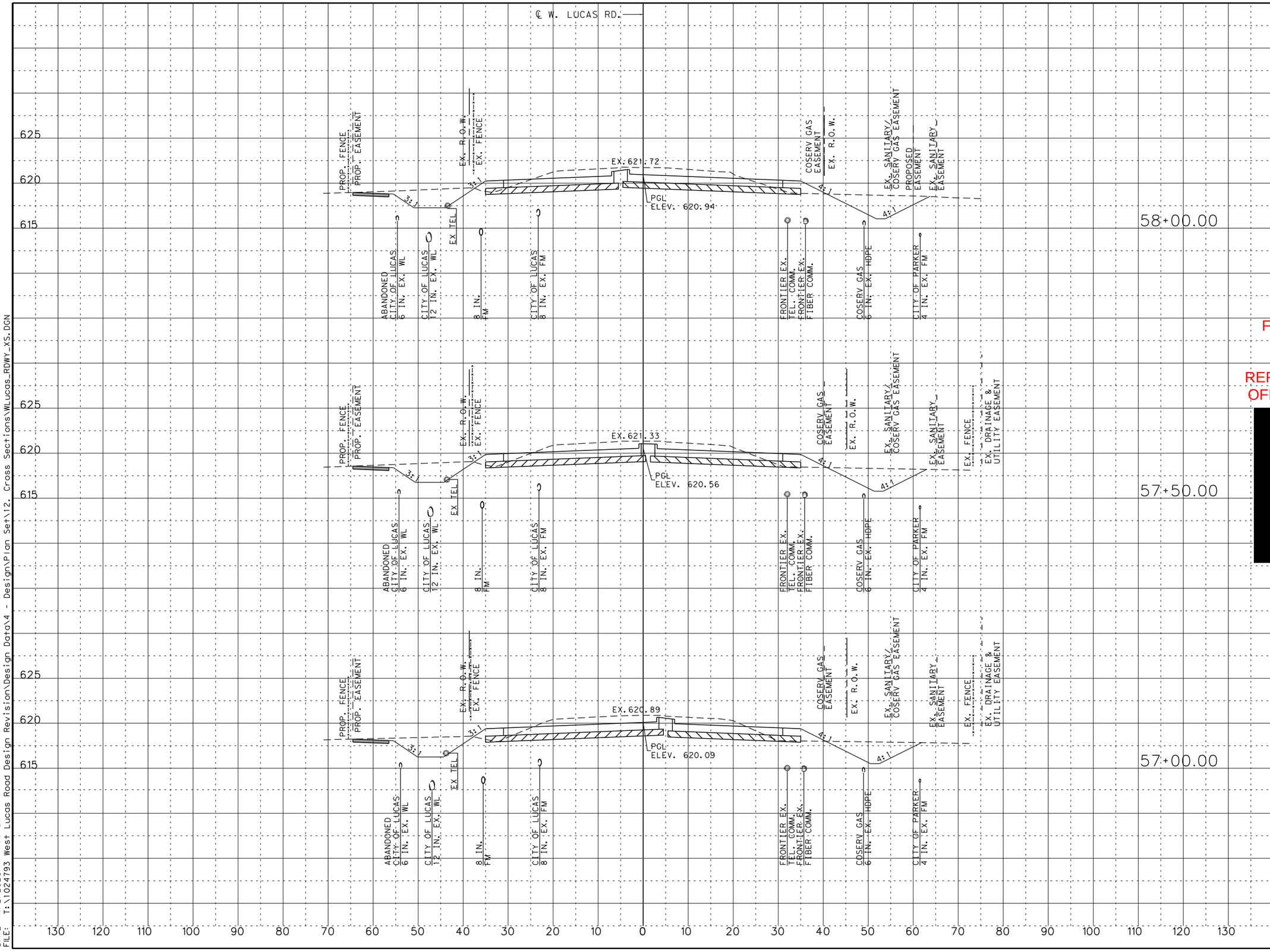
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		139
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below.
Call before you dig.

DATE: 4/2/2026 1:53:01 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 31 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

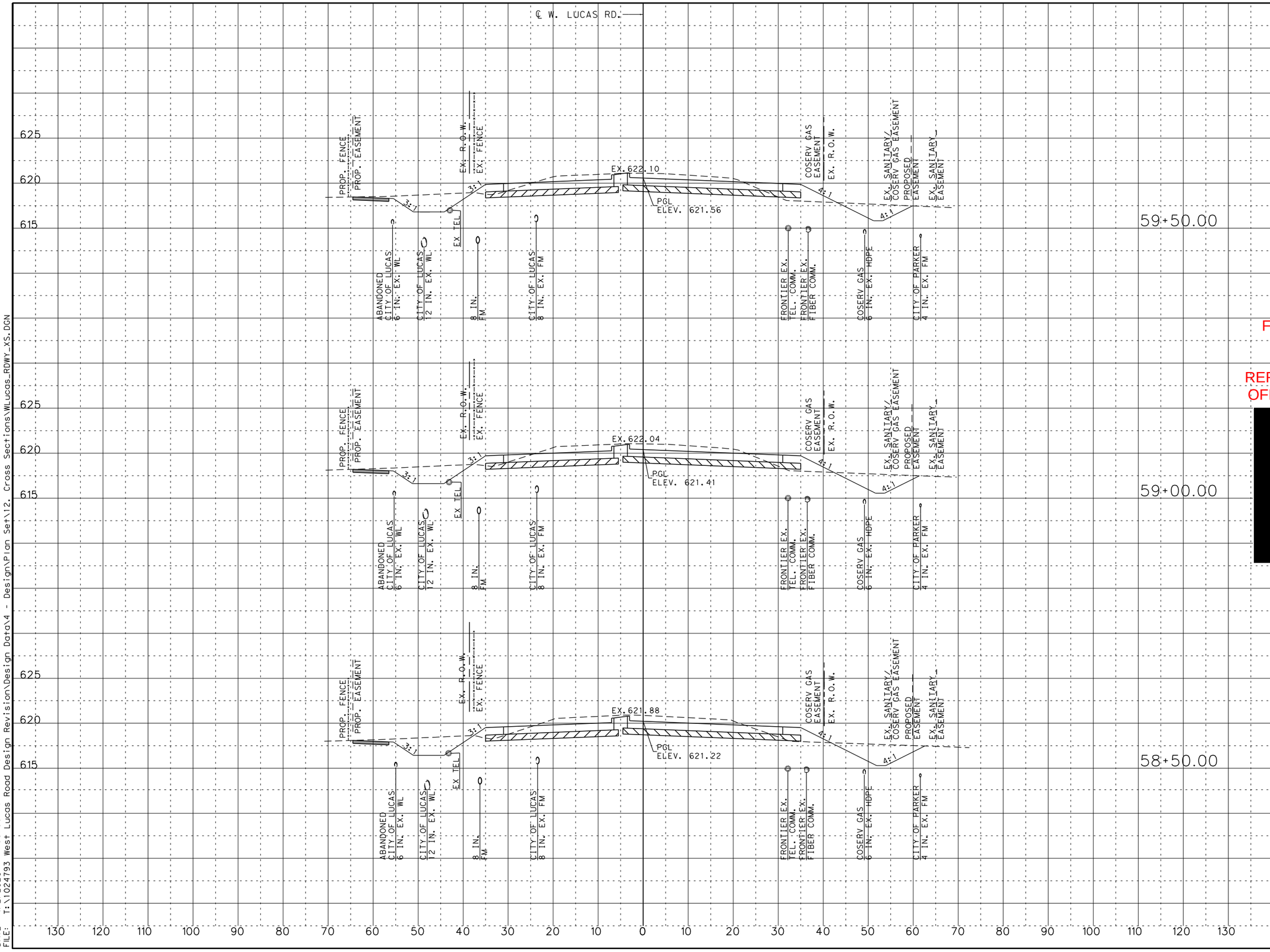
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	140
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW!!! (APPLIES TO BOTH CONTRACTOR AND OWNER)
48 HOURS (NOT INCLUDING WEEKENDS AND HOLIDAYS) BEFORE YOU BEGIN EXCAVATION.
TEXAS ONE-CALL SYSTEM
1-800-245-4545
Know what's below. Call before you dig.

DATE: 4/2/2026 1:53:28 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 32 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

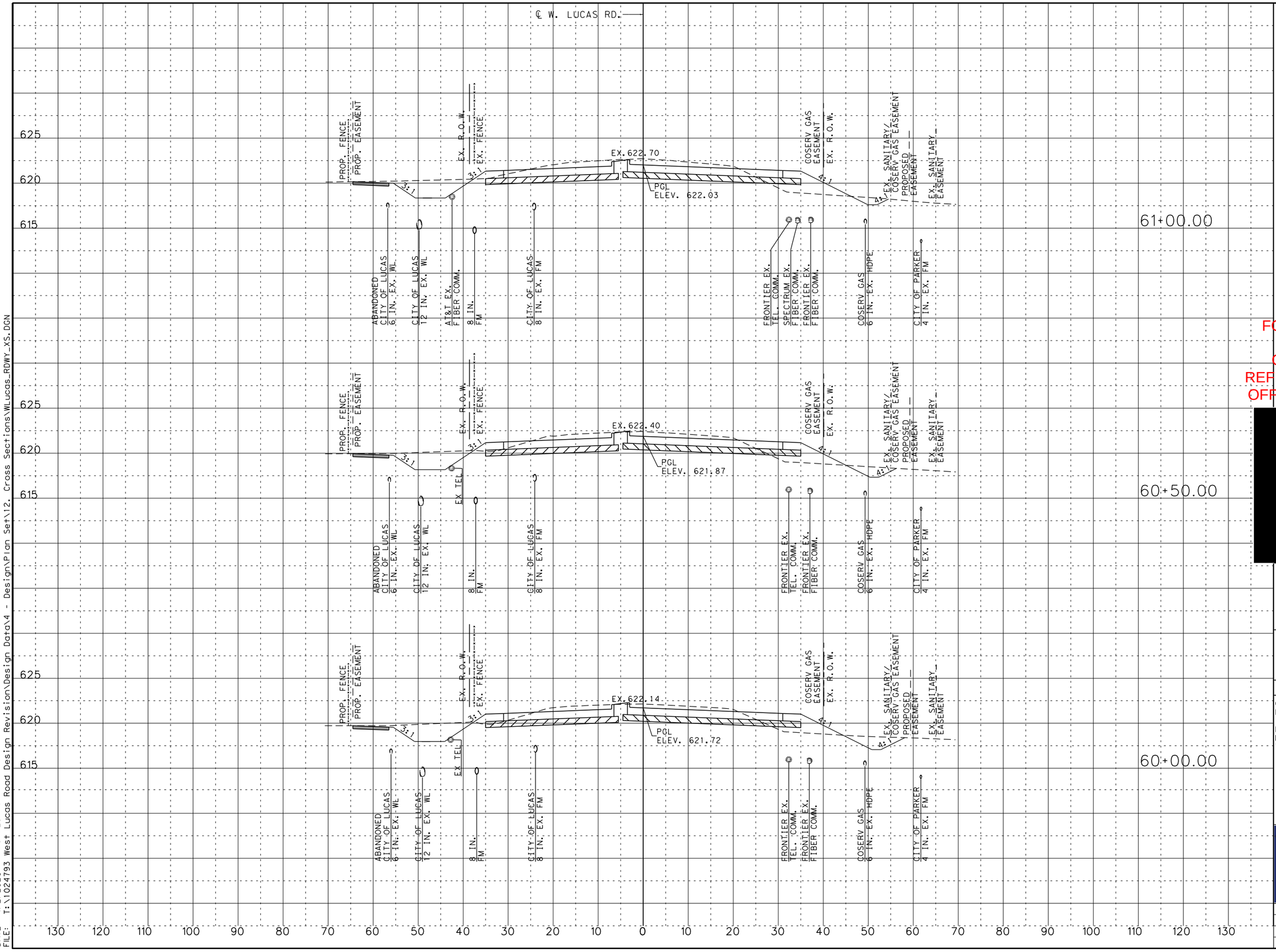
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	141
COUNTY	COLLIN	

CALL BEFORE YOU DIG
TEXAS811
Know what's below. Call before you dig.

DATE: 4/2/2026 1:53:55 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 33 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

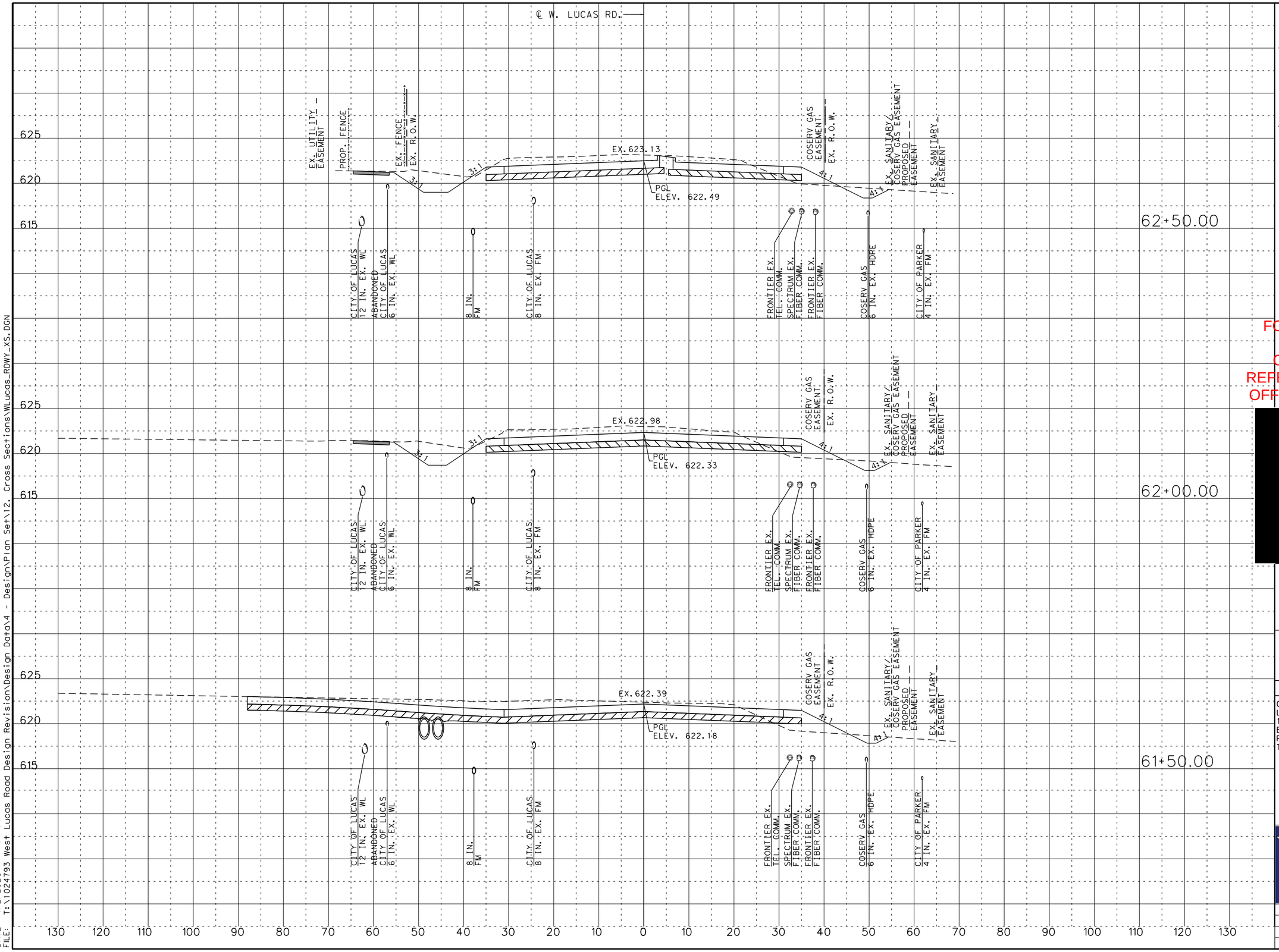
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	142
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-545-6005

DATE: 4/2/2026 1:54:23 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 34 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

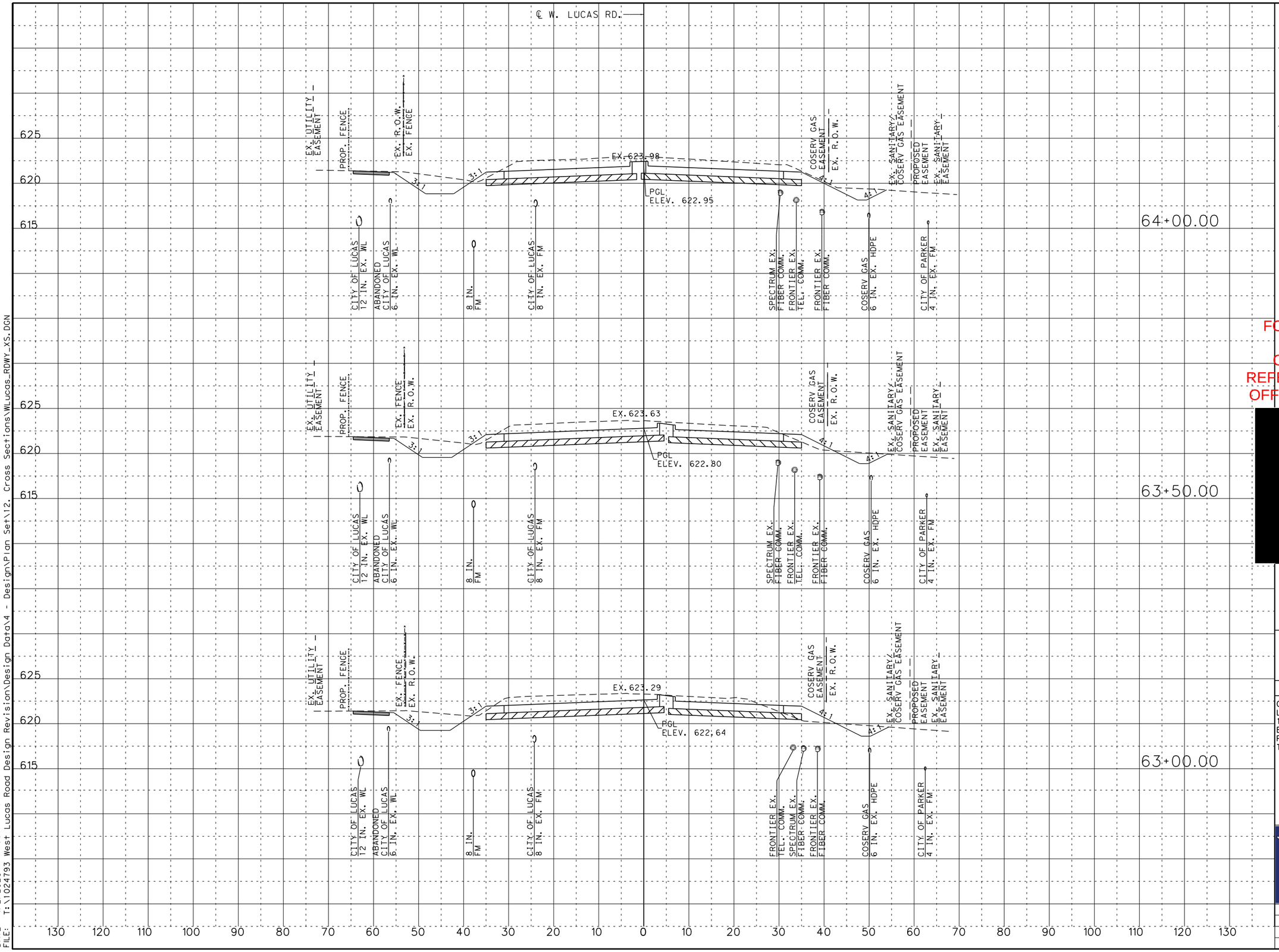
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	143
COUNTY	COLLIN	

CALL BEFORE YOU DIG
IT'S THE LAW (TEXAS HEALTH & SAFETY CODE, CHAPTER 756)
811 or 1-800-DIG-TESS
WWW.DIGTESS.COM
Texas811 Know what's below. Call before you dig.

DATE: 4/2/2026 1:54:50 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 35 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

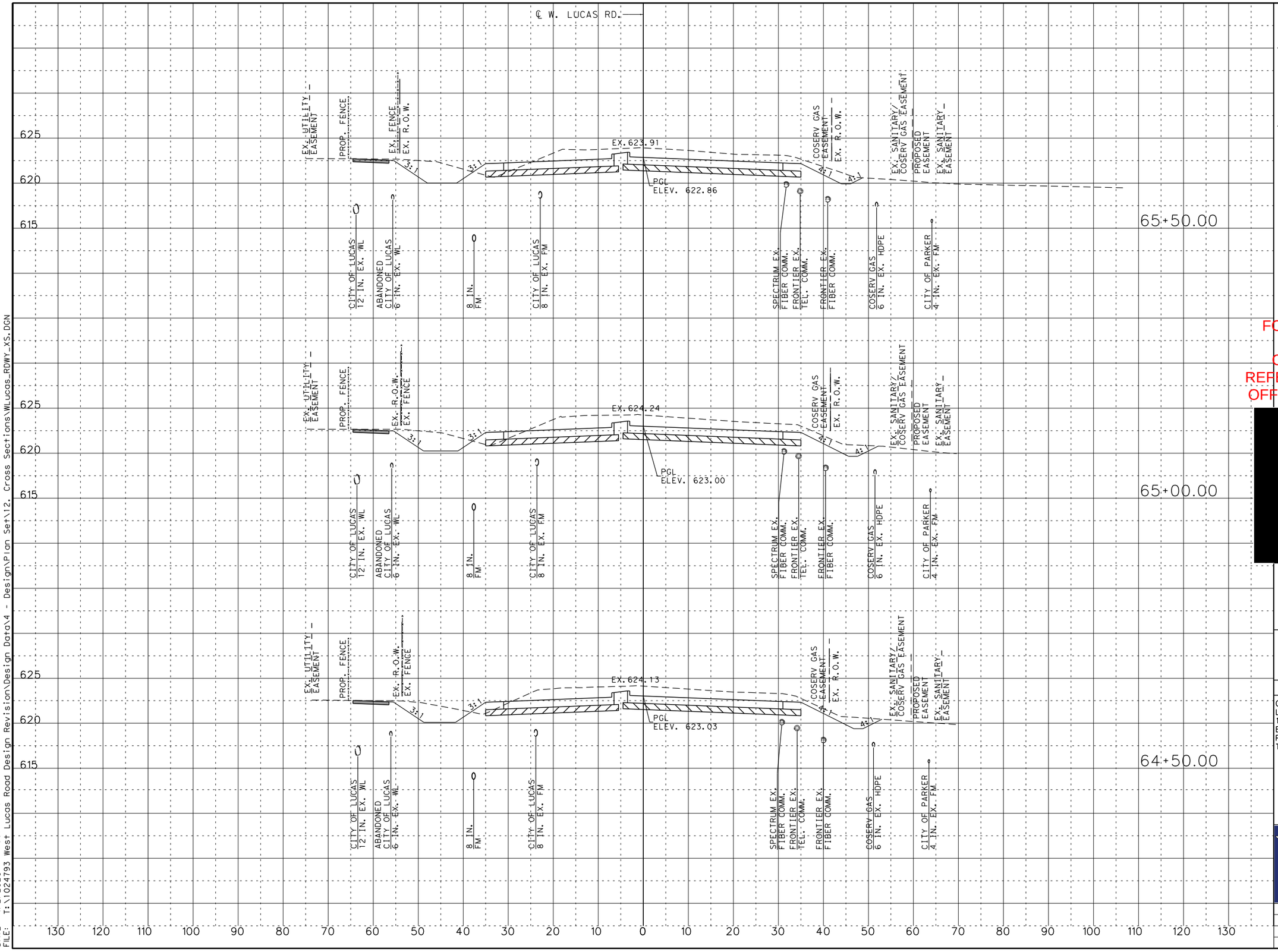
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	144
COUNTY	COLLIN	

CALL BEFORE YOU DIG
IT'S THE LAW (APPLIES TO BOTH PRIVATE AND PUBLIC PROPERTY)
811 OR 1-800-DIG-TESS
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:55:17 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 36 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

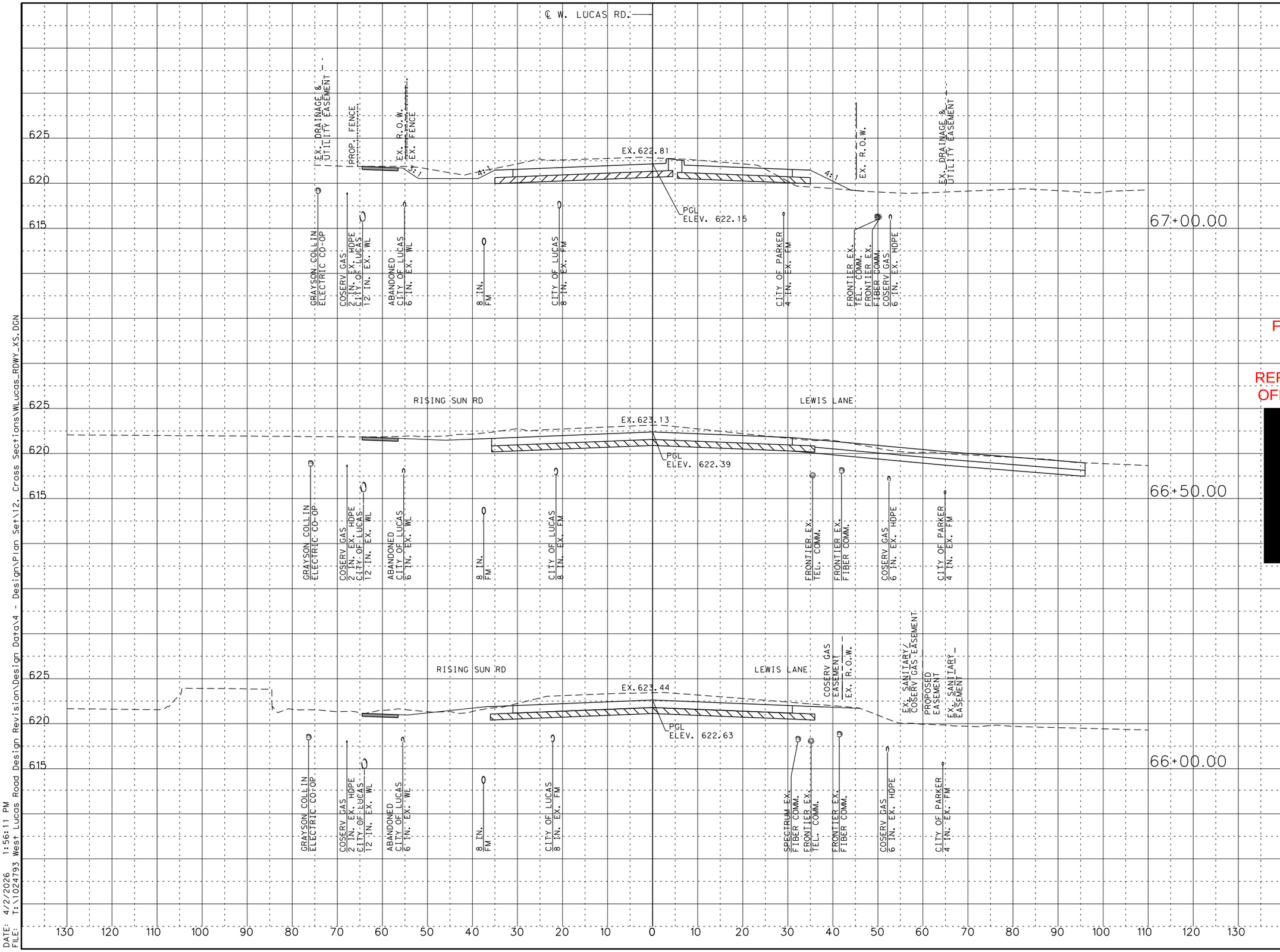
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	145
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (TEXAS811.ORG)
811 Know what's below. Call before you dig.

DATE: 4/2/2026 1:55:44 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\W_Lucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 37 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

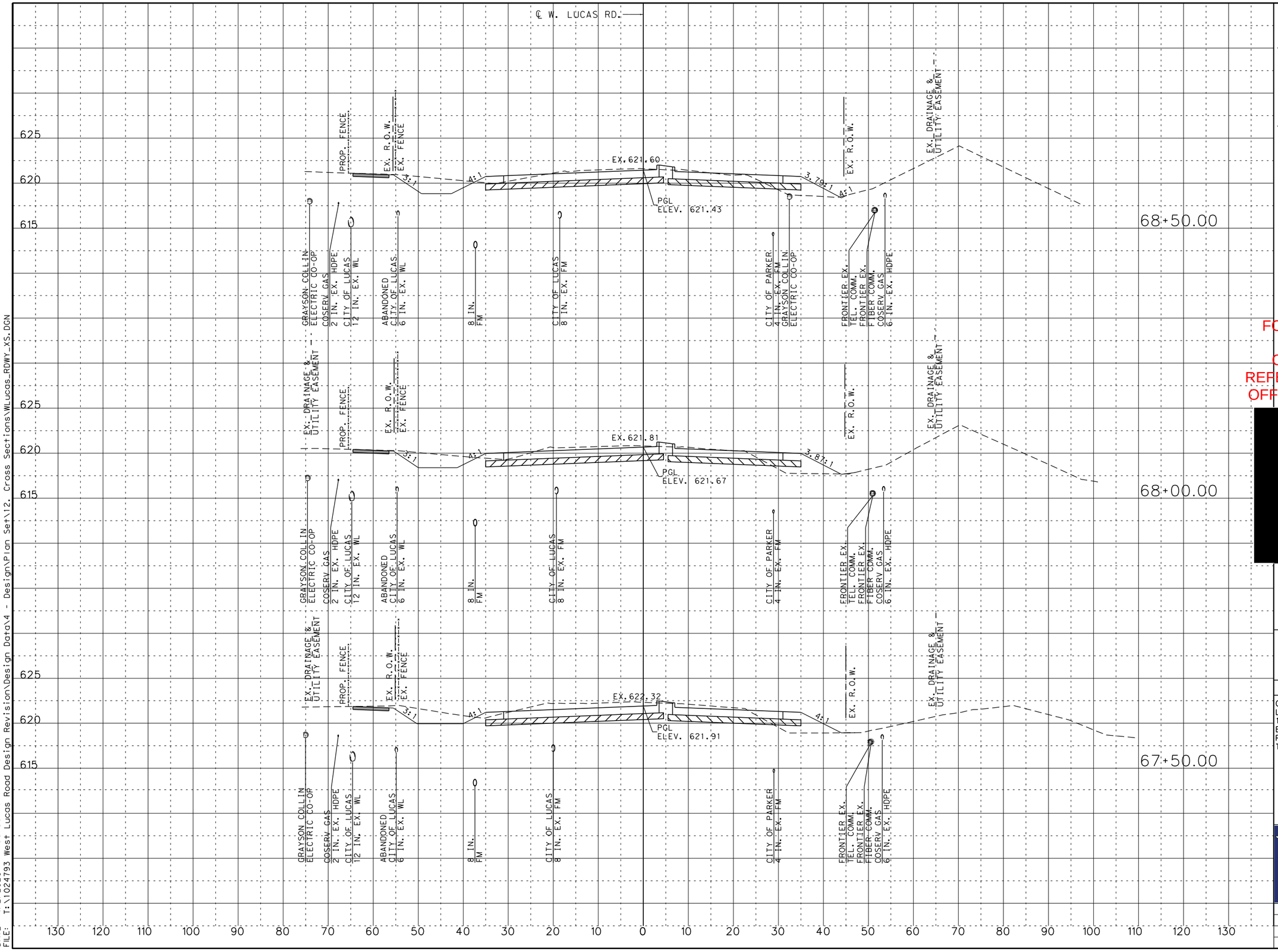
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	146
COUNTY	COLLIN	

CALL BEFORE YOU DIG
IT'S THE LAW (APPLIES TO BOTH PRIVATE AND PUBLIC PROPERTY)
AT LEAST TWO FULL BUSINESS DAYS BUT NOT MORE THAN FOURTEEN CALENDAR DAYS BEFORE YOU DIG, DRILL, BLAST OR EXCAVATE.
TEXAS ONE CALL SYSTEM
1-800-245-4545
Texas811 Know what's below. Call before you dig.

DATE: 4/2/2026 1:56:11 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 38 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

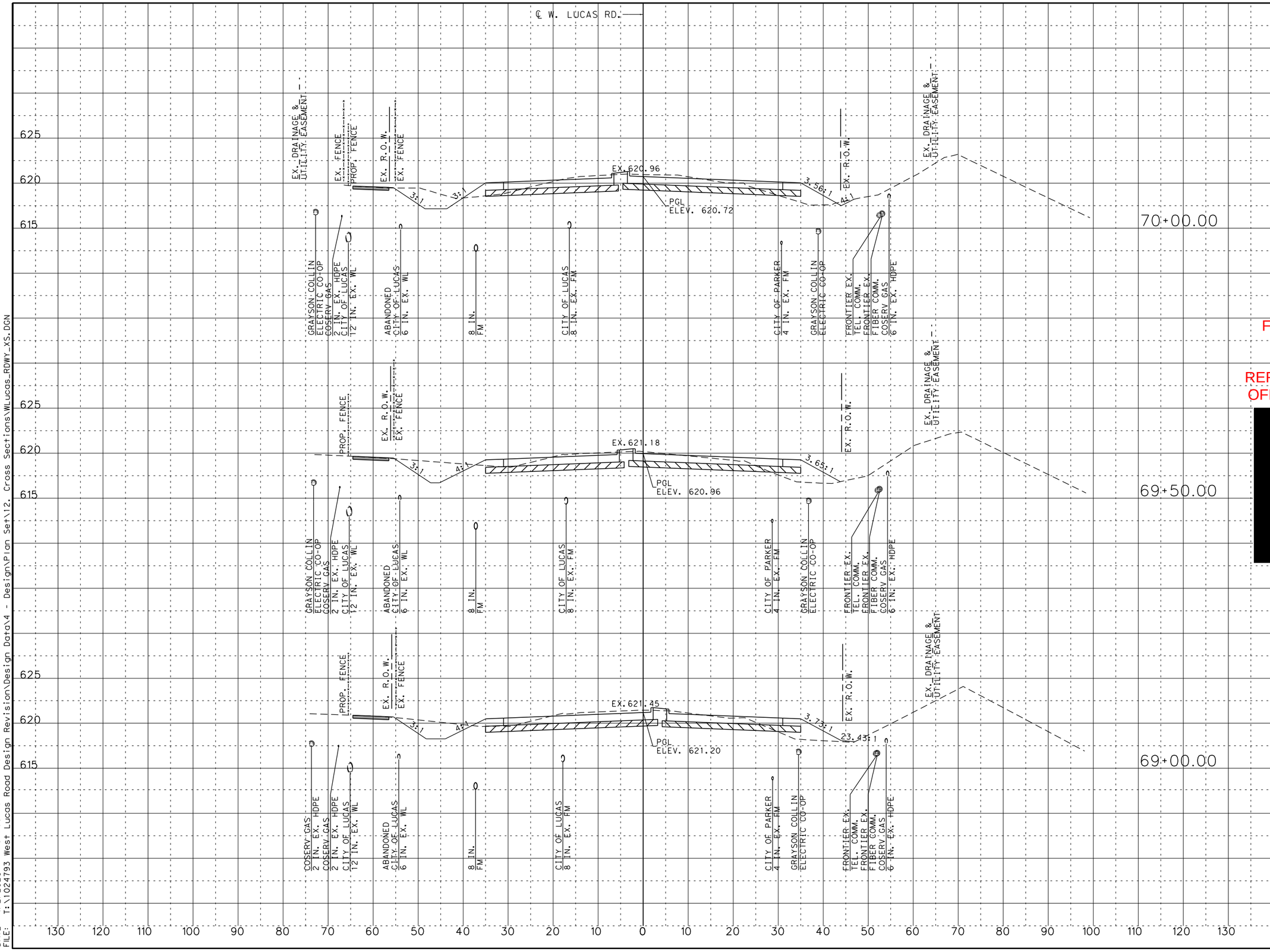
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	147
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:56:38 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 39 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

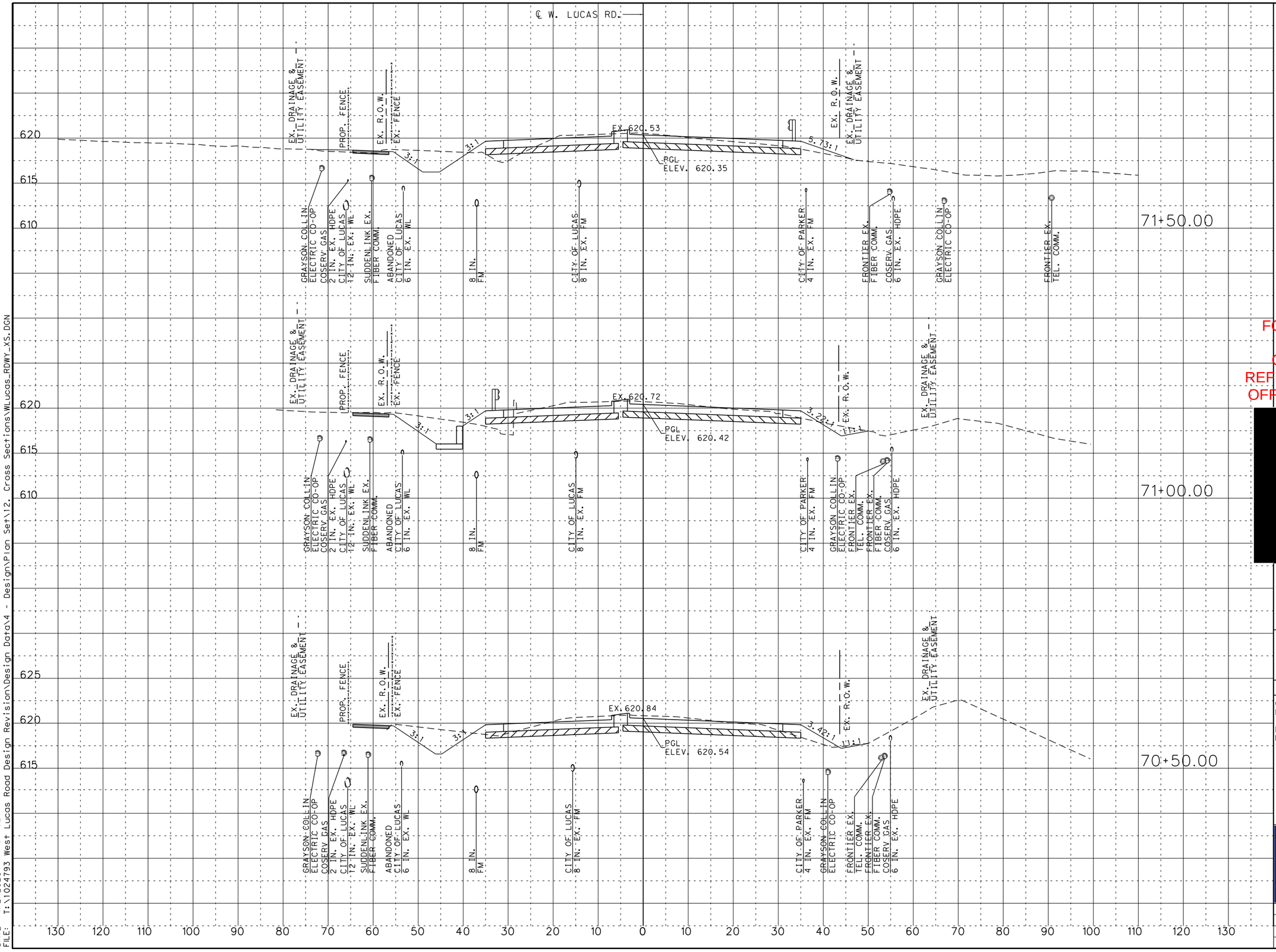
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		148
COLLIN		

CALL BEFORE YOU DIG
TEXAS811.org
811 OR 1-800-DIG-TESS
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:57:05 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 40 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

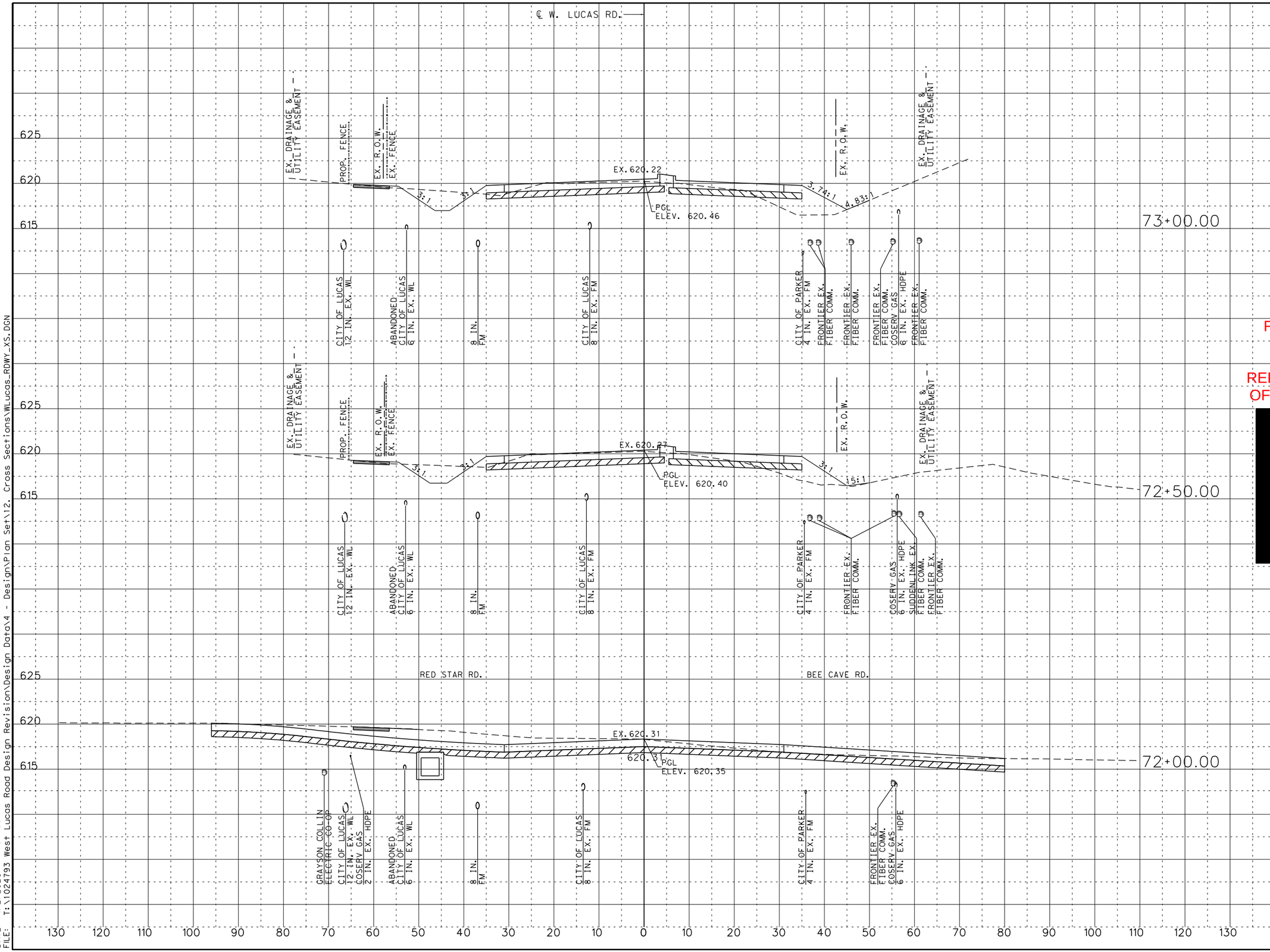
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		149
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's Below. Call before you dig.

DATE: 4/2/2026 1:57:32 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\W_Lucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

- EXISTING R.O.W.
- UTILITY EASEMENT
- EXIST. FENCE
- CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 41 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

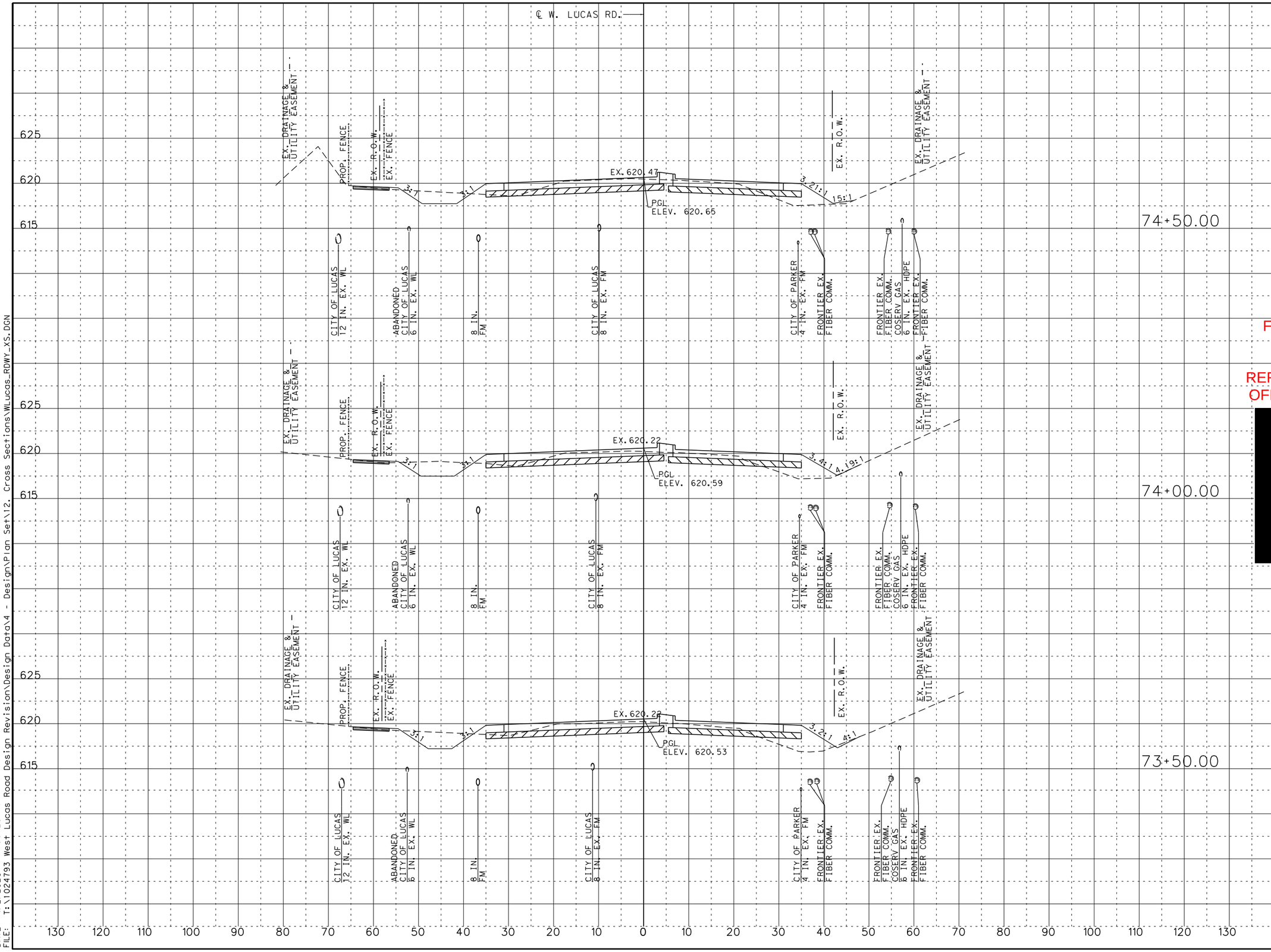
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		150
COLLIN		

CALL BEFORE YOU DIG
TEXAS811.org
811 or 1-800-DIG-TESS
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:57:59 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

- EXISTING R.O.W.
- UTILITY EASEMENT
- EXIST. FENCE
- CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 42 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

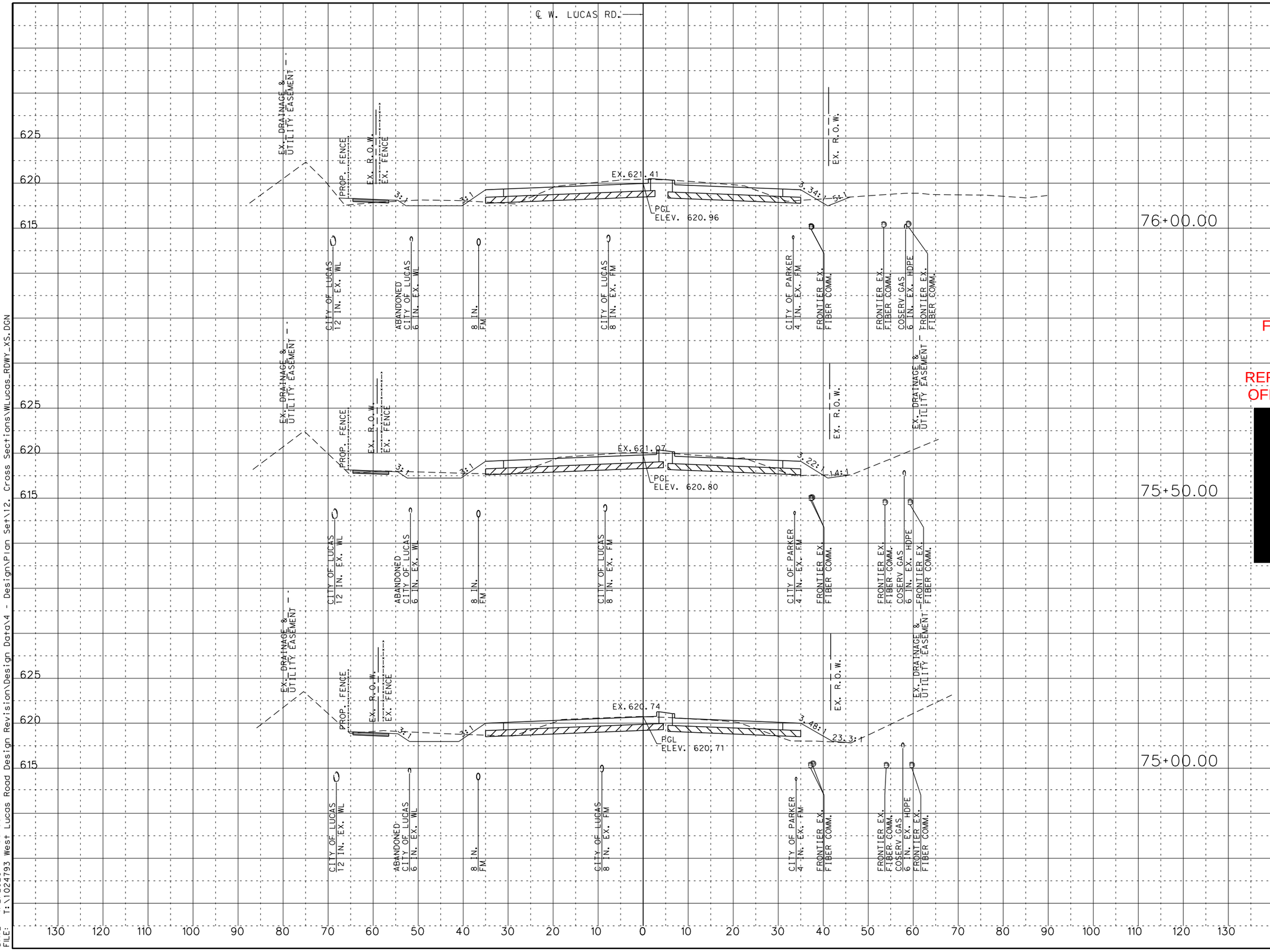
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		151
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (TEXAS ONE-CALL SYSTEM)
811 OR 1-800-DIG-TESS
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:58:26 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

—·—·— EXISTING R.O.W.
- - - - UTILITY EASEMENT
—x— EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 43 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

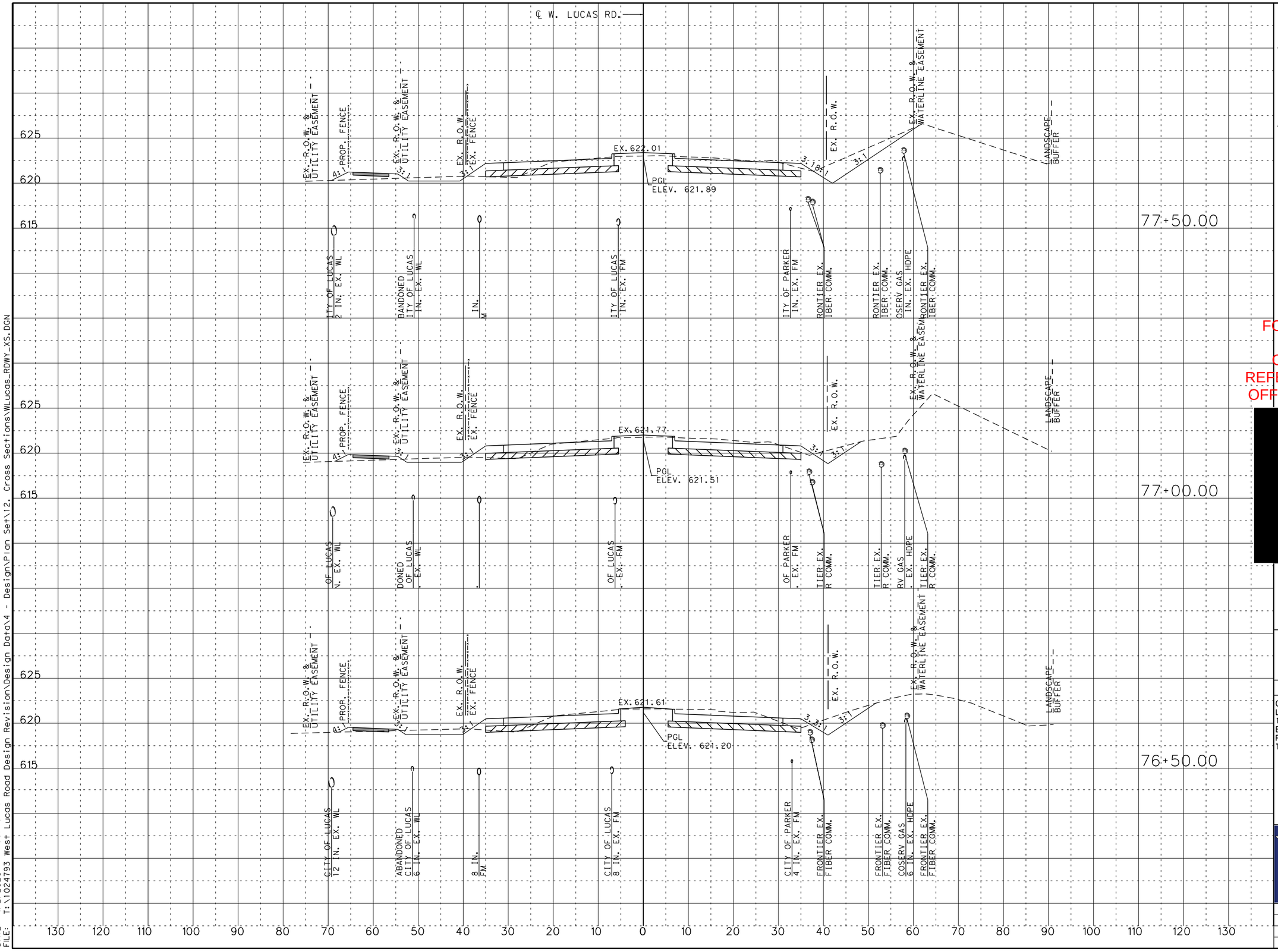
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		152
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:58:53 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 44 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

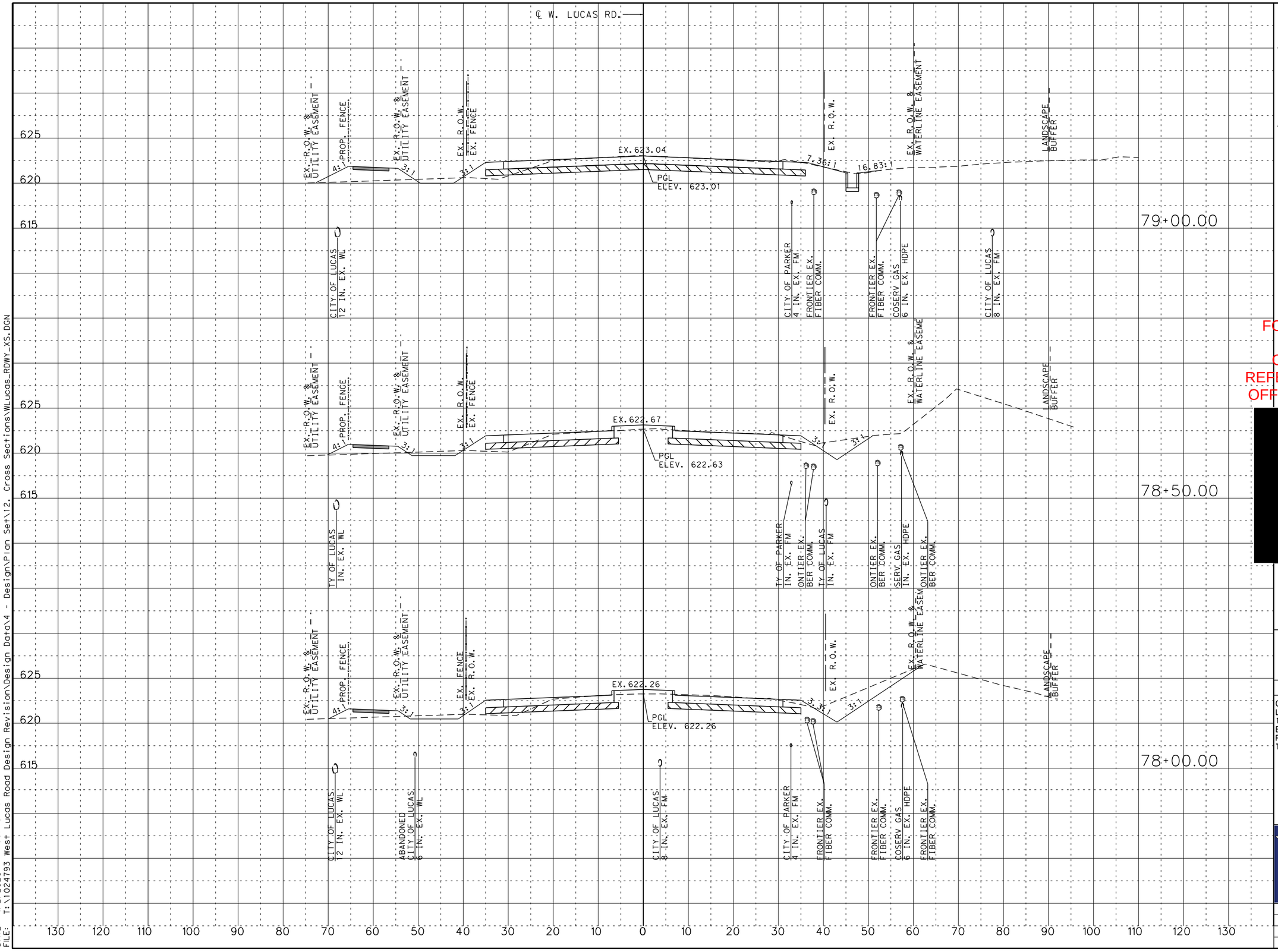
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	153
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:59:19 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 45 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

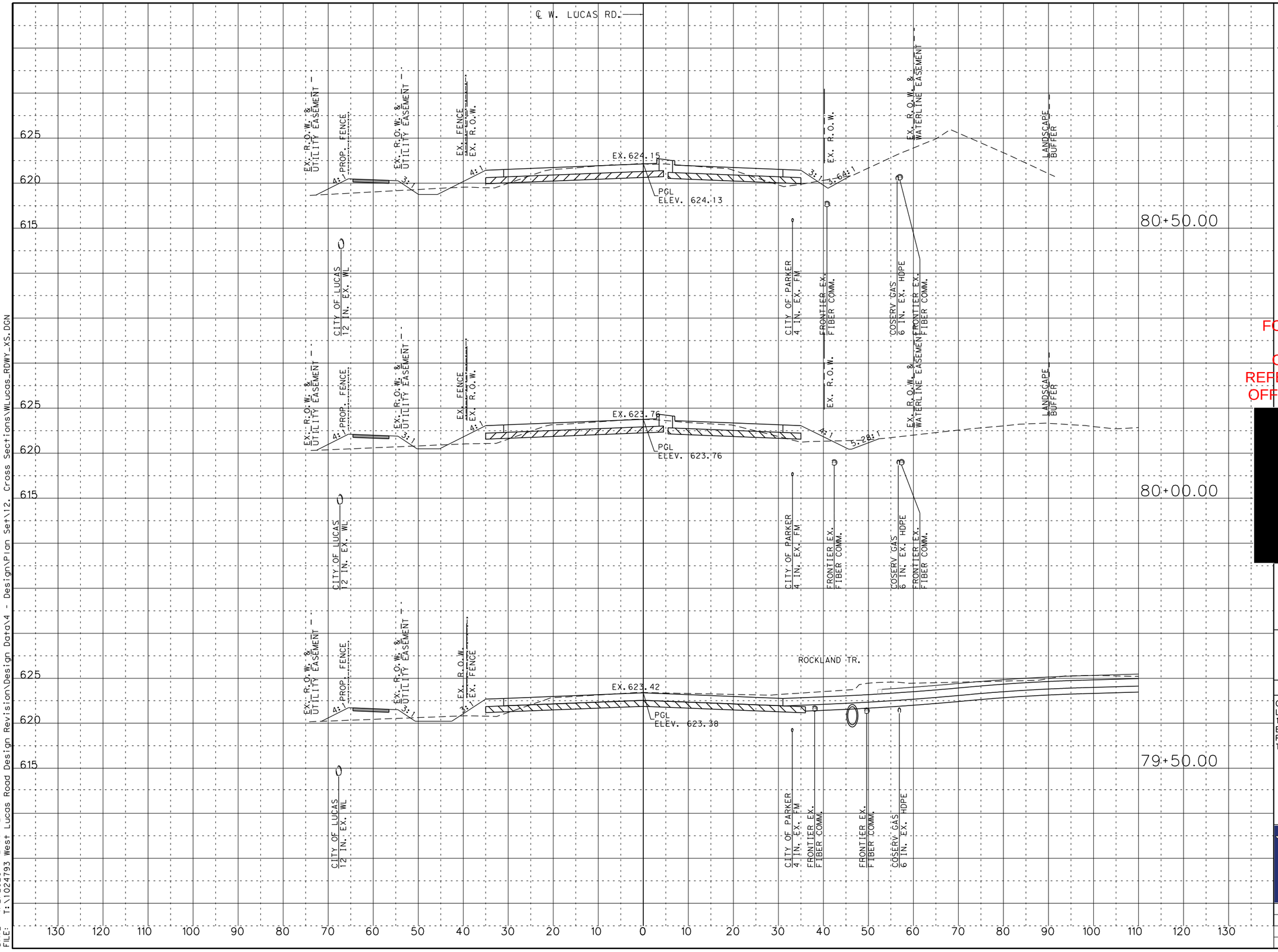
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	154
COUNTY	COLLIN	

CALL BEFORE YOU DIG
IT'S THE LAW! (CHAPTER 251, UTILITIES CODE)
48 HOURS NOTICE BEFORE YOU DIG, BORE, OR BLAST.
Texas 811 Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 1:59:46 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 46 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

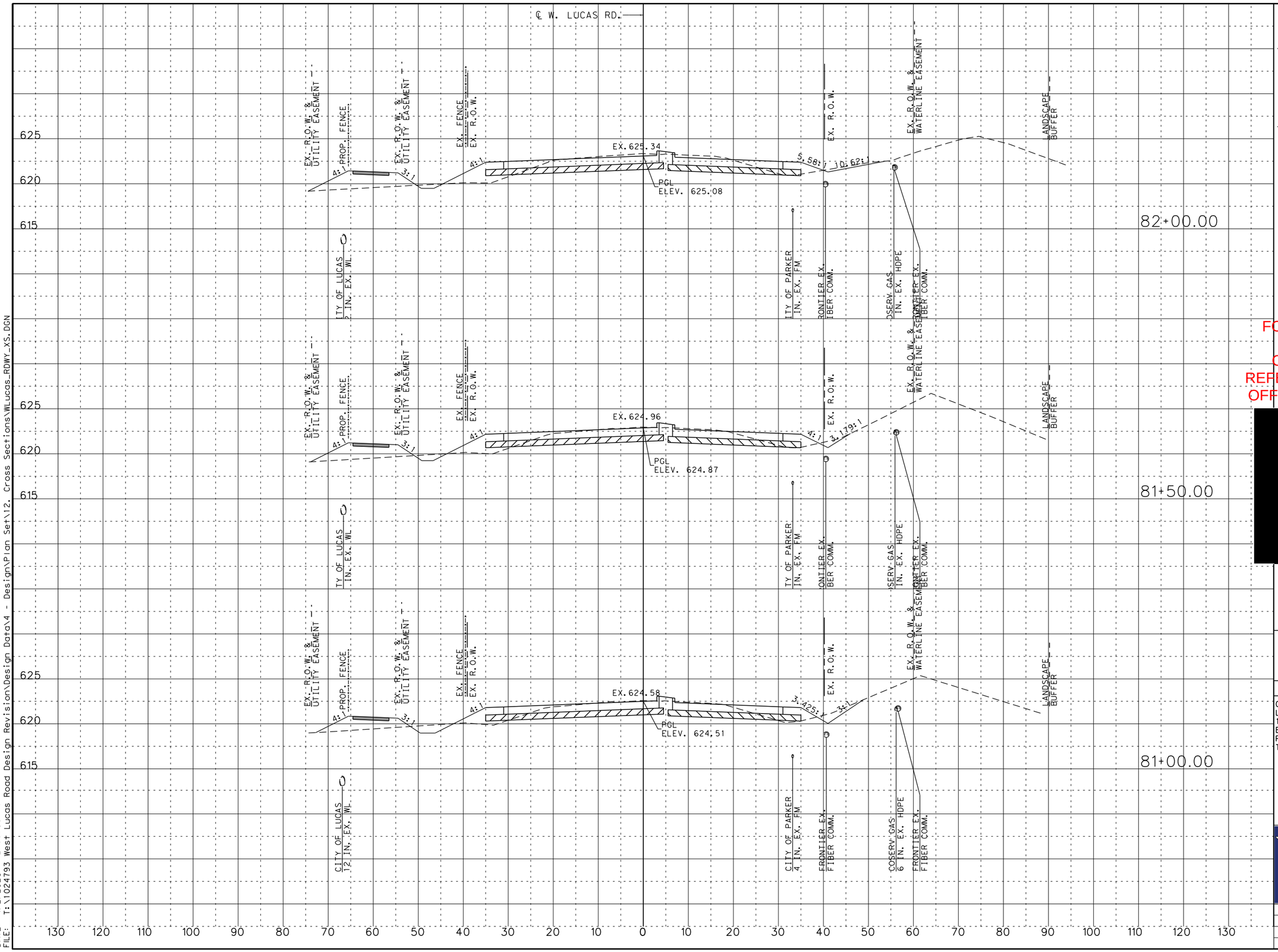
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		155
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 2:00:12 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 47 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

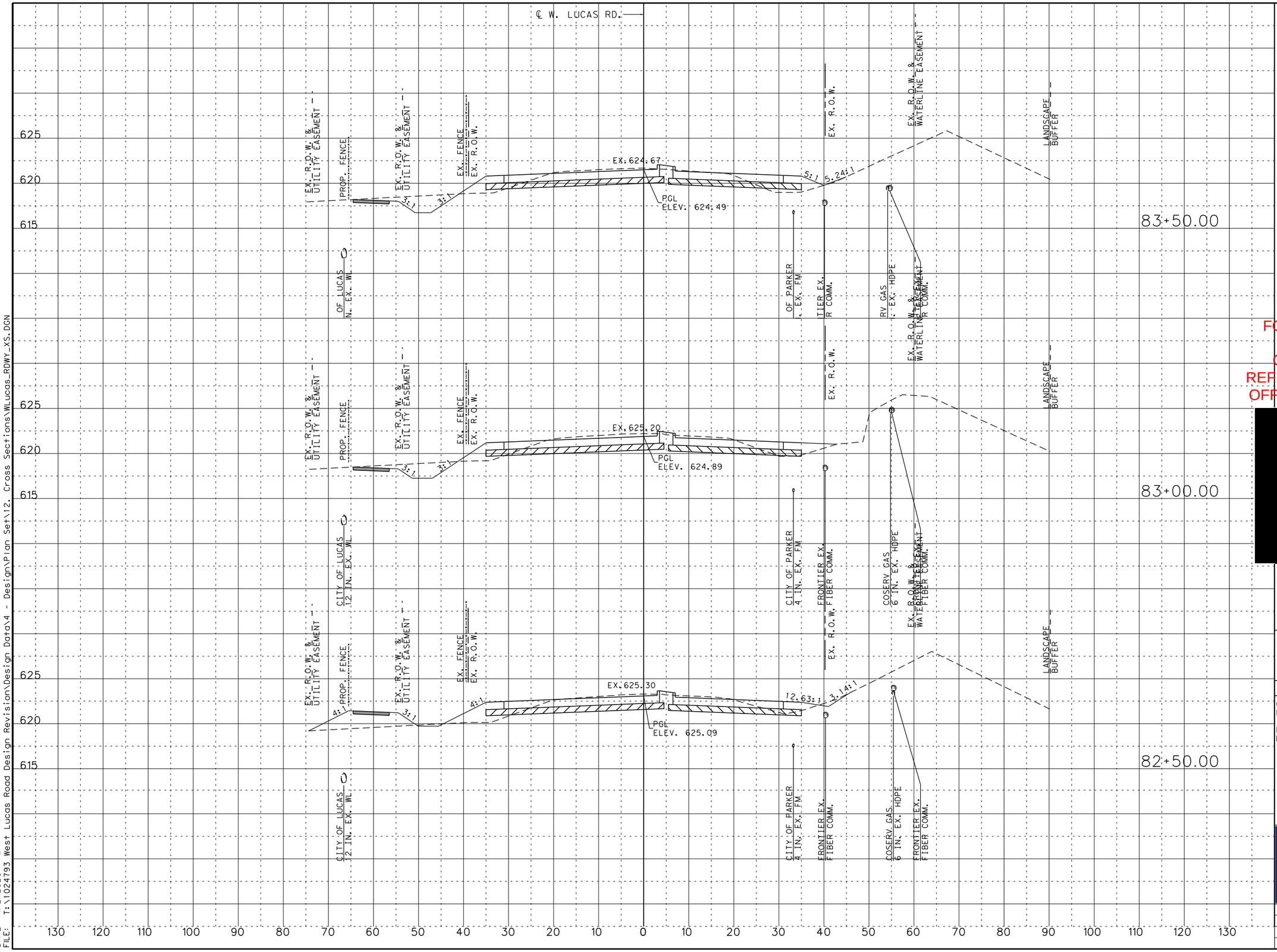
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		156
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (APPLIES TO MEMBERS)
AT LEAST 48 HOURS BUT NO MORE THAN 14 DAYS BEFORE YOU DIG, DRILL, BLAST OR EXCAVATE.
TEXAS ONE CALL SYSTEM
1-800-245-4545
Know what's below. Call before you dig.

DATE: 4/2/2026 2:00:39 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 48 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

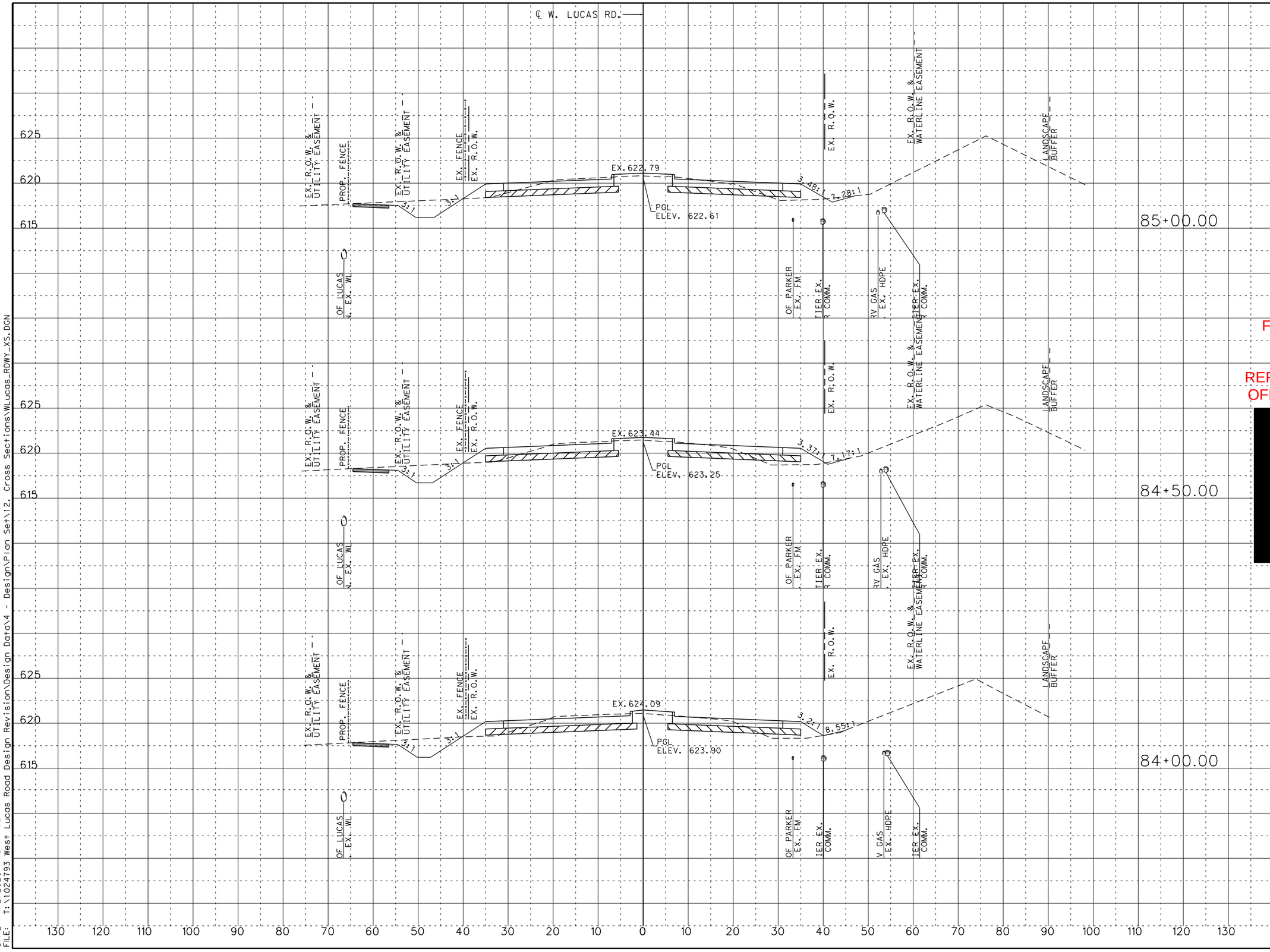
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	157
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW (TEXAS HB 2492)
ALL TEXAS811 MEMBERS MUST BE CONTACTED AT LEAST 48 HOURS, BUT NOT MORE THAN 14 DAYS, PRIOR TO BEGINNING EXCAVATION.
TEXAS ONE CALL SYSTEM
1-800-245-4545
Texas811 Know what's below. Call before you dig.

DATE: 4/2/2026 2:01:06 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 49 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

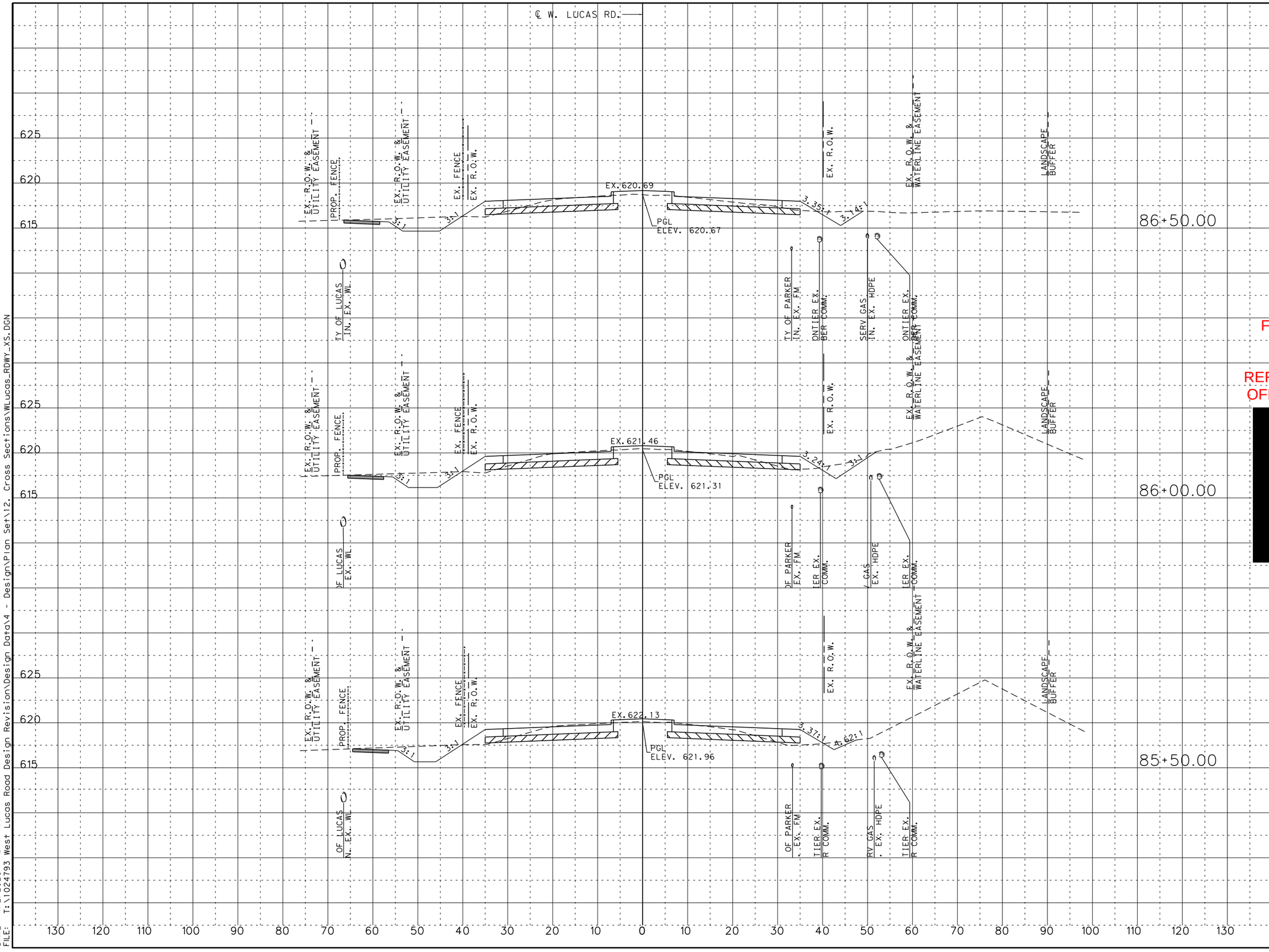
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		158
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (APPLIES TO MEMBERS AND NON-MEMBERS OF ONE-CALL SYSTEMS)
TEXAS ONE-CALL SYSTEM
1-800-245-4545
Texas811.org
Know what's below. Call before you dig.

DATE: 4/2/2026 2:01:32 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 50 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

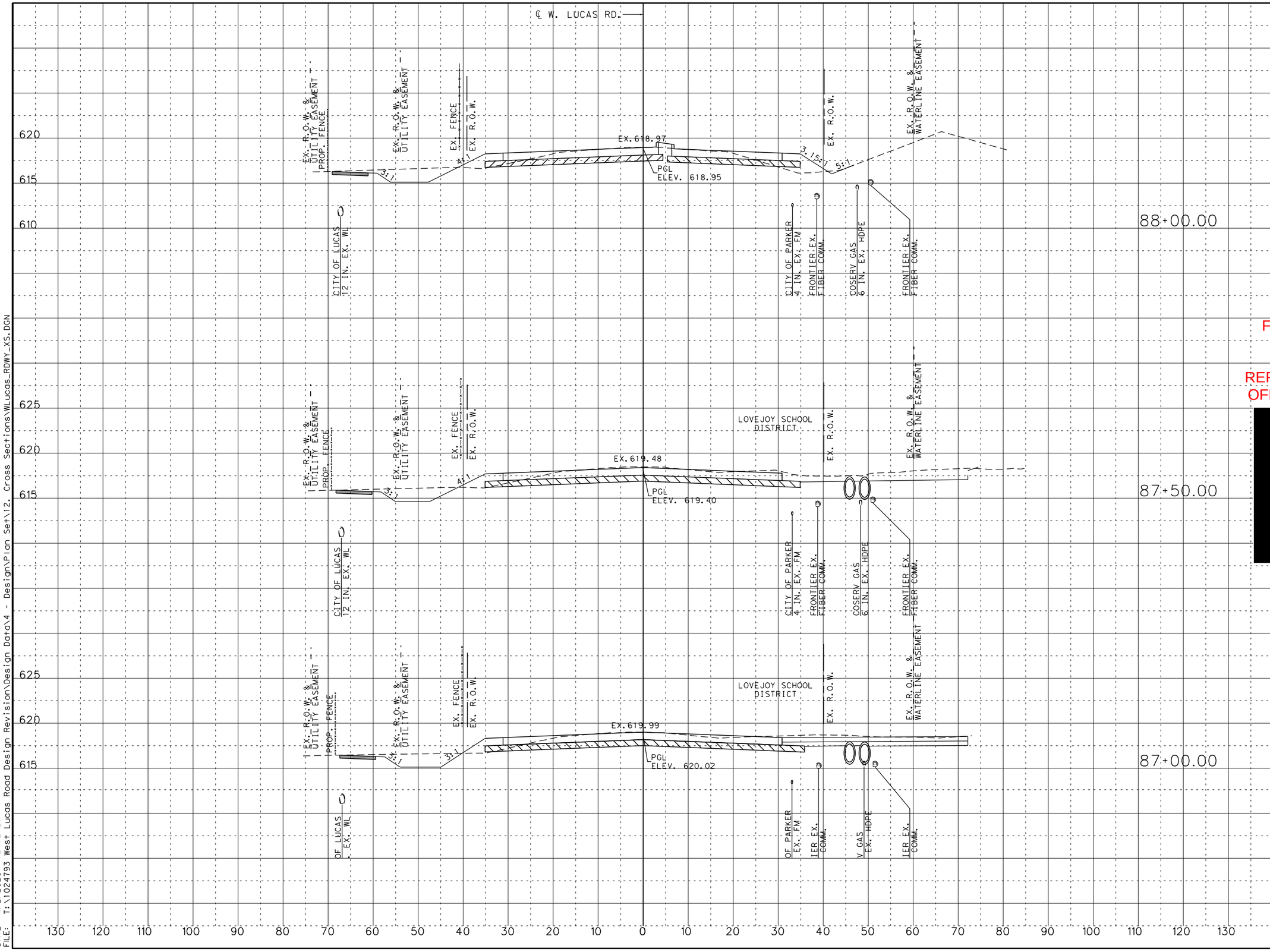
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		159
COLLIN		

CALL BEFORE YOU DIG
TEXAS811.org
811 or 1-800-DIG-TESS
Know what's below. Call before you dig.

DATE: 4/2/2026 2:01:59 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\W_Lucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 51 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

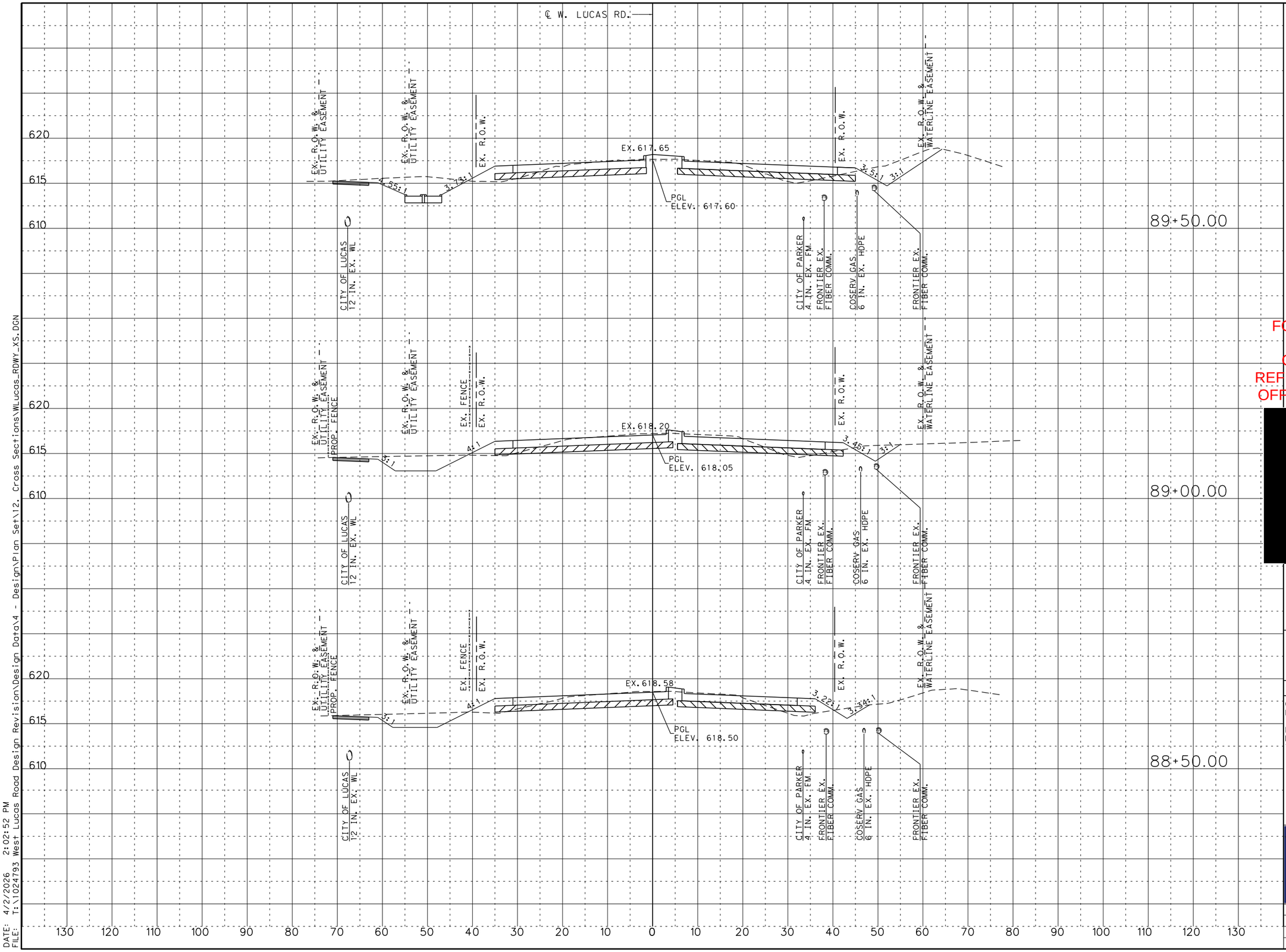
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	160
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (APPLIES TO MEMBERS AND NON-MEMBERS OF THE SYSTEM)
TEXAS ONE CALL SYSTEM
1-800-245-4545
Texas811.org

DATE: 4/2/2026 2:02:25 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 52 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

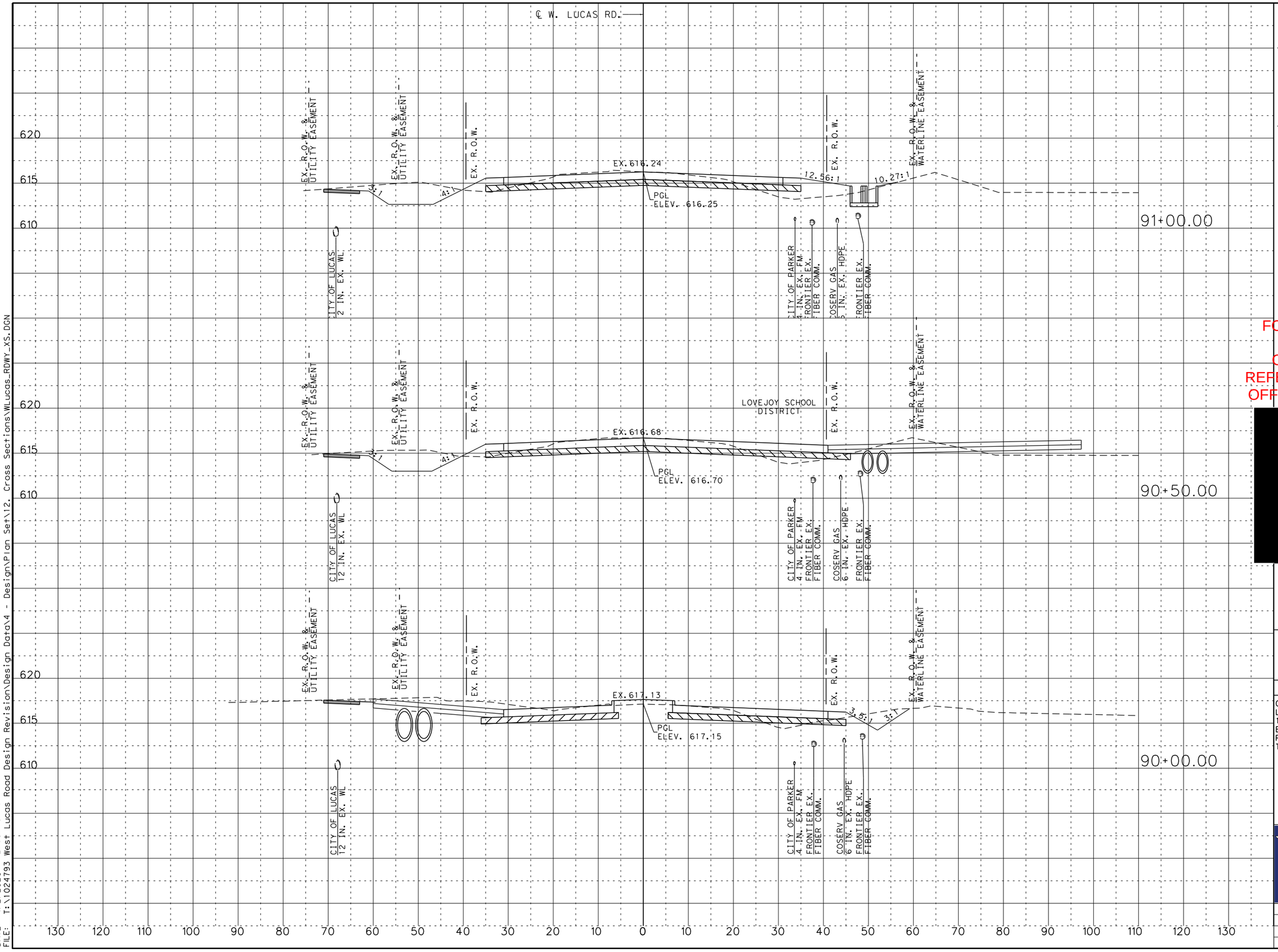
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	161
COUNTY	COLLIN	

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.

DATE: 4/2/2026 2:02:52 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 53 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

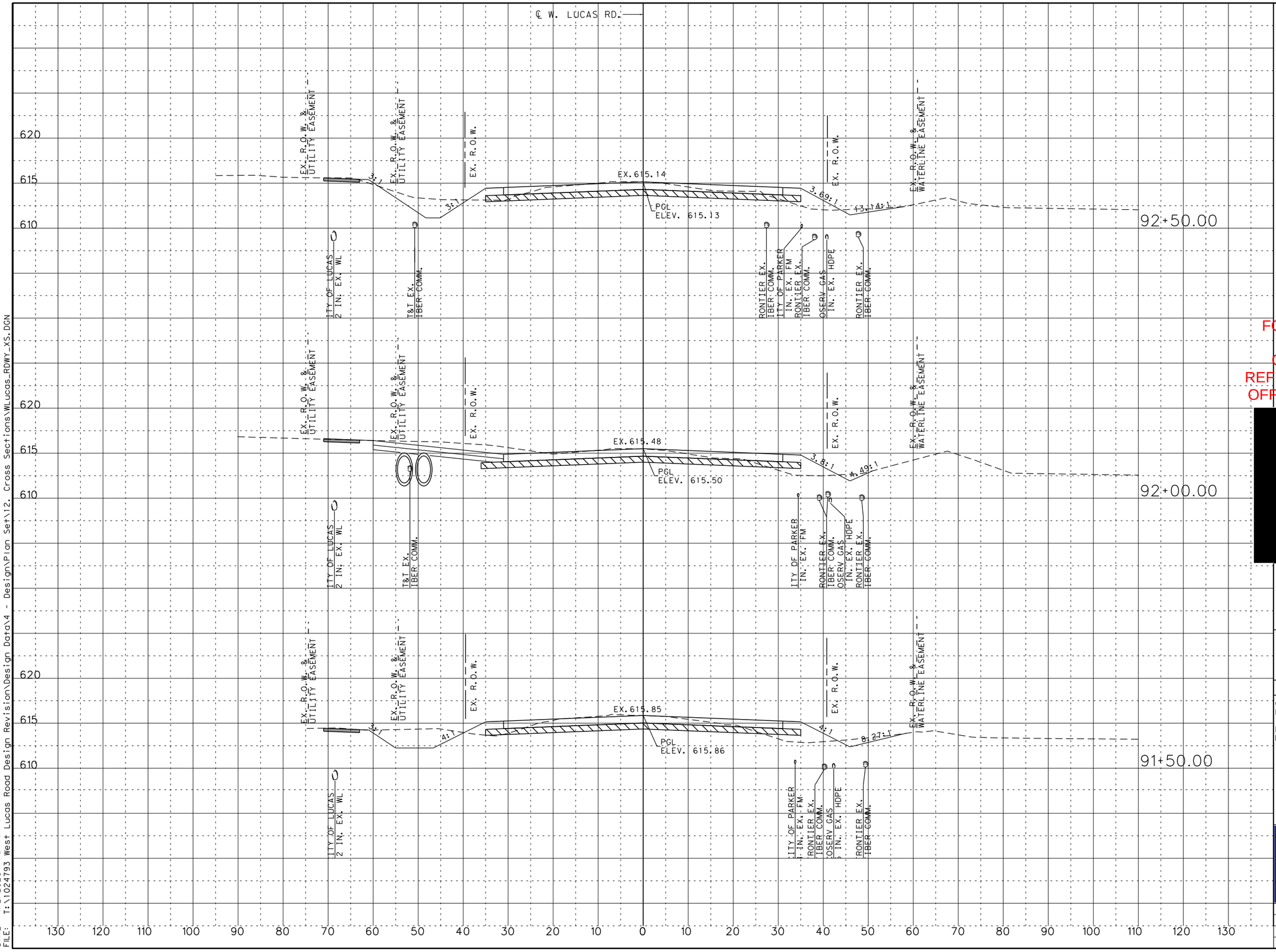
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	162
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-245-4545

DATE: 4/2/2026 2:03:18 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 54 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

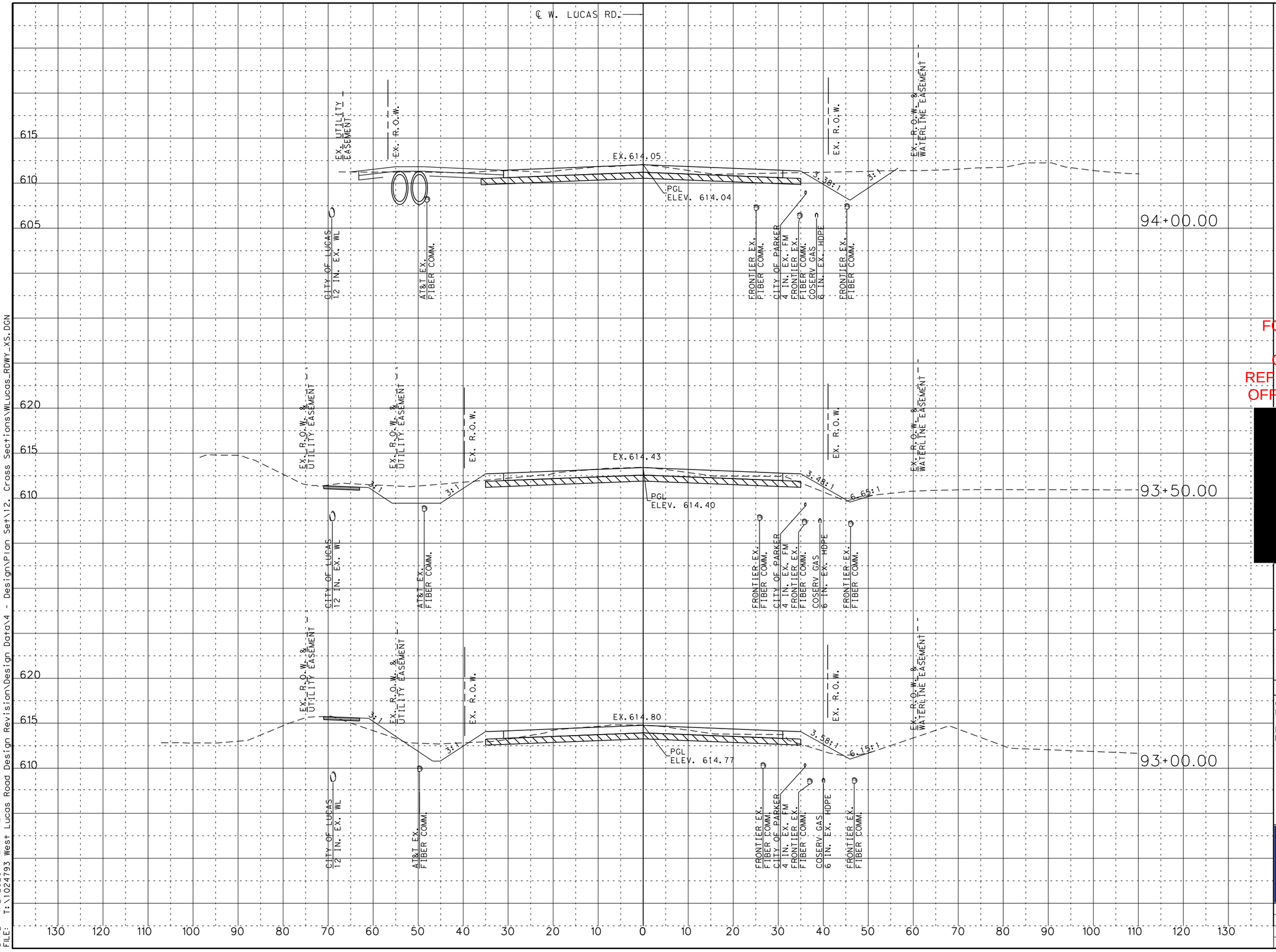
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	163
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.

DATE: 4/2/2026 2:03:45 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 55 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

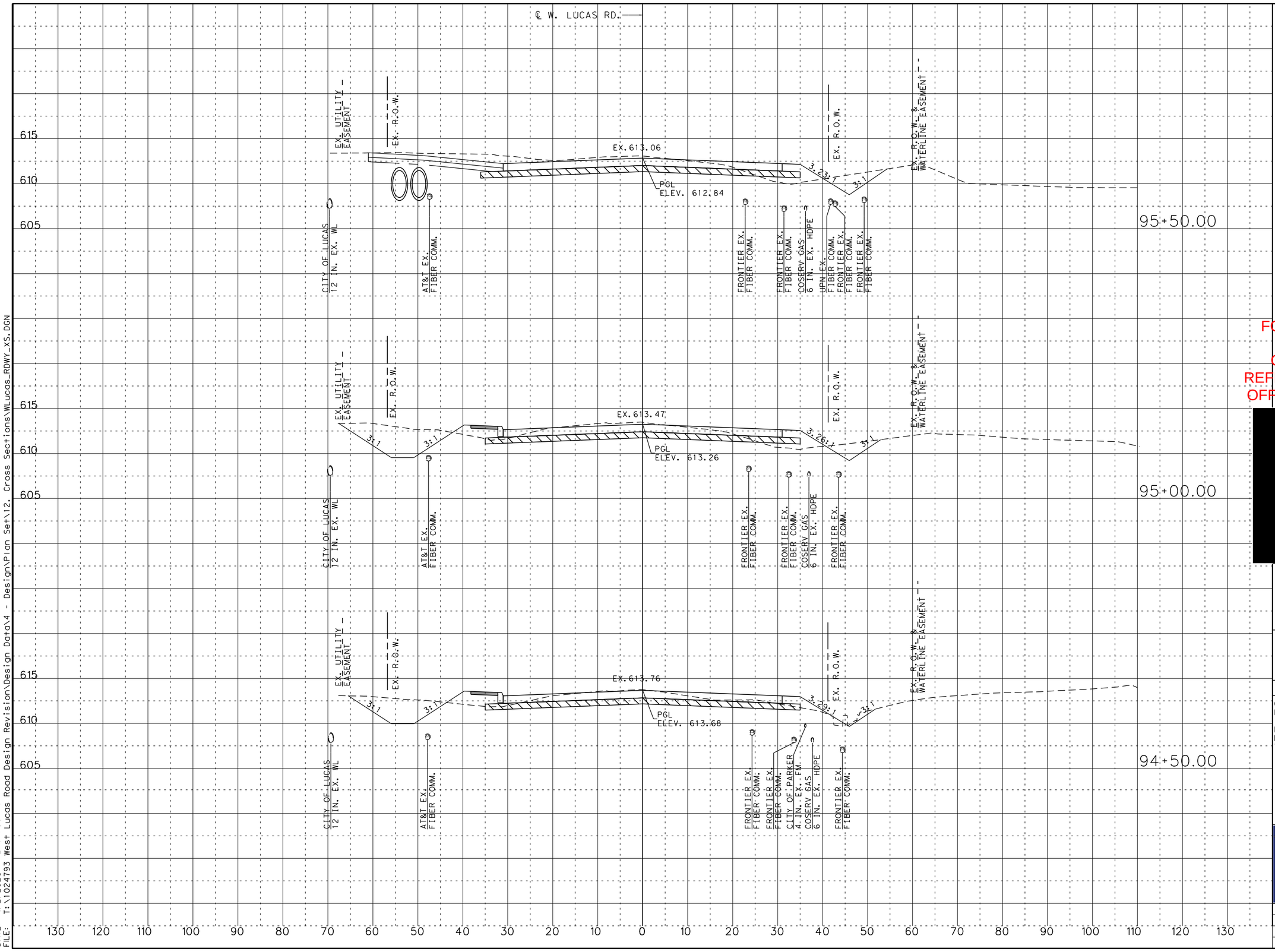
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		164
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-545-1105

DATE: 4/2/2026 2:04:12 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 56 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

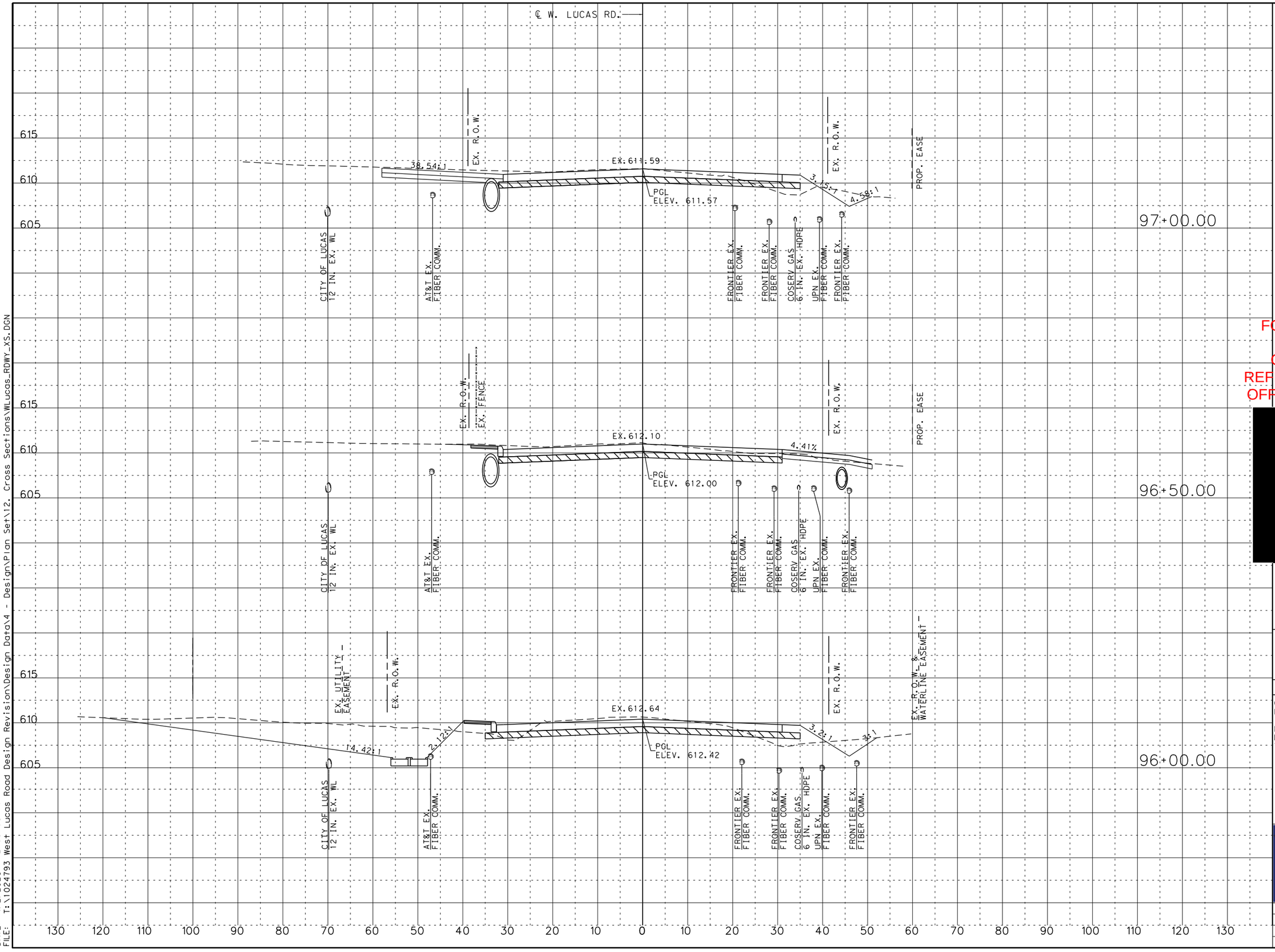
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	165
COUNTY		
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811
Know what's below. Call before you dig.

DATE: 4/2/2026 2:04:39 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

EXISTING R.O.W.
UTILITY EASEMENT
EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 57 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

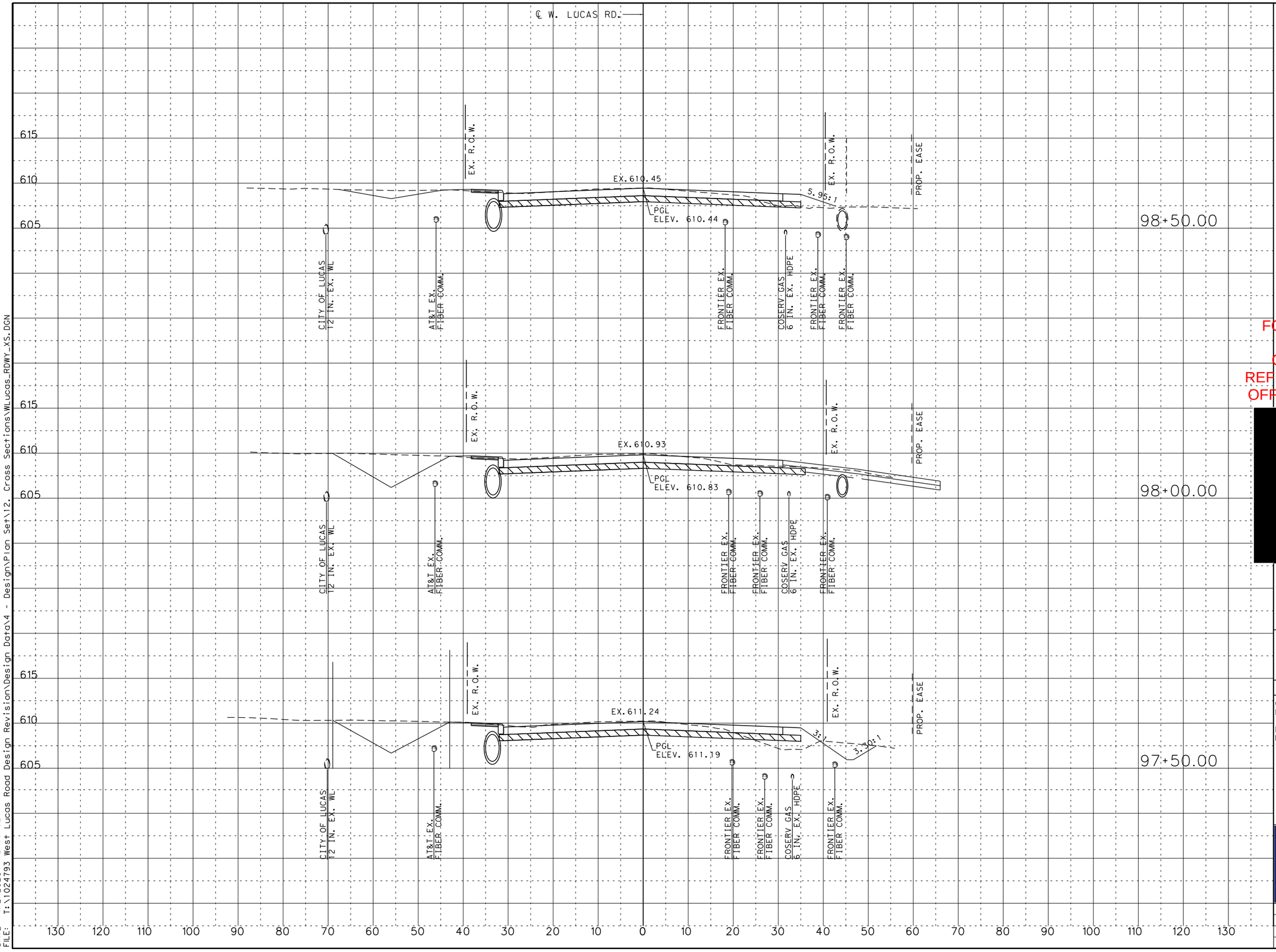
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		166
COLLIN		

CALL BEFORE YOU DIG
TEXAS 811 811 or 1-800-DIG-TESS
TEXAS ONE CALL SYSTEM 1-800-245-4545

DATE: 4/2/2026 2:05:06 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN



SCALE:

1" = 20' HORIZONTAL
1" = 10' VERTICAL

LEGEND:

—·—·— EXISTING R.O.W.
- - - - UTILITY EASEMENT
—x— EXIST. FENCE
CONC. SIDEWALK

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSS SECTIONS

SHEET 58 OF 58

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		167
COLLIN		

CALL BEFORE YOU DIG
IT'S THE LAW! (TEXAS LAW REQUIRES YOU TO CALL AT LEAST TWO FULL BUSINESS DAYS BEFORE YOU BEGIN EXCAVATION.)
Texas811.org
Know what's Below. Call before you dig.
TEXAS ONE CALL SYSTEM
1-800-DIG-TESS

DATE: 4/2/2026 2:05:32 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\12. Cross Sections\WLucas_RDWY_XS.DGN

DRAINAGE AREA CALCULATIONS

AREA NAME	TOTAL ACRES	C FACTOR	TC (min.)	Q_{25} (CFS)	Q_{100} (CFS)	DESCRIPTION
PROPOSED CONDITION						
SYSTEM K						
K1	3.48	-	-	9.23	19.31	BASED ON WALMART AS-BUILT, SHEET C-15 - Area E-1 and E-2
K2	2.41	-	-	4.26	12.65	
OS1	24.62	-	-	80.05	97.28	WALMART AS-BUILT, SHEET C-15, DETENTION POND
SYSTEM A						
A1	4.14	0.47	20.9	10.85	16.68	
A2	2.25	0.48	21.4	5.92	9.09	
A3	5.37	0.47	27.3	12.23	18.86	
A4	1.52	0.48	27.1	3.52	5.43	
A5	4.30	0.47	26.8	9.95	15.34	
A6	1.30	0.47	25.8	3.08	4.75	
A7	2.97	0.47	25.9	7.00	10.79	
A8	4.59	0.47	30.6	9.82	15.17	
A9	4.84	0.48	53.2	7.52	11.68	
A10	5.84	0.48	35.2	11.65	18.04	
A11	0.98	0.48	19.6	2.70	4.15	
A12	4.23	0.48	22.9	10.74	16.52	
SYSTEM B						
B1	3.85	0.63	16.1	15.26	23.39	
B2	0.78	0.59	15.0	2.99	4.59	
B3	1.75	0.55	16.3	6.05	9.28	
OS2	-	-	-		164.30	PARKER LAKE ESTATES-PH 2, SHEET 18, DETENTION POND A
SYSTEM C						
C1	1.20	0.51	21.0	3.41	5.24	
C2	8.99	0.46	30.0	18.85	29.11	
C3	10.18	0.47	25.0	24.07	37.07	
C4	12.57	0.47	24.0	30.60	47.10	
C5	13.58	0.46	27.0	30.44	46.96	BASED ON TRAIL SIDE AS-BUILT, SHEET 7
SYSTEM D						
D1	0.30	0.71	15.0	1.18	2.14	
D2	0.86	0.64	20.0	3.12	4.79	
D3	1.63	0.65	23.0	5.59	8.60	
SYSTEM E						
E1	7.79	0.40	22	16.92	26.02	BASED ON TRAIL SIDE AS-BUILT, SHEET 7
E2	6.79	0.44	20	16.87	25.90	
E3	6.35	0.40	21	14.07	21.63	
E4	14.62	0.43	45	22.80	35.31	
SYSTEM F						
F1	0.93	0.65	15	3.95	6.04	
SYSTEM G						
G1	3.39	0.50	15	11.10	17.00	
G2	2.50	0.46	22	6.18	9.50	
SYSTEM H						
H1	13.83	0.37	32	22.45	34.69	
H2	1.49	0.76	17	6.95	10.65	
H3	7.74	0.42	22	17.39	26.73	
H4	0.52	0.58	18	1.80	2.77	
H5	4.42	0.36	18	9.50	14.58	
H6	0.68	0.42	17	1.77	2.70	
OS3	4.03	0.37	24	7.76	11.94	
SYSTEM J						
J1	5.02	0.48	19	14.12	21.70	
J2	2.95	0.85	19	14.65	22.51	
J3	0.72	0.63	28	2.18	3.36	

SYSTEM K DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-K1	9.23	0.82	2.30	4.25
DITCH-K2	13.49	0.74	2.50	7.03

SYSTEM A DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-A1	10.85	0.76	1.06	2.81
DITCH-A2	16.77	1.09	1.73	3.51
DITCH-A3	29.00	1.37	2.47	4.03
DITCH-A5	42.47	1.84	2.39	3.46
DITCH-A7	52.55	1.87	2.00	3.92
DITCH-A9	69.90	1.63	1.69	4.79
DITCH-A10	81.55	1.27	1.40	8.15
DITCH-A11	84.25	1.14	2.00	9.81
DITCH-A12	94.98	1.78	2.70	5.67

SYSTEM B DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-B1	15.26	1.06	1.40	2.96
DITCH-B2	18.25	0.90	3.33	4.33
DITCH-B3	24.31	1.46	2.50	4.33

SYSTEM C DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-C1	107.37	2.47	3.08	5.23
DITCH-C2	103.97	1.57	2.58	6.35
DITCH-C3	85.11	0.88	1.41	6.64
DITCH-C4&C5	61.05	1.52	2.25	6.43
DITCH-C6	30.44	0.80	2.91	5.82

SYSTEM D DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-D1	9.89	0.63	1.08	6.15
DITCH-D2	8.71	0.81	1.25	3.80
DITCH-D3	5.59	0.56	1.00	4.07

SYSTEM E DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-E1&E2	33.79	0.78	1.83	7.14
DITCH-E3	36.86	1.21	2.41	5.85

SYSTEM F&G DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-F1	3.95	0.53	2.16	3.65
DITCH-G1	17.28	1.08	1.83	4.72
DITCH-G2	6.18	0.40	1.20	4.69

SYSTEM H DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-H1	22.45	0.95	3.75	7.61
DITCH-H2	29.40	1.18	2.75	5.55
DITCH-H3	46.78	1.13	2.50	8.44
DITCH-H4	48.58	1.38	3.64	8.52
DITCH-H5	58.10	0.40	1.25	8.09
DITCH-H6	67.63	1.98	3.41	4.81

SYSTEM J DITCH SUMMARY

NAME	Q_{25yr}(cfs)	Depth(ft)	Allow_Depth(ft)	V_{25yr}(ft/s)
DITCH-J1	14.12	0.64	1.00	6.70
DITCH-J2	28.76	1.10	1.83	7.28
DITCH-J2A	28.76	0.87	2.66	6.29
DITCH-J3	30.94	1.09	3.25	6.73
DITCH-J4	30.94	1.04	3.25	7.92
DITCH-J5	30.94	0.59	2.51	7.62

PIPE CULVERT SUMMARY

CULVERT NAME	PIPE SIZE "B" (IN)	NO. OF PIPES	OUTLET PROTECTION LENGTH AT OUTFALL "L" (FT)
K1	24	1	8
K2	48	1	N/A
A1	24	1	8
A2	36	1	8
C5	24	2	8
C6	24	2	8
D2	18	2	8
D3	18	2	8
G2	24	1	8
H1	36	2	12
H2	36	2	8
H3	36	2	12
H4	36	2	11
H5	36	1	8
J1	24	1	8
J2	24	2	10
J2A	24	1	10
J3	24	1	8
J4	24	1	10

BOX CULVERT SUMMARY

CULVERT NAME	BOX SPAN "B" (FT)	NO. OF BOXES	OUTLET PROTECTION LENGTH AT OUTFALL "L" (FT)
A3	4 X 2	1	8
A5	6 X 2	1	8
A7	4 X 2	2	8
A9	5 X 2	2	8
A10	6 X 2	2	24
A11	6 X 2	2	24
A12	5 X 3	3	8
B1	5 X 2	1	8
C2	4 X 3	1	8
C3	4 X 2	2	8
C4	4 X 2	2	8
E3	4 X 2	1	8

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRAINAGE AREA CALCULATIONS

SHEET 1 OF 1

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

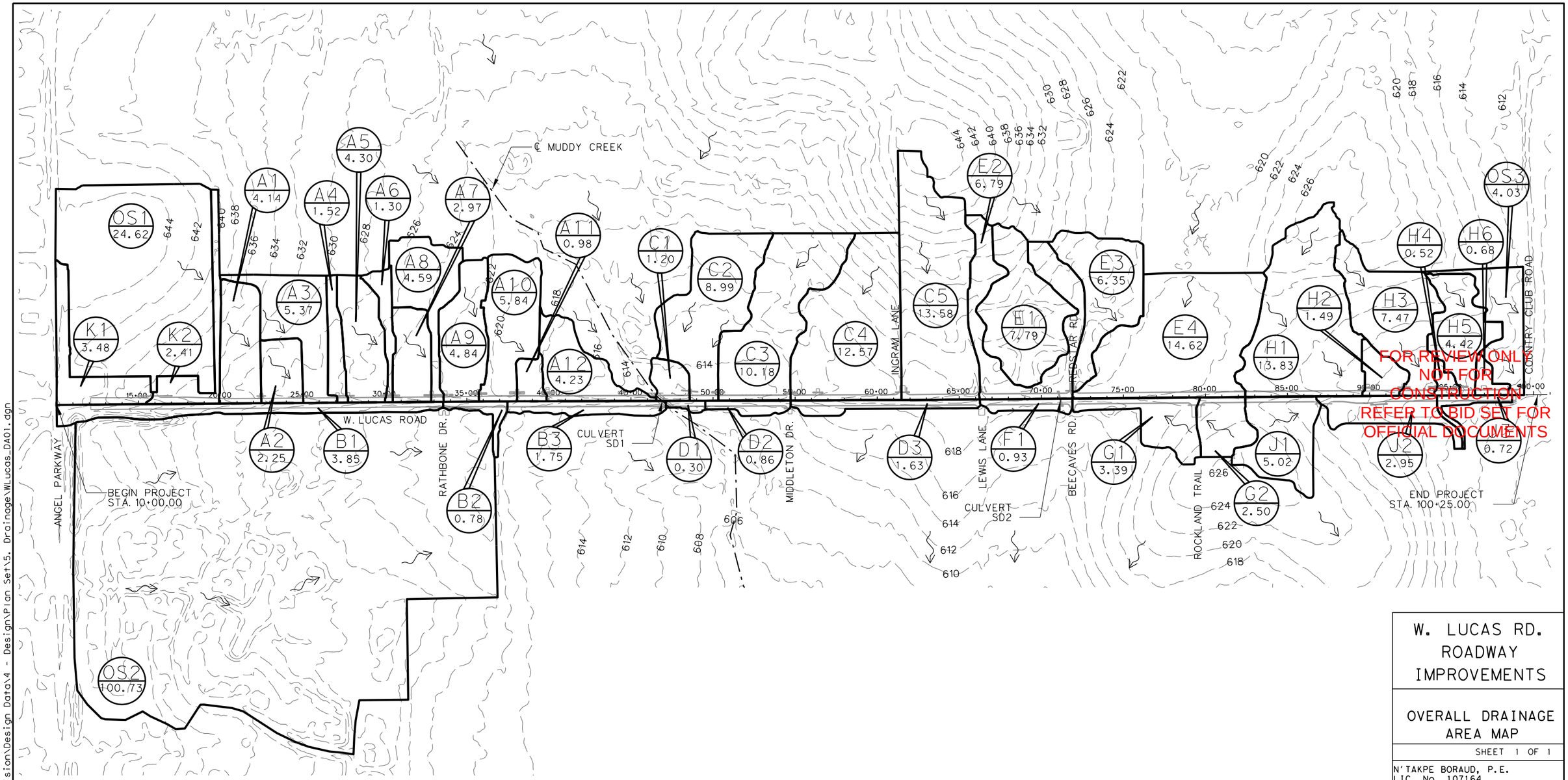
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	168
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:02 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA_Calculations.dgn



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

LEGEND

X# — DRAINAGE AREA
XX.XX — AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

N

0 150 600
SCALE IN FEET

W. LUCAS RD. ROADWAY IMPROVEMENTS

OVERALL DRAINAGE AREA MAP

SHEET 1 OF 1

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

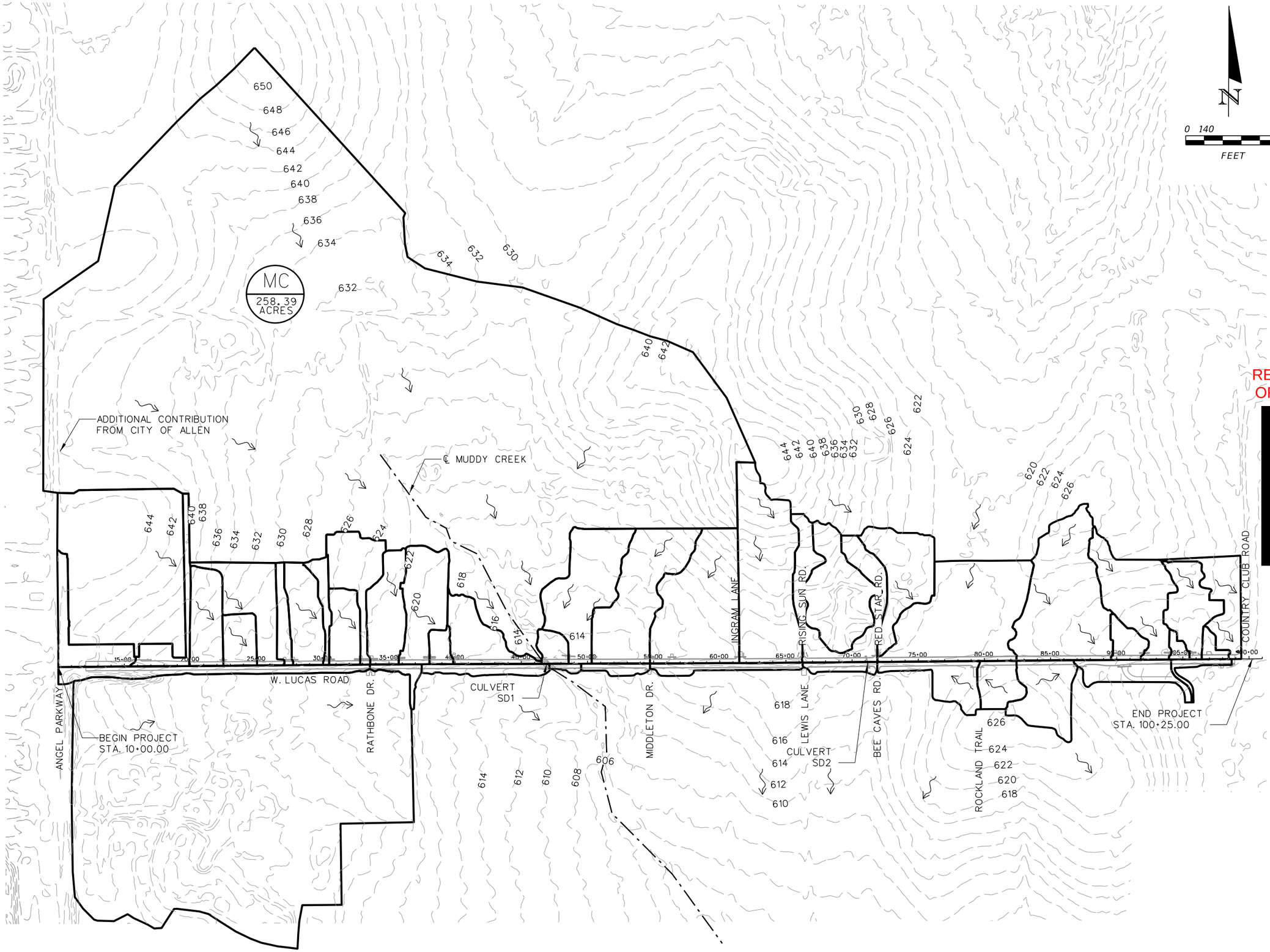
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		169
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:07 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA01.dgn



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

W. LUCAS RD. ROADWAY IMPROVEMENTS

MUDDY CREEK DRAINAGE AREA MAP

SHEET 1 OF 1

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

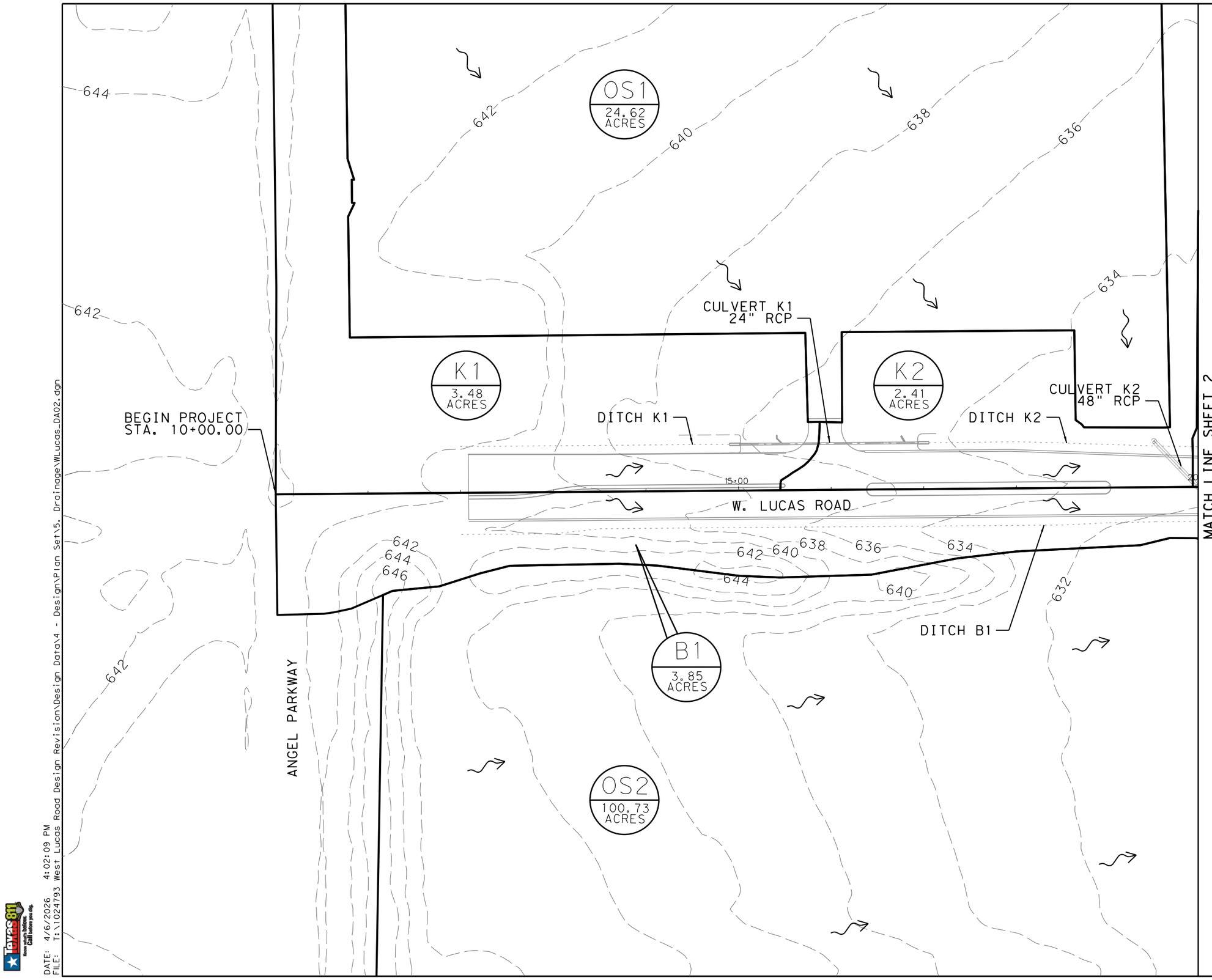
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	170
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DAMC01.dgn



LEGEND

X# — DRAINAGE AREA

XX.XX ACRES — AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

IN-SITE DRAINAGE AREA MAP

SHEET 1 OF 8

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

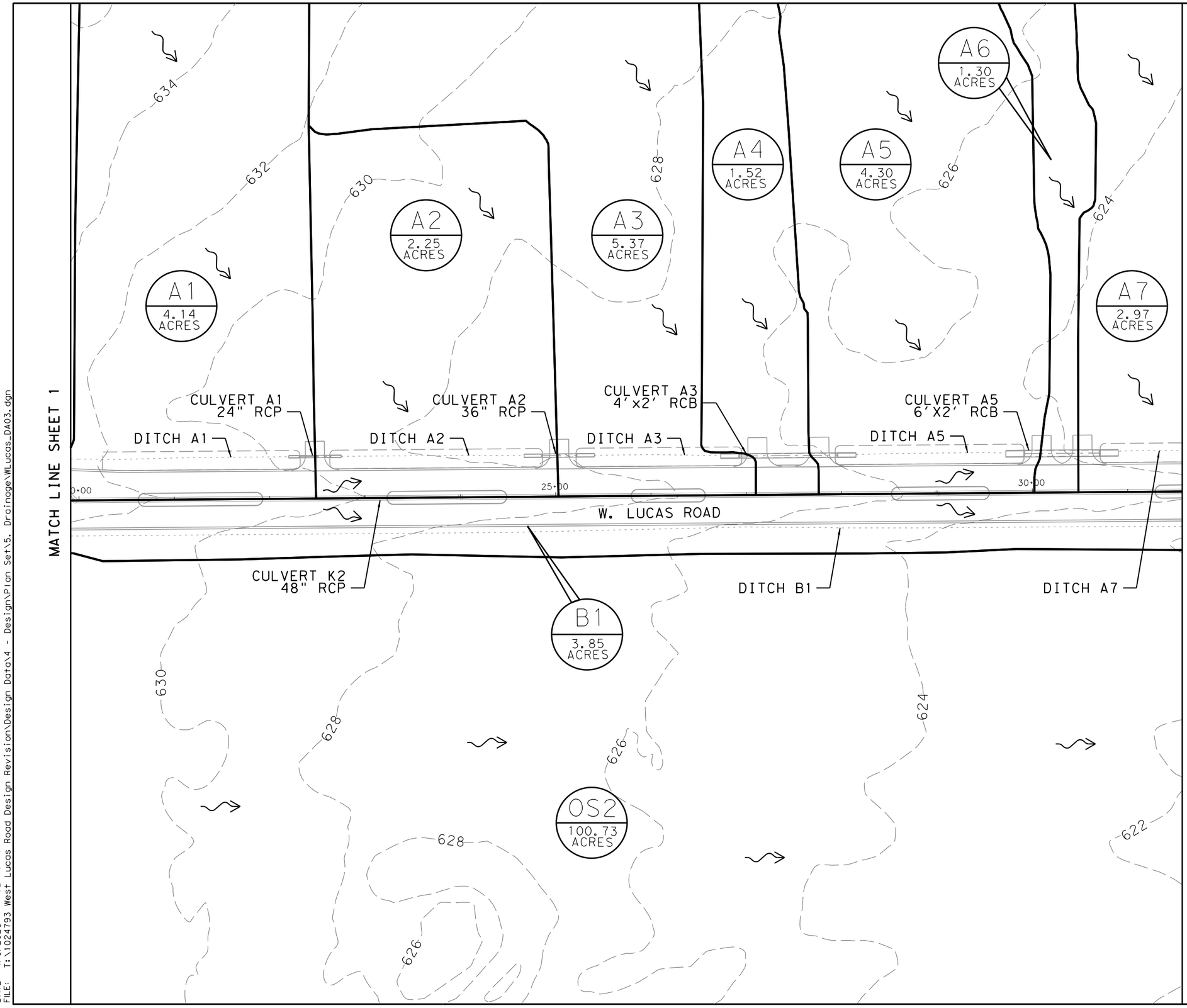
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	171
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:09 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA02.dgn



N

0 20 100
FEET

LEGEND

X#
XX.XX ACRES
DRAINAGE AREA
AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

IN-SITE DRAINAGE AREA MAP

SHEET 2 OF 8

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

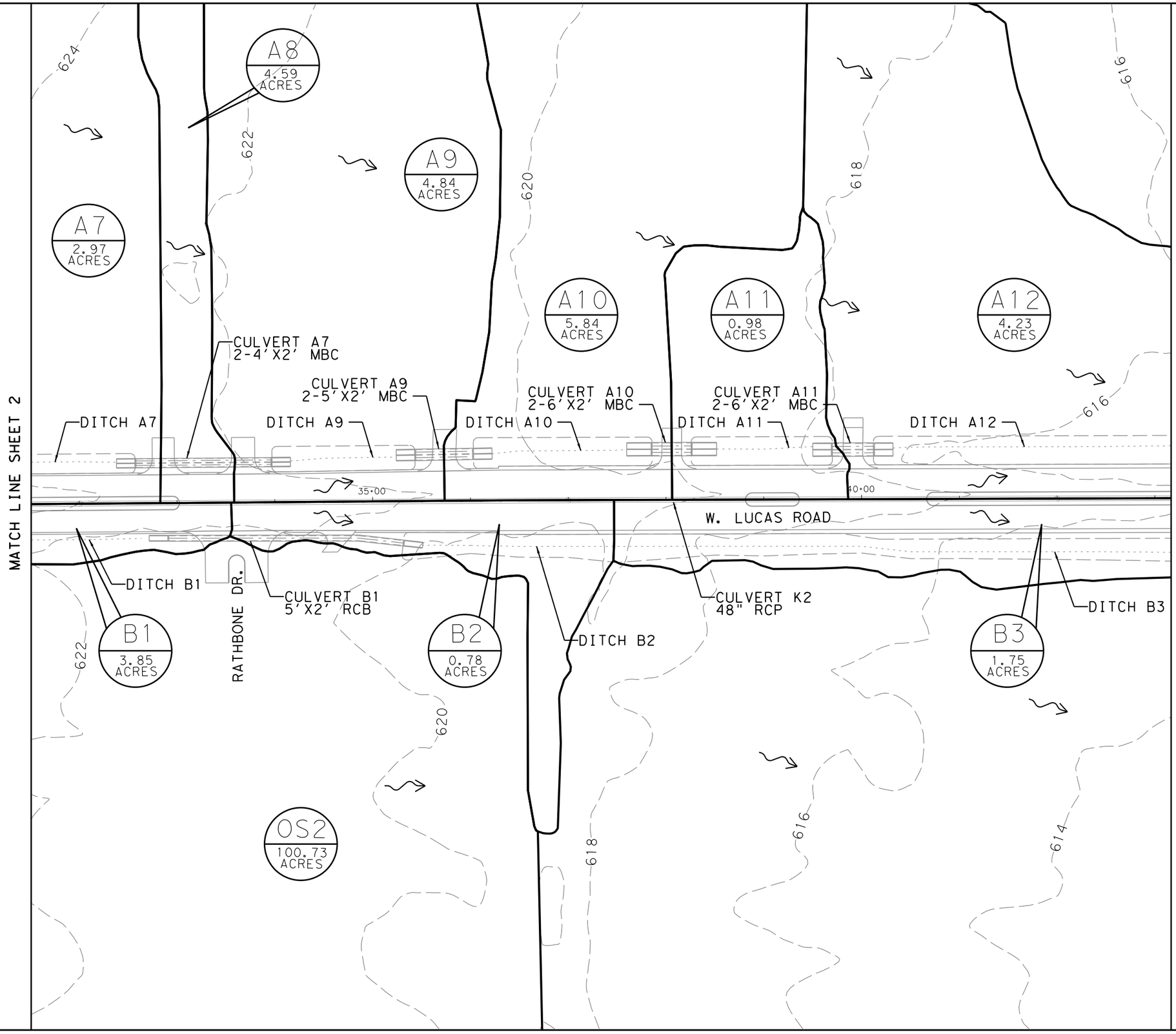
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	172
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:10 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA03.dgn

Texas811 Know what's below. Call before you dig.



N

0 20 100
FEET

LEGEND

X#
XX.XX ACRES
DRAINAGE AREA
AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

IN-SITE DRAINAGE AREA MAP

SHEET 3 OF 8

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

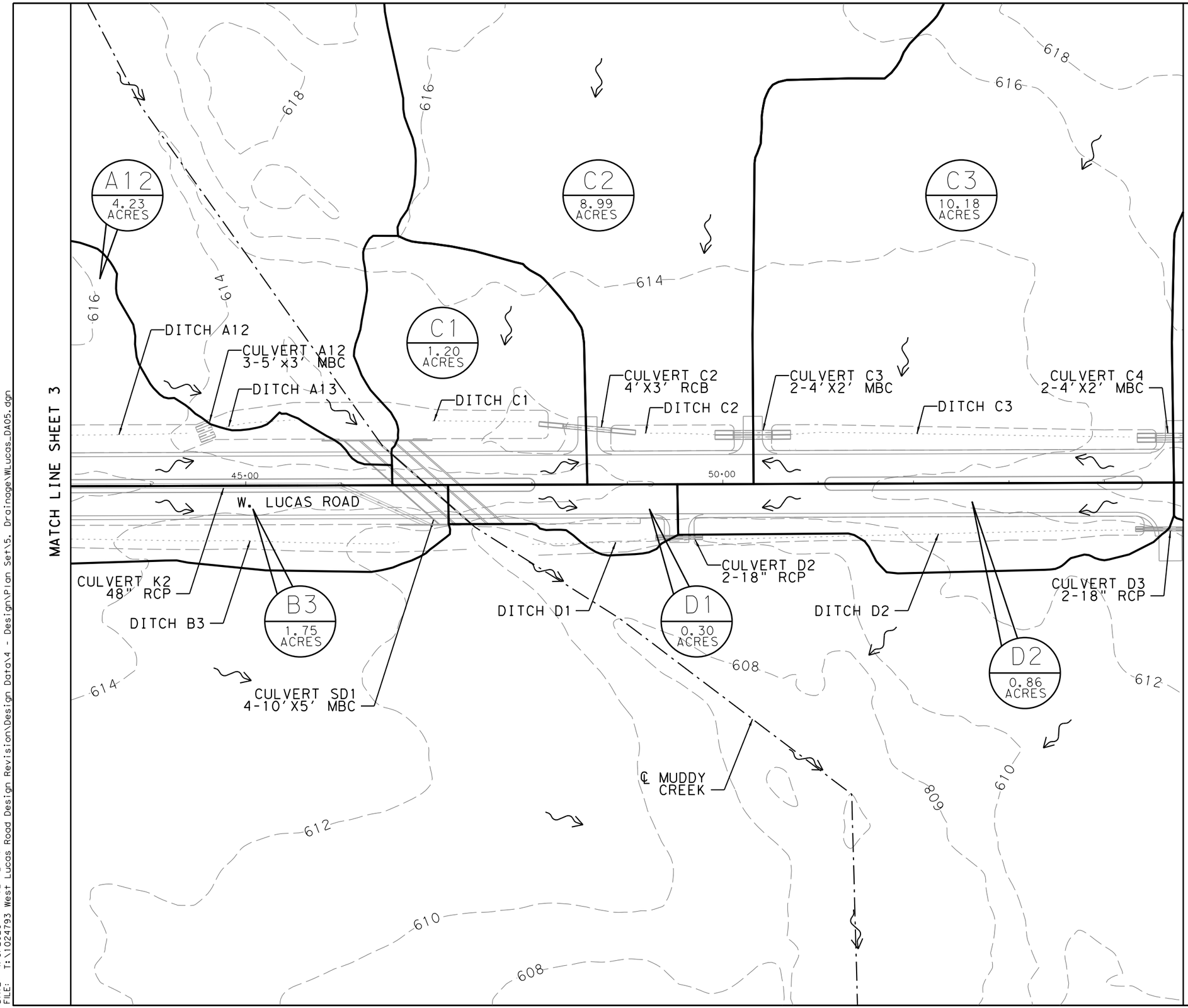
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	173
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:11 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\Drainage\WLucas_DA04.dgn



0 20 100
FEET

LEGEND

X#
XX.XX ACRES
DRAINAGE AREA
AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

IN-SITE DRAINAGE AREA MAP

SHEET 4 OF 8

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

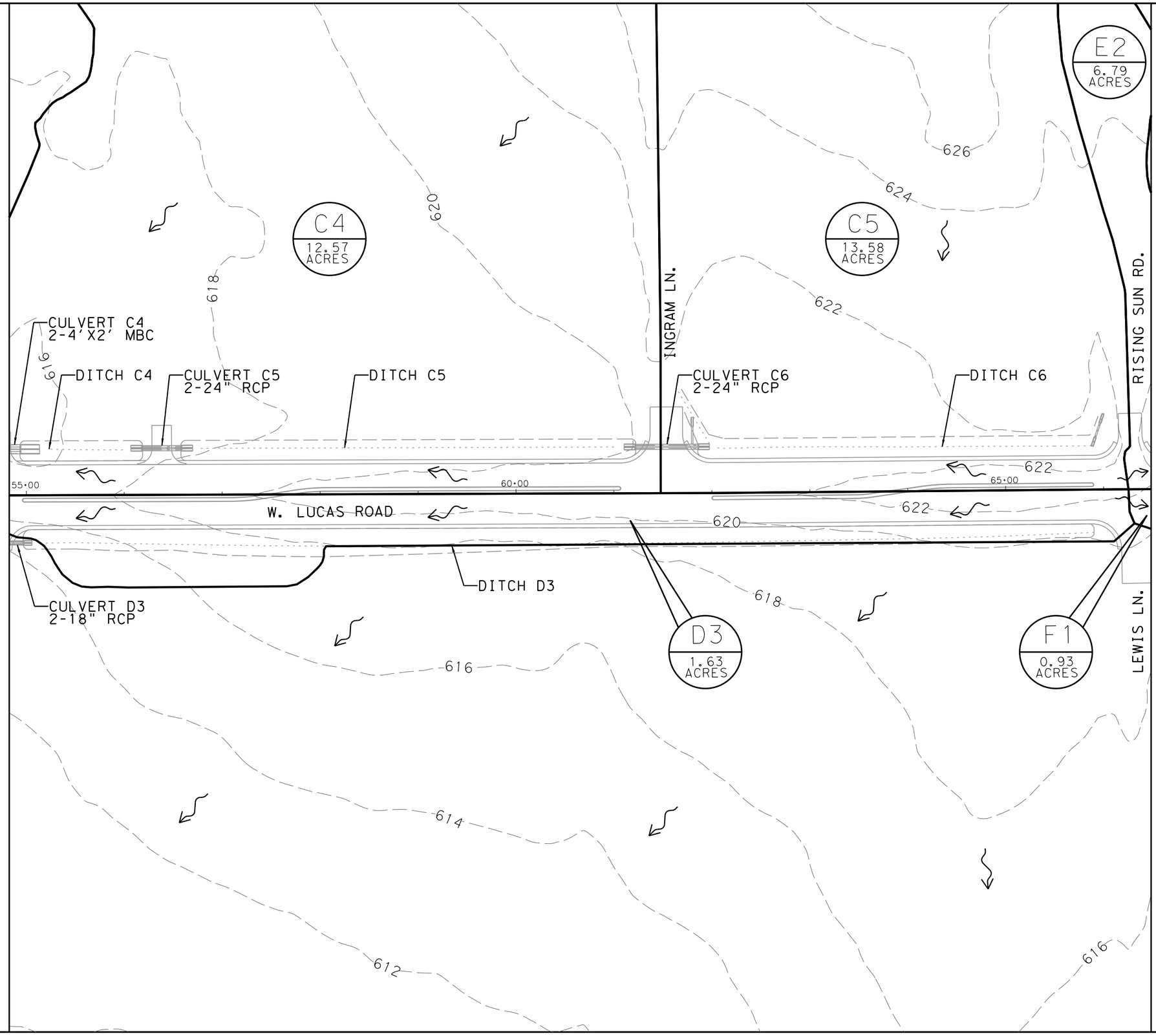
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	174
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:12 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA05.dgn



0 20 100
FEET

LEGEND

X#
XX.XX ACRES
DRAINAGE AREA
AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

IN-SITE DRAINAGE AREA MAP

SHEET 5 OF 8

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

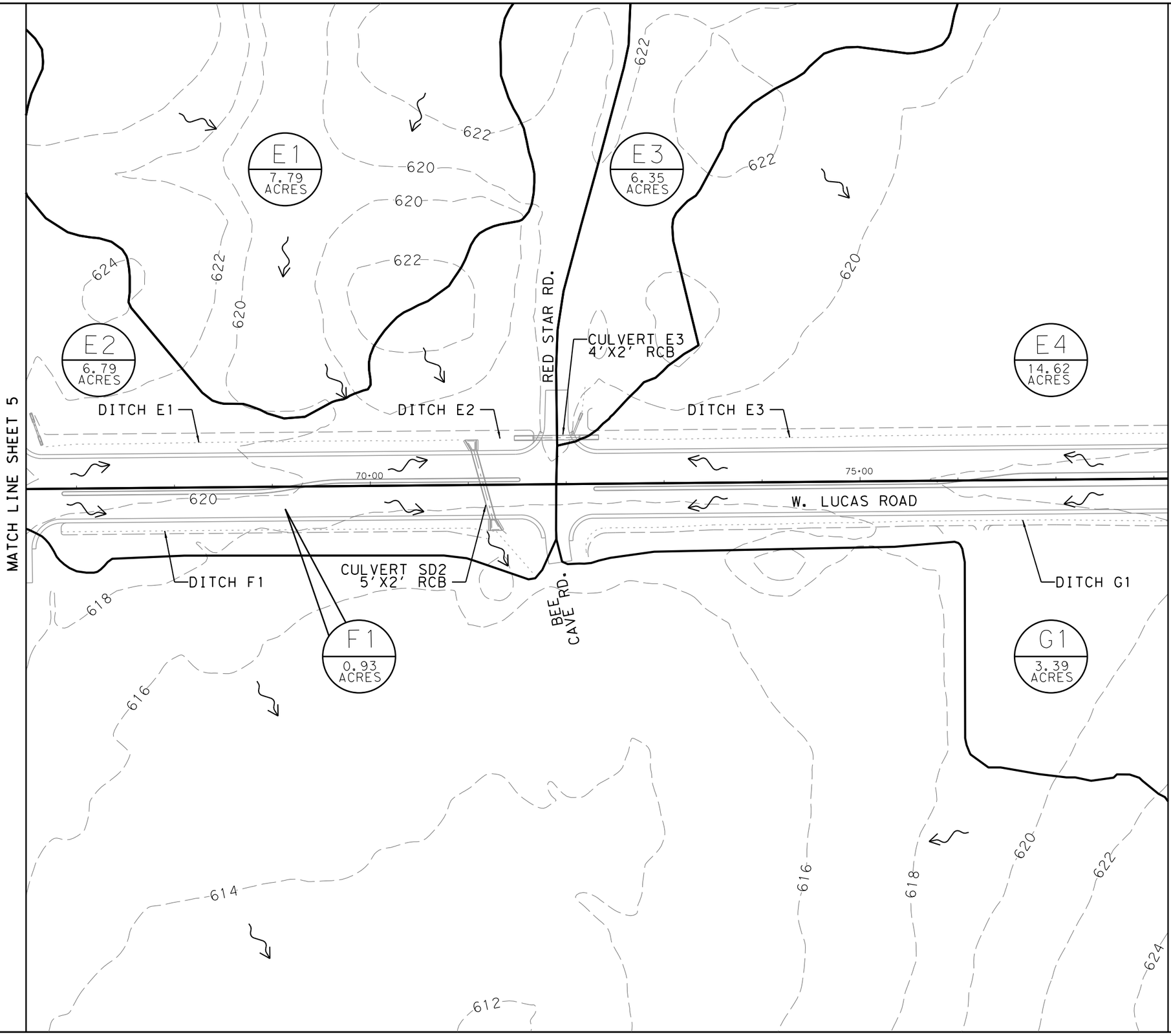
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	175
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:12 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA06.dgn

Texas811 Know what's below. Call before you dig.



N

0 20 100
FEET

LEGEND

X #
XX.XX ACRES
DRAINAGE AREA
AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

IN-SITE DRAINAGE AREA MAP

SHEET 6 OF 8

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

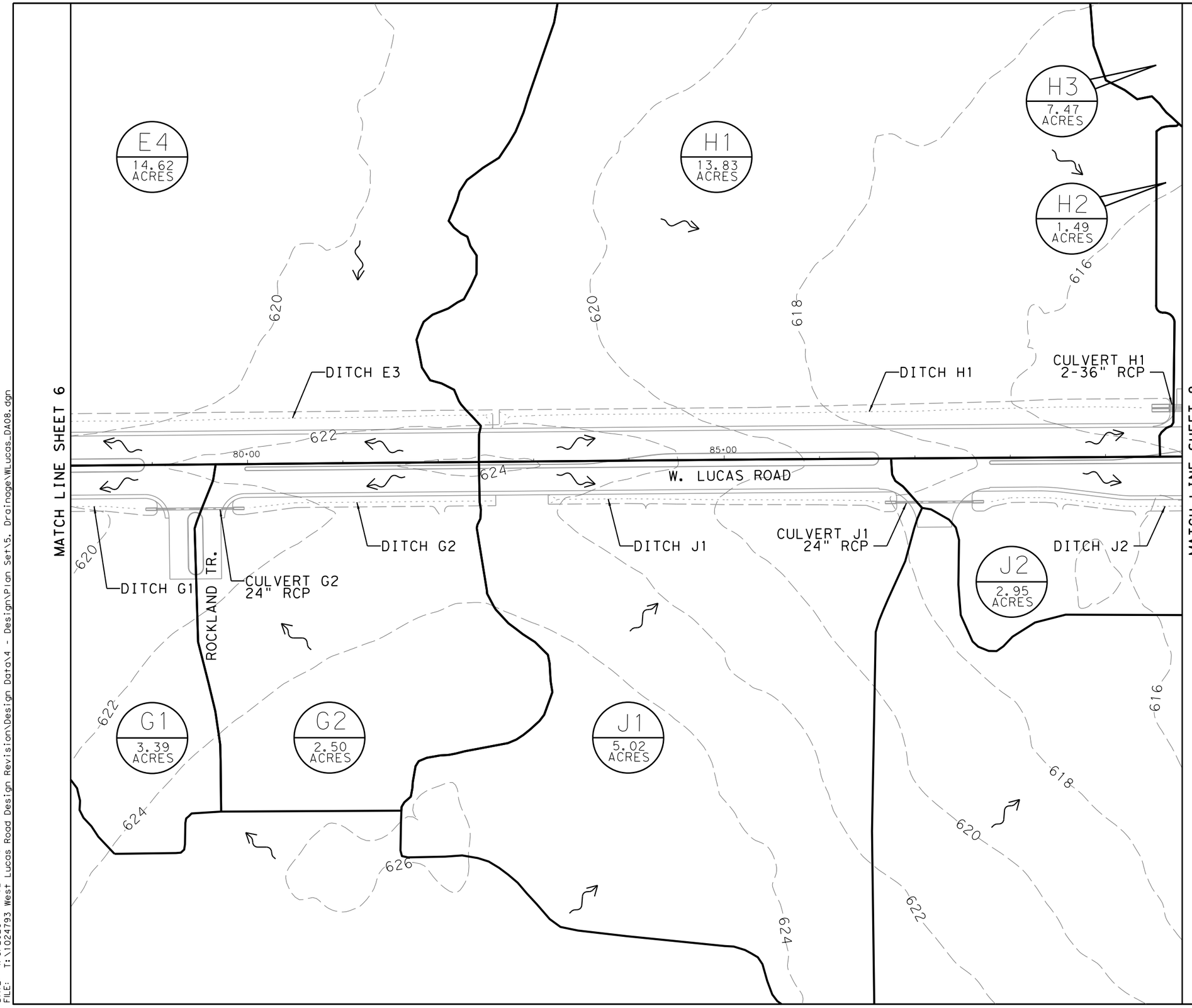
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	176
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:13 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA07.dgn



N

0 20 100

FEET

LEGEND

X#
XX.XX ACRES
DRAINAGE AREA
AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

IN-SITE DRAINAGE AREA MAP

SHEET 7 OF 8

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

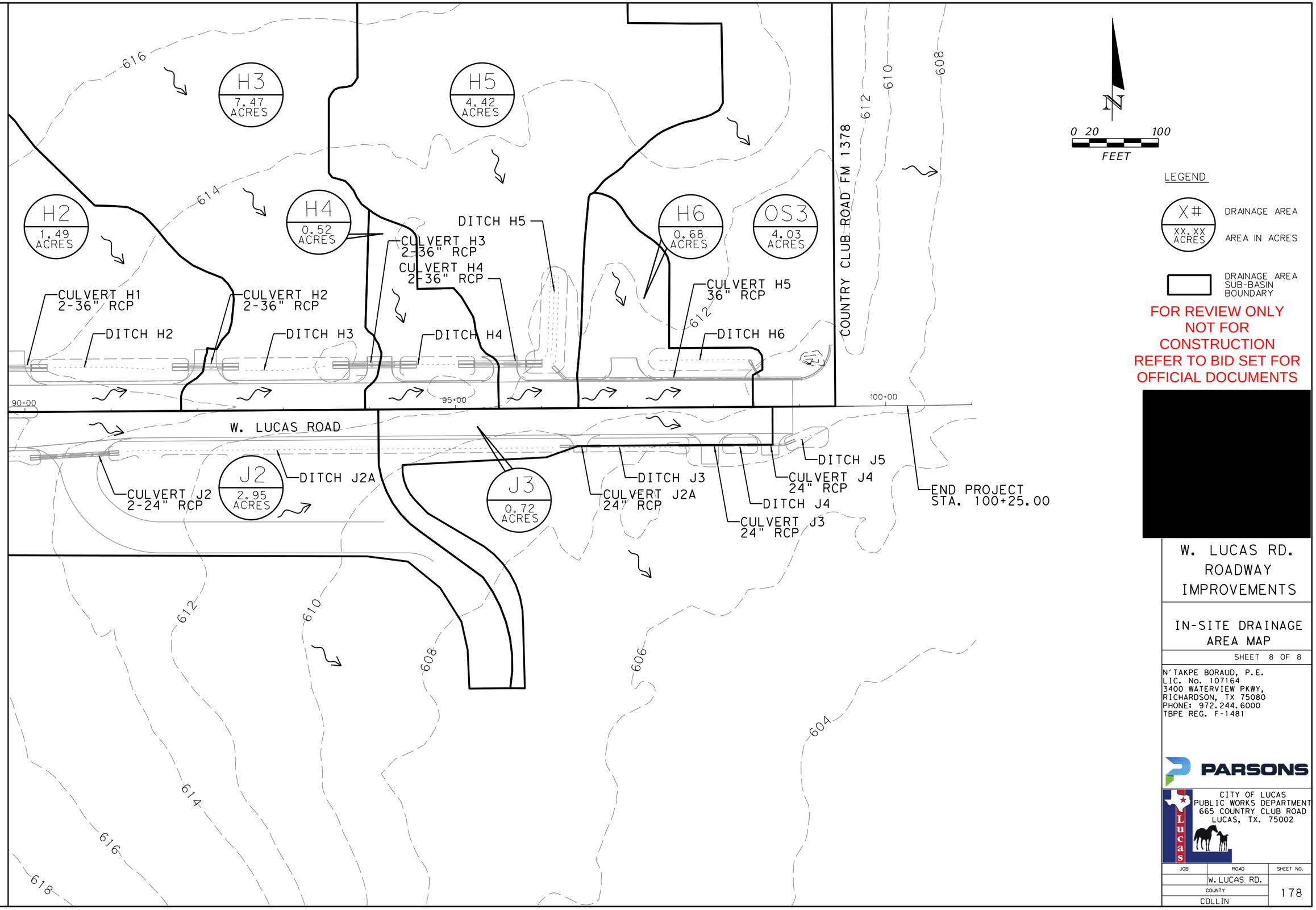
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	177
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:14 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA08.dgn



LEGEND

X#
XX.XX ACRES
DRAINAGE AREA
AREA IN ACRES

DRAINAGE AREA SUB-BASIN BOUNDARY

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

IN-SITE DRAINAGE AREA MAP

SHEET 8 OF 8

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

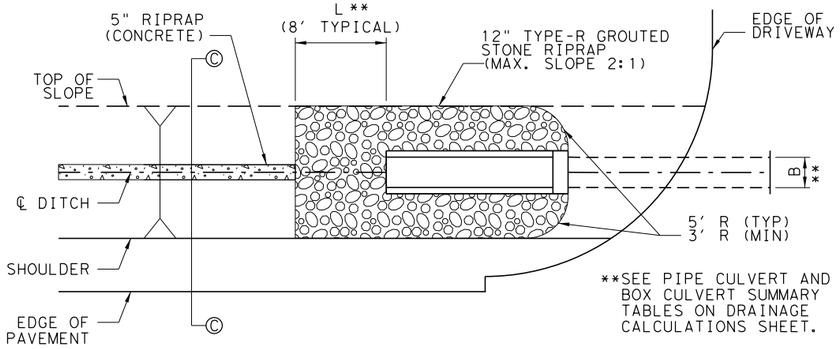
JOB	ROAD	SHEET NO.
	W. LUCAS RD.	178
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

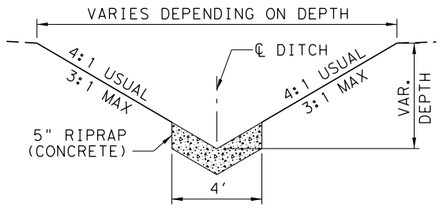
DATE: 4/6/2026 4:02:15 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DA09.dgn

NOTE:

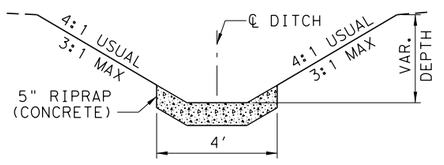
DITCH DEPTH VARIES. REFER TO ROADWAY PLAN & PROFILE SHEETS FOR DITCH ROFILES.



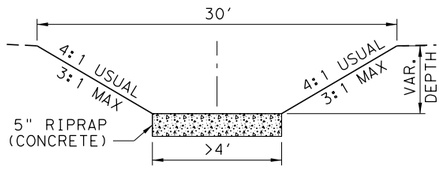
PLAN VIEW



TRIANGULAR DITCH
(SECTION C-C)

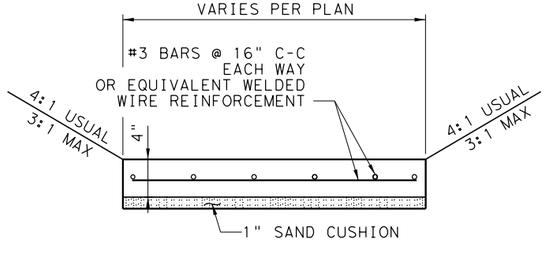


TRAPEZOIDAL DITCH
(< 4' BOTTOM)
(SECTION C-C)

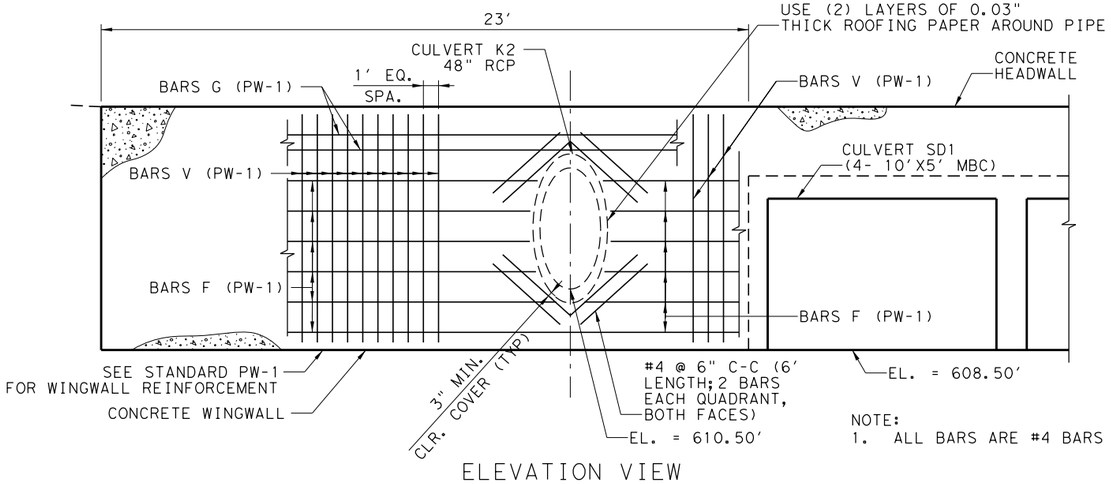


TRAPEZOIDAL DITCH
(≥ 4' BOTTOM)
(SECTION C-C)

CONCRETE RIPRAP DETAIL

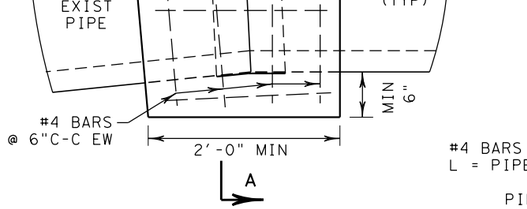


4" RIPRAP (CONC.)



ELEVATION VIEW

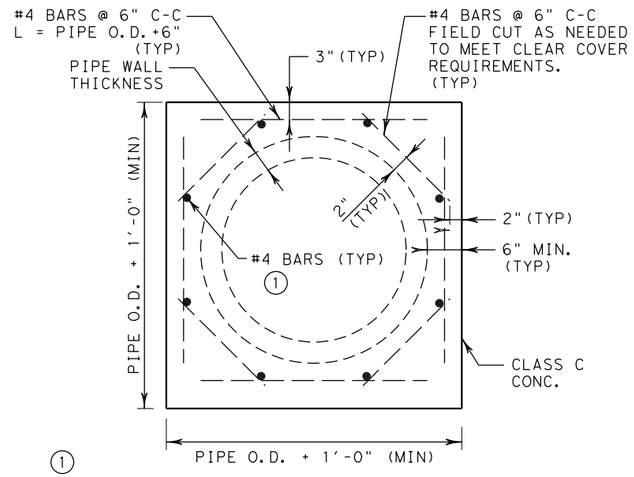
48 IN RCP & WINGWALL CONNECTION DETAIL



PLAN VIEW

PIPE COLLAR GENERAL NOTES

1. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE A SMOOTH JOINT ALONG THE INSIDE WALL OF PIPE.
2. ANY SPILLAGE OF CONCRETE THROUGH THE JOINT SHALL BE REMOVED AND THE INSIDE PIPE SURFACES SMOOTHED AS DIRECTED BY THE ENGINEER.
3. PIPE COLLARS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 464.



SECTION A-A

PIPE COLLAR DETAIL

FOR HORIZONTAL OR VERTICAL PLACEMENT

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

DRAWING NOT TO SCALE

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRAINAGE DETAILS

SHEET 1 OF 1

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

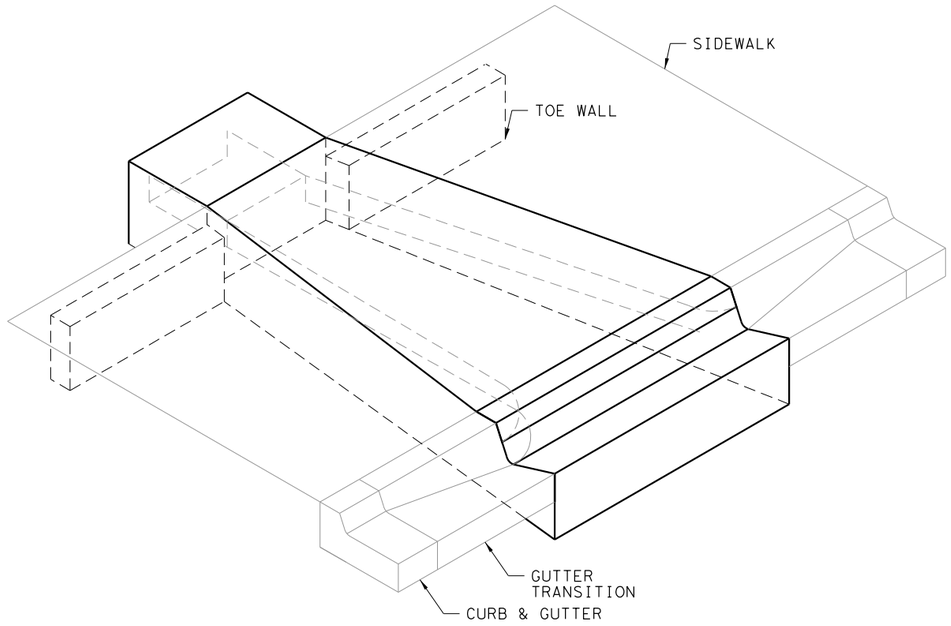
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	179
COUNTY		
COLLIN		

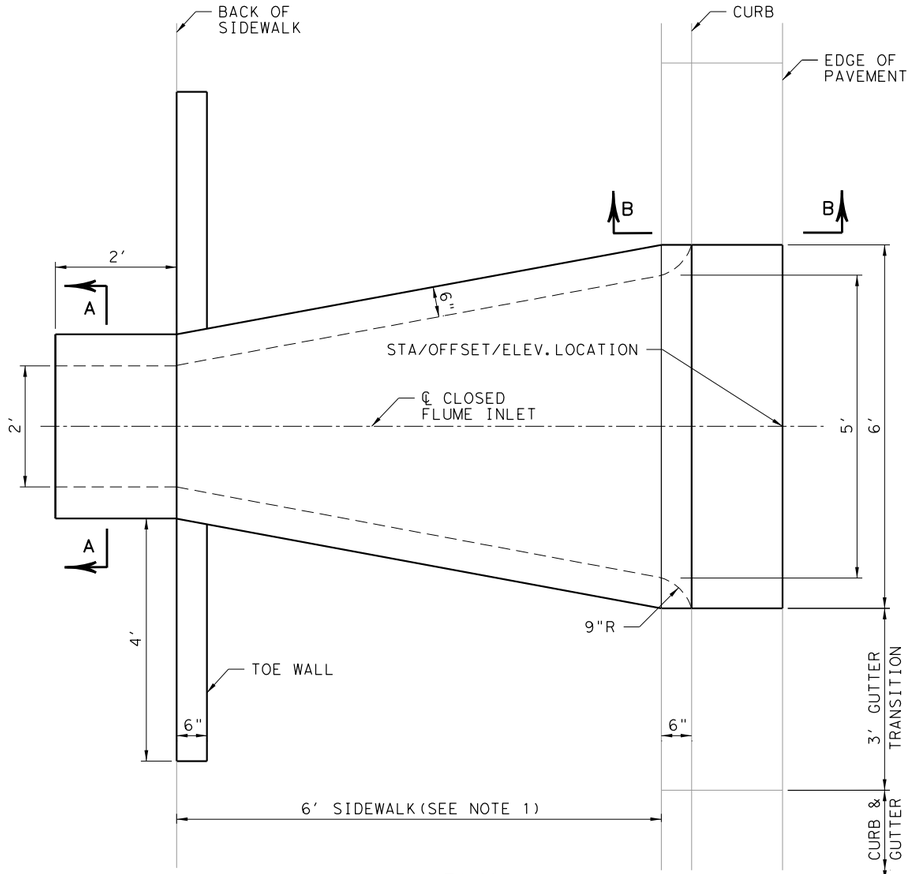
Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:16 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DR_MISC_Details_01.dgn

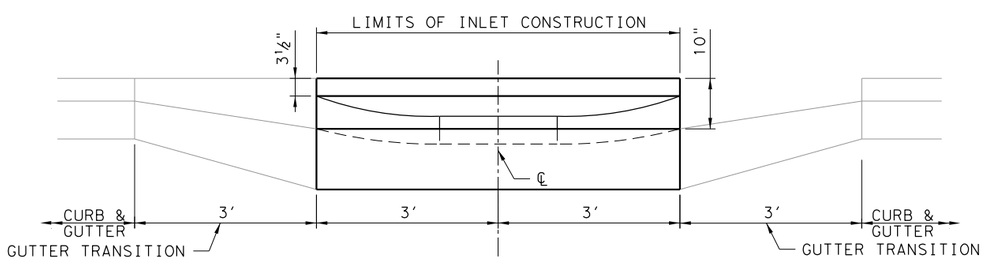


TYPE I CLOSED FLUME INLET WITH SIDEWALK

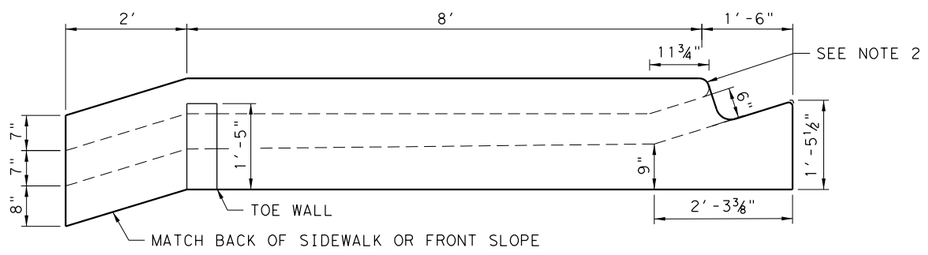
SINGLE BARREL FLUME SHOWN



PLAN



FRONT ELEVATION



SIDE ELEVATION

NOTES:

1. USE SLOPED SECTION WITH SIDEWALK APPLICATION ONLY.
2. SLOPE TO MATCH ADJACENT CURB WITH 2" TOP RADIUS AND 1¼" BOTTOM RADIUS.
3. THE FINISHED GRADE AND SLOPE OF THE INLET TOP ARE TO CONFORM WITH THE FINISHED CROSS SLOPE AND GRADE OF THE PROPOSED SIDEWALK AND/OR BORDER.
4. WHEN INLETS ARE TO BE CONSTRUCTED ON A CURVE, REFER TO THE PLANS TO DETERMINE THE RADIUS. BEND STEEL WHEN NECESSARY.
5. INLETS CAN BE EITHER CAST-IN PLACE OR PRECAST CONCRETE. CHAMFER ALL EXPOSED EDGES ¾".
6. ALL REINFORCEMENT IS ASTM A615/A615M GRADE 60 STEEL, EITHER SMOOTH OR DEFORMED WITH A 2" MINIMUM COVER, UNLESS OTHERWISE SHOWN. EQUIVALENT AREA GRADE 40 STEEL OR 65 KSI WELDED WIRE FABRIC MAY BE SUBSTITUTED.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

CLOSED FLUME INLET DETAILS

SHEET 1 OF 2

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

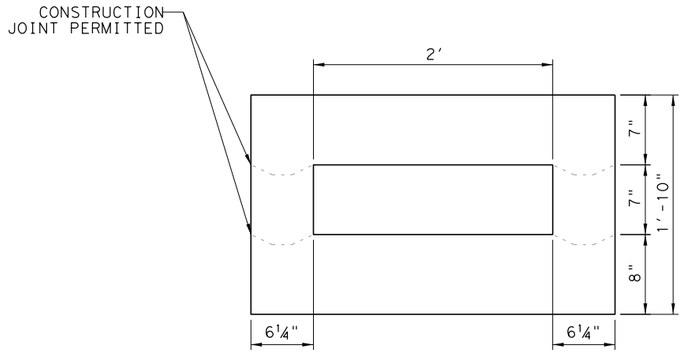
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		180
COLLIN		

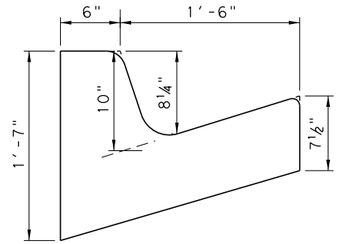
TYPE I DIMENSION DETAILS

Texas 811 Know what's below. Call before you dig.

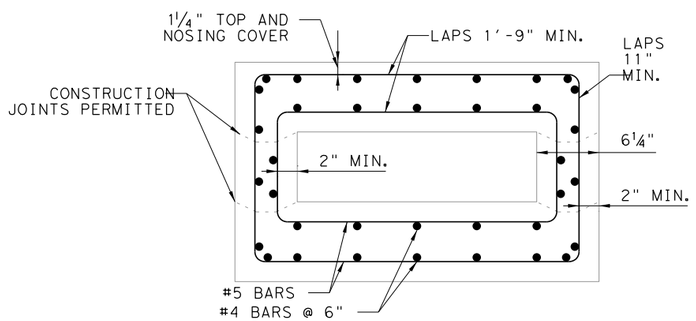
DATE: 4/6/2026 4:02:16 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DR_CFI_DETAILS_01.dgn



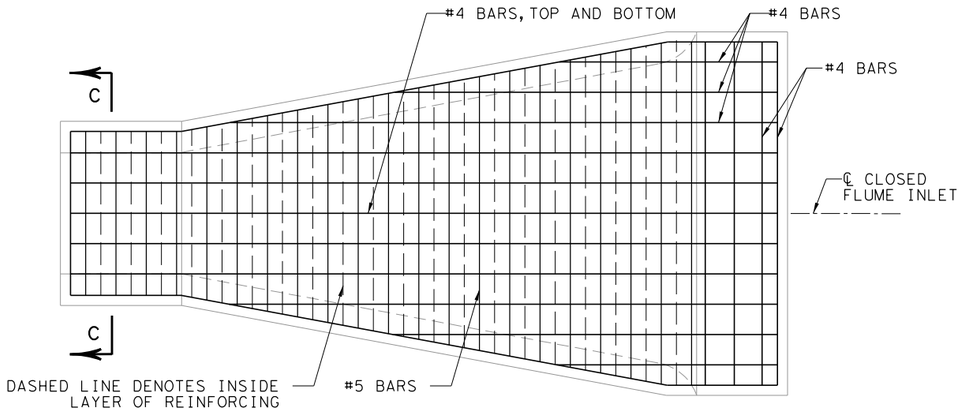
SECTION A-A



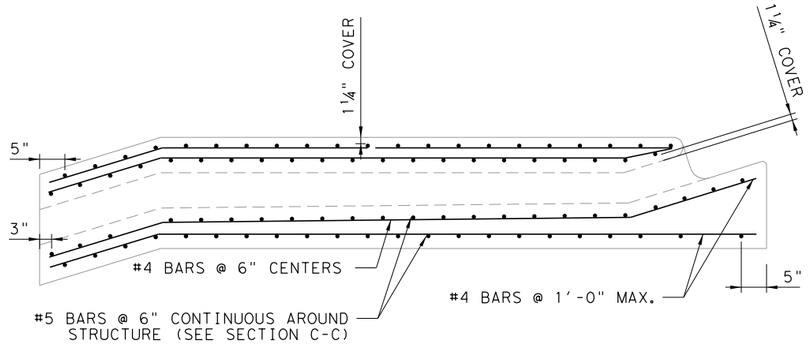
SECTION B-B



SECTION C-C



PLAN



SIDE ELEVATION

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

CLOSED FLUME
INLET DETAILS

SHEET 2 OF 2

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

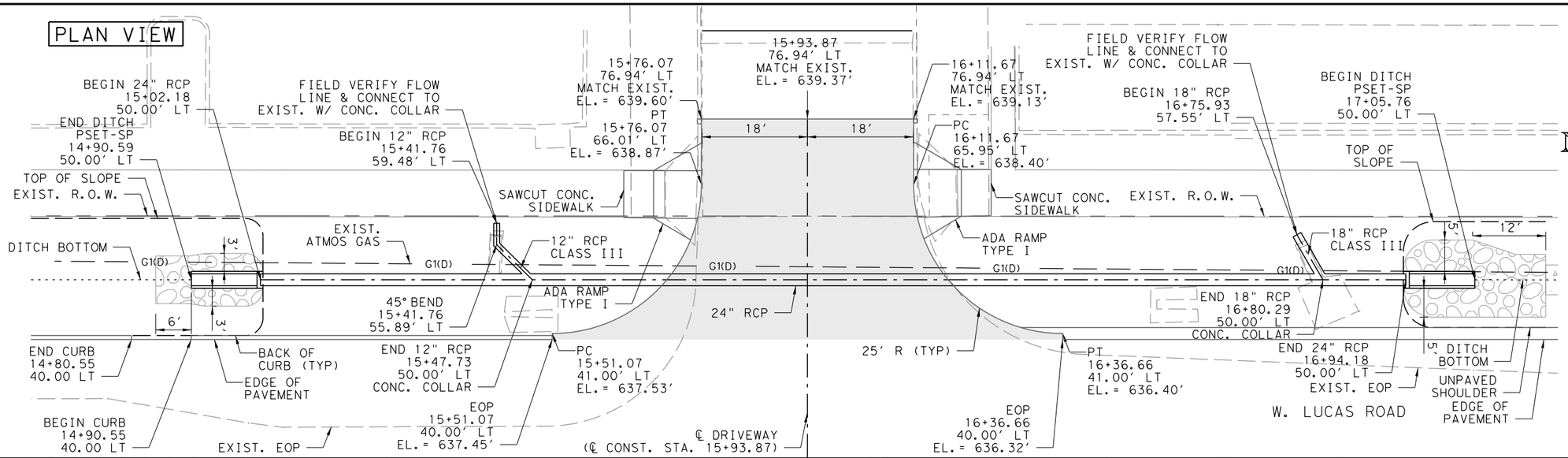
JOB	ROAD	SHEET NO.
	W. LUCAS RD.	181
COUNTY		
COLLIN		

REINFORCING DETAILS

Texas811
Know what's below.
Call before you dig.

DATE: 4/6/2026 4:02:17 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_DR_CFI_DETAILS_02.dgn

PLAN VIEW



LEGEND:

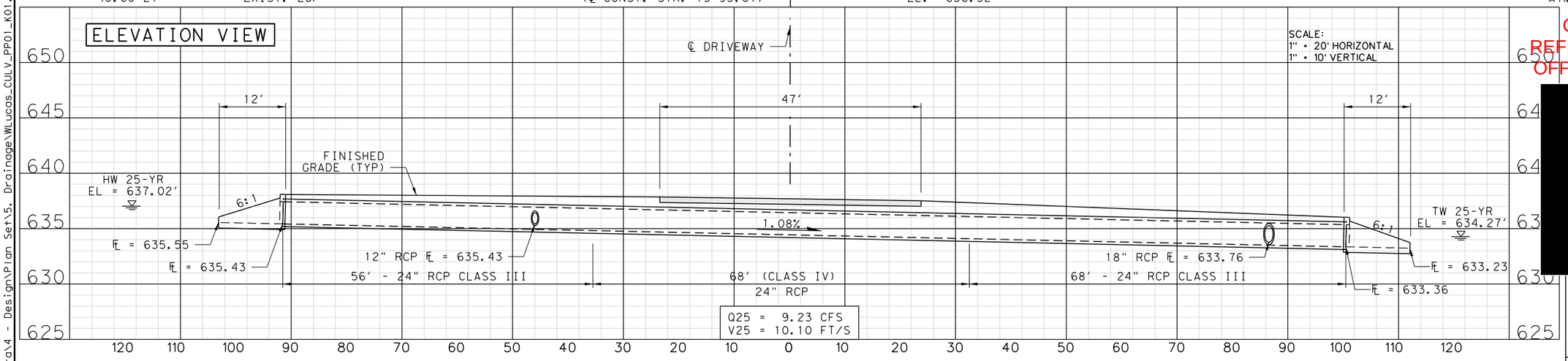
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.
5. CONTACT ATMOS 48 HOURS PRIOR TO WORKING NEAR ATMOS FACILITIES.

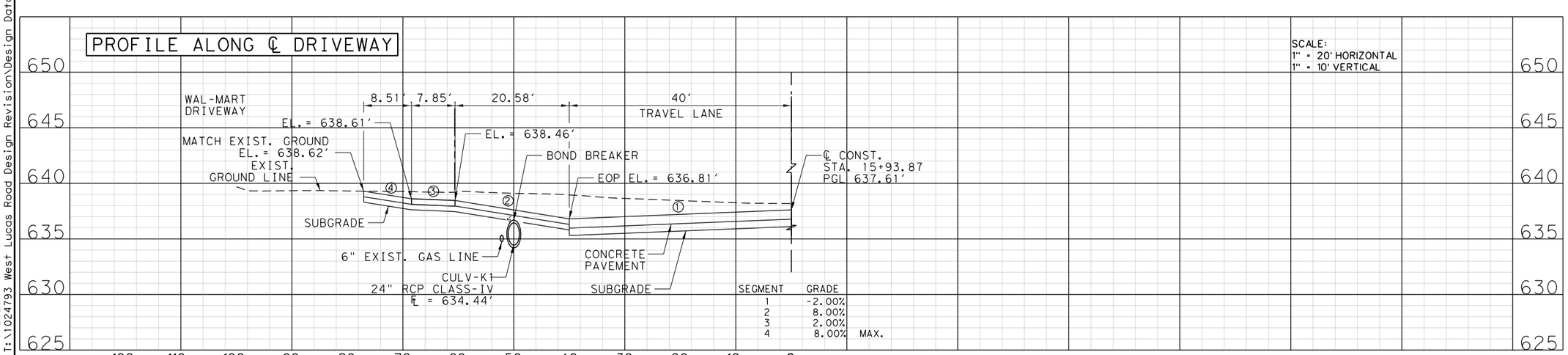
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

PROFILE ALONG ℄ DRIVEWAY



SEGMENT	GRADE
1	-2.00%
2	8.00%
3	2.00%
4	8.00% MAX.

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT K1

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 1 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

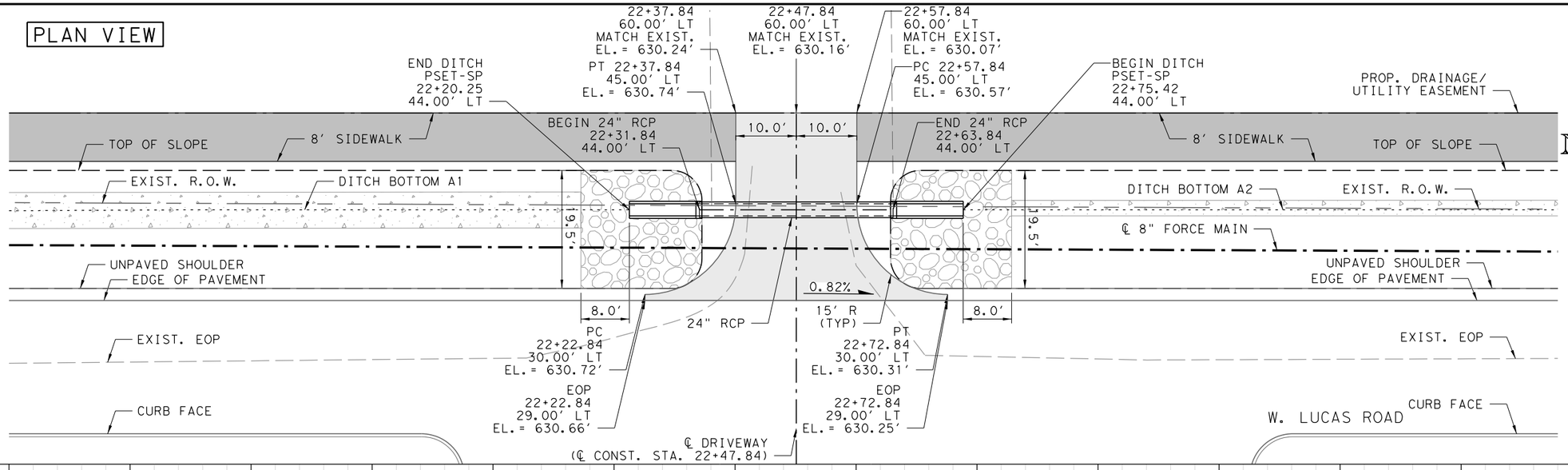
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		182
COLLIN		

DATE: 4/6/2026 4:02:19 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP01_K01.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

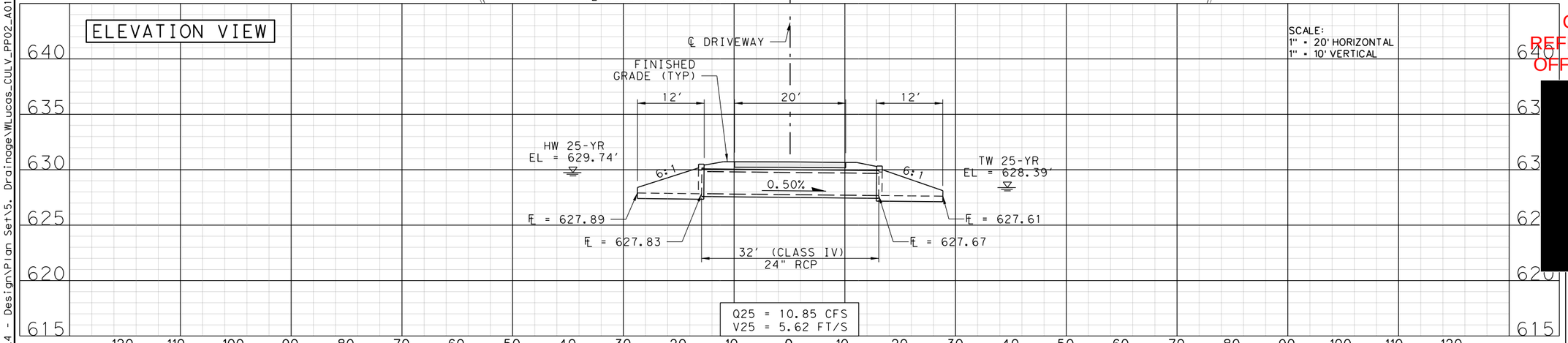
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

CULVERT A1

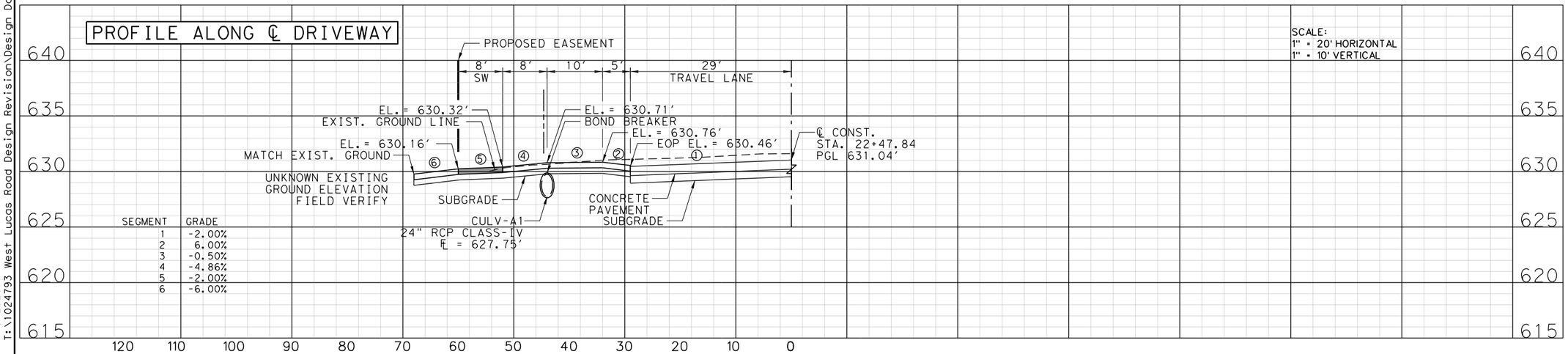
ELEVATION VIEW

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



PROFILE ALONG ℄ DRIVEWAY

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



SEGMENT	GRADE
1	-2.00%
2	6.00%
3	-0.50%
4	-4.86%
5	-2.00%
6	-6.00%

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 2 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

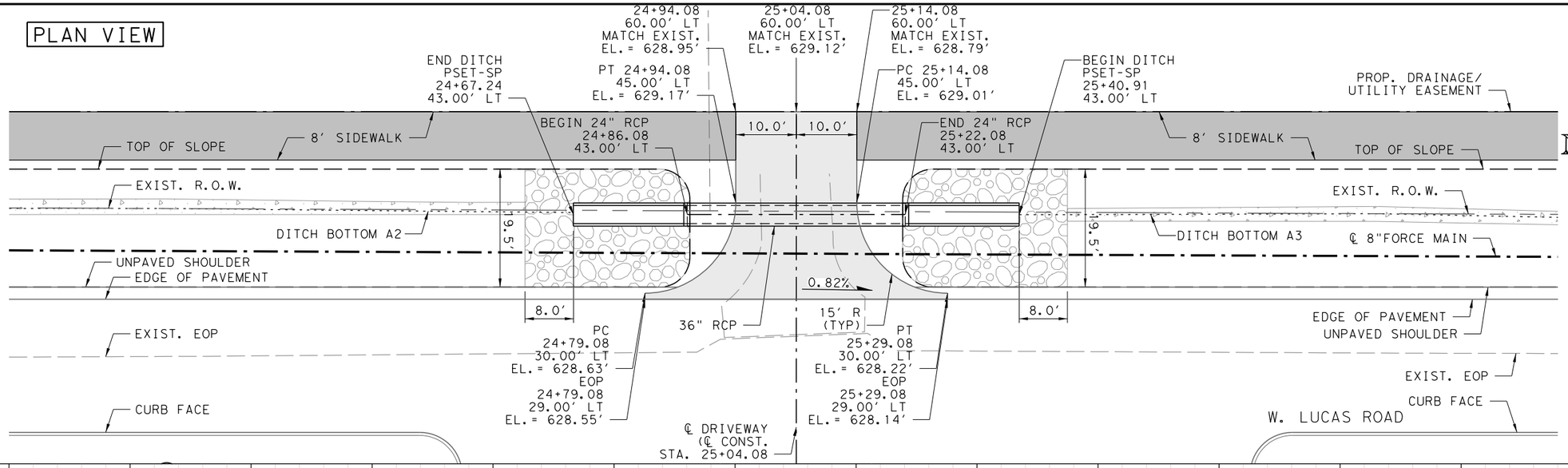
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	183
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:20 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP02_A01.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

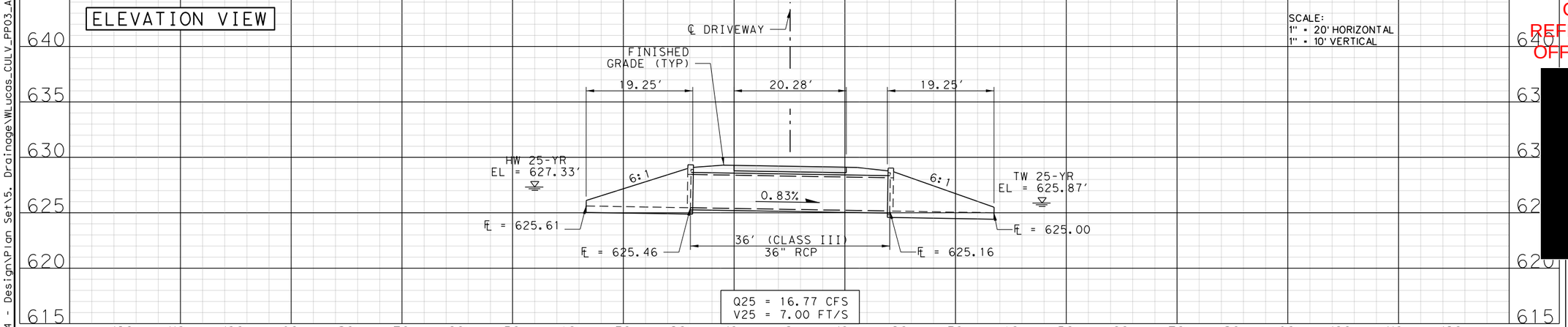
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

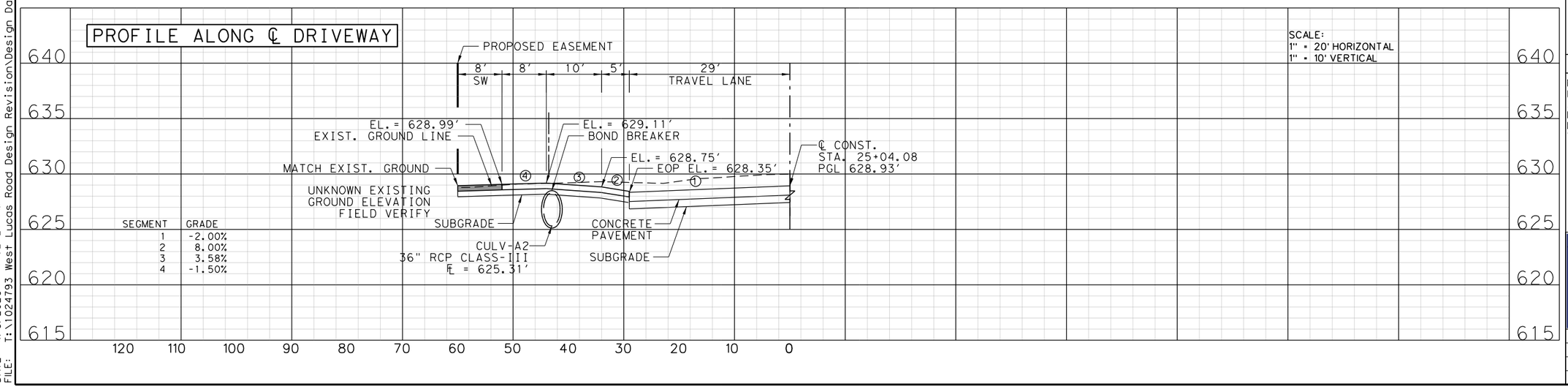
ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT A2

PROFILE ALONG ℄ DRIVEWAY



SEGMENT	GRADE
1	-2.00%
2	8.00%
3	3.58%
4	-1.50%

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

DATE: 4/6/2026 4:02:21 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP03_A02.dgn

Texas 811 Know what's below. Call before you dig.

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 3 OF 30

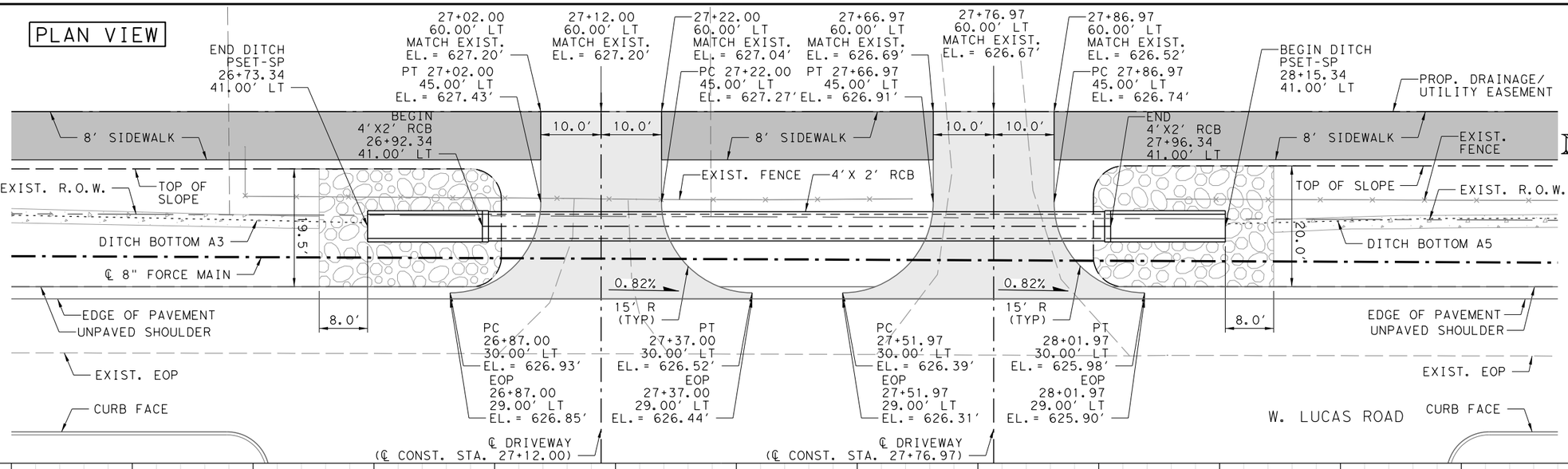
N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		184
COLLIN		

PLAN VIEW



LEGEND:

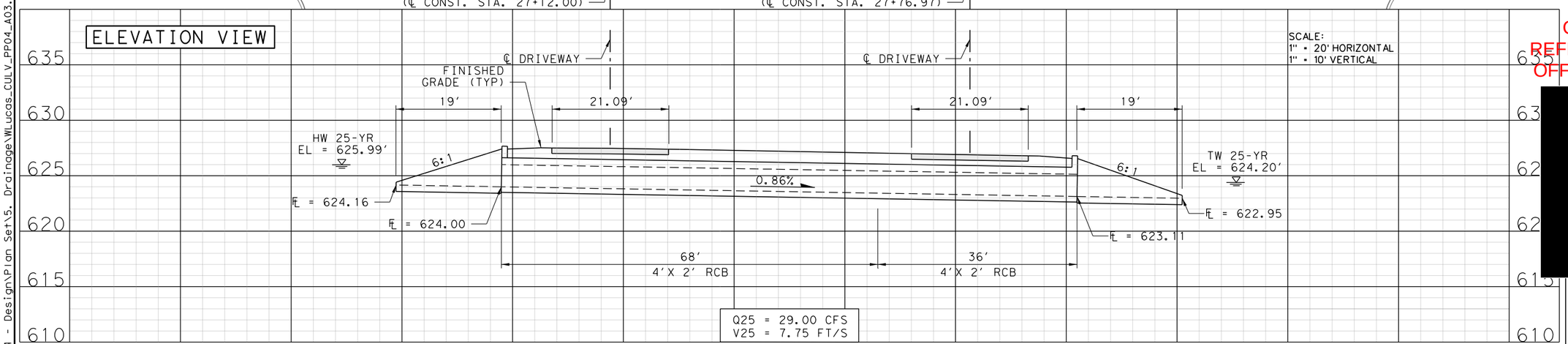
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

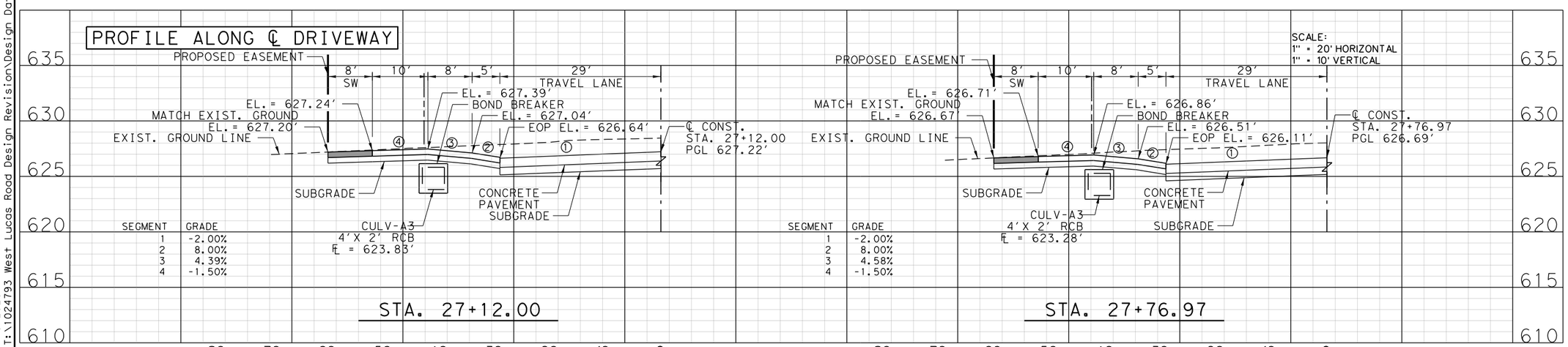
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



CULVERT A3

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 4 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

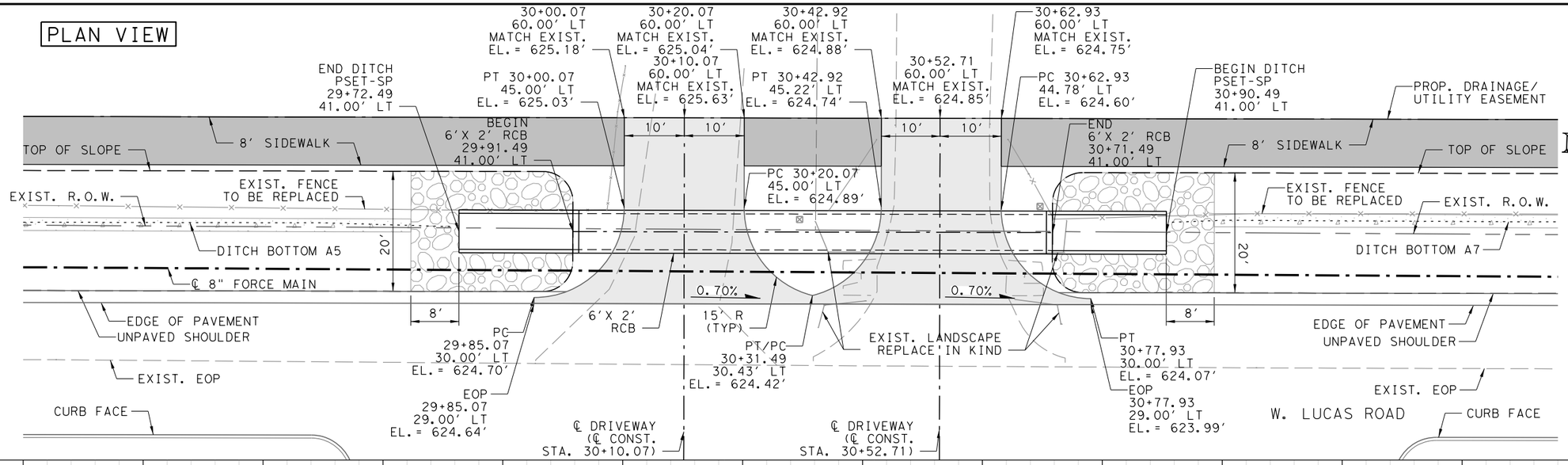
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		185
COLLIN		

DATE: 4/6/2026 4:02:22 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP04_A03.dgn

Texas 811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

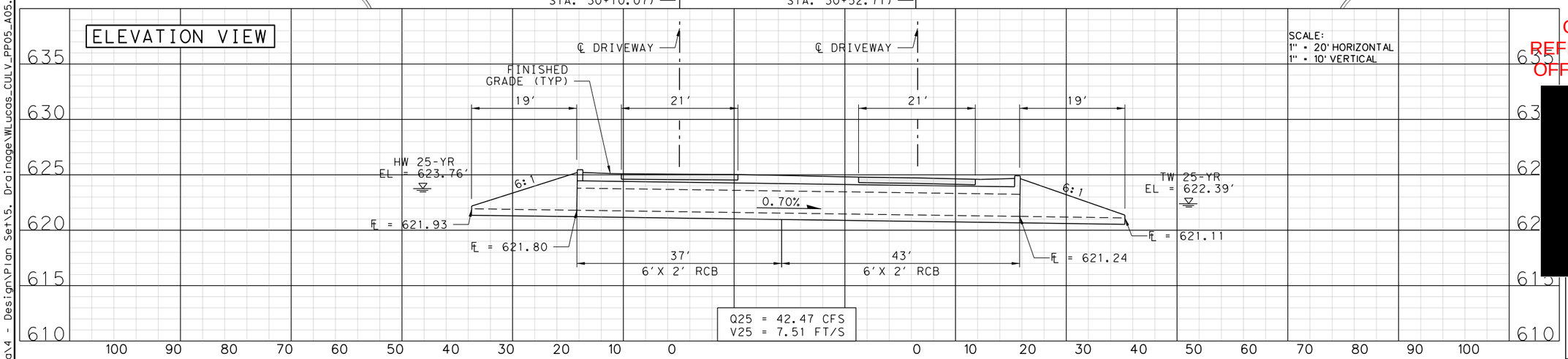
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

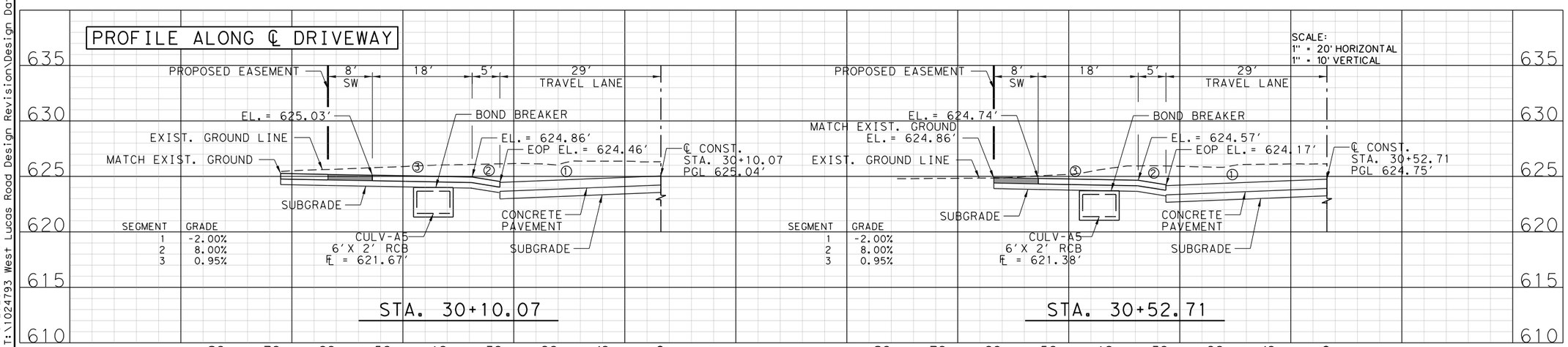
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



CULVERT A5

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 5 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

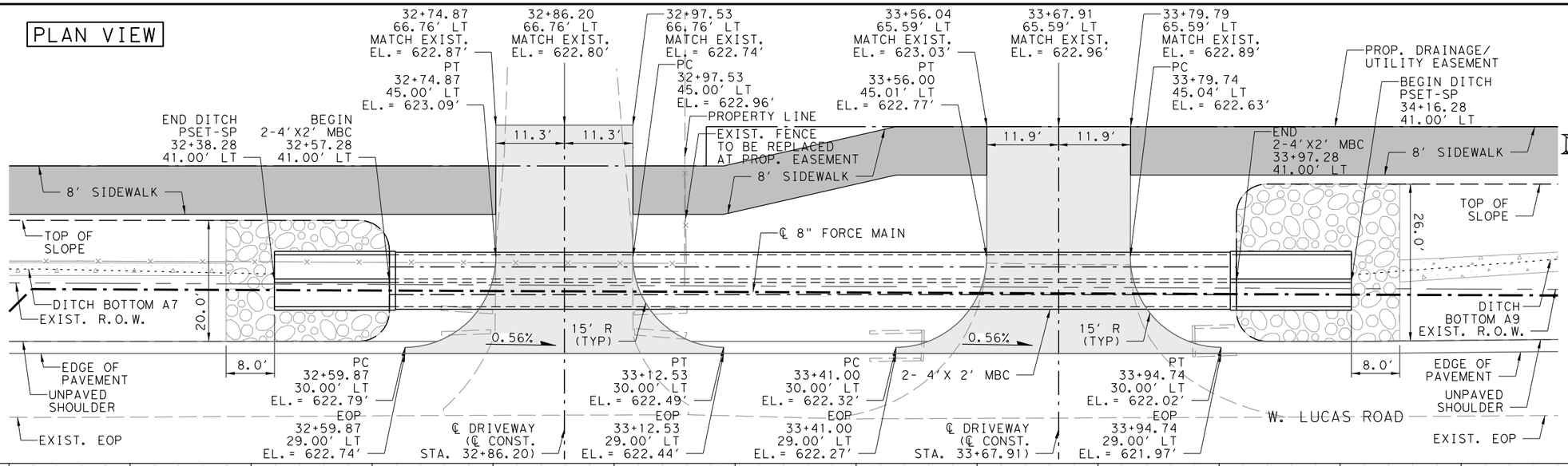
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		186
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:02:23 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP05_A05.dgn

PLAN VIEW



LEGEND:

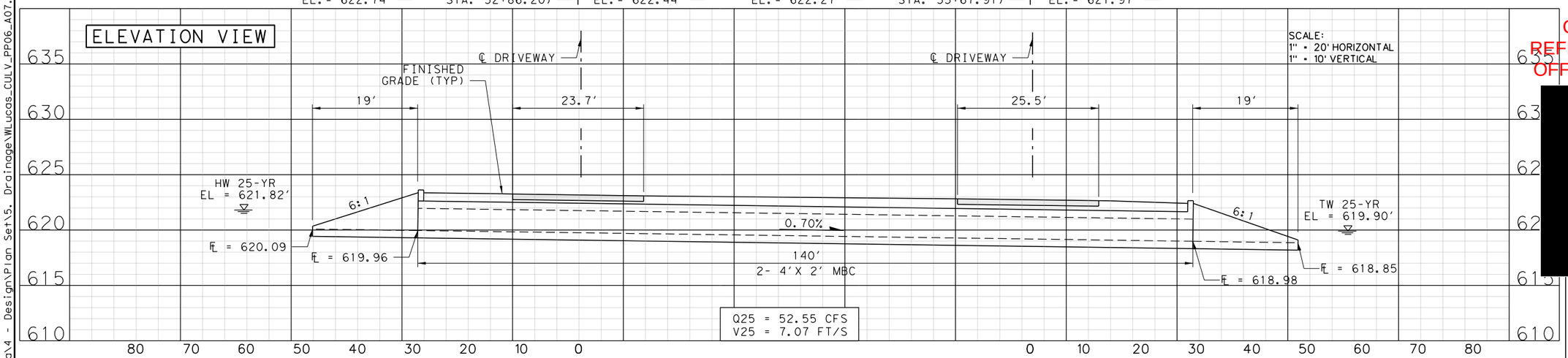
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

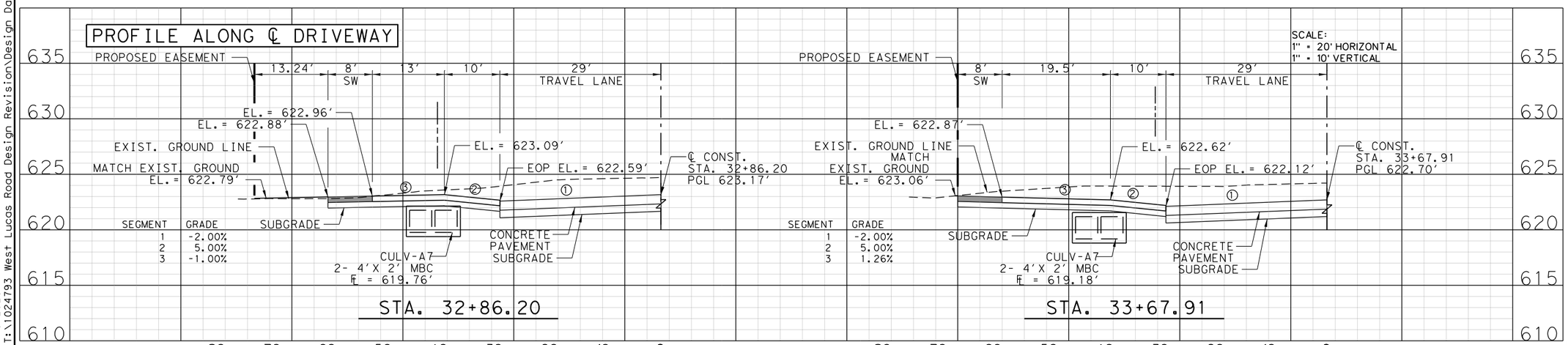
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



CULVERT A7

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 6 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

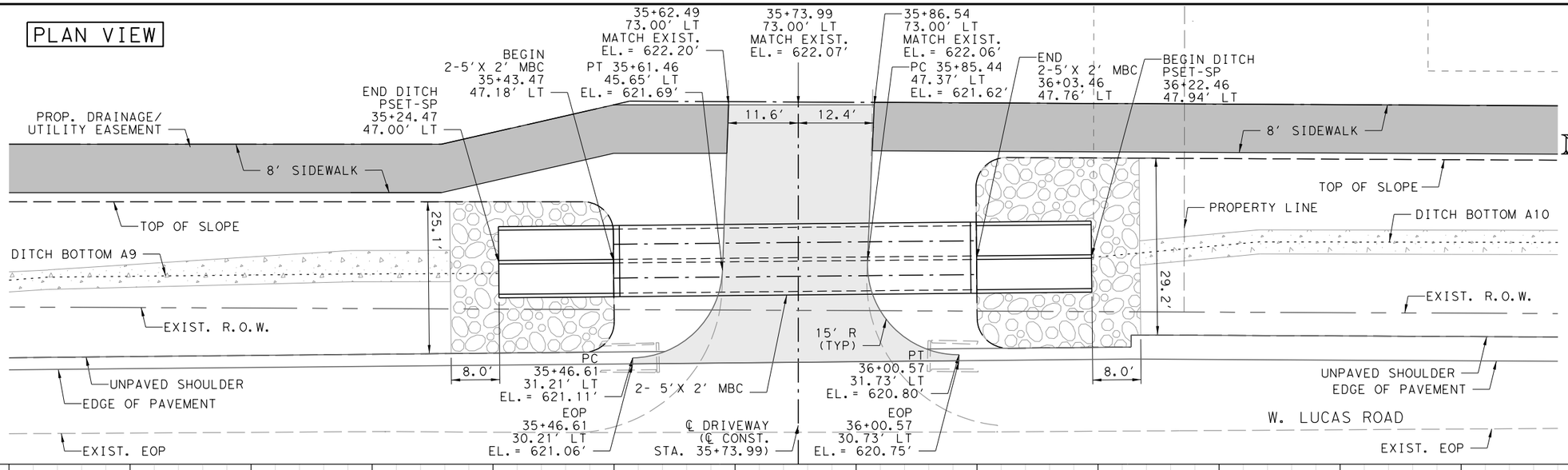
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		187
COLLIN		

DATE: 4/6/2026 4:02:24 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP06_A07.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



LEGEND:

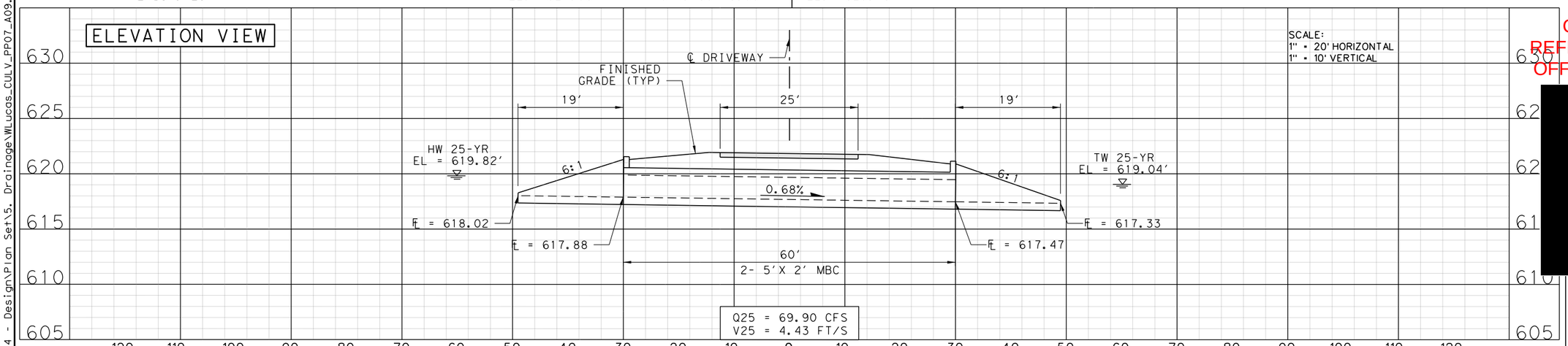
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

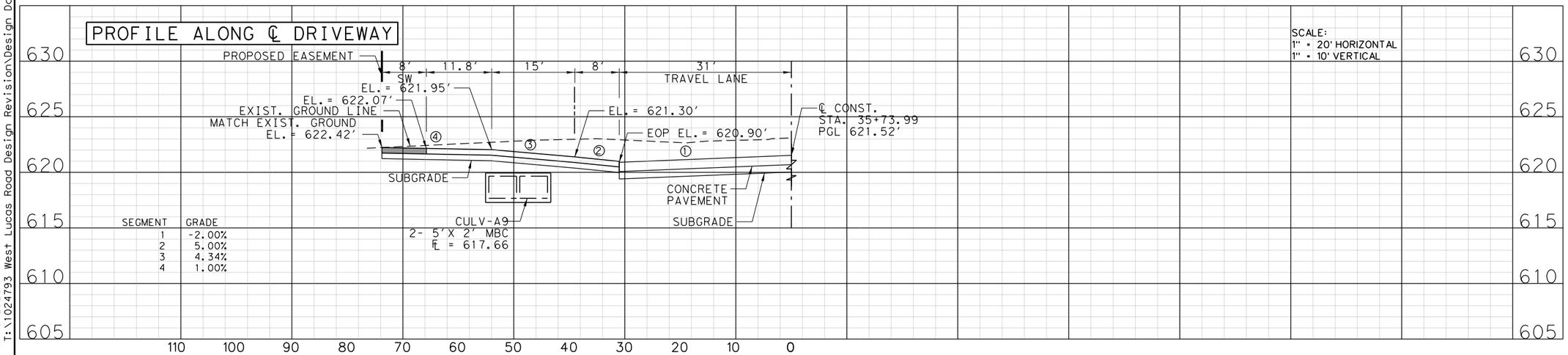
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



SEGMENT	GRADE
1	-2.00%
2	5.00%
3	4.34%
4	1.00%

CULVERT A9

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 7 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

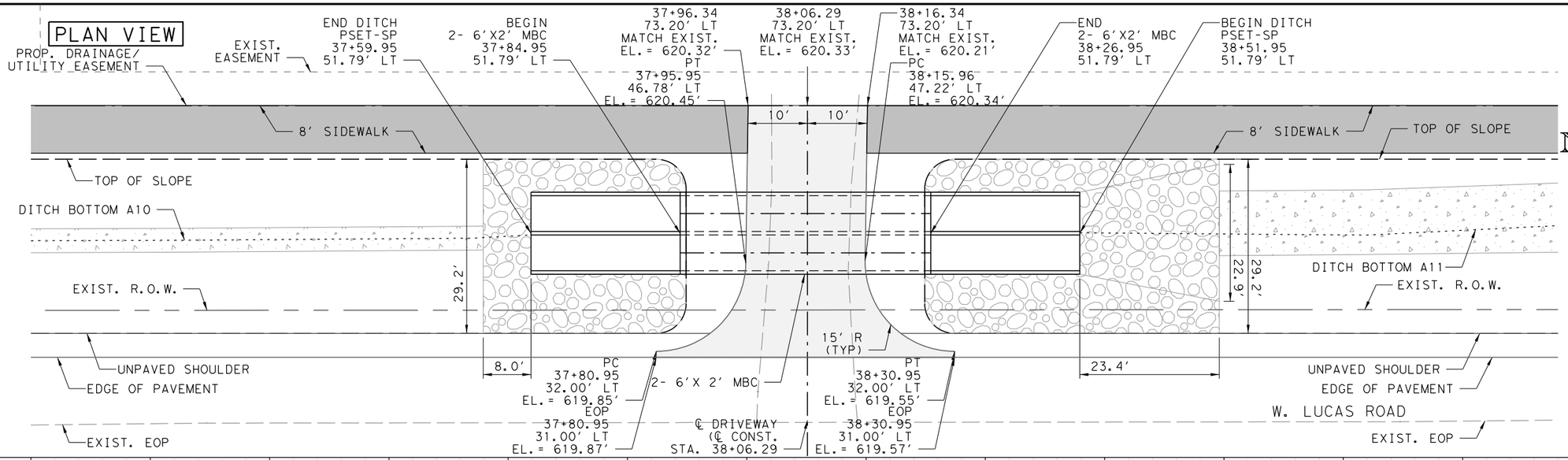
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		188
COLLIN		

DATE: 4/6/2026 4:02:25 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP07_A09.dgn

Texas 811 Know what's below. Call! before you dig.

PLAN VIEW



LEGEND:

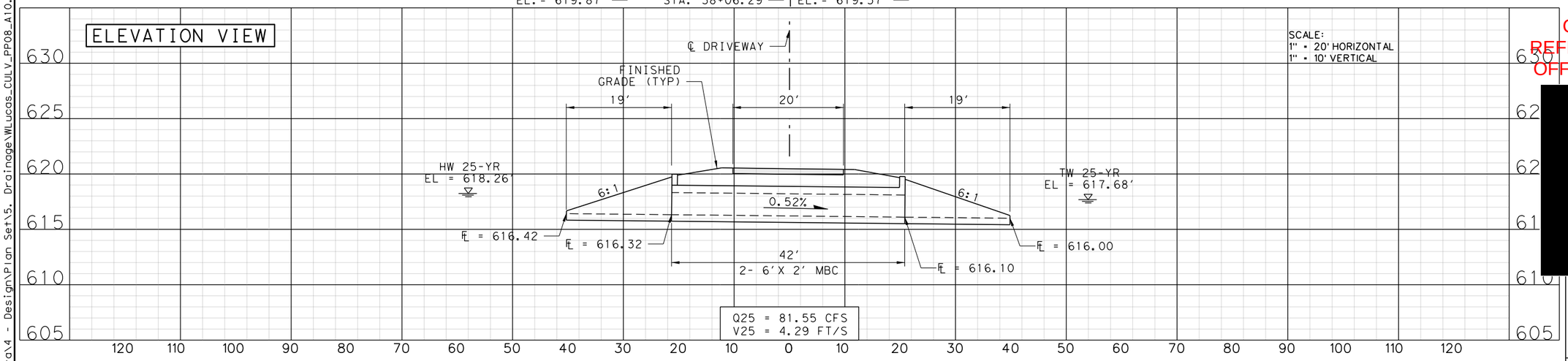
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

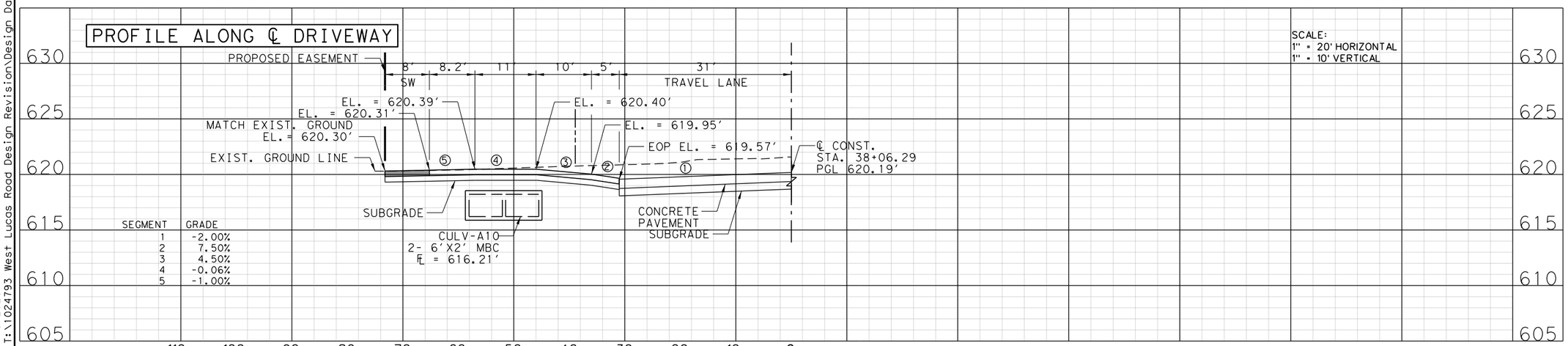
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

PROFILE ALONG ℄ DRIVEWAY



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT A10

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 8 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

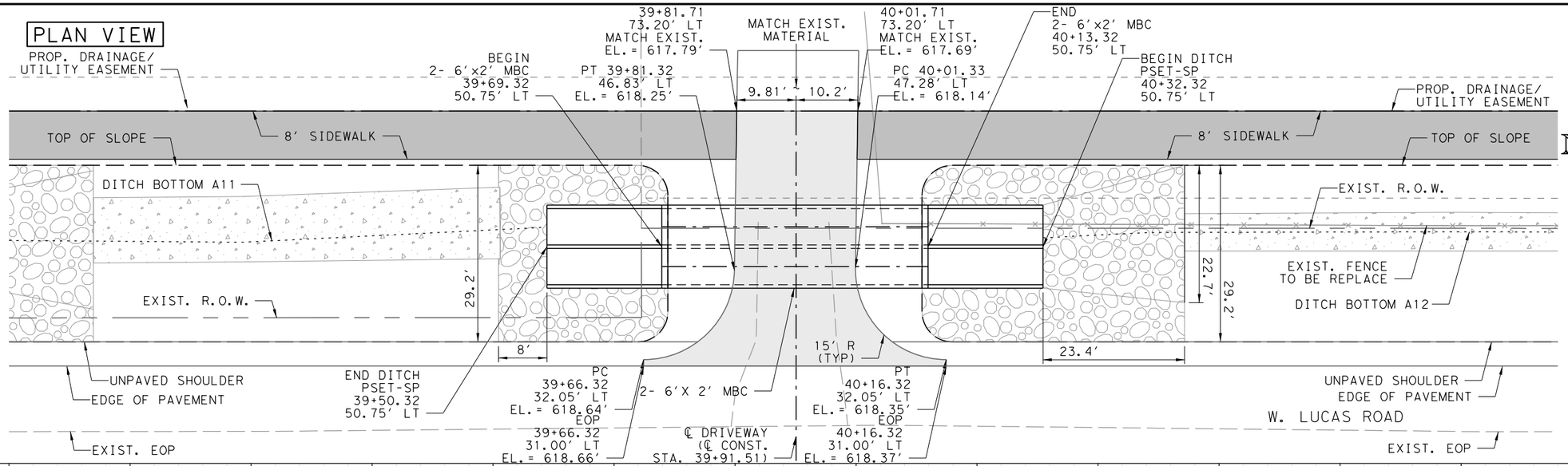
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		189
COLLIN		

DATE: 4/6/2026 4:02:26 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP08_A10.dgn

Texas 811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

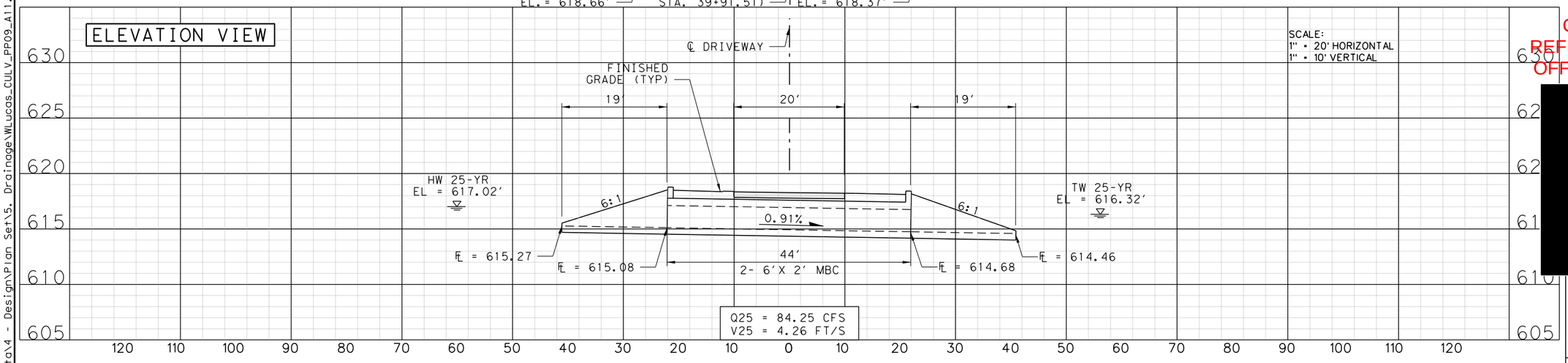
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

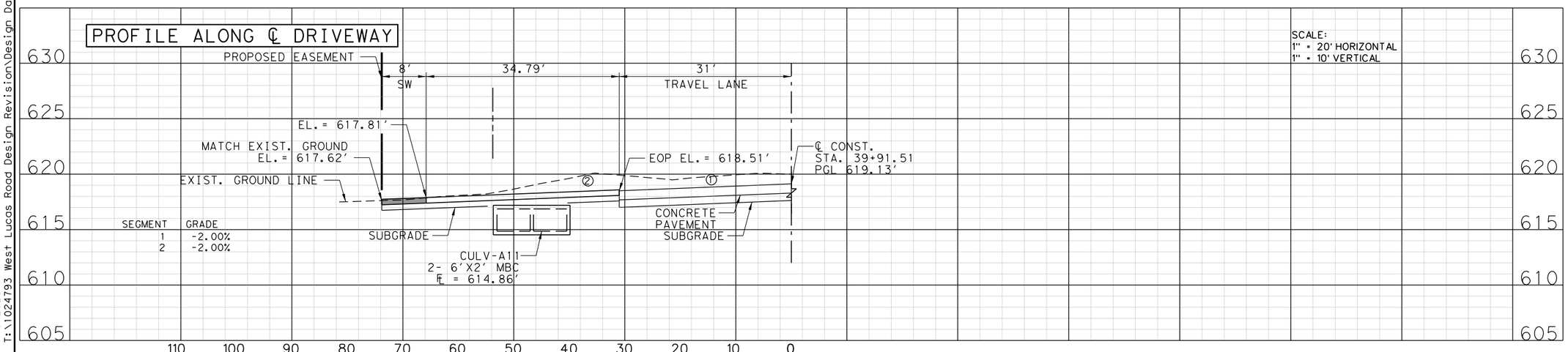
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



CULVERT A11

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 9 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

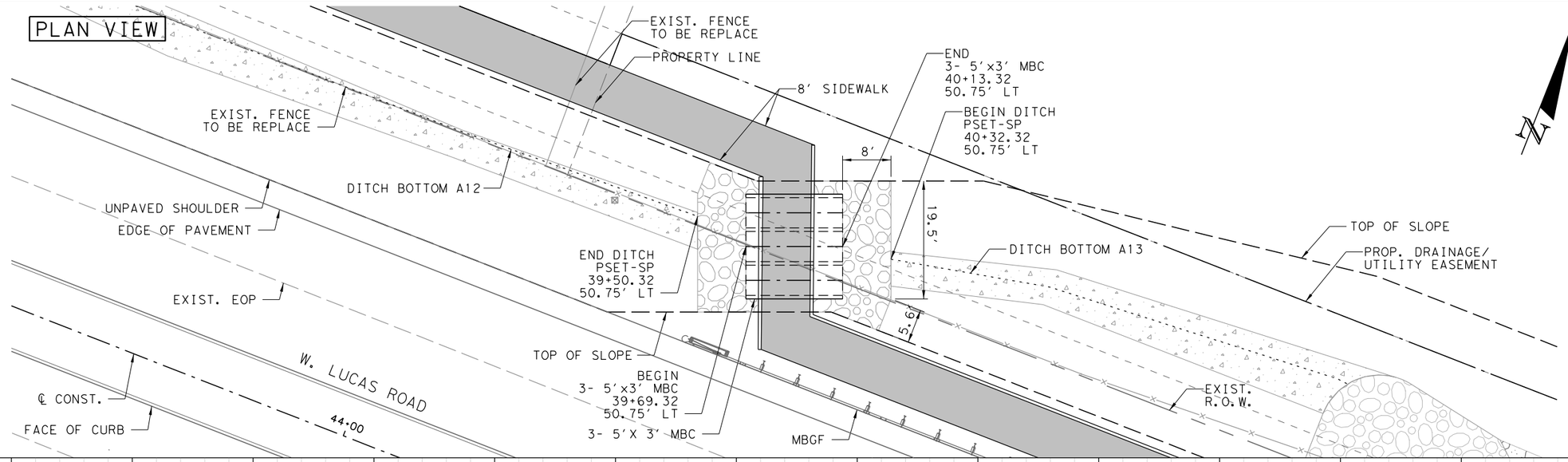
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	190
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:27 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP09_A11.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

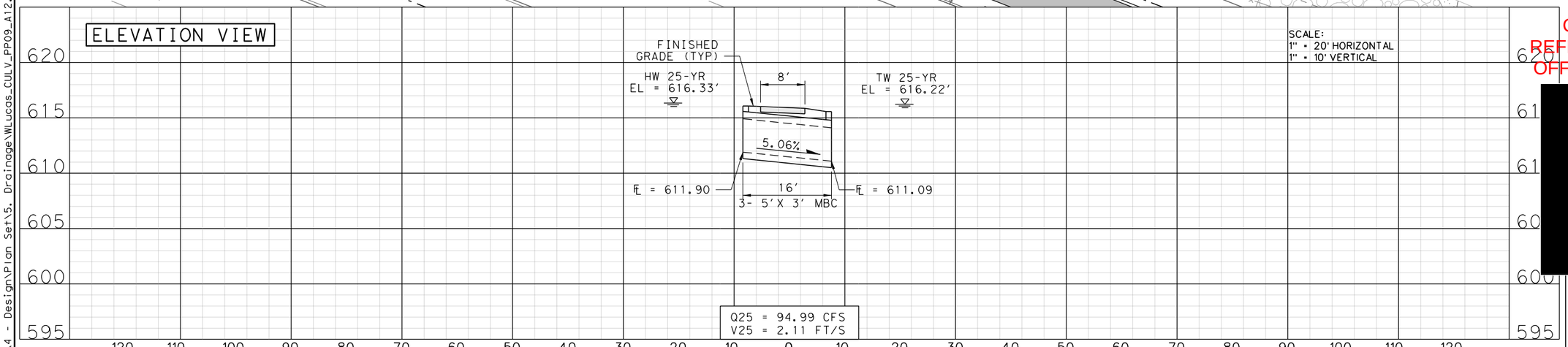
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



Q25 = 94.99 CFS
V25 = 2.11 FT/S

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

PROFILE ALONG ℄ DRIVEWAY

CULVERT A12

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 9 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

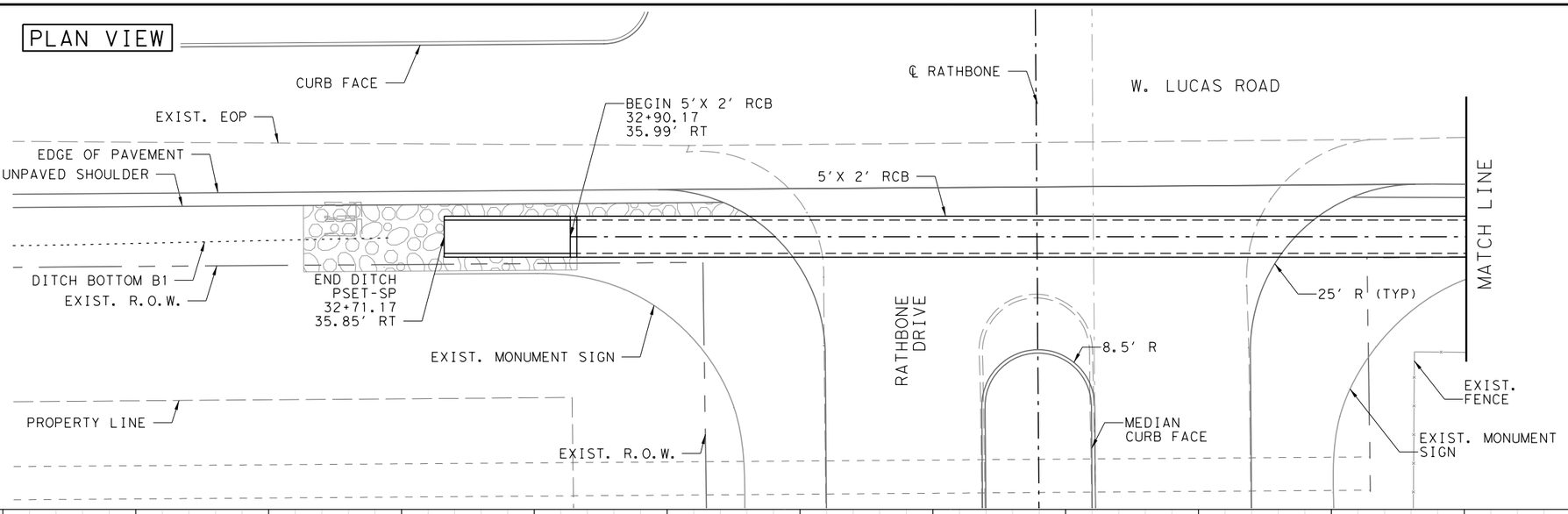
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		191
COLLIN		

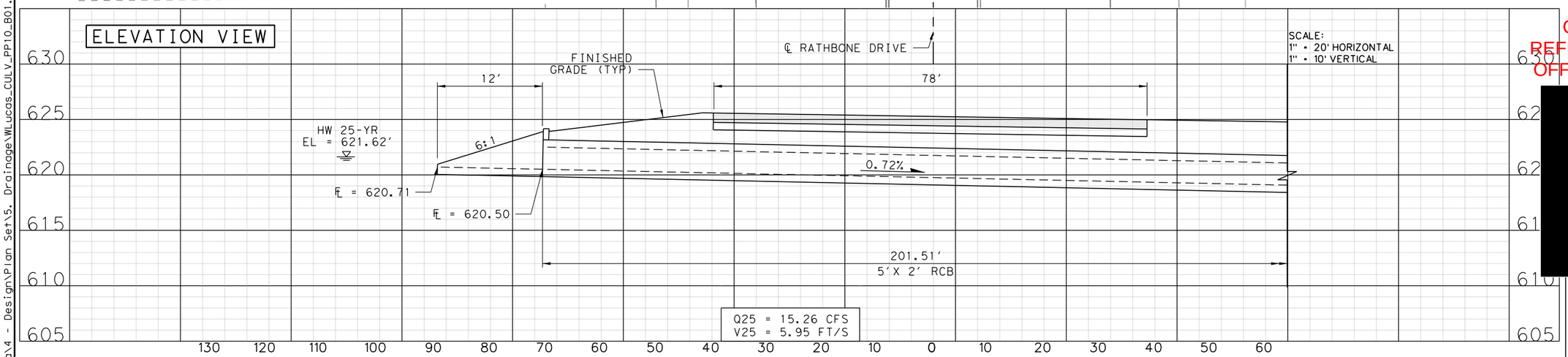
DATE: 4/6/2026 4:02:28 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP09_A12.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

0 5 20
Feet

N

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

CULVERT B1

[redacted]

FOR PAVEMENT PROFILE
REFER TO
INTERSECTION DETAILS RATHBONE DR.

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 10 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

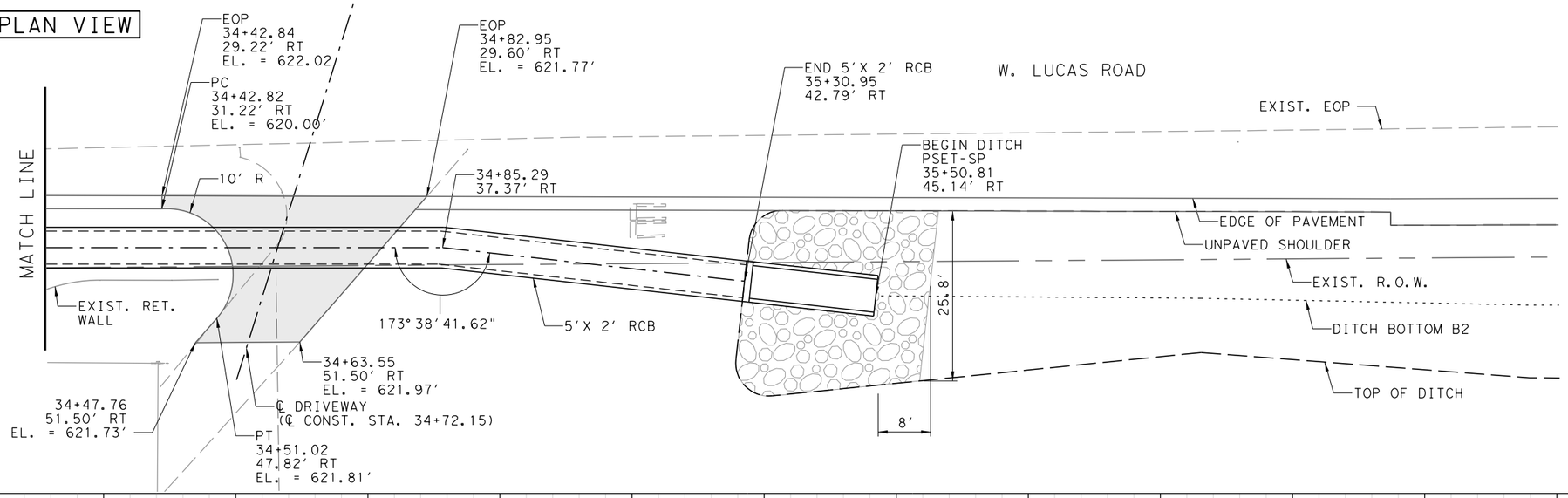
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		192
COLLIN		

DATE: 4/6/2026 4:02:29 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP10_B01.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

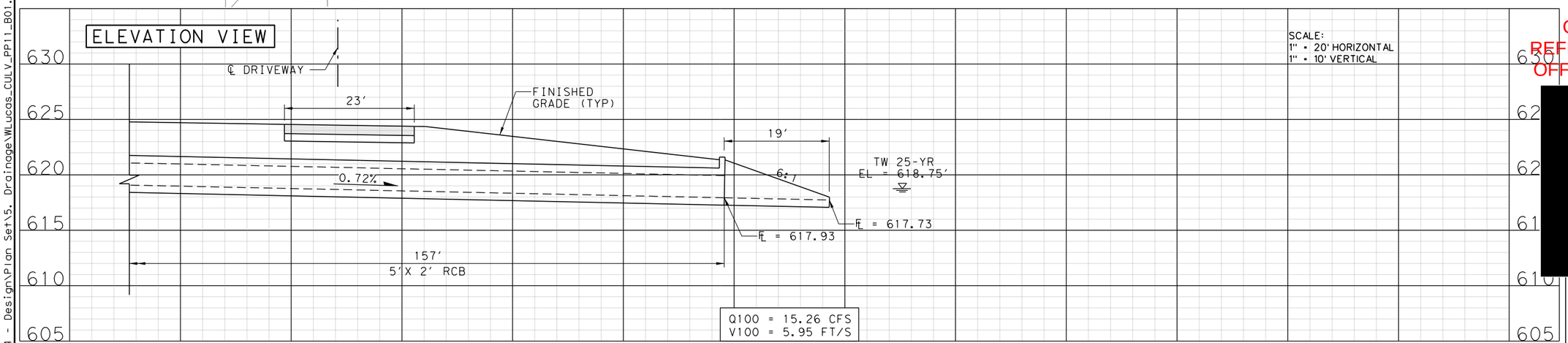
NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

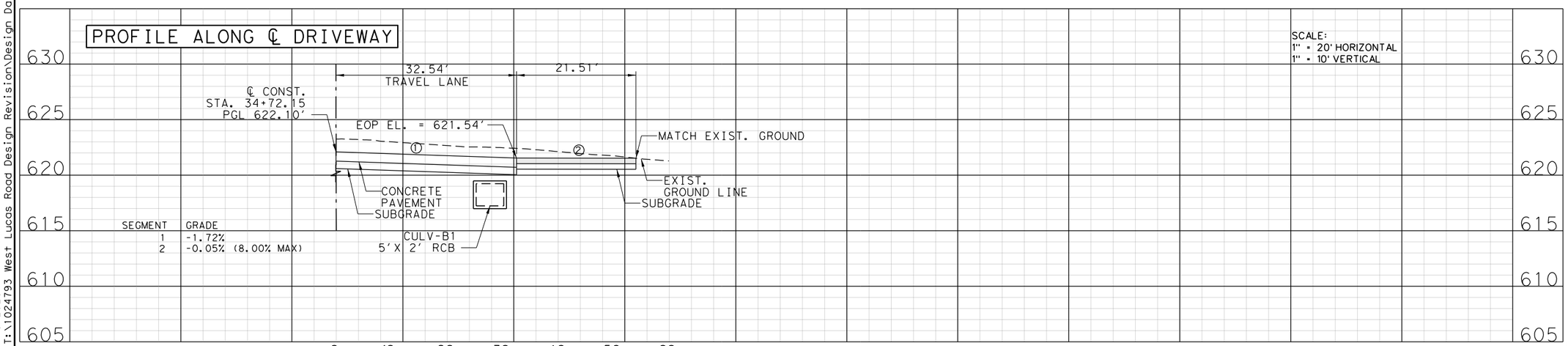
ELEVATION VIEW

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



PROFILE ALONG ℄ DRIVEWAY

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



CULVERT B1
CONTINUED

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 11 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

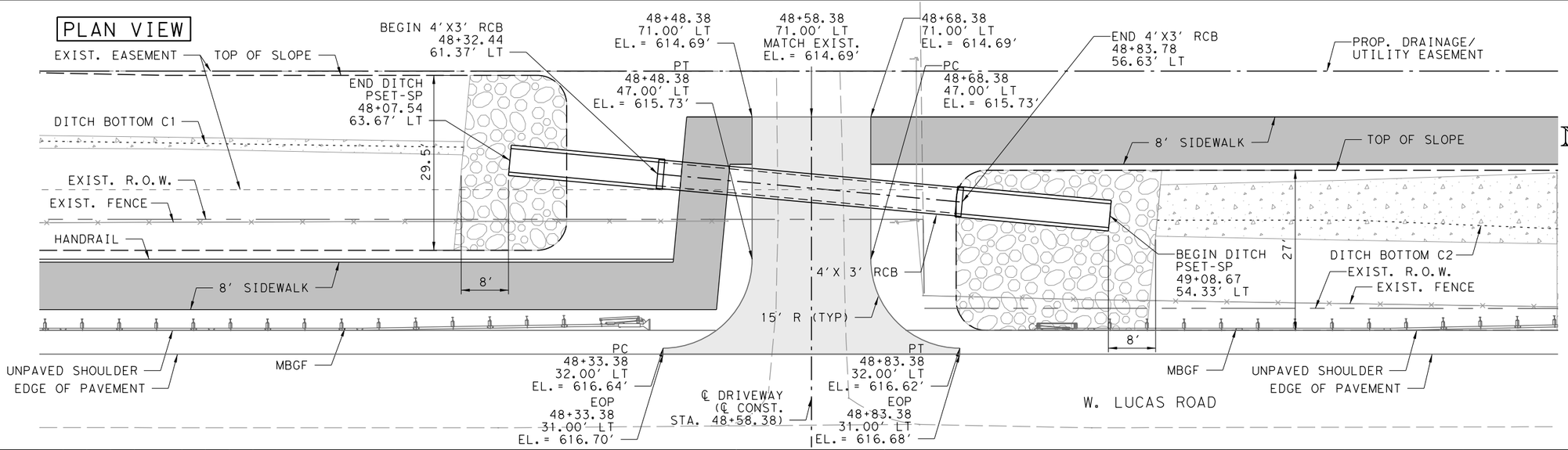
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	193
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:30 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP11_B01.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

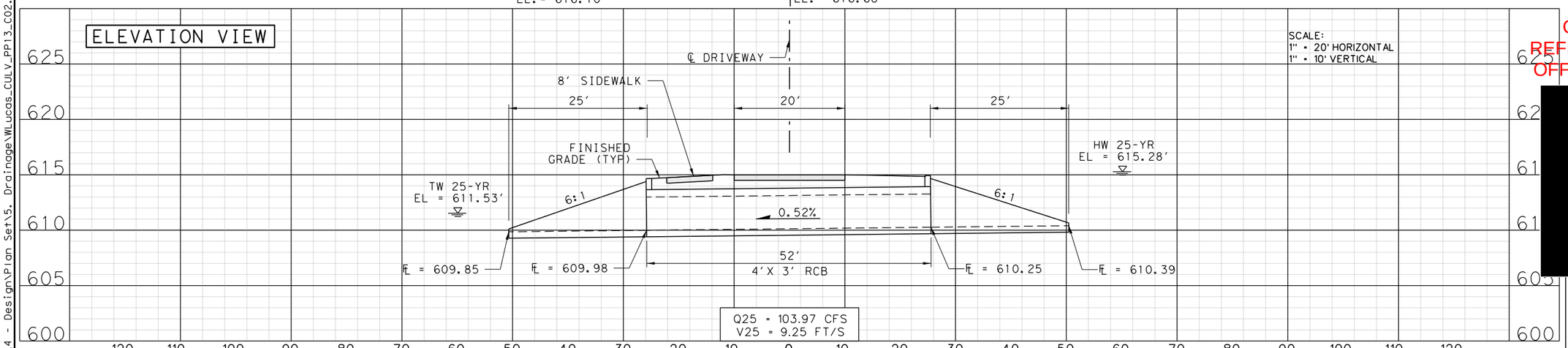
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

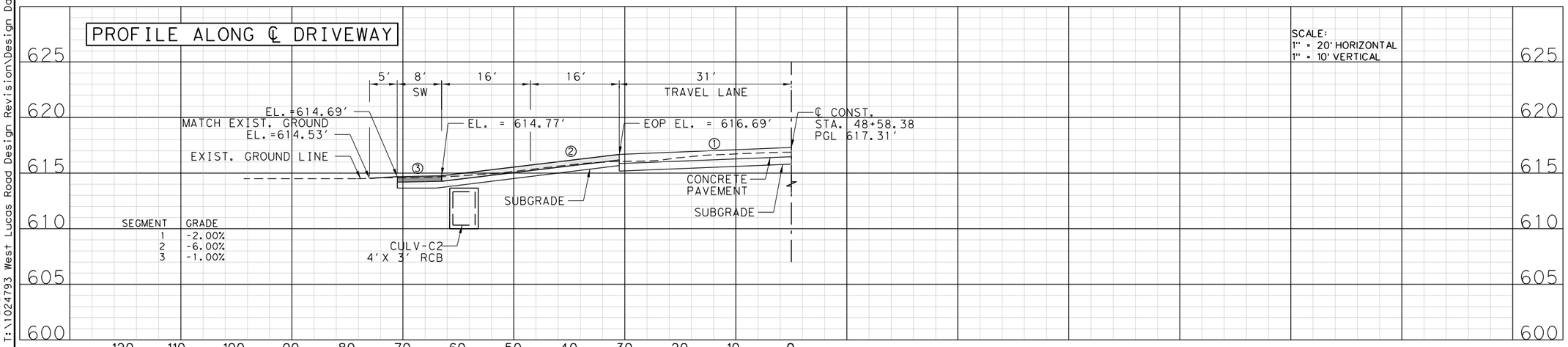
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



[redacted]

CULVERT C2

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 13 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

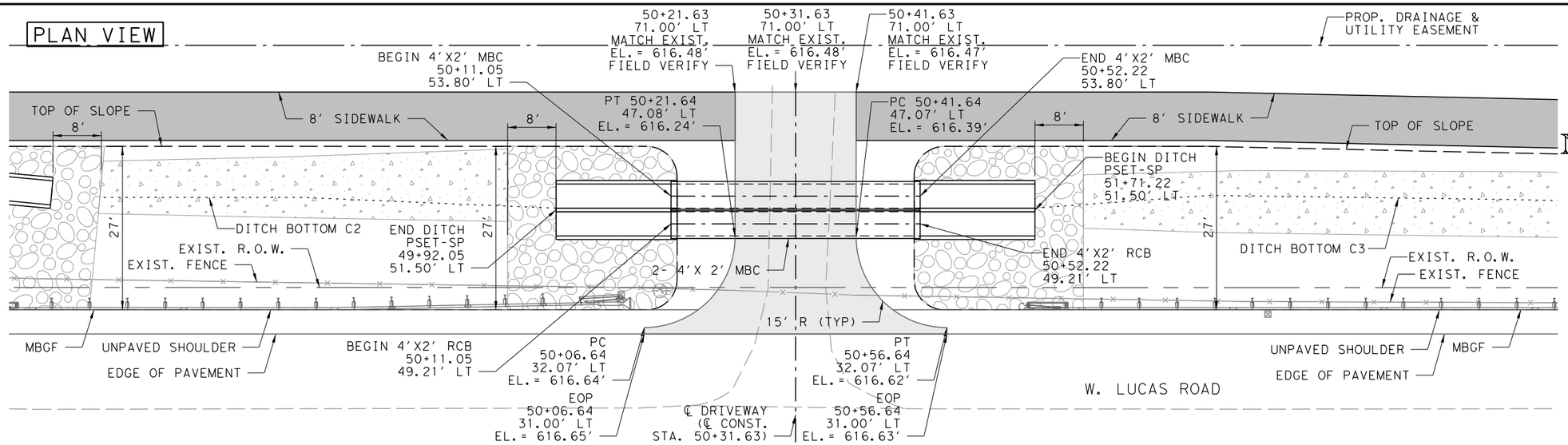
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		194
COLLIN		

DATE: 4/6/2026 4:02:31 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP13_C02.dgn

Texas 811 Know what's below. Call before you dig.

PLAN VIEW



LEGEND:

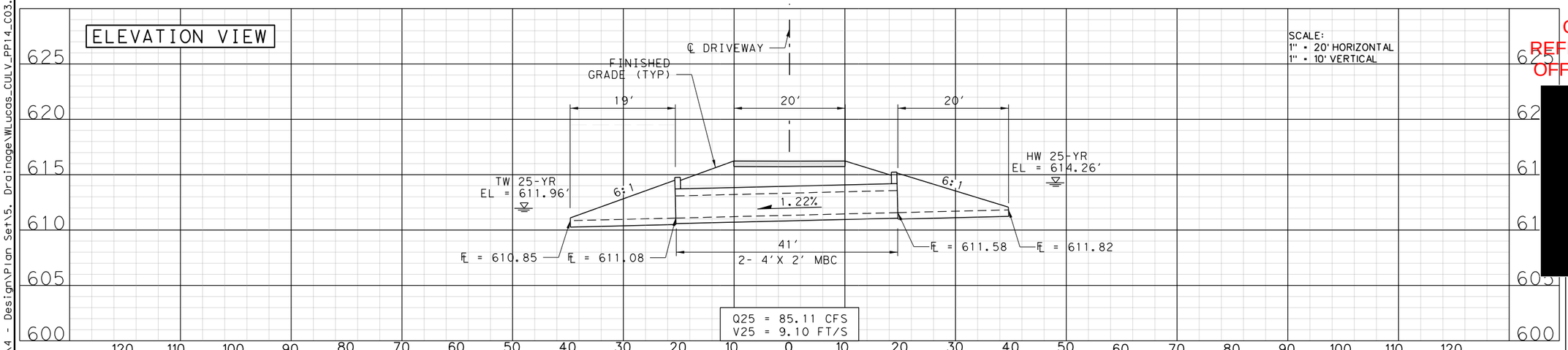
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

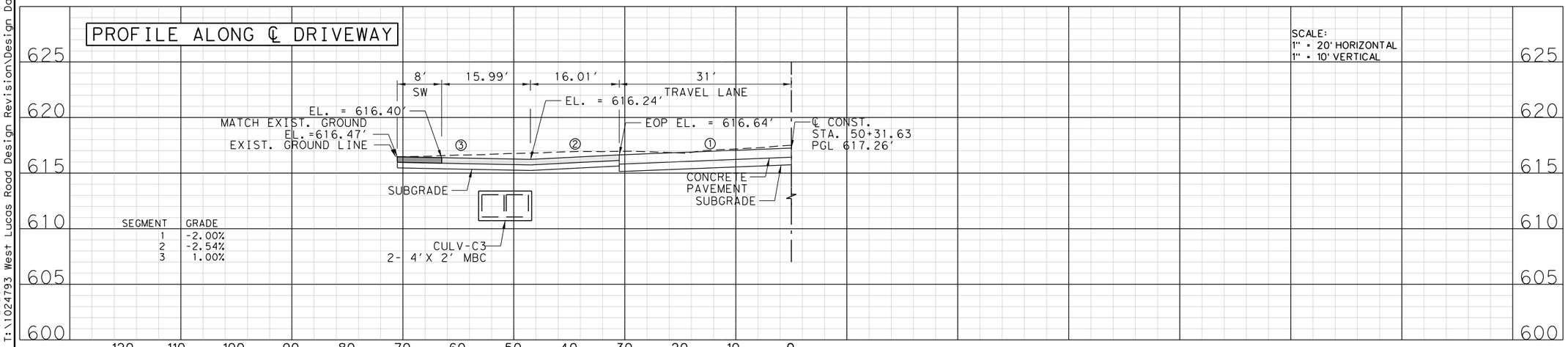
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



SEGMENT	GRADE
1	-2.00%
2	-2.54%
3	1.00%

CULVERT C3

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 14 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

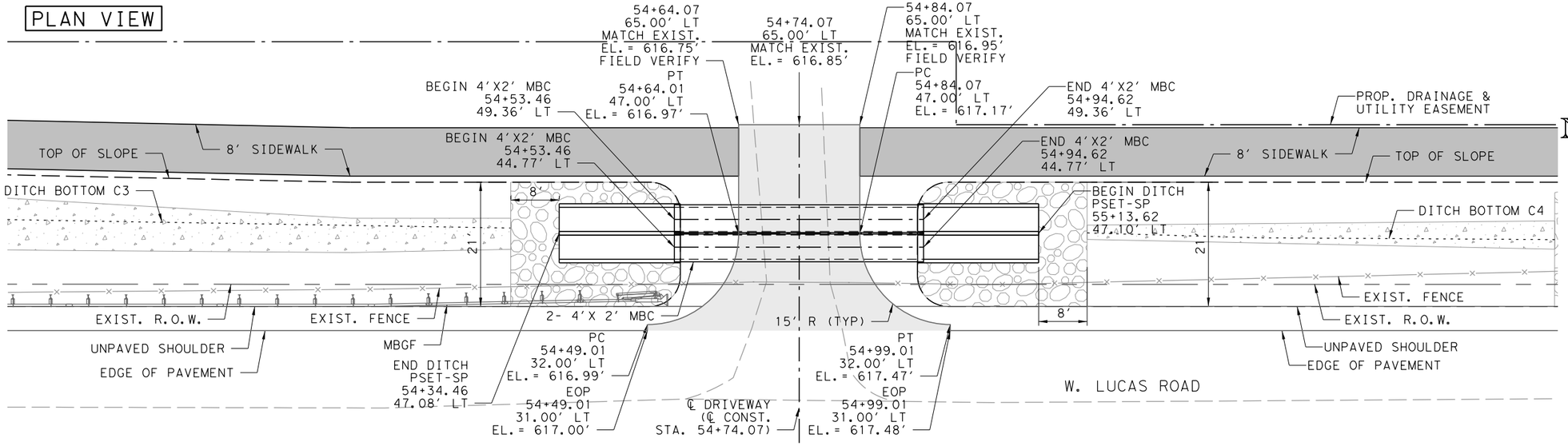
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		195
COLLIN		

DATE: 4/6/2026 4:02:32 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP14_C03.dgn

Texas 811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

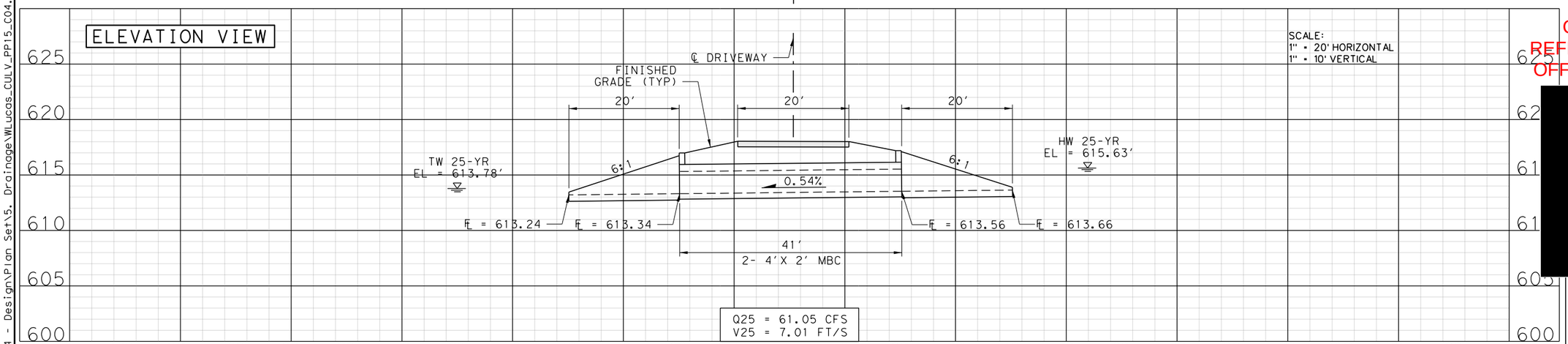
NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

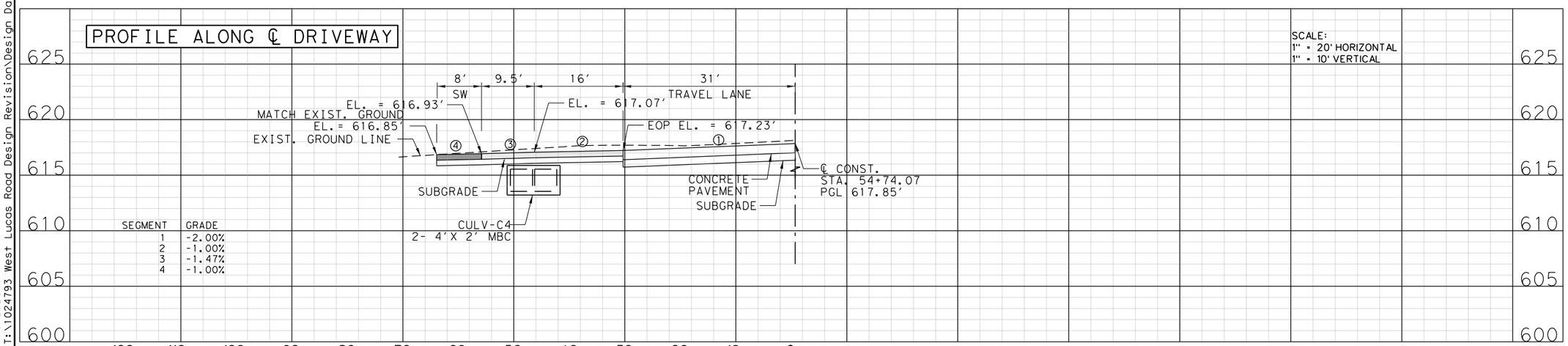
ELEVATION VIEW

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



PROFILE ALONG ℄ DRIVEWAY

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



CULVERT C4

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 15 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

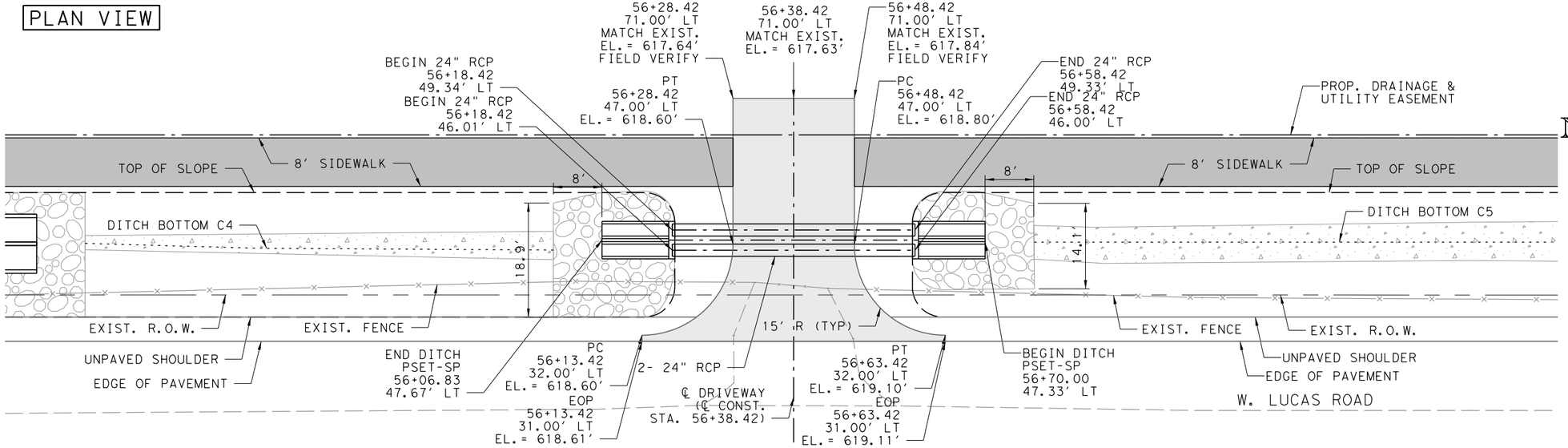
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	196
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:33 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP15_C04.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

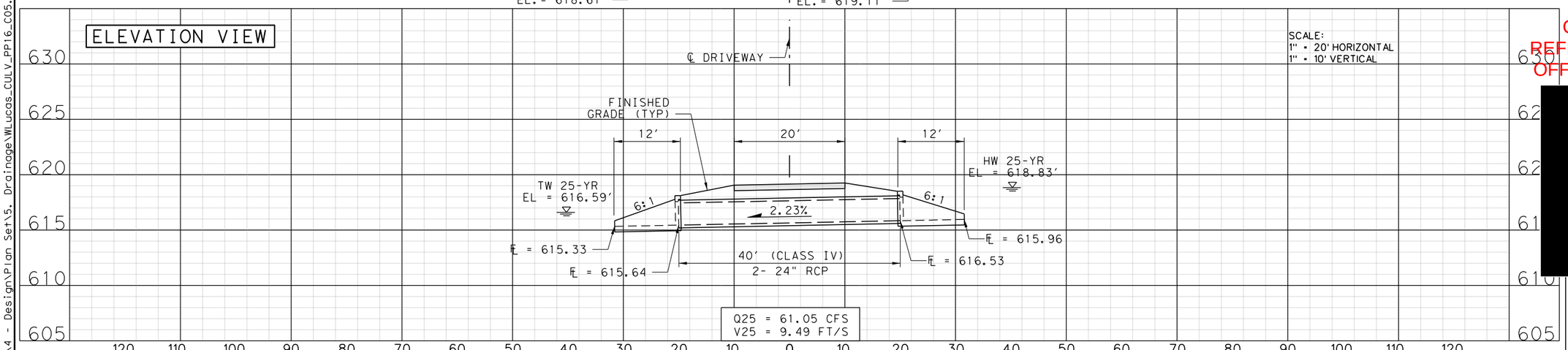
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

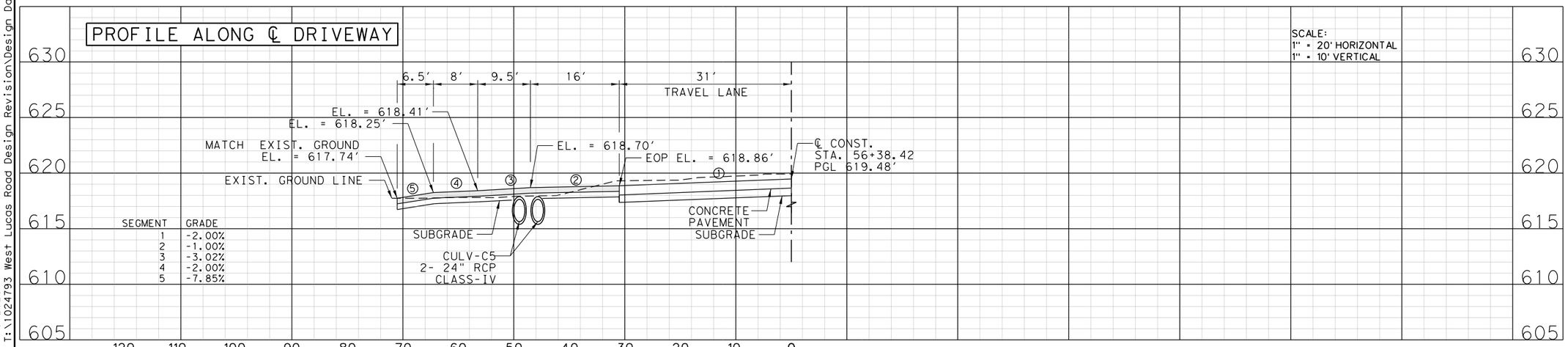
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

PROFILE ALONG ℄ DRIVEWAY



SEGMENT	GRADE
1	-2.00%
2	-1.00%
3	-3.02%
4	-2.00%
5	-7.85%

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT C5

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 16 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

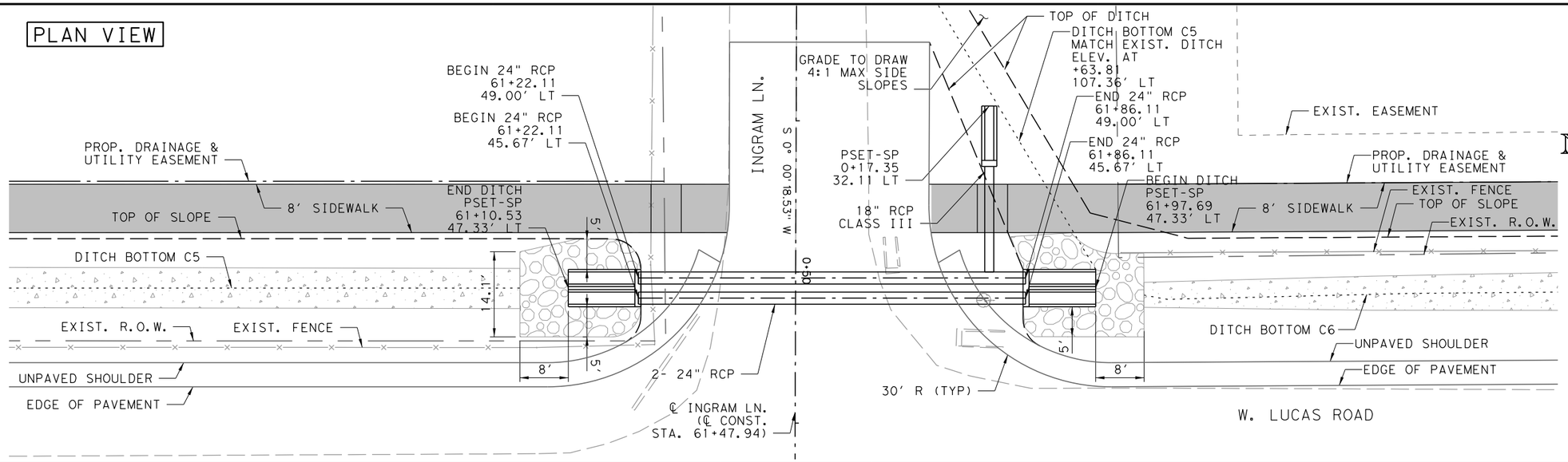
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		197
COLLIN		

DATE: 4/6/2026 4:02:34 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP16_C05.dgn

Texas 811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

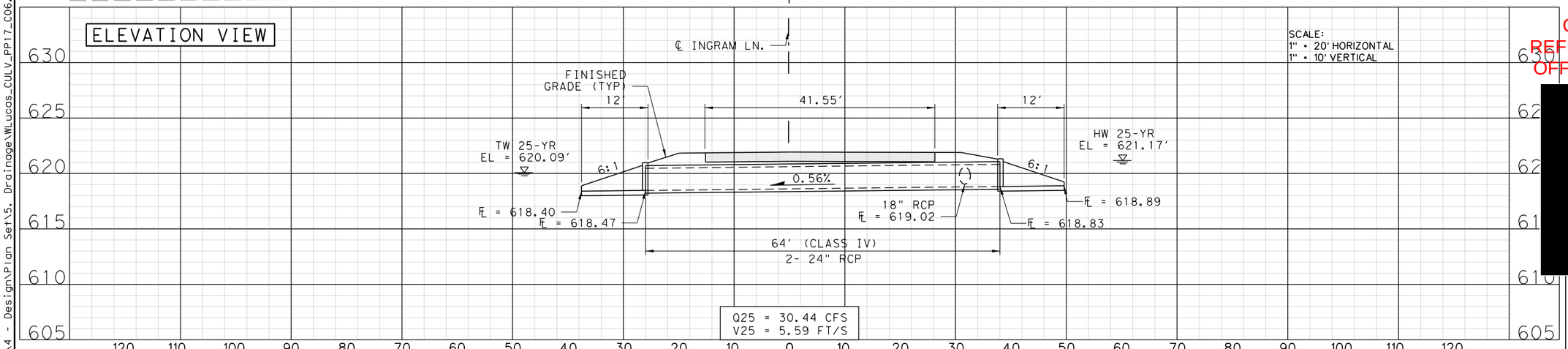
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

FOR PAVEMENT PROFILE
REFER TO
INTERSECTION DETAILS INGRAM LN.

CULVERT C6

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 17 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

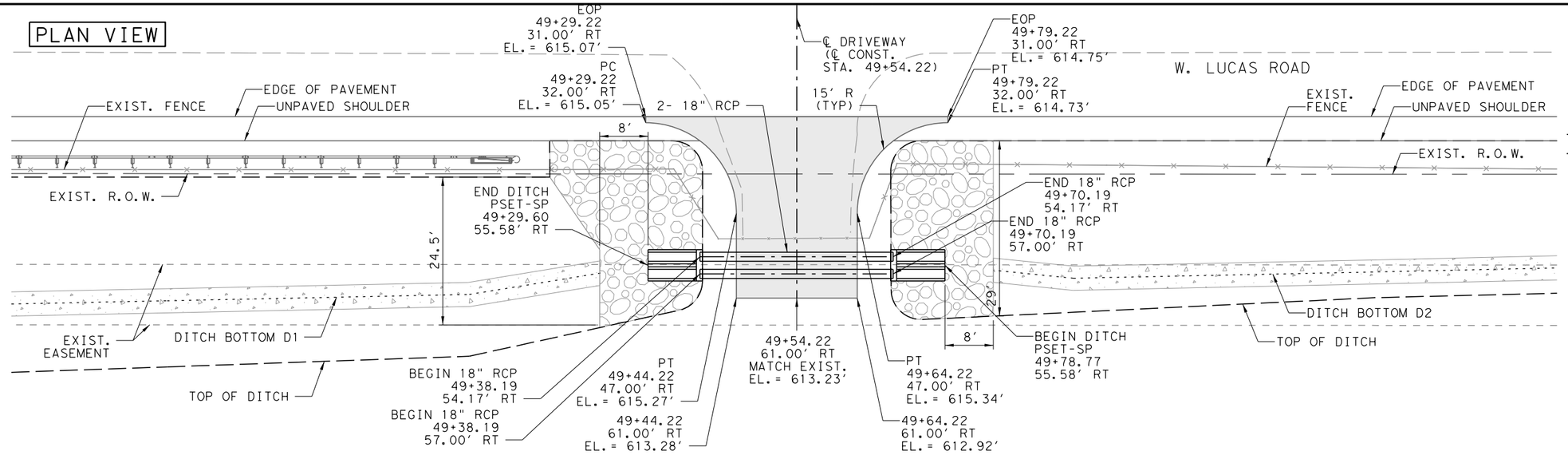
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		198
COLLIN		

DATE: 4/6/2026 4:02:35 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\W...Drainage\WLucas_CULV_PP17_C06.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



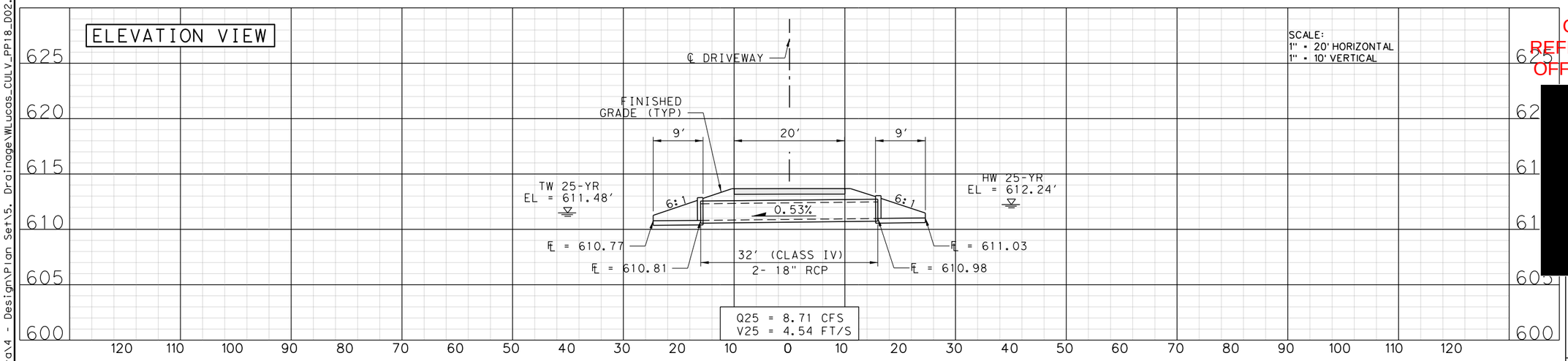
NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

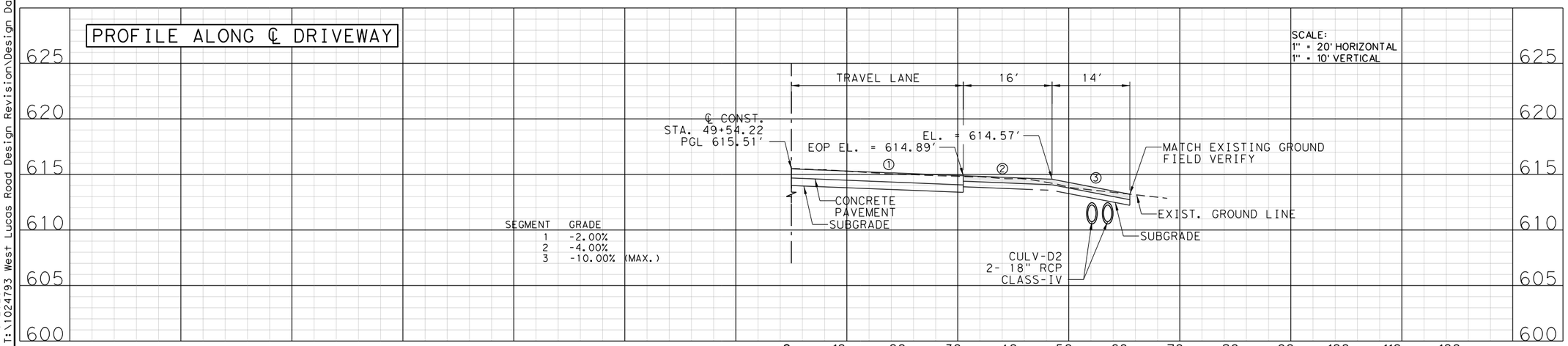
ELEVATION VIEW

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



PROFILE ALONG ℄ DRIVEWAY

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



CULVERT D2

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 18 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

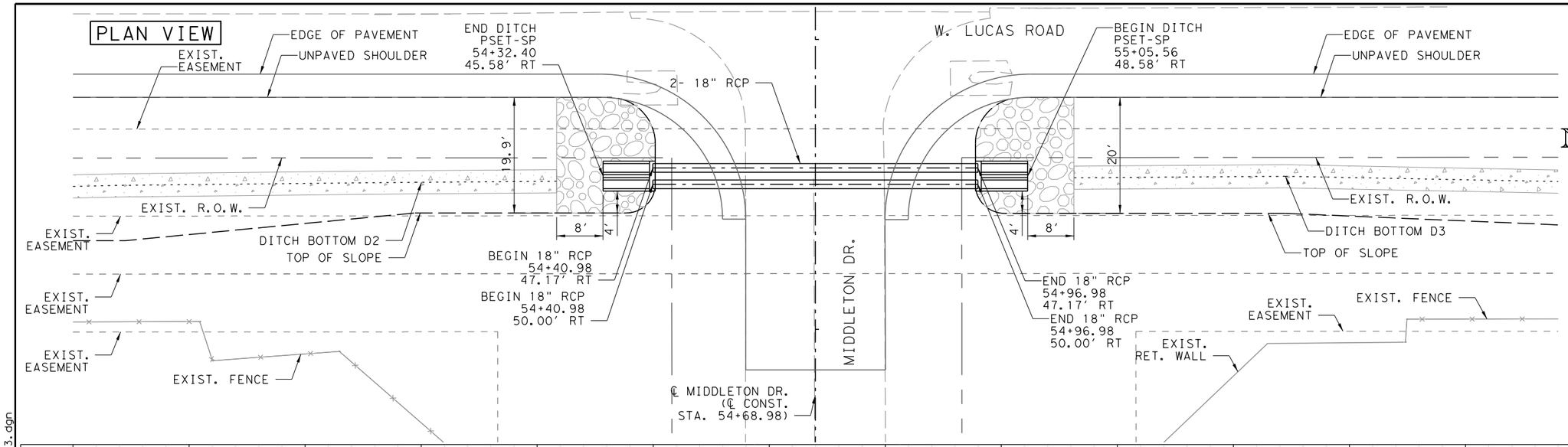
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		199
COLLIN		

DATE: 4/6/2026 4:02:36 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP18_D02.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

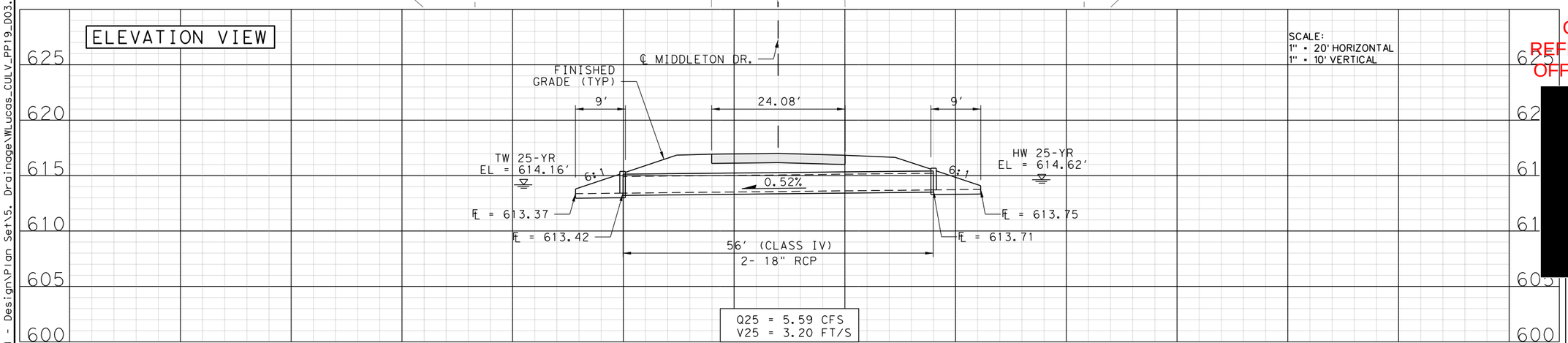
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT D3

[redacted]

FOR PAVEMENT PROFILE
REFER TO
INTERSECTION DETAILS MIDDLETON DR.

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 19 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

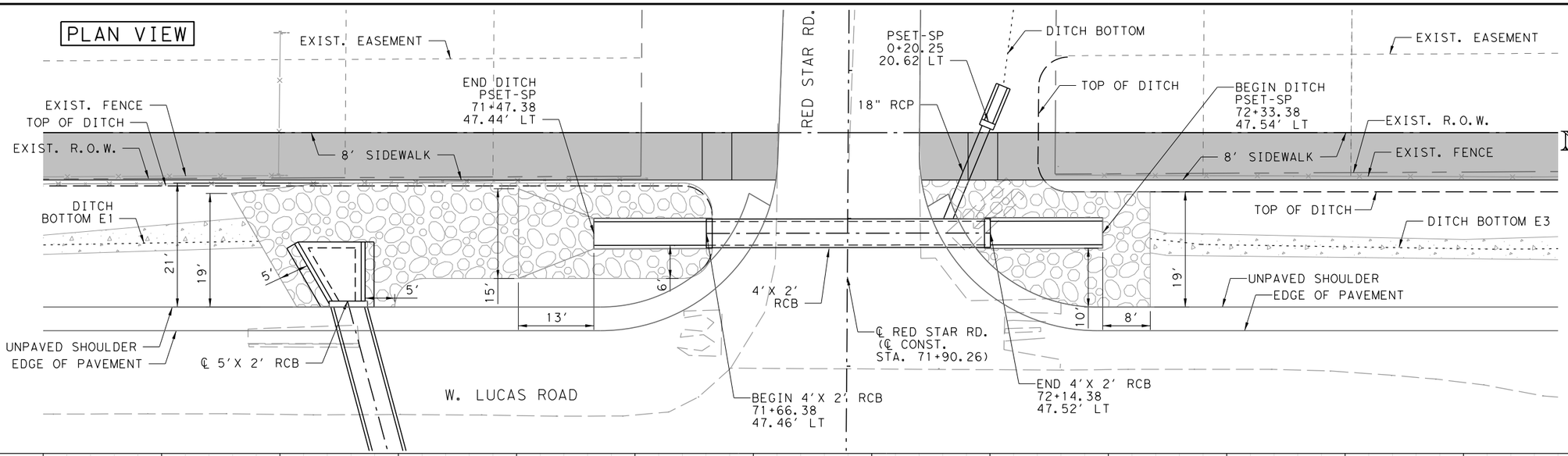
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		200
COLLIN		

DATE: 4/6/2026 4:02:36 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP19_D03.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



LEGEND:

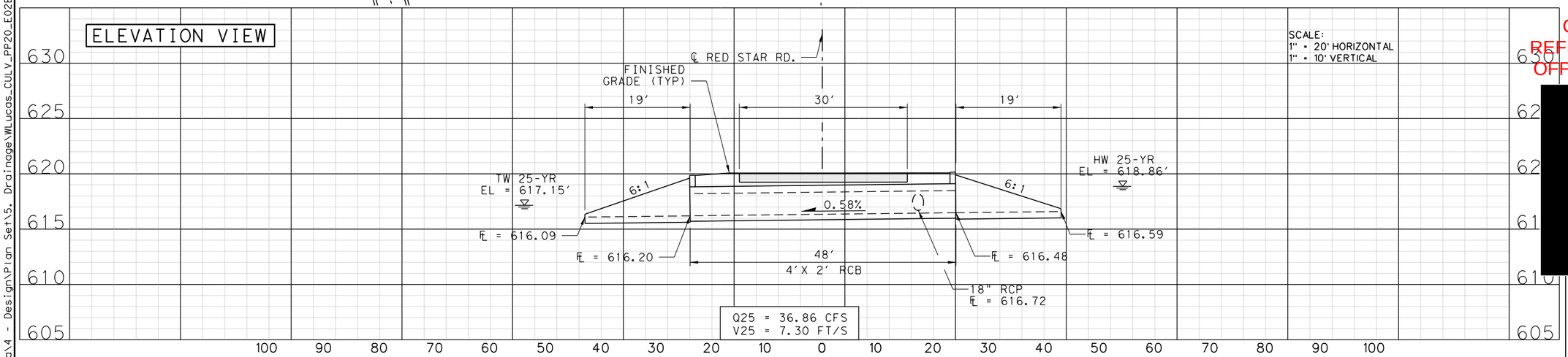
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD SETB-CD.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT E3

[redacted]

FOR PAVEMENT PROFILE
REFER TO
INTERSECTION DETAILS RED STAR RD.

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 20 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

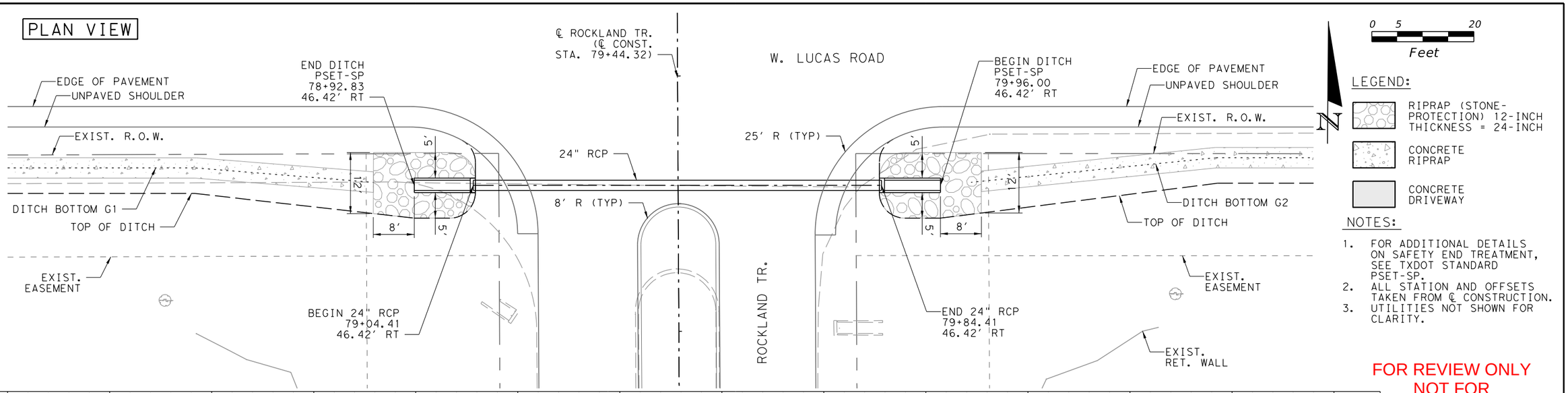
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		201
COLLIN		

DATE: 4/6/2026 4:02:37 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP20_E02E03.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



LEGEND:

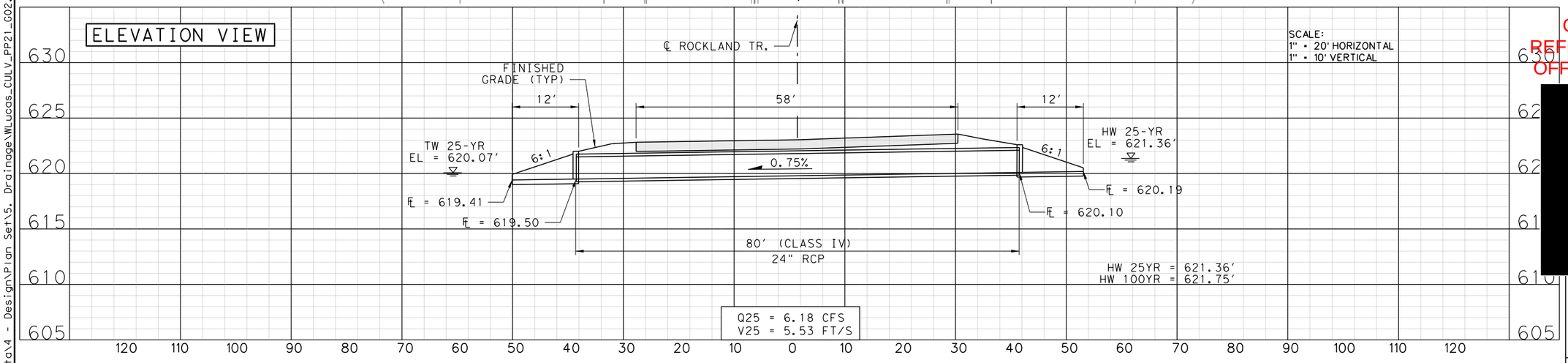
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT G2

FOR PAVEMENT PROFILE
REFER TO
INTERSECTION DETAILS ROCKLAND TR.

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 21 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

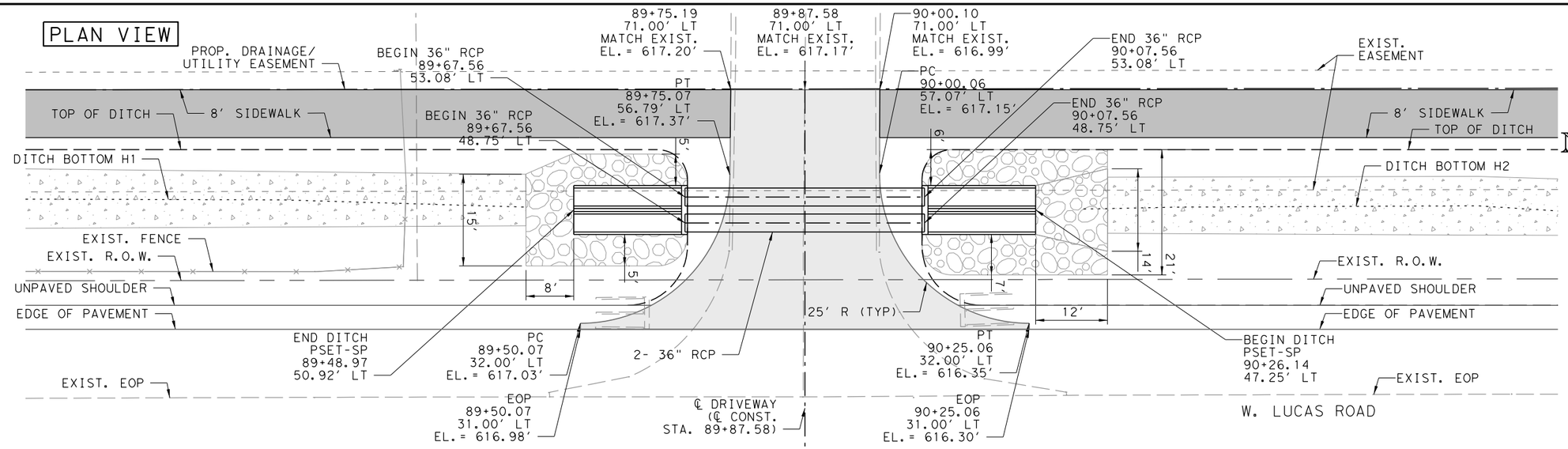
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	202
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:38 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP21_G02.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

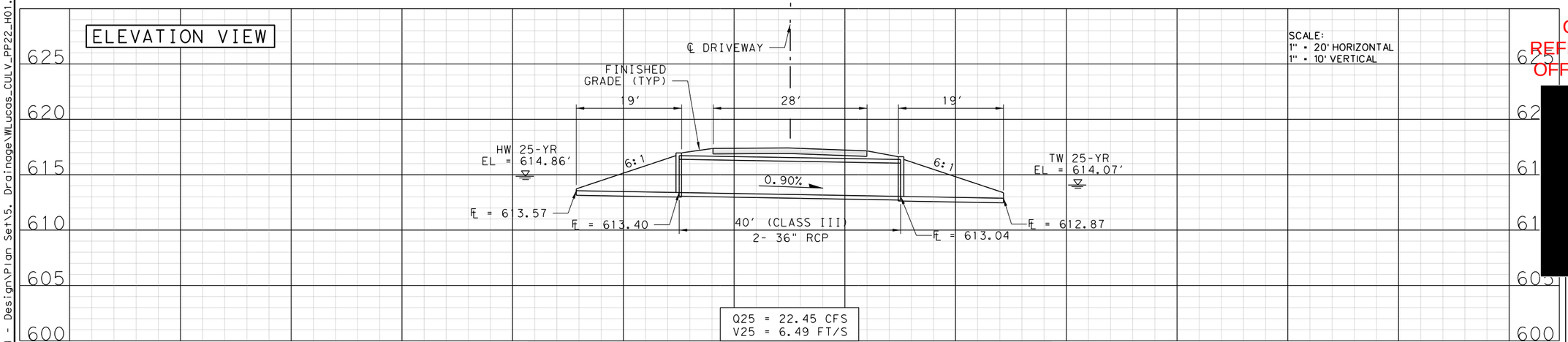
NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

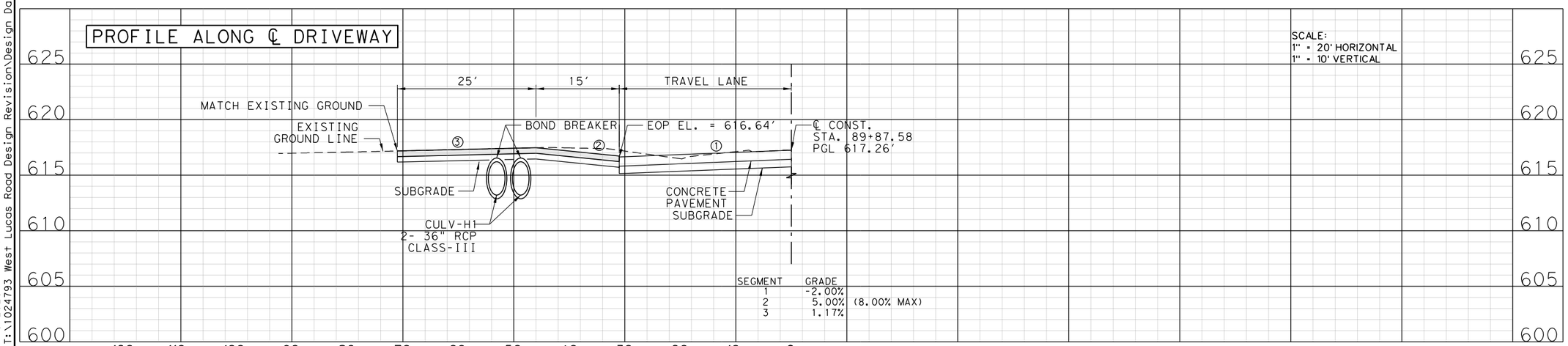
ELEVATION VIEW

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



PROFILE ALONG ℄ DRIVEWAY

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



CULVERT H1

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 22 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

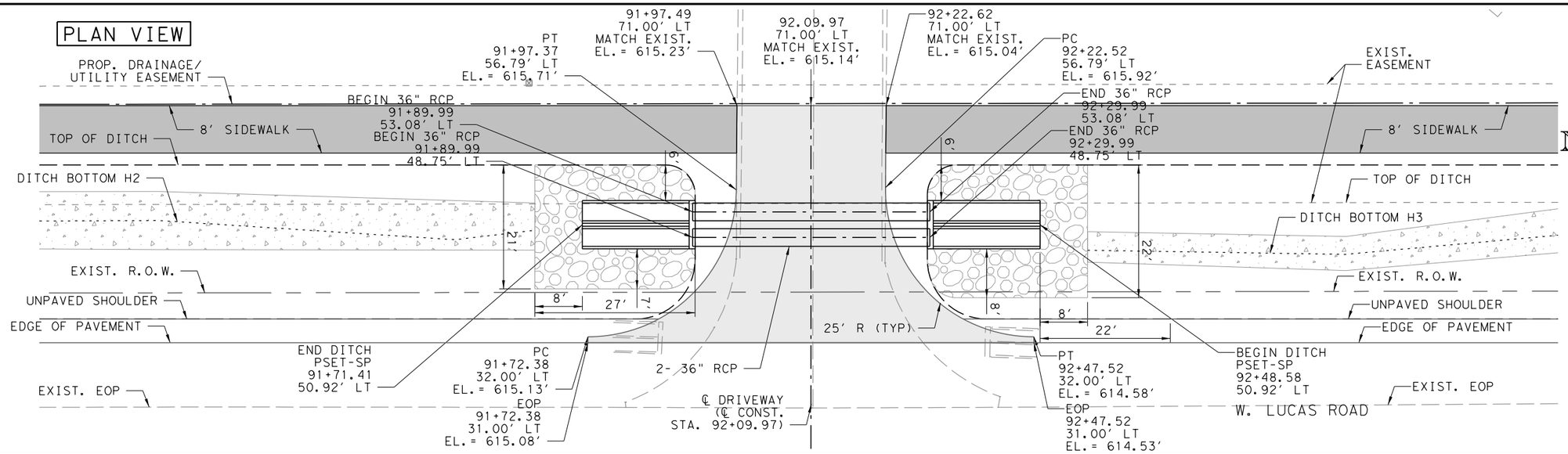
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	203
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:39 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP22_H01.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

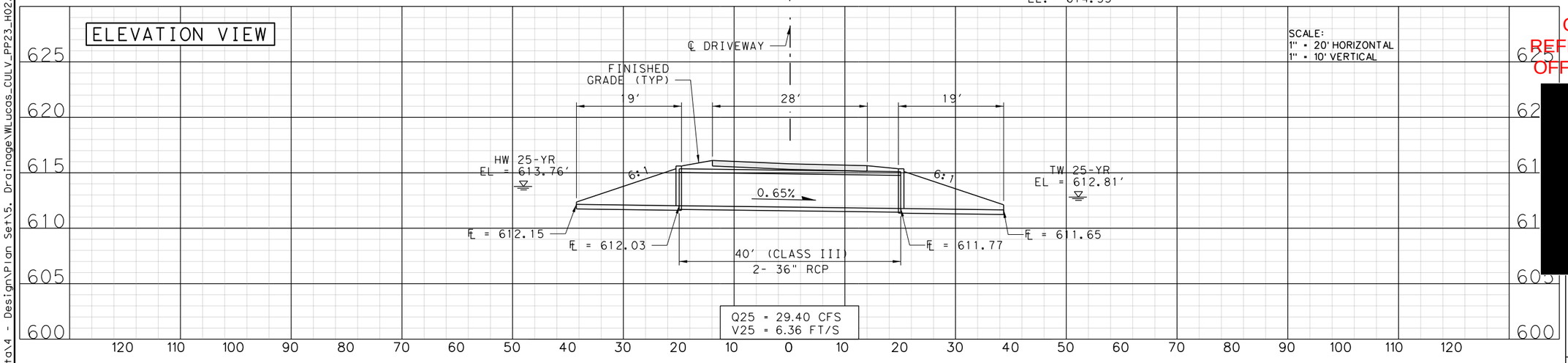
NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

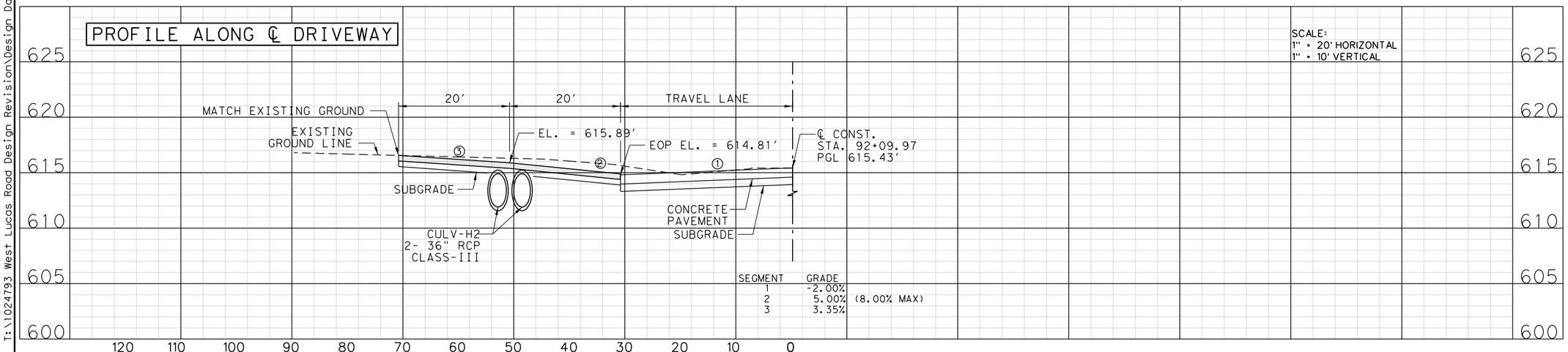
ELEVATION VIEW

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



PROFILE ALONG ℄ DRIVEWAY

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



SEGMENT	GRADE
1	-2.00%
2	5.00% (8.00% MAX)
3	3.35%

CULVERT H2

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 23 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

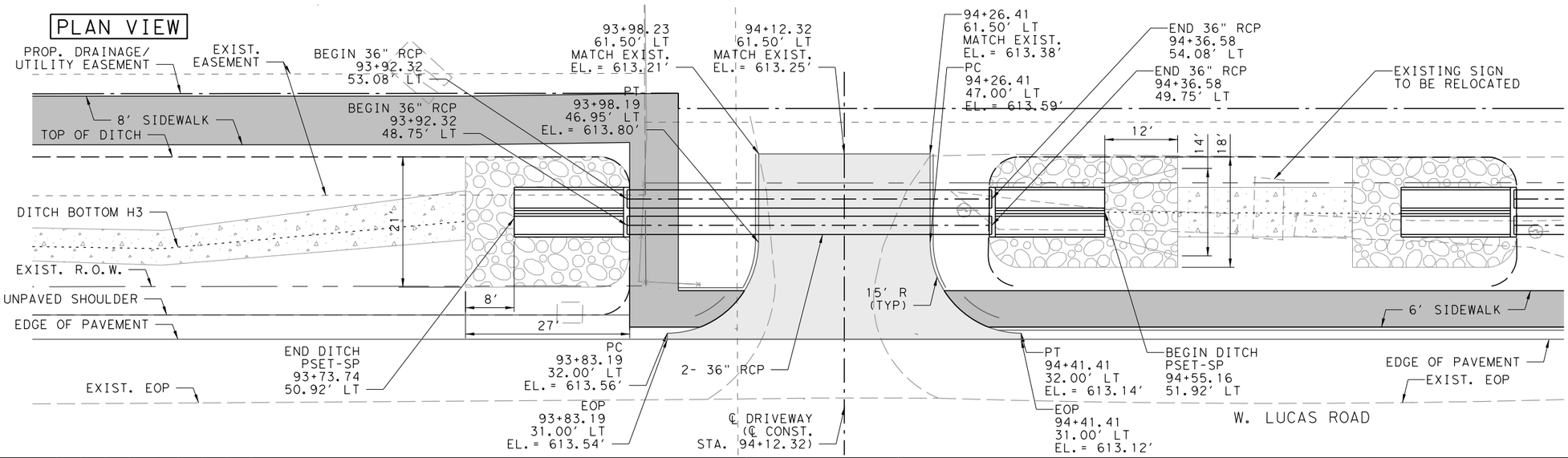
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	204
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:40 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\W Lucas_CULV_PP23_H02.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

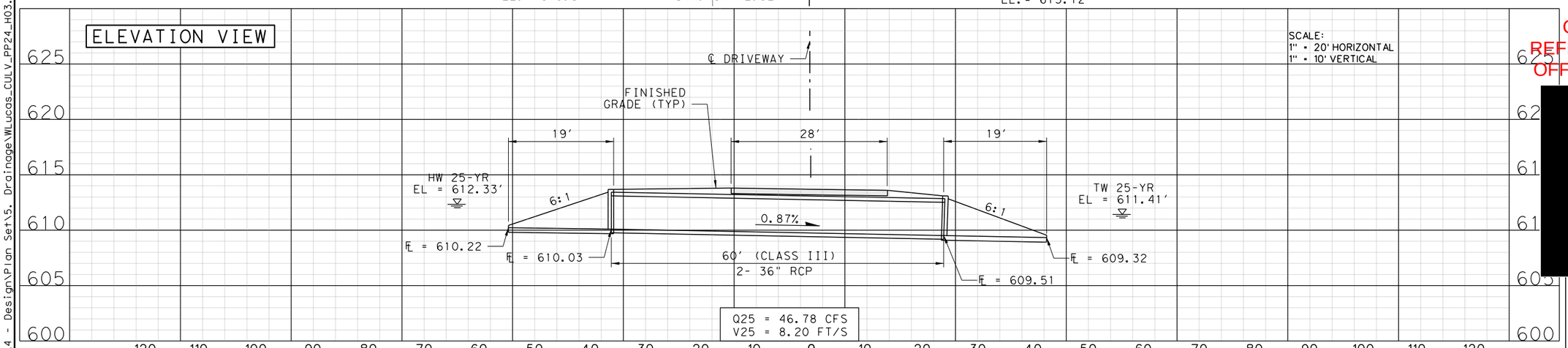
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

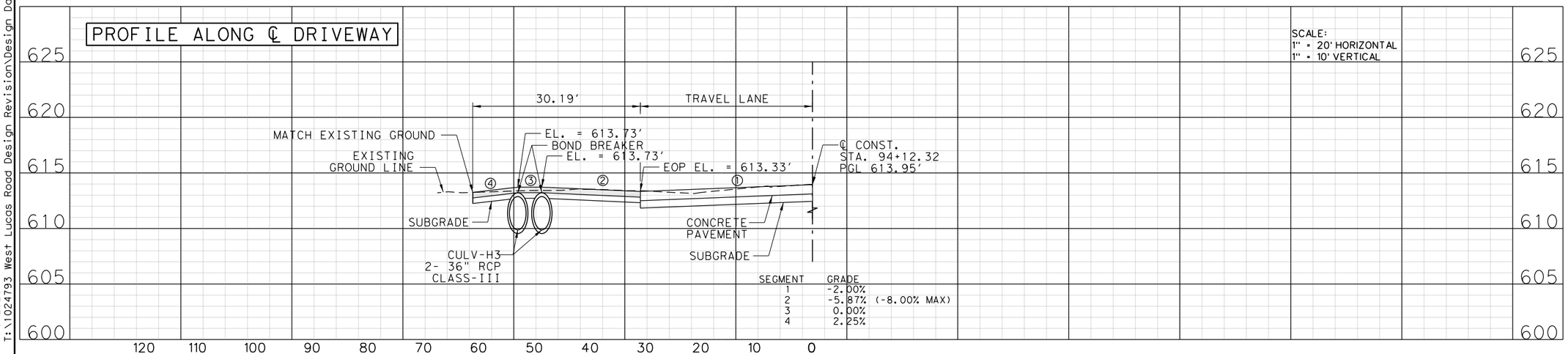
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



CULVERT H3

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 24 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

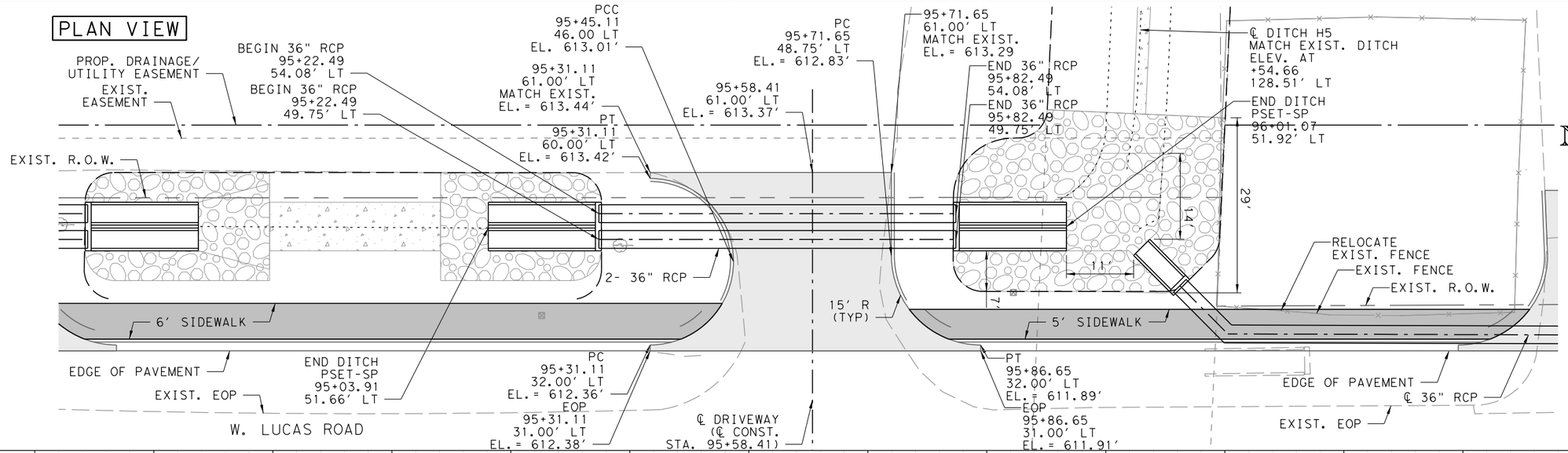
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	205
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:41 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP24_H03.dgn

Texas 811 Know what's below. Call before you dig.

PLAN VIEW



LEGEND:

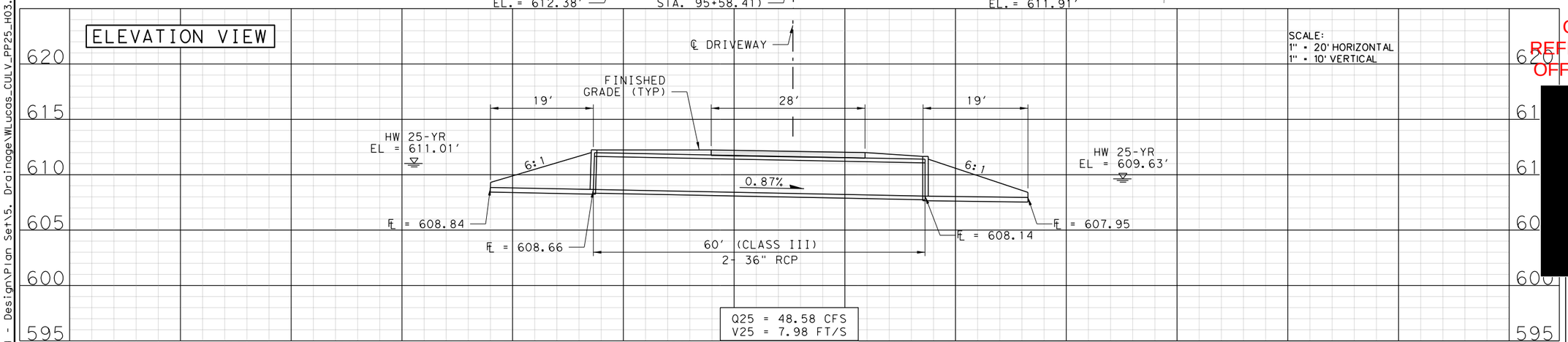
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

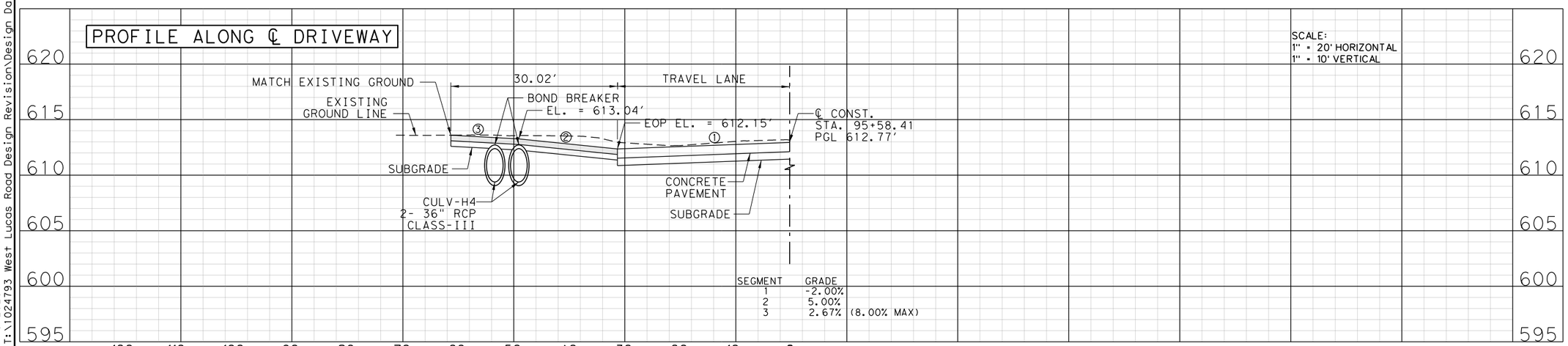
FOR REVIEW ONLY NOT FOR CONSTRUCTION REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

PROFILE ALONG ℄ DRIVEWAY



SEGMENT	GRADE
1	-2.00%
2	5.00%
3	2.67% (8.00% MAX)

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT H4

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 25 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

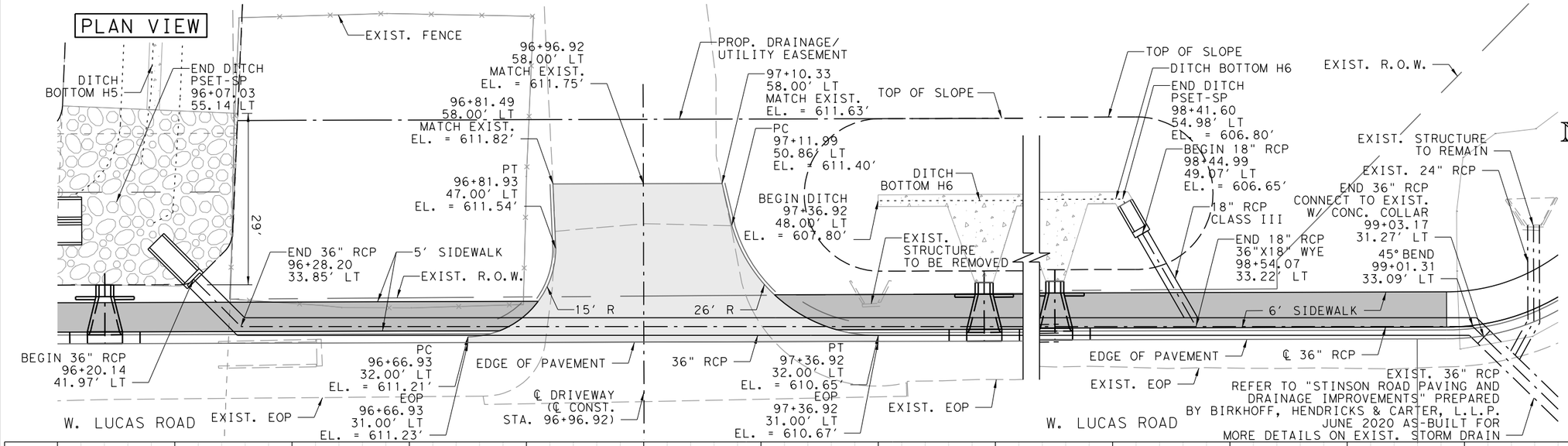
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		206
COLLIN		

DATE: 4/6/2026 4:02:42 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP25_H03.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



0 5 20
Feet

N

LEGEND:

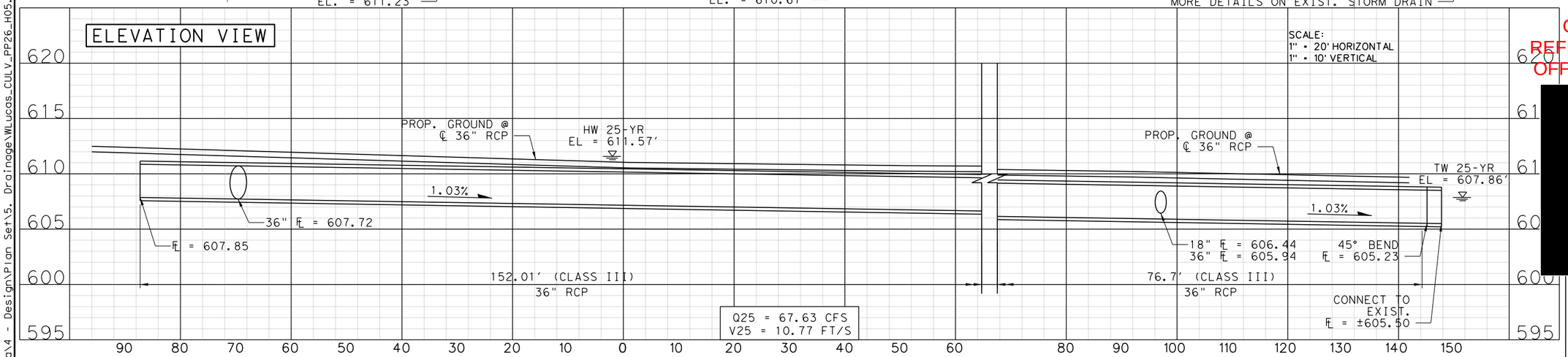
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

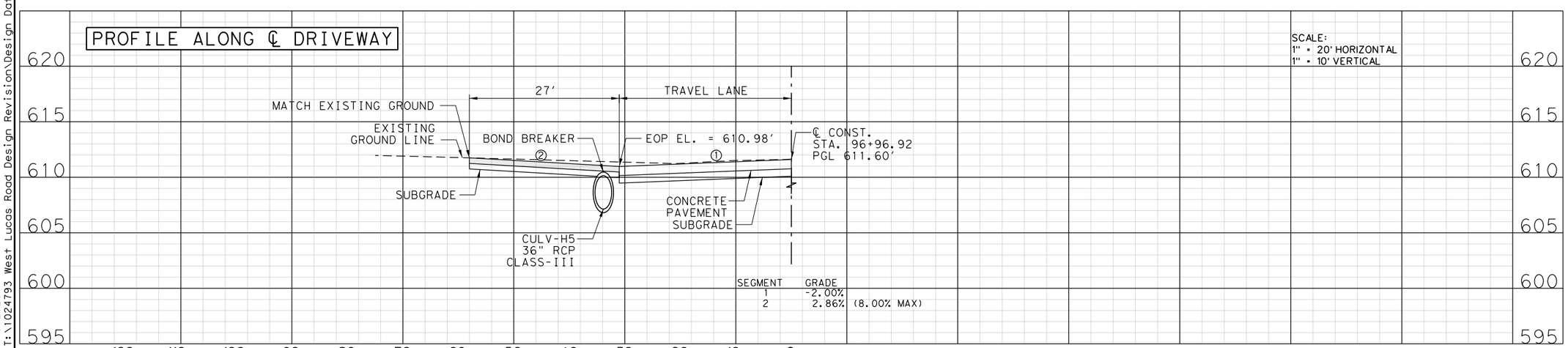
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



CULVERT H5

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 26 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

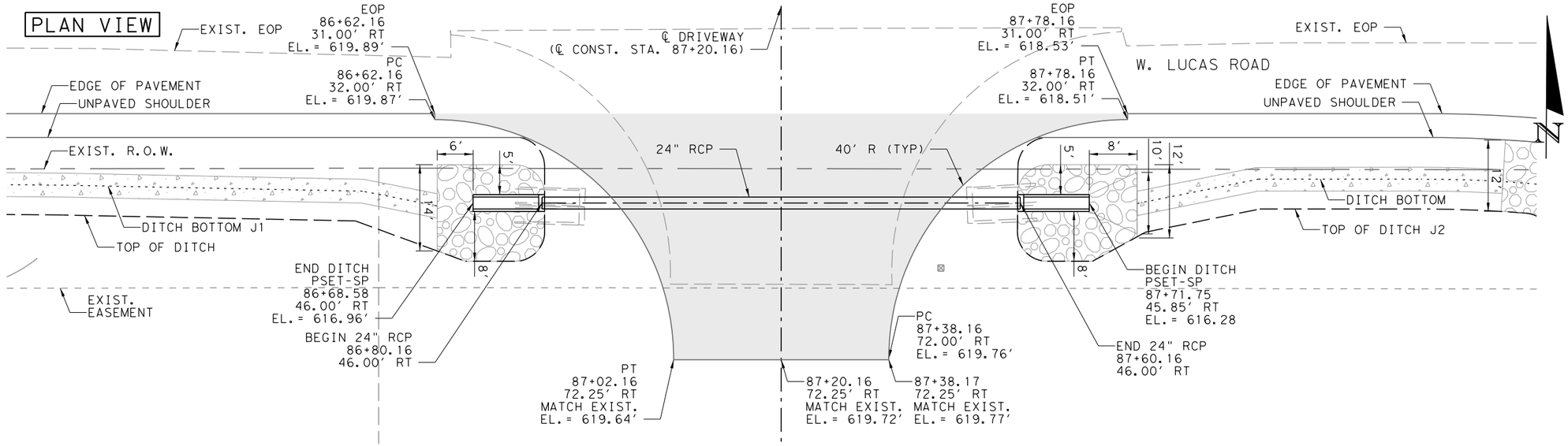
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		207
COLLIN		

DATE: 4/6/2026 4:02:43 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP26_H05.dgn

Texas 811 Know what's below. Call before you dig.

PLAN VIEW



LEGEND:

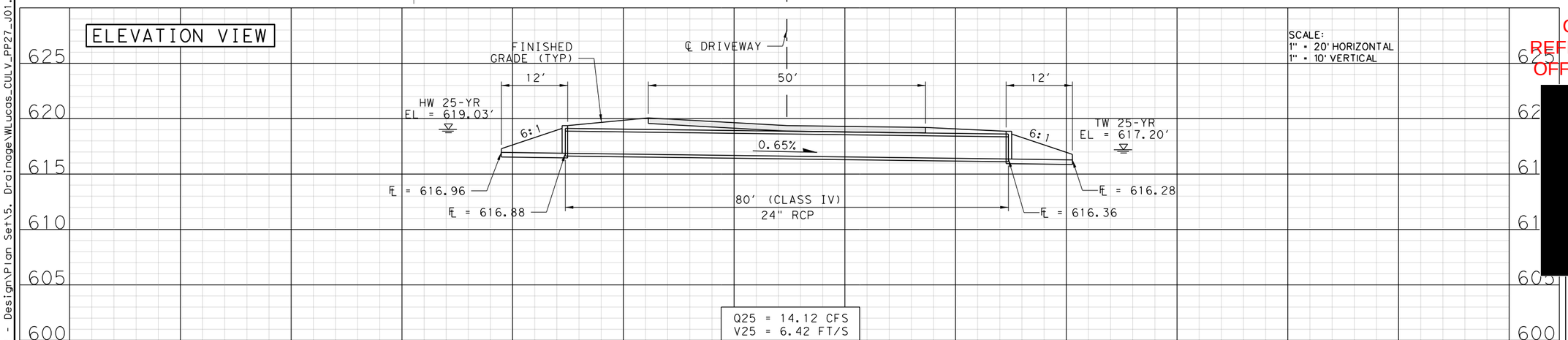
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

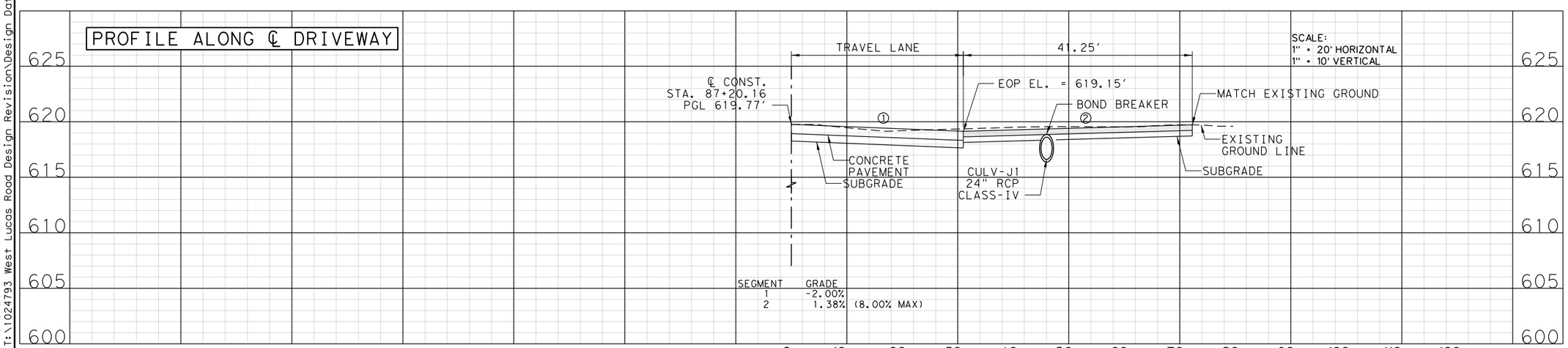
1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



CULVERT J1

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 27 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

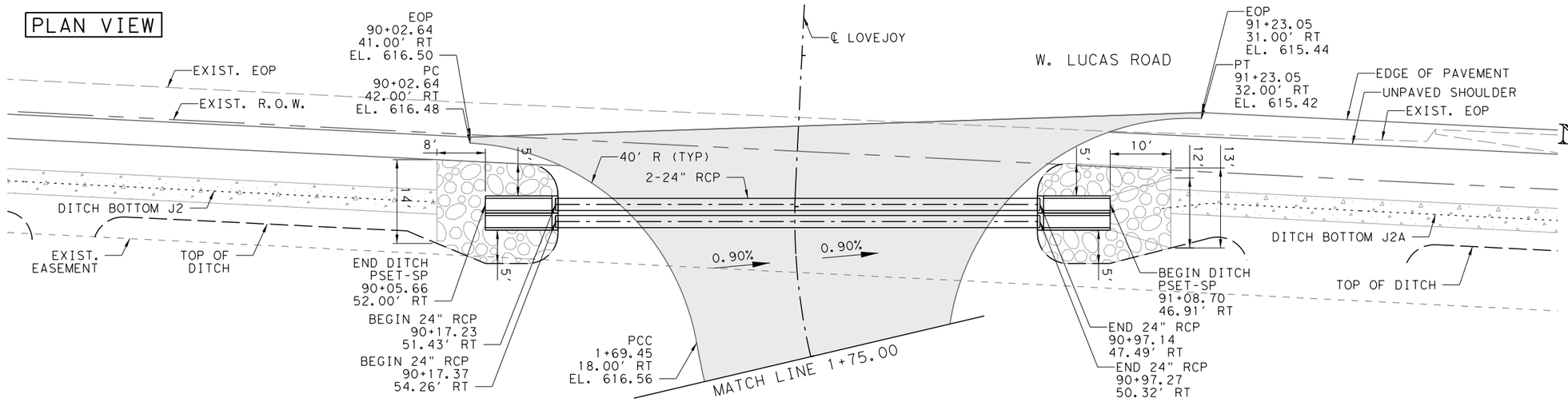
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		208
COLLIN		

DATE: 4/6/2026 4:02:44 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP27_J01.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



LEGEND:

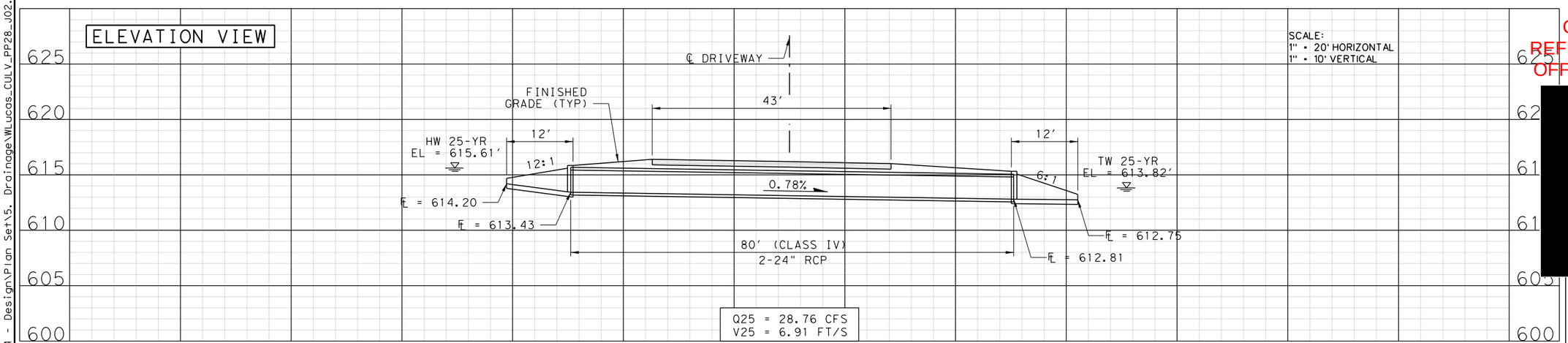
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

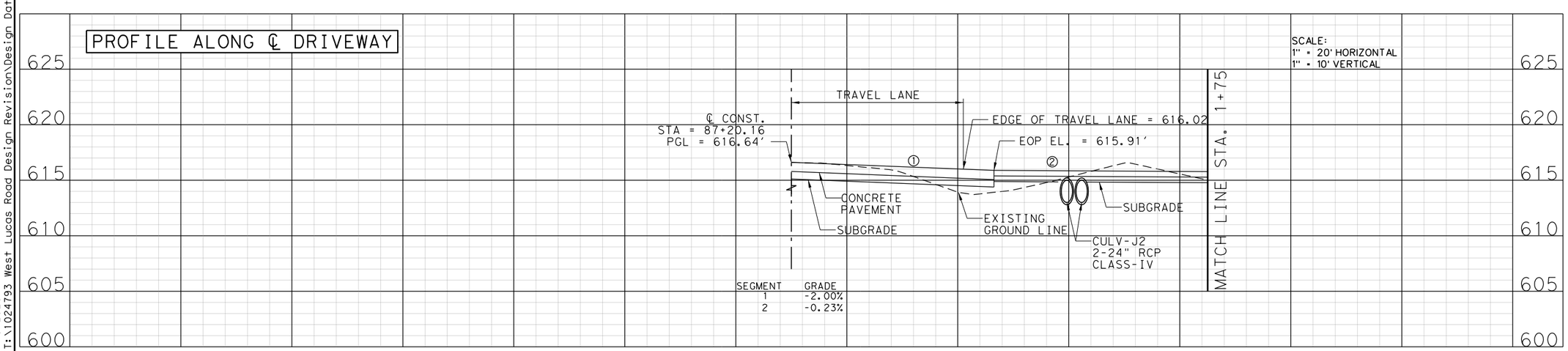
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

PROFILE ALONG ℄ DRIVEWAY



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

CULVERT J2

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 28 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

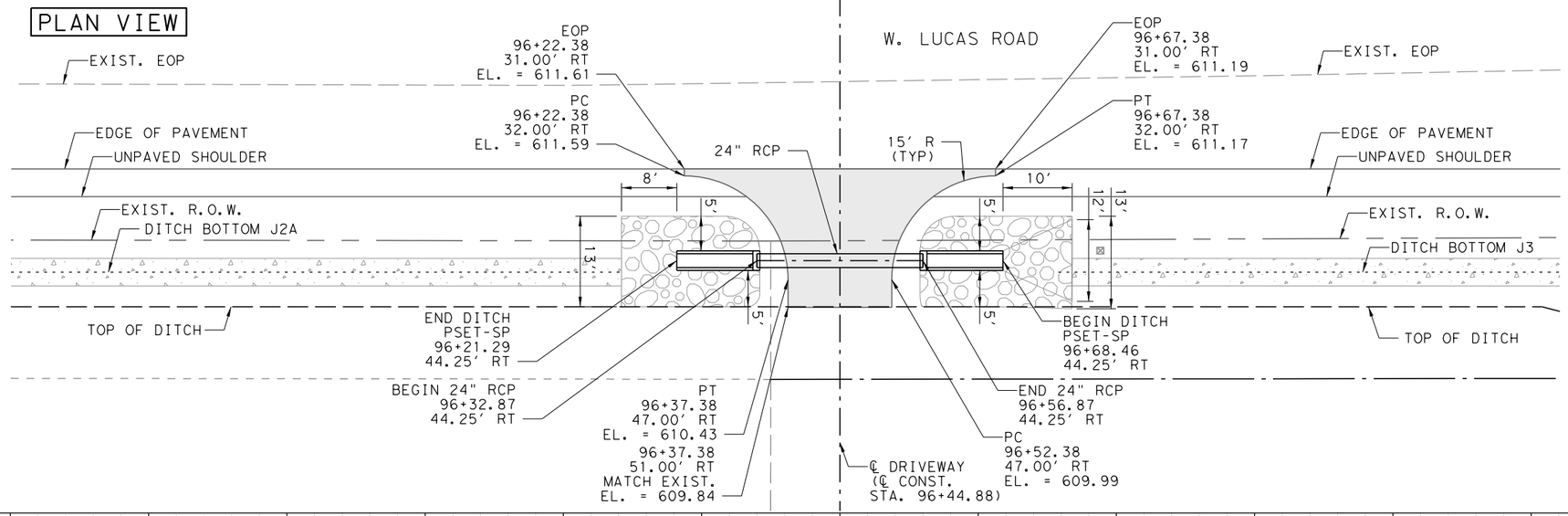
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	209
COUNTY		
COLLIN		

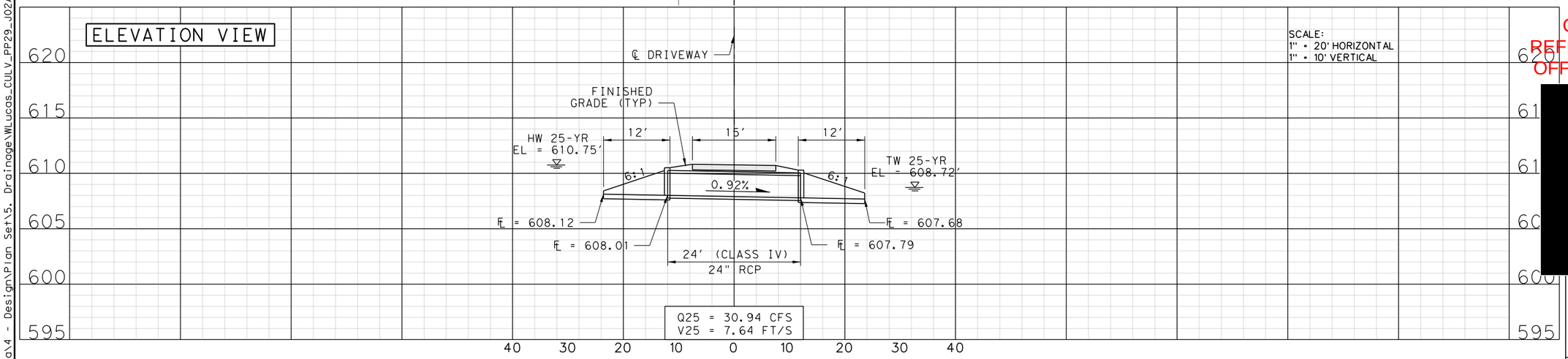
DATE: 4/6/2026 4:02:45 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP28_J02.dgn

Texas 811 Know what's below. Call before you dig.

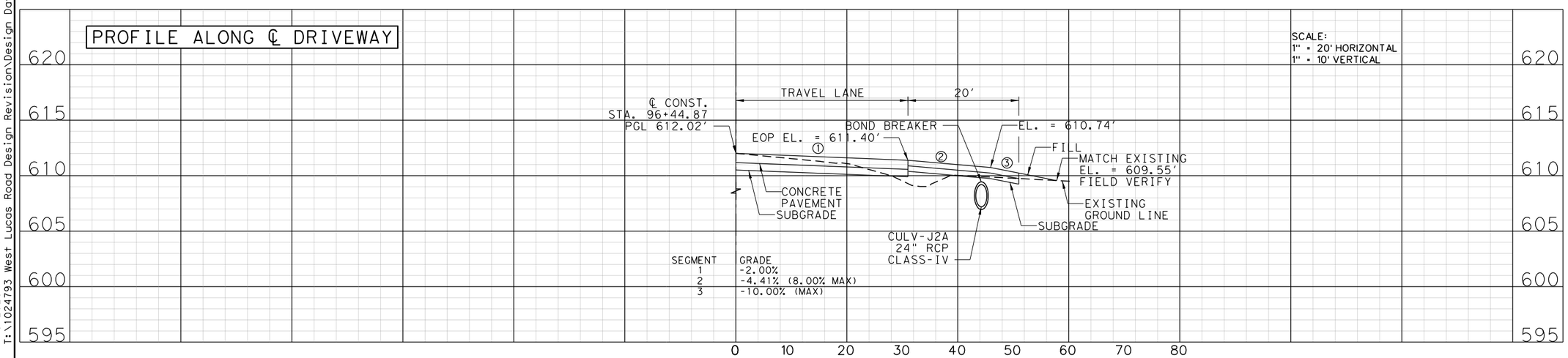
PLAN VIEW



ELEVATION VIEW



PROFILE ALONG ℄ DRIVEWAY



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

0 5 20
Feet

N

LEGEND:

- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE RIPRAP
- CONCRETE DRIVEWAY

NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

CULVERT J2A

[redacted]

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

DRIVEWAY &
CULVERT LAYOUT

SHEET 29 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

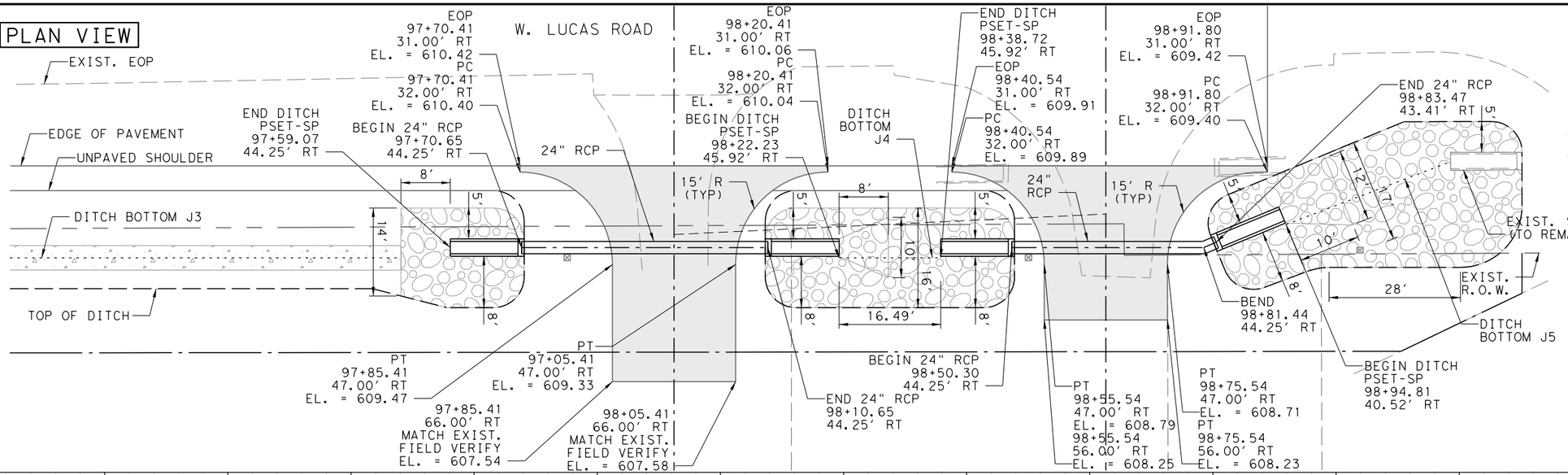
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	210
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:46 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP29_J02A.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW



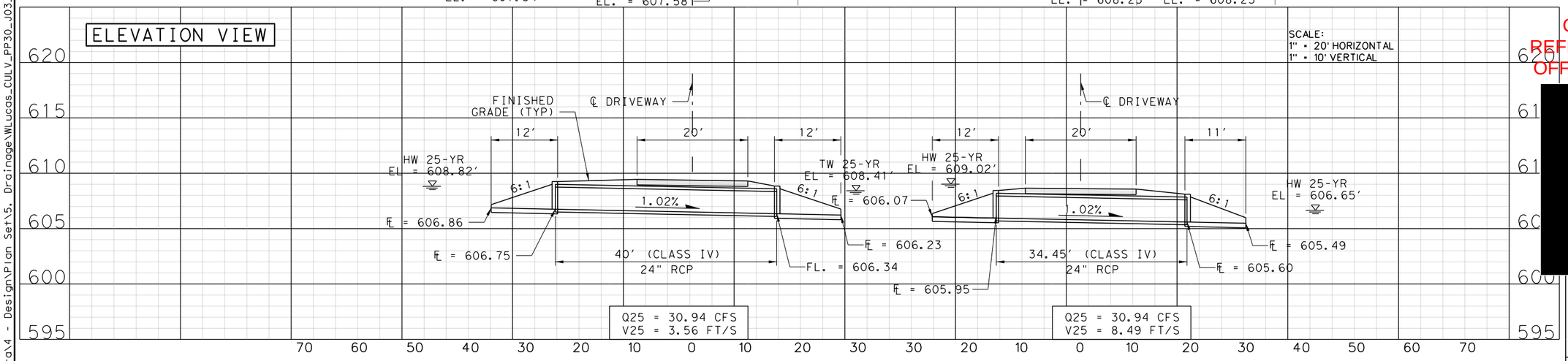
NOTES:

1. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD PSET-SP.
2. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
3. FOR ADDITIONAL CONCRETE DRIVEWAY DETAILS, SEE ROADWAY DETAIL SHEET.
4. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
PER TO BID SET FOR OFFICIAL DOCUMENTS

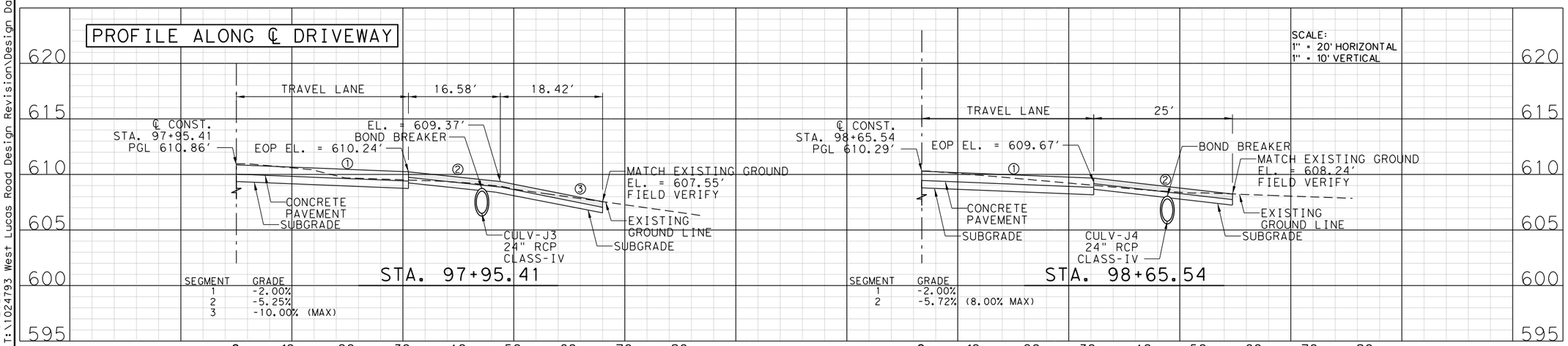
ELEVATION VIEW

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



PROFILE ALONG ℄ DRIVEWAY

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL



CULVERT J3
CULVERT J4

W. LUCAS RD. ROADWAY IMPROVEMENTS

DRIVEWAY & CULVERT LAYOUT

SHEET 30 OF 30

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	211
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:47 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP30_J03_J04.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW

NOTES:

1. FOR ADDITIONAL DETAILS ON RCB, SEE TXDOT STANDARD SCP-10 & SCP-MD.
2. FOR ADDITIONAL DETAILS ON HEADWALL, SEE TXDOT STANDARD PW-1.
3. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION WEST LUCAS ROAD.
4. UTILITIES NOT SHOWN FOR CLARITY.
5. CONTACT COSERV 48 HOURS PRIOR TO WORKING NEAR COSERV FACILITIES.
6. WHERE TIMBER POSTS ARE USED WITHIN 4FT OF THE PEDESTRIAN PATH, GRIND BOLTS FLUSH AFTER INSTALLATION OF NUT. WHERE STEEL POSTS ARE USED, PROVIDE STEEL PIPE RAIL ACCORDING TO DETAILS ON THIS SHEET.
7. CULVERT SD1 WAS ANALYZED USING THE U.S. ARMY CORPS OF ENGINEERS HEC-RAS (VERSION 4.10). RUNOFF USED IN THE HYDRAULIC ANALYSIS WAS DEVELOPED USING HEC-HMS (VERSION 4.12). FOR ADDITIONAL DETAILS, REFER TO THE DRAINAGE REPORT, WHICH DOCUMENTS THE HYDROLOGIC AND HYDRAULIC ANALYSES USED TO DERIVE THE DESIGN FLOW (Q) AND THE ASSOCIATED HEADWATER AND TAILWATER ELEVATIONS.

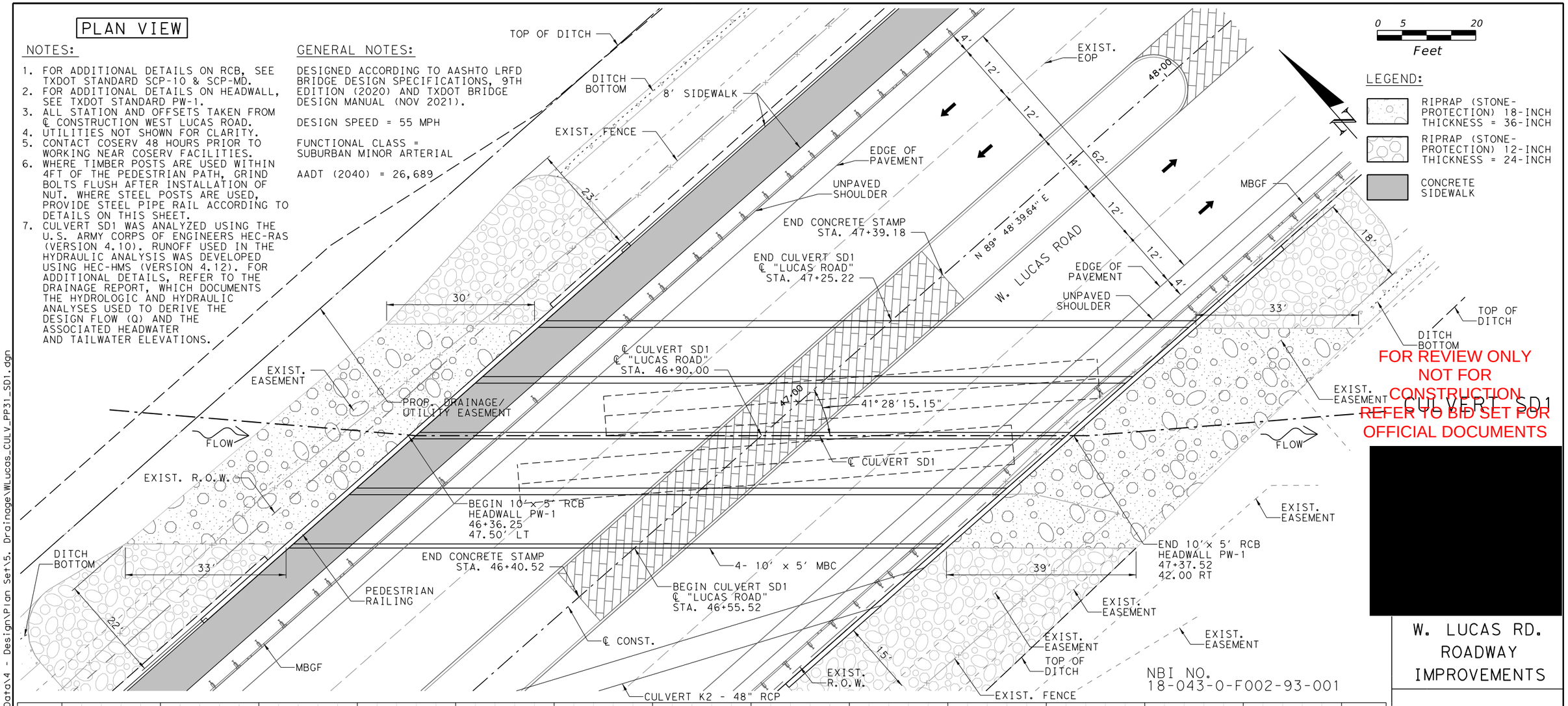
GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION (2020) AND TXDOT BRIDGE DESIGN MANUAL (NOV 2021).

DESIGN SPEED = 55 MPH

FUNCTIONAL CLASS = SUBURBAN MINOR ARTERIAL

AADT (2040) = 26,689



LEGEND:

- RIPRAP (STONE-PROTECTION) 18-INCH THICKNESS = 36-INCH
- RIPRAP (STONE-PROTECTION) 12-INCH THICKNESS = 24-INCH
- CONCRETE SIDEWALK

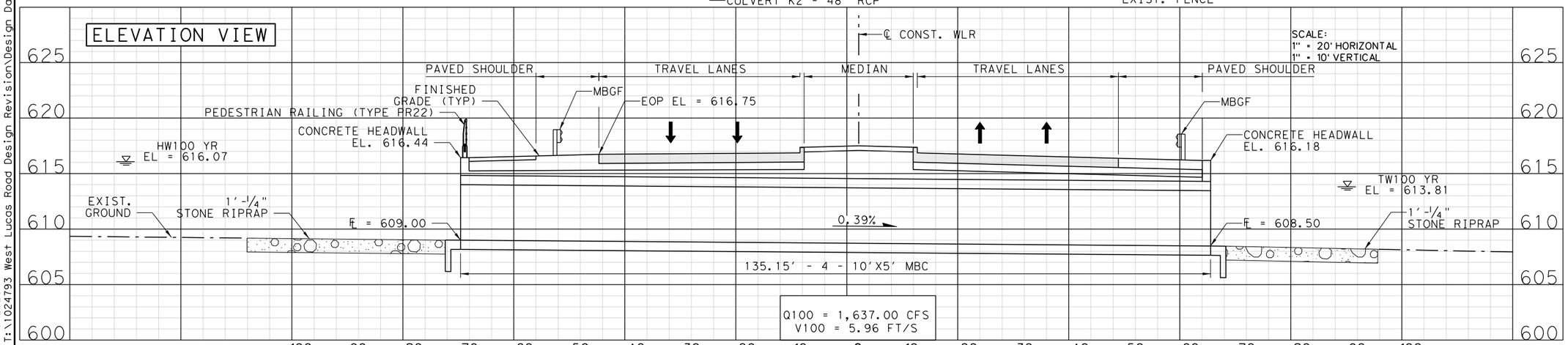
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

CULVERT SD1

[redacted]

NBI NO.
18-043-0-F002-93-001

ELEVATION VIEW



SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

W. LUCAS RD. ROADWAY IMPROVEMENTS

BRIDGE CLASS CULVERT LAYOUT

SHEET 1 OF 1

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	212
COUNTY		
COLLIN		

DATE: 4/6/2026 4:02:48 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP31_SD1.dgn

Texas811 Know what's below. Call before you dig.

PLAN VIEW

NOTES:

1. FOR ADDITIONAL DETAILS ON RCB, SEE TXDOT STANDARD SCP-5 & SCP-MD.
2. FOR ADDITIONAL DETAILS ON SAFETY END TREATMENT, SEE TXDOT STANDARD SETB-FW-S.
3. ALL STATION AND OFFSETS TAKEN FROM ℄ CONSTRUCTION.
4. UTILITIES NOT SHOWN FOR CLARITY.
5. THE LOW POINT AT STA. 71+95.02 IS DESIGNED TO TAKE DISCHARGE FROM DRAINAGE BASINS E, F & G (IN EXISTING CONDITION) TO THE SWALE ALONG BEE CAVE ROAD. OUTFLOW LIMITED TO EXISTING RATE.

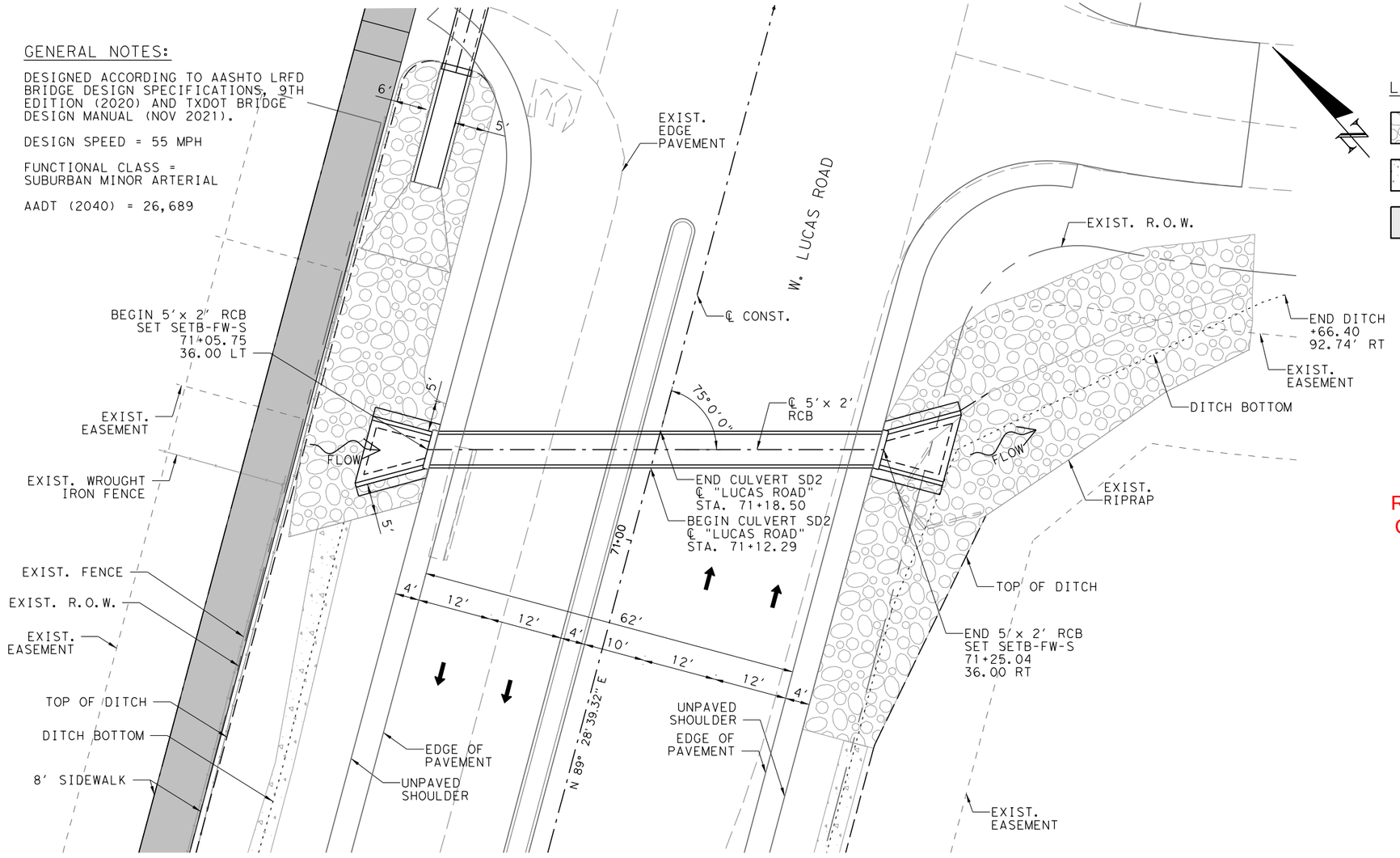
GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION (2020) AND TXDOT BRIDGE DESIGN MANUAL (NOV 2021).

DESIGN SPEED = 55 MPH

FUNCTIONAL CLASS = SUBURBAN MINOR ARTERIAL

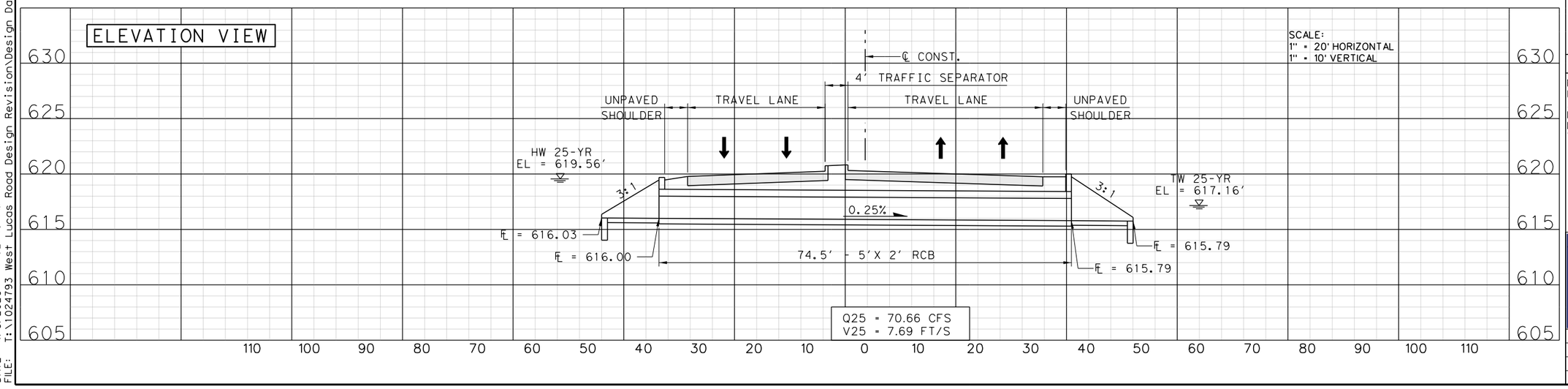
AADT (2040) = 26,689



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

CULVERT SD2

ELEVATION VIEW



Q25 = 70.66 CFS
V25 = 7.69 FT/S

SCALE:
1" = 20' HORIZONTAL
1" = 10' VERTICAL

W. LUCAS RD. ROADWAY IMPROVEMENTS

CROSSING CULVERT LAYOUT

SHEET 1 OF 1

N'TAKPE BORAUD, P.E.
LIC. No. 107164
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		213
COLLIN		

DATE: 4/6/2026 4:02:49 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\5. Drainage\WLucas_CULV_PP32_SD2.dgn

Texas811 Know what's below. Call before you dig.

Copyright: (c) 2013 Bentley Systems, Incorporated. All rights reserved.
Project: WLR revision
Subject:
Job No. 001 Operator: JK
Date: Wednesday July 16, 2025 9:19 am

SYSTEM FIX 4 ASEC 2 BEAR PRI 0 NOR NE STA 2 FILE: 'FM_HALN_1'

* 1 Describe Chain FM_HALN_1

Chain FM_HALN_1 contains:
FM1 FM2 FM3 FM4 FM5 FM6 FM7 FM8 FM9 FM10 FM11 FM12

Beginning chain FM_HALN_1 description

Point FM1	N	7,083,101.6101	E 2,545,201.9264	Sta 100+00.00
Course from FM1 to FM2 S 44 01' 58.69" E Dist 29.1716				
Point FM2	N	7,083,080.6375	E 2,545,222.2027	Sta 100+29.17
Course from FM2 to FM3 N 89 46' 33.77" E Dist 1,182.4417				
Point FM3	N	7,083,085.2593	E 2,546,404.6353	Sta 112+11.61
Course from FM3 to FM4 N 44 32' 06.28" E Dist 8.4688				
Point FM4	N	7,083,091.2960	E 2,546,410.5749	Sta 112+20.08
Course from FM4 to FM5 N 89 46' 33.77" E Dist 318.9223				
Point FM5	N	7,083,092.5426	E 2,546,729.4948	Sta 115+39.00
Course from FM5 to FM6 S 45 27' 53.72" E Dist 20.0473				
Point FM6	N	7,083,078.4825	E 2,546,743.7849	Sta 115+59.05
Course from FM6 to FM7 N 89 32' 06.28" E Dist 503.5975				
Point FM7	N	7,083,082.5689	E 2,547,247.3658	Sta 120+62.65
Course from FM7 to FM8 N 44 32' 06.28" E Dist 32.4092				
Point FM8	N	7,083,105.6709	E 2,547,270.0959	Sta 120+95.06
Course from FM8 to FM9 N 89 32' 06.28" E Dist 761.8833				
Point FM9	N	7,083,111.8531	E 2,548,031.9541	Sta 128+56.94
Course from FM9 to FM10 S 45 27' 53.72" E Dist 30.3786				
Point FM10	N	7,083,090.5472	E 2,548,053.6087	Sta 128+87.32
Course from FM10 to FM11 N 89 32' 06.28" E Dist 2,917.4891				
Point FM11	N	7,083,114.2207	E 2,550,971.0017	Sta 158+04.81
Course from FM11 to FM12 S 45 27' 53.72" E Dist 51.3967				
Point FM12	N	7,083,078.1739	E 2,551,007.6383	Sta 158+56.21

Ending chain FM_HALN_1 description

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN HORIZONTAL ALIGNMENT DATA

SHEET 1 OF 1

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		214
COLLIN		

DATE: 4/6/2026 4:10:01 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_HAD01.dgn

Texas 811 Know what's below. Call before you dig.

CONNECT TO EXISTING 18" WASTEWATER

PROPOSED 32" TRANSITION MANHOLE DETAIL, SEE FORCE MAIN DETAILS SHEETS

STA. EQUATION; CONST. 19+89.64 = BL FM 100+00.00

REMOVE 30 LF OF EXISTING 18" WASTEWATER

STA. EQUATION; CL CONST. 20+09.74 = BL FM 100+29.17 PROPOSED 1/8" BEND

POT 100+00.00

PI 100+29.17

PROPOSED 8" HDPE FM-DR 13.5

EXIST. R.O.W.

PROPOSED DRAINAGE & UTILITY EASEMENT

ROBERT STRATOR ROAD

60'

39'

4' MIN.

TRCN B-3

20+00

N 89° 32' 06.28" E

CITY OF LUCAS EXISTING 2.5" WATER LINE (AATUR)

W. LUCAS ROAD

CITY OF LUCAS EXISTING 8" WASTEWATER TO BE ABANDONED

℄ CONST.

CITY OF PARKER EXISTING 6" FORCEMAIN

EXIST. R.O.W.

CITY OF PARKER EXISTING 8" FORCEMAIN

DRAINAGE & SANITARY EASEMENT (TYP)

101+00 102+00 103+00 104

21+00 22+00 23+00

MATCH LINE STA. 104+00

0 10 40
Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

LEGEND:

TRCN B-3
STA=20+75.61
ELEV=632.77

8.875" HMAC OVER 3.5" LIME TREATED SUBGRADE

FILL-FAT CLAY WITH GRAVEL (CH)

LEAN CLAY (CL)

FAT CLAY (CH)

LIMESTONE

SEE FORCE MAIN DETAILS SHEET 1 OF 3, FOR TIE-IN DETAIL

PROPOSED 32" DISCHARGE MANHOLE

8" HDPE FM STA=100+22.54 INV=627.34'

EXISTING 18" WASTEWATER MEASUREDOWN = 627.26

EXISTING 18" WASTEWATER INV = 625.59

4' COVER MIN.

PROPOSED GROUND @ ℄ FM

EXISTING GROUND @ ℄ FM

PROPOSED 6" WATER LINE FIRE HYDRANT LEAD

PROPOSED 8" HDPE FM-DR 13.5

FM @ -0.36%

FLOW

8" HDPE FM STA=104+00.00 INV=619.45'

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

	100+00	101+00	102+00	103+00	104+00
EXIST.	632.33	629.97	629.63	629.25	628.17	627.81
PROP.	625.59	621.60	621.24	620.88	620.53	620.17	619.81	619.45

630 625 620

MATCH LINE STA. 104+00

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 1 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

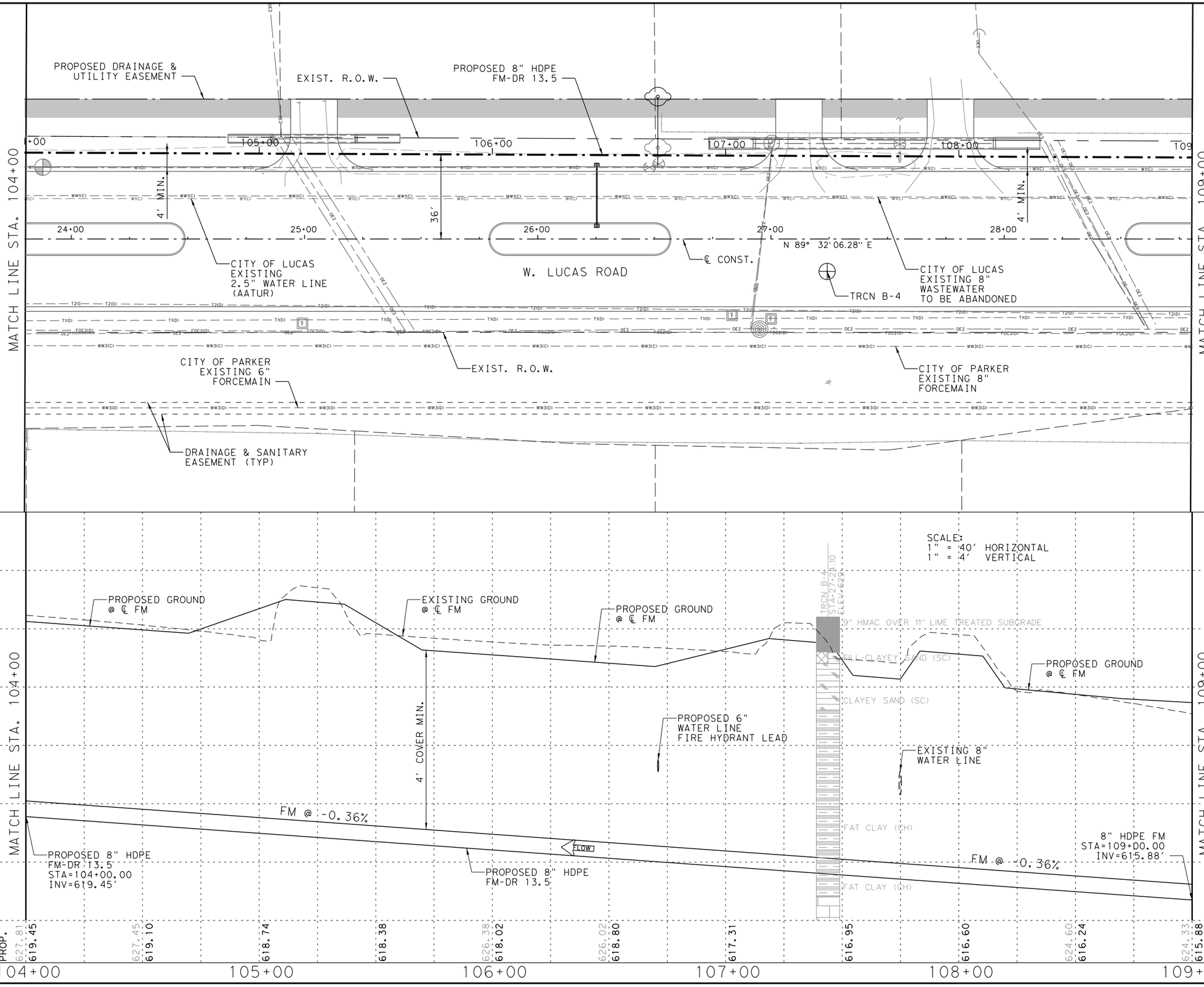
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	215
COUNTY		
COLLIN		

DATE: 4/6/2026 4:10:05 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP03.dgn

Texas 811 Know what's below. Call before you dig.



0 10 40
Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
RELEASED FOR BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 2 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	216
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:06 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP04.dgn

MATCH LINE STA. 109+00

MATCH LINE STA. 114+00

PROPOSED DRAINAGE & UTILITY EASEMENT

PROPOSED 8" HDPE FM-DR 13.5

EXIST. R.O.W.

STA. EQUATION; CL CONST. 31+92.17 = BL FM 112+11.61 PROPOSED 1/8" BEND

STA. EQUATION; CL CONST. 31+98.16 = BL FM 112+20.08 PROPOSED 1/8" BEND

112+11.61 PI 112+20.08

4' MIN.

4' MIN.

34'

34'

40'

110+00

111+00

112+00

113+00

114+00

29+00

30+00

31+00

32+00

33+00

N 89° 32' 06.28" E

℄ CONST.

W. LUCAS ROAD

TRCN B-5

PI 33+09.64

CITY OF LUCAS EXISTING 2.5" WATER LINE (AATUR)

CITY OF LUCAS EXISTING 8" WASTEWATER TO BE ABANDONED

EXIST. R.O.W.

CITY OF PARKER EXISTING 8" FORCEMAIN

CITY OF PARKER EXISTING 6" FORCEMAIN

DRAINAGE & SANITARY EASEMENT (TYP)

CRATER BONE DR.

0 10 40

Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
RELEASED BY PE FOR OFFICIAL DOCUMENTS

PROPOSED GROUND @ ℄ FM

EXISTING GROUND @ ℄ FM

PROPOSED GROUND @ ℄ FM

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

7" HMAC OVER 7" LIME TREATED SUBGRADE

FILL-FAT CLAY (CH)

FAT CLAY (CH)

LIMESTONE

LIMESTONE

TRCN B-5 STA. 113+00.00 ELEV. 624.15

EXISTING 12" WATER LINE

EXISTING 12" WATER LINE

PROPOSED 6" WATER LINE FIRE HYDRANT LEAD

4' COVER MIN.

FM @ -0.36%

FLOW

8" HDPE FM STA=109+00.00 INV=615.88'

PROPOSED 8" HDPE FM-DR 13.5

FM @ -0.36%

8" HDPE FM STA=114+00.00 INV=612.31'

	EXIST.	PROP.	EXIST.	PROP.	EXIST.	PROP.	EXIST.	PROP.	EXIST.	PROP.	EXIST.	PROP.
	624.33	615.88	624.04	615.52	624.04	615.17	614.81	614.45	622.86	614.09	621.66	613.74
	620.38	613.38	613.02	612.66	612.31							

625 620 615 610

109+00 110+00 111+00 112+00 113+00 114+00

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 3 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

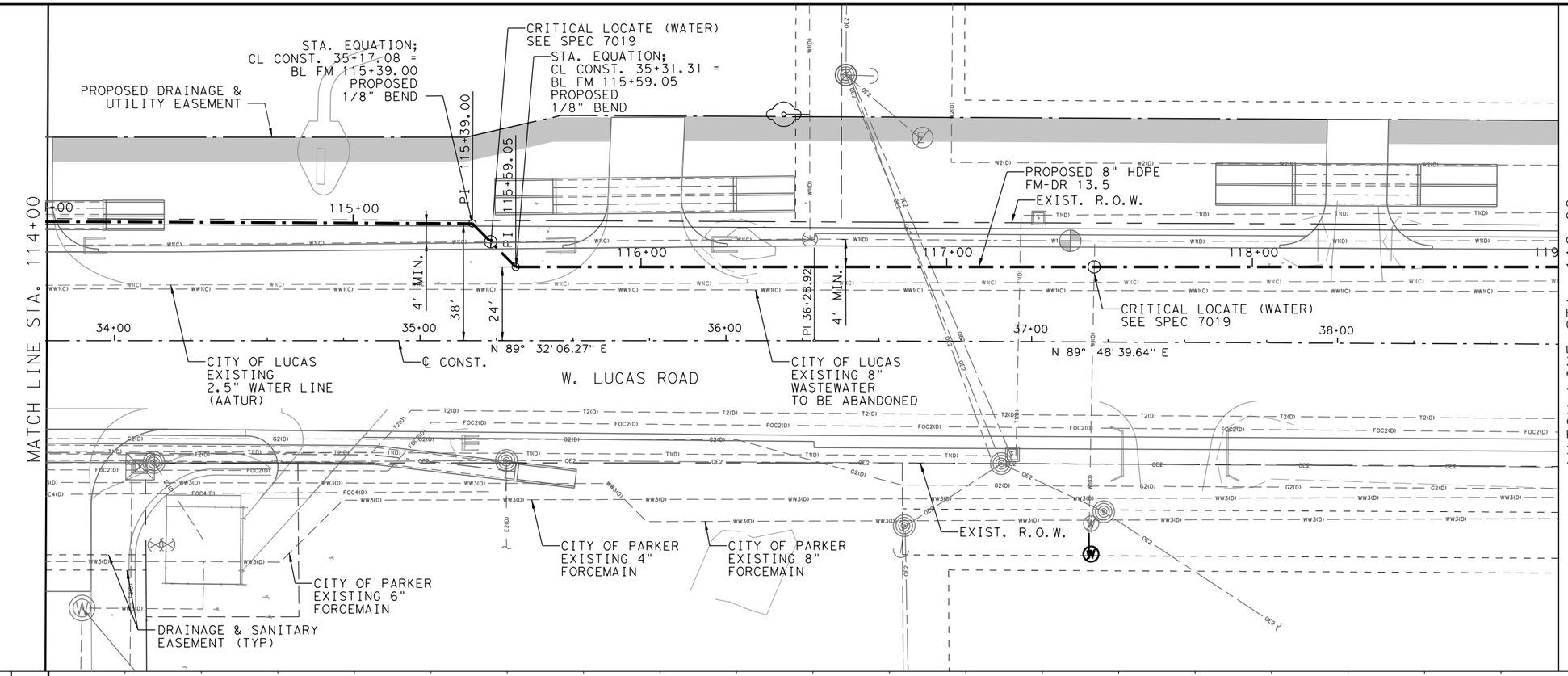
PARSONS

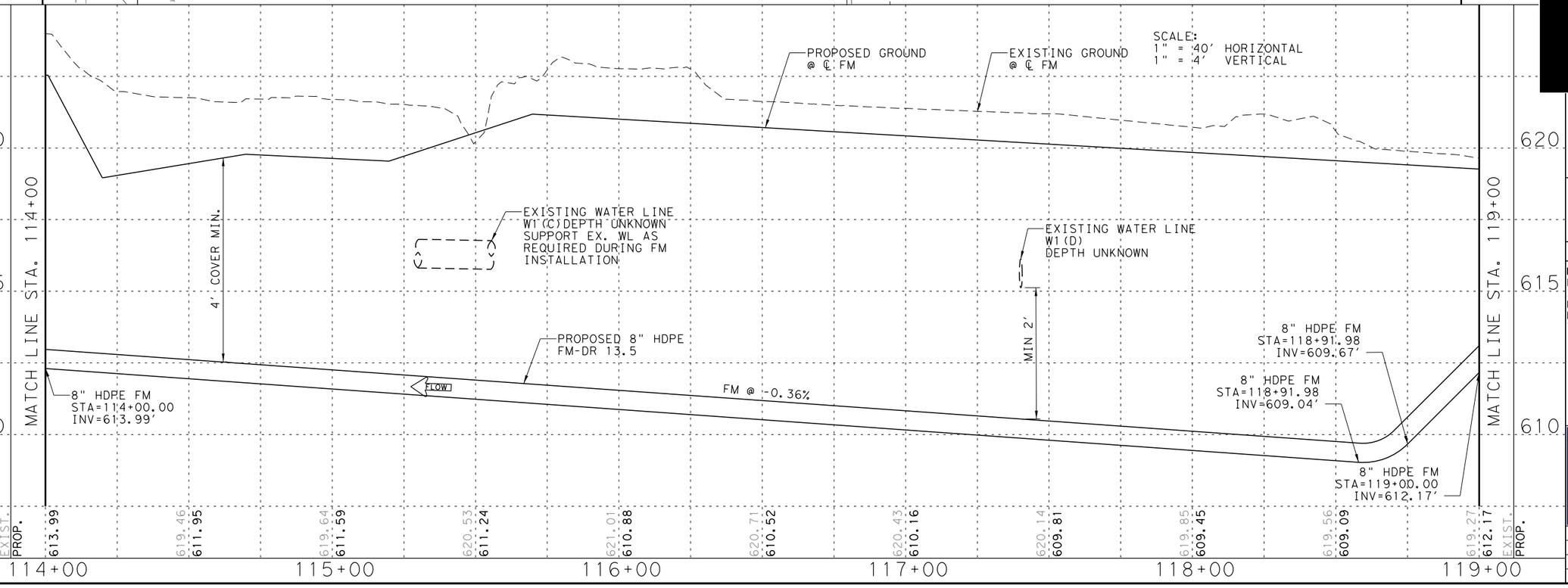
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	217
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:07 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP05.dgn





0 10 40
Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
RELEASED FOR BID SET FOR OFFICIAL DOCUMENTS

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 4 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

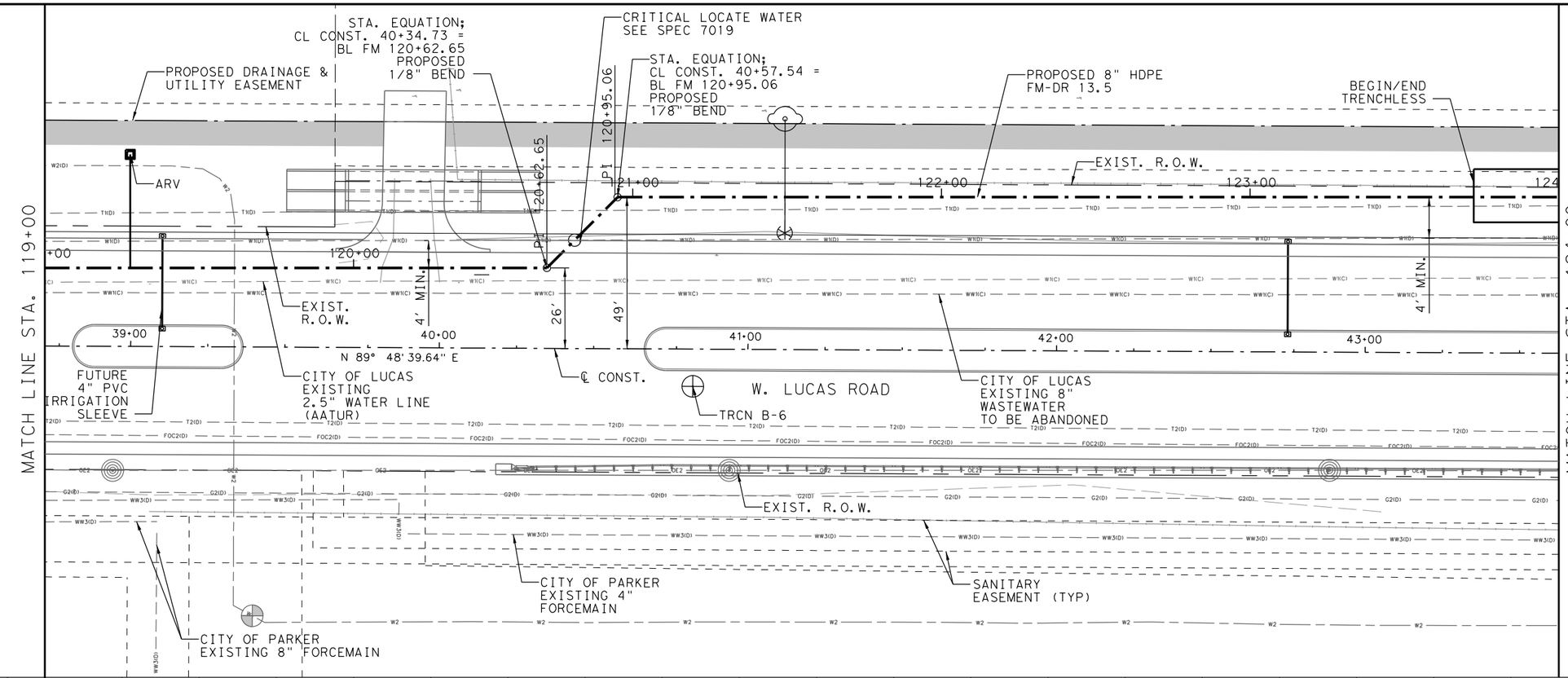
PARSONS

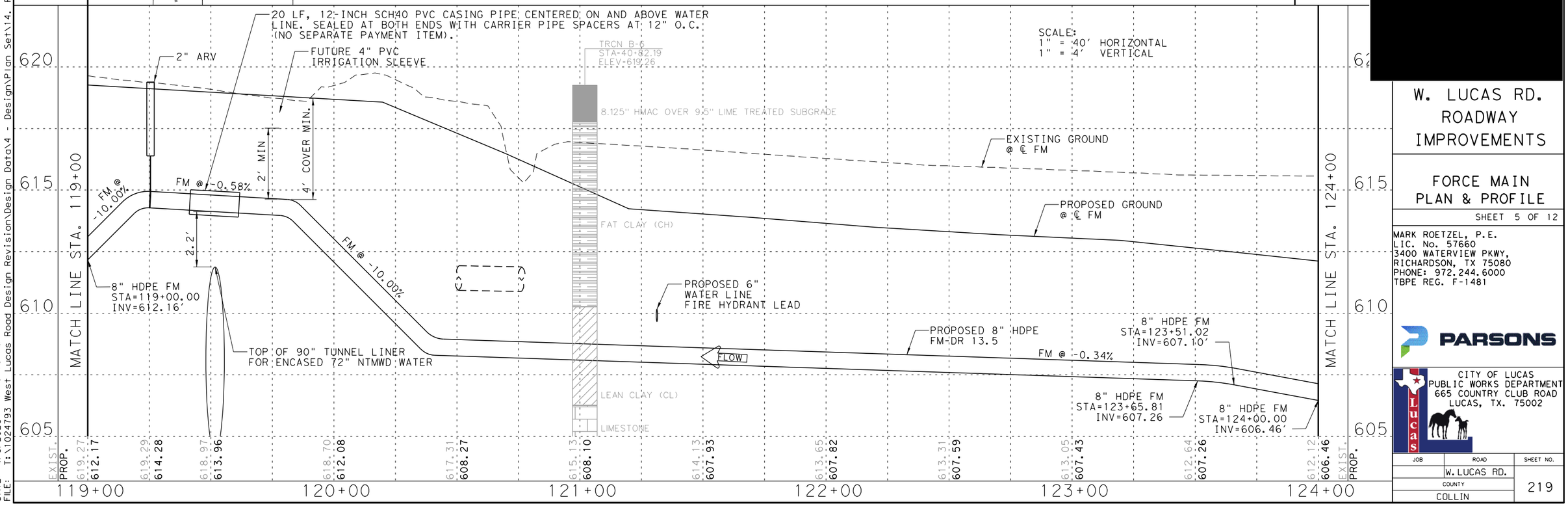
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	218
	COUNTY	
	COLLIN	

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP06.dgn





0 10 40
Feet

N

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
RELEASED SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 5 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		219
COLLIN		

Texas 811
Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:10 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP07.dgn

MATCH LINE STA. 124+00

MATCH LINE STA. 129+00

PROPOSED DRAINAGE & UTILITY EASEMENT

FM DRAIN, SEE FORCE MAIN DETAIL SHEET 1 OF 3

℄ MUDDY CREEK

PROPOSED 8" HDPE FM-DR 13.5

EXIST. R.O.W.

CRITICAL LOCATE (WATER) SEE SPEC 7019 (SEE NOTE 6)

STA. EQUATION; CL CONST. 48+19.41 = BL FM 128+56.94 PROPOSED 1/8" BEND

BEGIN/END TRENCHLESS

CP

PI 128+87.32

125+00 126+00 127+00 128+00 129+00

4' MIN.

4' MIN.

53'

31'

44+00 45+00 46+00 47+00 48+00

N 89° 48' 39.64" E

CITY OF LUCAS EXISTING 2.5" WATER LINE (AATUR)

CITY OF LUCAS EXISTING 8" WASTEWATER TO BE ABANDONED

W. LUCAS ROAD

℄ CONST.

STA. EQUATION; CL CONST. 48+41.01 = BL FM 128+87.32 PROPOSED 1/8" BEND

EXIST. R.O.W.

CITY OF PARKER EXISTING 4" FORCEMAIN

SANITARY EASEMENT (TYP)

GENERAL NOTE:

CONTRACTOR SHALL PROVIDE FLOW DIVERSION PUMPING AT MUDDY CREEK AND TRENCH EXCAVATION DEWATERING AS NEEDED TO COMPLETE FM INSTALLATION, AND PROVIDE FLOWABLE FILL SECONDARY BACKFILL ABOVE FM WITHIN 50-FT EACH SIDE OF THE CREEK CENTERLINE. (NSPI).

PROPOSED GROUND @ ℄ FM

FORCE MAIN DRAIN VALVE

EXISTING GROUND @ ℄ FM

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

615
610
605
600

4' COVER MIN.

EXIST 4" WATER LINE (DEPTH UNKNOWN)

PROPOSED 6" WATER LINE FIRE HYDRANT LEAD

FM @ -1.85%

FLOW

HORIZONTAL

FM @ 0.72%

MIN 2'

8" HDPE FM
STA=124+00.00
INV=606.46'

8" HDPE FM
STA=125+60.64
INV=603.50'

8" HDPE FM
STA=125+78.79
INV=603.33'

8" HDPE FM
STA=127+13.32
INV=603.33'

8" HDPE FM
STA=127+19.03
INV=603.35'

PROPOSED 8" HDPE FM-DR 13.5

8" HDPE FM
STA=129+00.00
INV=604.39'

	124+00	125+00	126+00	127+00	128+00	129+00
EXIST.	612.12	611.75	615.55	615.47	611.55	609.00	612.56	614.84	614.73	615.89	616.68
PROP.	606.46	605.54	604.62	603.70	603.33	603.33	603.33	603.53	603.81	604.10	604.39

0 10 40
Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 6 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	220
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:11 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP08.dgn

PROPOSED DRAINAGE & UTILITY EASEMENT

PROPOSED 8" HDPE FM-DR 13.5

CITY OF LUCAS EXISTING 2.5" WATER LINE (AATUR)

EXIST. R.O.W.

MATCH LINE STA. 129+00

MATCH LINE STA. 134+00

130+00 131+00 132+00 133+00 134

4' MIN.

TRCN B-7

33'

49+00 50+00 51+00 52+00 53+00

N 89° 48' 39.64" E

W. LUCAS ROAD

℄ CONST.

FUTURE 4" PVC IRRIGATION SLEEVE

CITY OF LUCAS EXISTING 8" WASTEWATER TO BE ABANDONED

EXIST. R.O.W.

SANITARY EASEMENT (TYP)

CITY OF PARKER EXISTING 4" FORCEMAIN

0 10 40
Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

PROPOSED GROUND @ ℄ FM

TRCN B-7 STA=48+43.99 ELEV=615.31

9" HMAC OVER 6" LIME TREATED SUBGRADE

FILL-FAT CLAY (CH)

EXISTING GROUND @ ℄ FM

4' COVER MIN.

3' COVER

FUTURE 4" PVC IRRIGATION SLEEVE

8" HDPE FM STA=134+00.00 INV=609.70'

FM @ 0.57%

FLOW

PROPOSED 8" HDPE FM-DR 13.5

FAT CLAY (CH)

8" HDPE FM STA=129+00.00 INV=604.39'

615 610 605

	EXIST.	PROP.										
	616.68	604.39	616.65	604.67	616.63	605.15	616.62	605.72	616.60	606.29	616.60	606.86
	616.56	607.43	616.54	608.00	616.52	608.57	616.51	609.14	616.58	609.70	EXIST.	PROP.

129+00 130+00 131+00 132+00 133+00 134+00

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 7 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	221
COUNTY		
COLLIN		

DATE: 4/6/2026 4:10:12 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP09.dgn

Texas 811 Know what's below. Call before you dig.

PROPOSED DRAINAGE & UTILITY EASEMENT

PROPOSED 8" HDPE FM-DR 13.5

CITY OF LUCAS EXISTING 2.5" WATER LINE (AATUR)

ARV

EXIST. R.O.W.

MATCH LINE STA. 134+00

MATCH LINE STA. 139+00

135+00 136+00 137+00 138+00

4' MIN.

4' MIN.

35'

4' MIN.

54+00 55+00 56+00 57+00 58+00

N 89° 48' 39.64" E

℄ CONST.

CITY OF LUCAS EXISTING 8" WASTEWATER TO BE ABANDONED

W. LUCAS ROAD

TRCN B-8

EXIST. R.O.W.

SANITARY EASEMENT (TYP)

MIDDLETON DR.

CITY OF PARKER EXISTING 4" FORCEMAIN

0 10 40

Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
RELEASED FOR BID SET
OFFICIAL DOCUMENTS

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

TRCN B-8
STA=57+80.04
ELEV=621.32

8.25" HMAC OVER 8" LIME TREATED SUBGRADE

FAT CLAY (CH)

LIMESTONE

PROPOSED GROUND @ ℄ FM

EXISTING GROUND @ ℄ FM

4' COVER MIN.

2" ARV

8" HDPE FM
STA=138+25.00
INV=614.25'

PROPOSED 8" HDPE FM-DR 13.5

FM @ 1.14%

FLOW

8" HDPE FM
STA=137+71.98
INV=613.94'

8" HDPE FM
STA=139+00.00
INV=614.30'

8" HDPE FM
STA=134+00.00
INV=609.70'

620
615
610
605

EXIST. 616.58 PROP. 609.70
616.82 610.27
617.23 610.84
617.72 611.41
618.21 611.98
618.70 612.55
619.08 613.12
619.45 613.69
619.78 614.18
620.21 614.27
620.17 614.30 EXIST. PROP.

134+00 135+00 136+00 137+00 138+00 139+00

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 8 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	222
COUNTY		
COLLIN		

DATE: 4/6/2026 4:10:13 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP10.dgn

Texas811 Know what's below. Call before you dig.

PROPOSED DRAINAGE & UTILITY EASEMENT

CITY OF LUCAS EXISTING 2.5" WATER LINE (AATUR)

PROPOSED 8" HDPE FM-DR 13.5

INGRAM LANE

MATCH LINE STA. 139+00

MATCH LINE STA. 144+00

4' MIN.

W. LUCAS ROAD

CRITICAL LOCATE (GAS) SEE SPEC 7019 (SEE NOTE 6)

PI 62-01.31

4' MIN.

38'

59+00 60+00 61+00 62+00 63+00

N 89° 48' 39.64" E

CITY OF LUCAS EXISTING 8" WASTEWATER TO BE ABANDONED

℄ CONST.

EXIST. R.O.W.

SANITARY SEWER EASEMENT (TYP)

CITY OF PARKER EXISTING 4" FORCEMAIN

139+00 140+00 141+00 142+00 143+00 144+00

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

EXISTING GROUND @ ℄ FM

PROPOSED GROUND @ ℄ FM

EXISTING GAS LINE

2' MIN

4' COVER MIN.

PROPOSED 8" HDPE FM-DR 13.5

FM @ 0.06%

FLOW

8" HDPE FM
STA=139+00.00
INV=614.30'

8" HDPE FM
STA=141+85.57
INV=614.48'

8" HDPE FM
STA=142+00.65
INV=614.47'

8" HDPE FM
STA=144+00.00
INV=613.98'

625 620 615 610

	139+00	140+00	141+00	142+00	143+00	144+00
EXIST.	620.17	620.25	620.33	620.40	620.48	620.76	620.93	621.10	621.26
PROP.	614.30	614.33	614.36	614.40	614.43	614.47	614.34	614.22	614.10	613.98

0 10 40
Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
RELEASED FOR BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 9 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

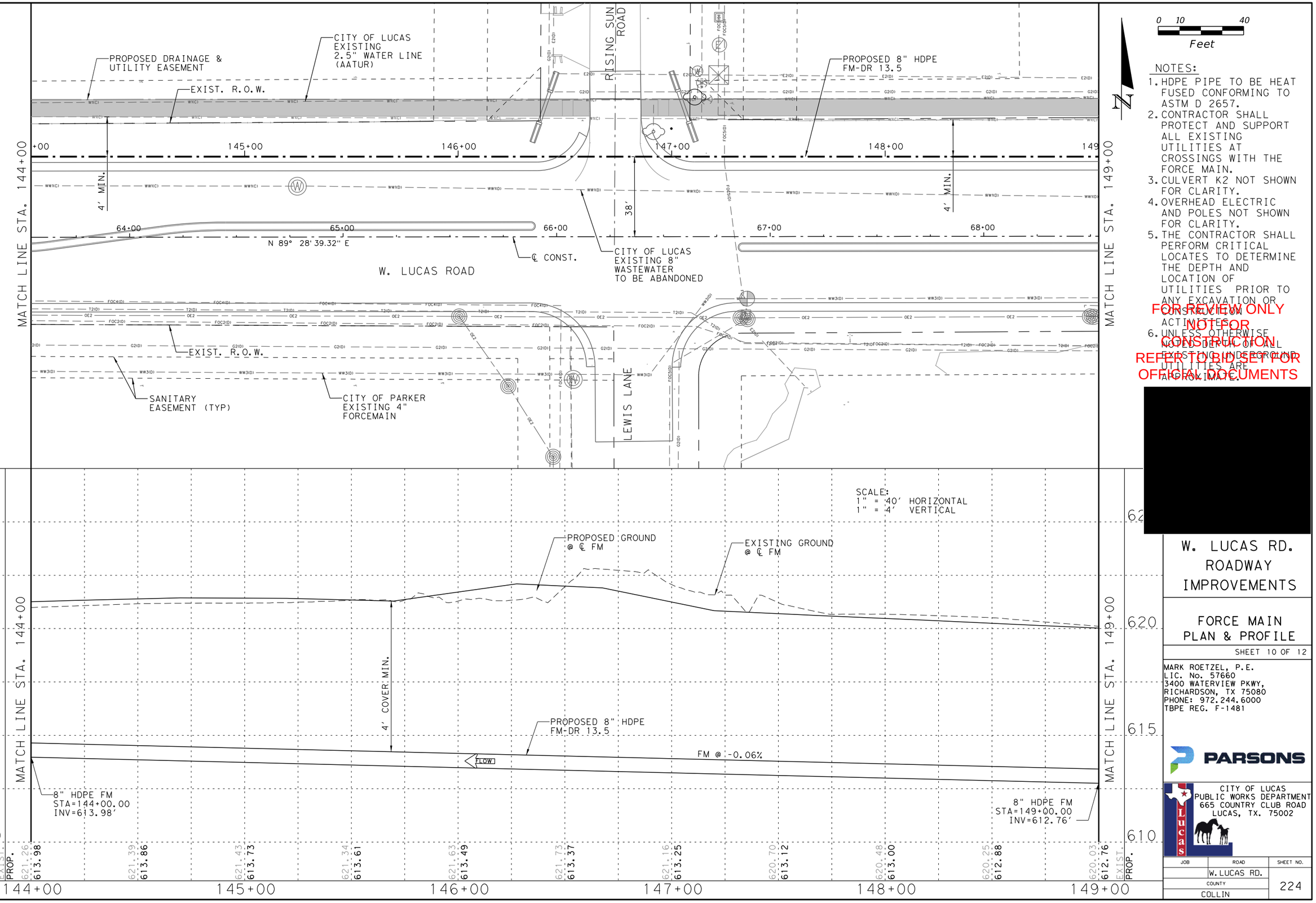
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		223
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:15 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP11.dgn



0 10 40
Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
RELEASED FOR BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 10 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	224
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:16 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP12.dgn

PROPOSED DRAINAGE & UTILITY EASEMENT

PROPOSED 8" HDPE FM-DR 13.5

CRITICAL LOCATE (ELECTRICAL AND GAS) SEE SPEC 7019 (SEE NOTE 6)

EXIST. R.O.W.

CITY OF LUCAS EXISTING 2.5" WATER LINE (AATUR)

RED STAR RD.

CRITICAL LOCATE (WATER) SEE SPEC 7019 (SEE NOTE 6)

MATCH LINE STA. 149+00

MATCH LINE STA. 154+00

+00 150+00 151+00 152+00 153+00 154

TRCN B-9

4' MIN.

37'

69+00 70+00 71+00 72+00 73+00

N 89° 28' 39.32" E

℄ CONST.

W. LUCAS ROAD

CITY OF LUCAS EXISTING 8" WASTEWATER TO BE ABANDONED

PROPOSED CULVERT 5'X2'RCB

BEE CAVE RD.

EXIST. R.O.W.

CITY OF PARKER EXISTING 4" FORCEMAIN

UTILITY EASEMENT (TYP)

PROPERTY LINE (TYP)

0 10 40

Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

TRCN B-9
STA=69+17.27
ELEV=621.16

5" HMAC OVER 6" LIME TREATED SUBGRADE

FILL-CLAYEY GRAVEL WITH SAND (GC)

FAT CLAY (CH)

EXISTING GAS

LEAN CLAY WITH SAND (CL)

PROPOSED GROUND @ ℄ FM

EXISTING GROUND @ ℄ FM

PROPOSED CULVERT 5'X2'RCB @ ℄ FM

4' COVER MIN.

MIN 2'

PROPOSED 8" HDPE FM-DR 13.5

FM @ -0.24%

FM @ -0.37%

FLOW

8" HDPE FM STA=149+00.00 INV=612.76'

8" HDPE FM STA=150+95.63 INV=612.28'

8" HDPE FM STA=151+26.75 INV=612.30'

8" HDPE FM STA=154+00.00 INV=613.31'

	149+00	150+00	151+00	152+00	153+00	154+00
EXIST.	620.03	619.80	619.47	619.21	619.08	619.01	619.11	619.18	619.26
PROP.	612.76	612.63	612.51	612.39	612.27	612.38	612.57	612.76	612.94	613.12	613.31

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 11 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	225
COUNTY		
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:17 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP13.dgn

MATCH LINE STA. 153+50

PROPOSED DRAINAGE & UTILITY EASEMENT

EXIST. R.O.W.

PROPOSED 8" HDPE FM-DR 13.5

CITY OF LUCAS EXISTING 2.5" WATER LINE (AATUR)

STA. EQUATION; CL CONST. 77+58.69 = BL FM 158+04.81 PROPOSED 1/8" BEND

155+00 156+00 157+00 158+00

158+04.81 PI

POT 158+56.21

36'

4' MIN.

FUTURE 4" PVC IRRIGATION SLEEVE

74+00 75+00 76+00 77+00 78+00

N 89° 28' 39.32" E

TRCN B-10

℄ CONST.

W. LUCAS ROAD

CITY OF LUCAS EXISTING 8" WASTEWATER TO BE ABANDONED

CUT AND PLUG EXISTING 8" WASTEWATER STA 158+46.00

EXIST. R.O.W.

CITY OF PARKER EXISTING 4" FORCEMAIN

WATER LINE EASEMENT (TYP)

CONNECT EXISTING 8" FM TO NEW FM W/ LINE TRANSITION ADAPTER AS NEEDED (NSPI)

0 10 40
Feet

NOTES:

1. HDPE PIPE TO BE HEAT FUSED CONFORMING TO ASTM D 2657.
2. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES AT CROSSINGS WITH THE FORCE MAIN.
3. CULVERT K2 NOT SHOWN FOR CLARITY.
4. OVERHEAD ELECTRIC AND POLES NOT SHOWN FOR CLARITY.
5. THE CONTRACTOR SHALL PERFORM CRITICAL LOCATES TO DETERMINE THE DEPTH AND LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
6. UNLESS OTHERWISE NOTED, DEPTH OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
RELEASED FOR BID SET
OFFICIAL DOCUMENTS

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

625 620 615 610

EXISTING GROUND @ ℄ FM

PROPOSED GROUND @ ℄ FM

4' COVER MIN.

FM @ -0.06%

FLOW

8" HDPE FM STA=154+00.00 INV=613.31'

8" HDPE FM STA=158+14.24 INV=614.84'

CUT & PLUG EXISTING 8" FM

CONNECT EXISTING 8" FM TO NEW FM W/ LINE TRANSITION ADAPTER AS NEEDED (NSPI)

TRCN B-10 STA=158+05.35 ELEV=621.92

3.75" HMAC OVER 6" CONCRETE

FAT CLAY (CH)

LIMESTONE

FUTURE 4" PVC IRRIGATION SLEEVE

	EXIST.	PROP.																				
	619.26	613.31	619.34	613.50	619.42	613.68	619.51	613.87	619.66	614.05	619.89	614.24	620.19	614.42	620.56	614.61	614.79					

154+00 155+00 156+00 157+00 158+00 159+00

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN PLAN & PROFILE

SHEET 12 OF 12

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

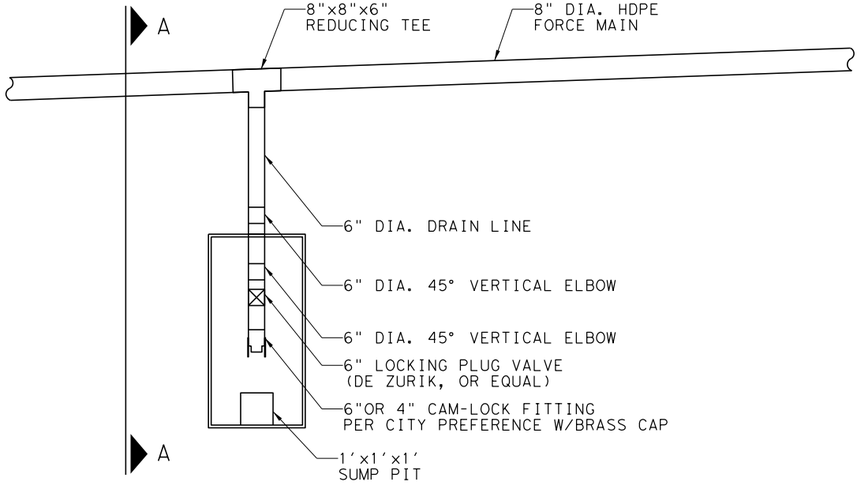
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

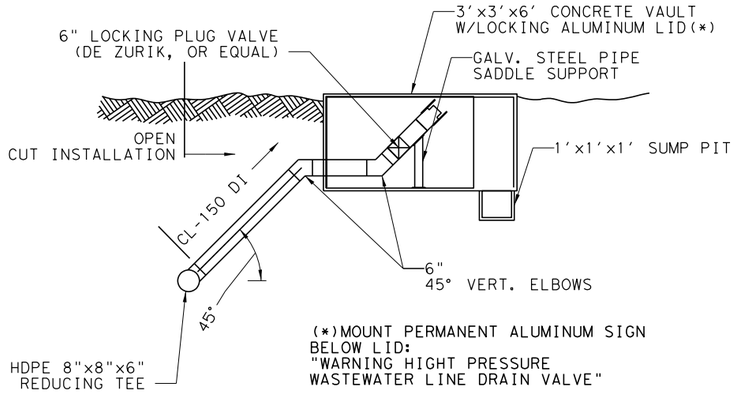
JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		226
COLLIN		

DATE: 4/6/2026 4:10:18 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_PP14.dgn

Texas 811 Know what's below. Call before you dig.



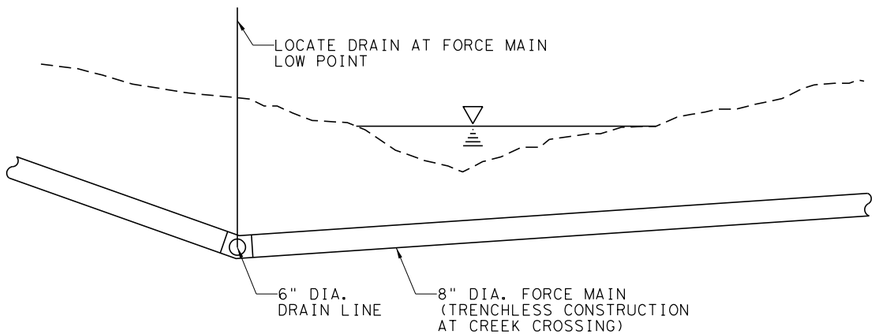
PLAN



NOTE:
FORCE MAIN DRAIN LINE ASSEMBLY WILL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED WORK (NSPI).

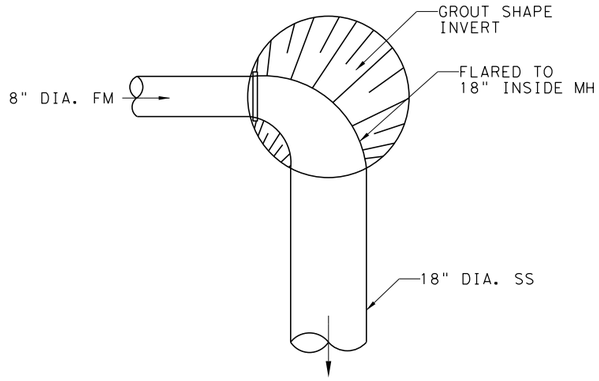
(*)MOUNT PERMANENT ALUMINUM SIGN BELOW LID:
"WARNING HIGHT PRESSURE WASTEWATER LINE DRAIN VALVE"

SECTION A-A

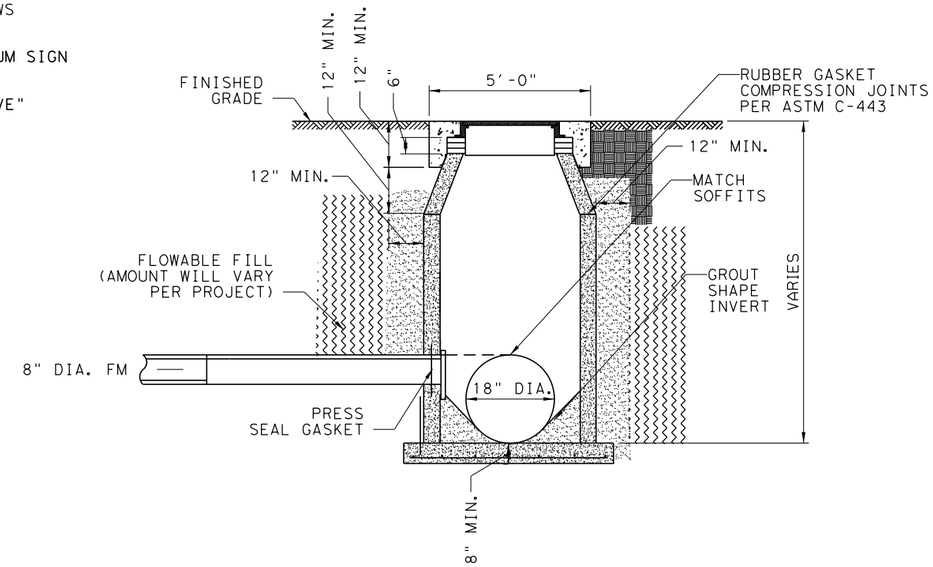


PROFILE

FORCE MAIN DRAIN DETAILS 1
NOT TO SCALE



PLAN VIEW



SECTION

TRANSITION MANHOLE DETAIL 2
NOT TO SCALE

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN DETAILS

SHEET 1 OF 3

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

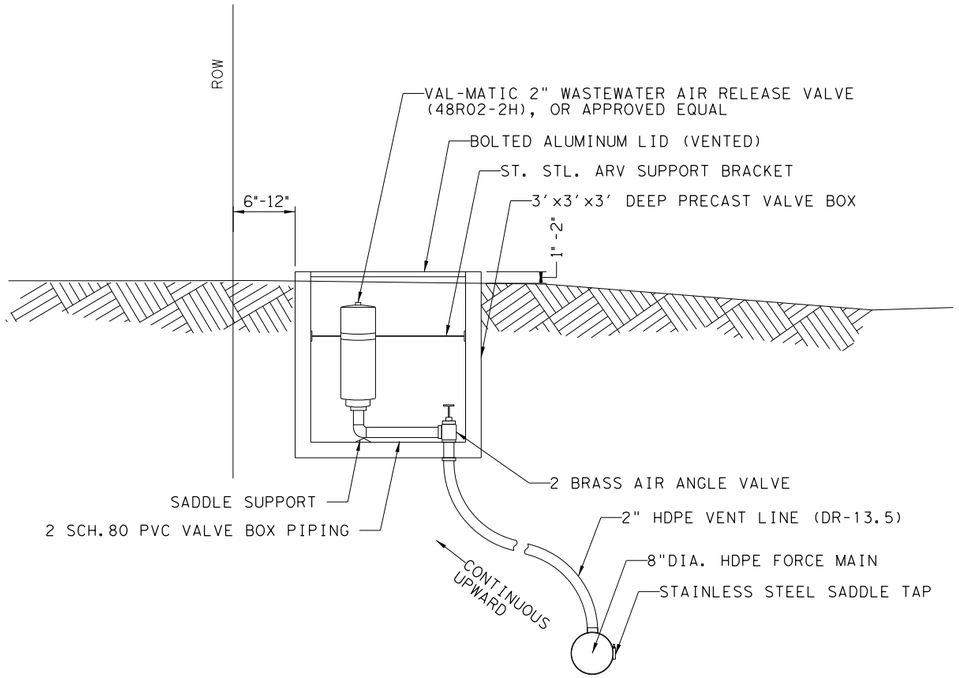
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

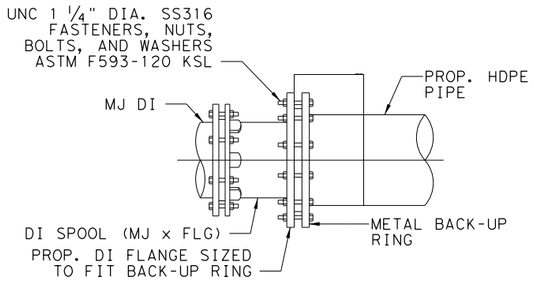
JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		227
COLLIN		

Texas811 Know what's below. Call before you dig.

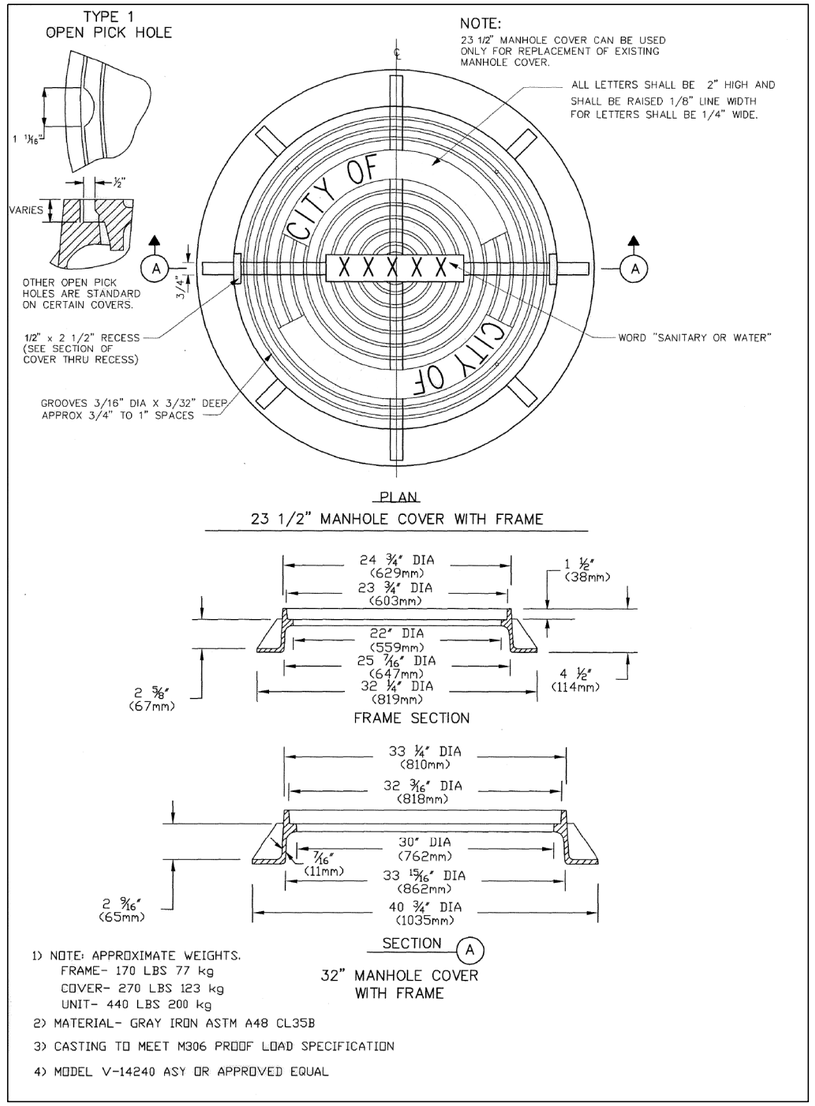
DATE: 4/6/2026 4:10:19 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_Manhole_details_01.dgn



AIR RELEASE VALVE DETAIL 3
NOT TO SCALE



DUCTILE IRON TO HDPE DETAIL 4
NOT TO SCALE



SANITARY SEWER AND WATER MANHOLE FRAME AND COVER 5
NOT TO SCALE

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN DETAILS

SHEET 2 OF 3

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

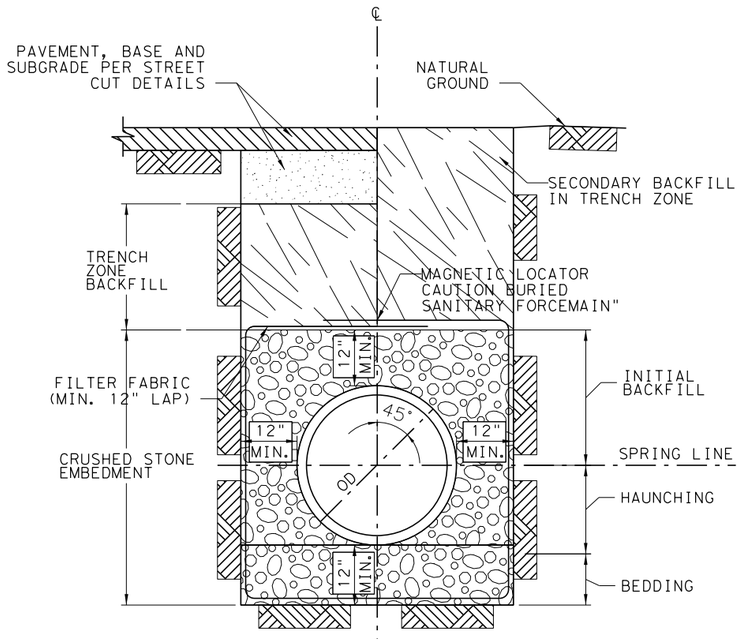
PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		228
COLLIN		

Texas811 Know what's below. Call before you dig.

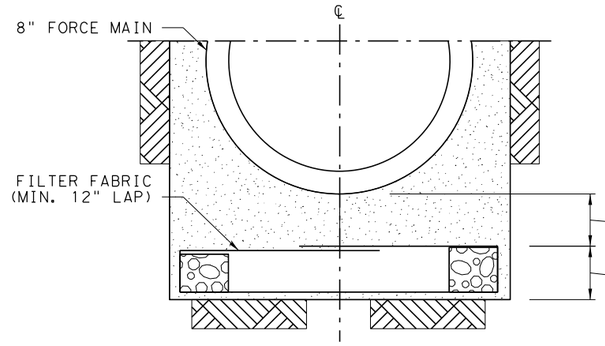
DATE: 4/6/2026 4:10:20 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_Manhole_details_02.dgn



TYPICAL CROSS-SECTION

NOTES:

1. MIN. TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE.
2. MAX. TRENCH WIDTH SHALL BE NOT GREATER THAN MIN. TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
3. TRENCH DAM MAY BE FORMED OR UNFORMED. ACTUAL SHAPE OF CONCRETE TRENCH DAM CROSS SECTION LMAY BE DETERMINED BY CONTRACTOR IN FIELD, MEETING MIN. THICKNESS AND KEY DEPTH REQUIREMENTS.
4. TRENCH DAM SHALL BE PLACED AT LEAST 5 FT AWAY FROM ANY PIPELINE STRUCTURE. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
5. PLACE TRENCH DAMS IN CLASS I EMBEDMENTS AT THE MIDPOINT OF LINE SEGMENTS LONGER THAN 100 FEET BETWEEN MANHOLES.
6. CRUSHED STONE FOR EMBEDMENT.

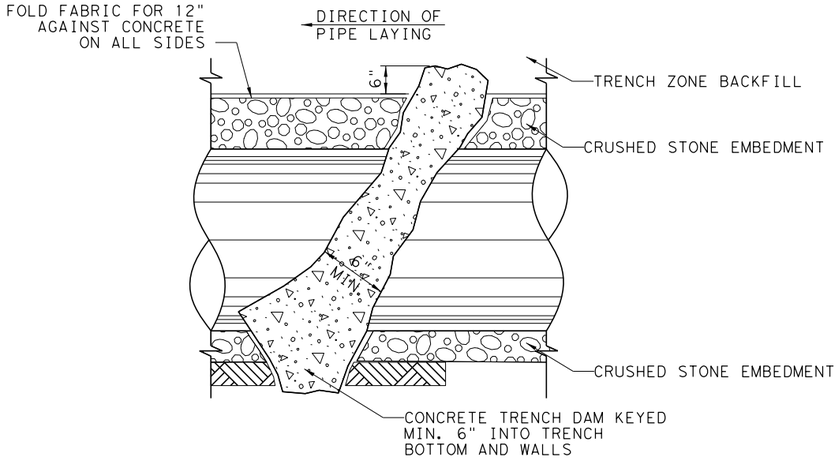


CROSS-SECTION OF CRUSHED STONE FOUNDATION

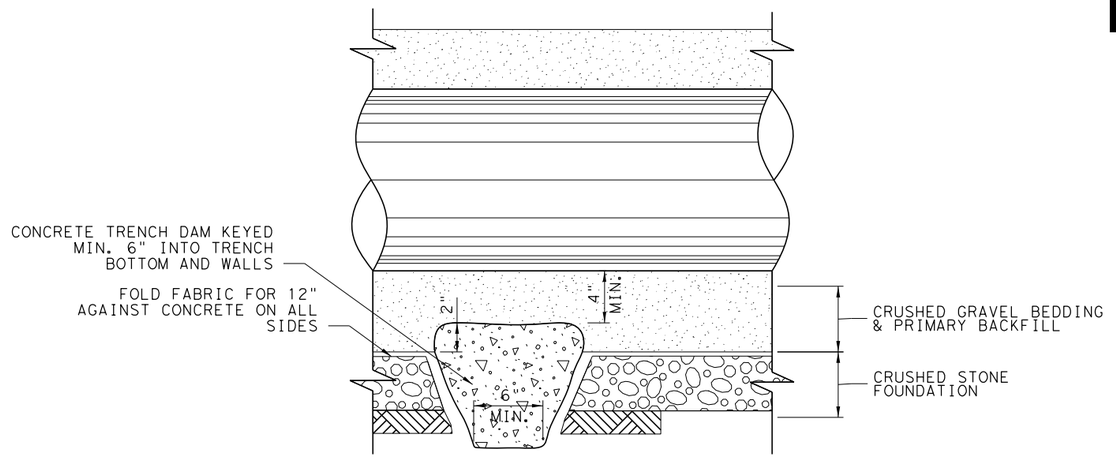
NOTES:

1. ACTUAL SHAPE OF CONCRETE TRENCH DAM CROSS SECTION MAY BE DETERMINED BY CONTRACTOR IN FIELD, MEETING MINIMUM THICKNESS AND KEY DEPTH REQUIREMENTS.
2. THIS DETAIL SHALL BE USED WITH CLASS II EMBEDMENT, IN WET STABLE TRENCH CONDITIONS.
3. PLACE TRENCH DAMS IN CLASS I EMEBEDMENTS AT THE MIDPOINT OF LINE SEGMENTS LONGER THAN 100 FEET BETWEEN MANHOLES.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS



LONGITUDINAL SECTION ALONG PIPE ℄
AT EMBEDMENT TRENCH DAM



LONGITUDINAL SECTION ALONG PIPE ℄
AT FOUNDATION TRENCH DAM

W. LUCAS RD. ROADWAY IMPROVEMENTS

FORCE MAIN DETAILS

SHEET 3 OF 3

MARK ROETZEL, P.E.
LIC. No. 57660
3400 WATERVIEW PKWY,
RICHARDSON, TX 75080
PHONE: 972.244.6000
TBPE REG. F-1481

PARSONS

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		229
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 4:10:23 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\14. Force Main\WLucas_FM_Manhole_details_03.dgn

SUE QUALITY

— ———— W1 ———— — QUALITY LEVEL "B"

– —— —— W1(C) —— —— – QUALITY LEVEL "C"

– —— —— W1(D) —— —— – QUALITY LEVEL "D"

TYPICAL FOR ALL UTILITIES

QUALITY LEVEL "D": INFORMATION DERIVED FROM EXISTING RECORDS AND/OR ORAL RECOLLECTIONS.

QUALITY LEVEL "C": INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

QUALITY LEVEL "B": INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

QUALITY LEVEL "A": PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT.

OVERHEAD UTILITY LEGEND

NO	UTILITY	OWNER
1	ELECTRIC	ONCOR ELECTRIC
2	ELECTRIC	GRAYSON COLLIN ELECTRIC COOPERATIVE
3	FIBER	SPECTRUM
4	FIBER/COAXIAL CABLE	SUDDENLINK
6	FIBER/TELEPHONE	FRONTIER COMMUNICATIONS
7	FIBER	GRANDE COMMUNICATIONS
8	FIBER	AT&T COMMUNICATIONS
9	FIBER	UNITE PRIVATE NETWORKS
10	TELEPHONE	COSERV

LEGEND

UTILITY TYPE		UTILITY OWNER
TRAFFIC SIGNAL	- —— —— TS1(D) —— —— -	CITY OF PARKER
ELECTRIC	- —— —— E2(D) —— —— -	GRAYSON COLLIN ELECTRIC COOPERATIVE
OVERHEAD ELECTRIC	— ———— OE1 ———— —	ONCOR ELECTRIC
OVERHEAD ELECTRIC	— ———— OE2 ———— —	GRAYSON COLLIN ELECTRIC COOPERATIVE
OVERHEAD TELEPHONE	— ———— OHT1 ———— —	AT&T COMMUNICATIONS
OVERHEAD TELEPHONE	— ———— OHT2 ———— —	FRONTIER COMMUNICATIONS
FIBER	—— —— FOC1(D) —— —— -	AT&T COMMUNICATIONS
FIBER	—— —— FOC2(D) —— —— -	FRONTIER COMMUNICATIONS
FIBER	—— —— FOC3(D) —— —— ·	GRANDE COMMUNICATIONS
FIBER	—— —— FOC4(D) —— —— ·	SPECTRUM
FIBER	—— —— FOC5(D) —— —— -	SUDDENLINK
FIBER	—— —— FOC6(D) —— —— -	UNITE PRIVATE NETWORKS
TELEPHONE	– —— —— T1(D) —— —— —	AT&T COMMUNICATIONS
TELEPHONE	– —— —— T2(D) —— —— —	FRONTIER COMMUNICATIONS
TELEPHONE	– —— —— T3(D) —— —— —	COSERV
GAS	· —— —— G1(D) —— —— –	ATMOS ENERGY
GAS	· —— —— G2(D) —— —— –	COSERV
WATER	- —— —— W1(D) —— —— –	CITY OF LUCAS
WASTEWATER	– —— —— WW1(D) —— —— –	CITY OF LUCAS
WATER	– —— —— W2(D) —— —— –	NORTH TEXAS MUNICIPAL WATER DISTRICT (NTMWD)
WATER	– —— —— W3(D) —— —— -	CITY OF PARKER
WASTEWATER	– —— —— WW3(D) —— —— -	CITY OF PARKER

NOTE:
UTILITY LINE SIZES ARE FROM BEST AVAILABLE RECORDS.
AATUR - ABANDONED ACCORDING TO UTILITY RECORDS.

SYMBOLS

- ELECTRIC TRANSFORMER BOX
- ELECTRIC POWER BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- TRAFFIC SIGNAL POWER BOX
- POWER POLE
- LIGHT POLE
- TRAFFIC SIGNAL LIGHT
- DOWN GUY AND ANCHOR
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- TELEPHONE HANDHOLE
- FIBER OPTIC VAULT
- FIBER OPTIC MANHOLE
- FIBER OPTIC HANDHOLE
- EXISTING WATER FIRE HYDRANT
- PROPOSED WATER FIRE HYDRANT
- WATER MANHOLE
- WATER VALVE
- WATER METER
- WATER VAULT
- GAS VENT
- GAS METER
- UTILITY CONTINUITY
- END OF UTILITY LINE
- SURVEY CONTROL POINT
- TEST HOLE LOCATION

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EXISTING UTILITY LEGEND & SYMBOLS

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bcc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		230
COLLIN		

DATE: 4/6/2026 1:56:59 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_01.dgn

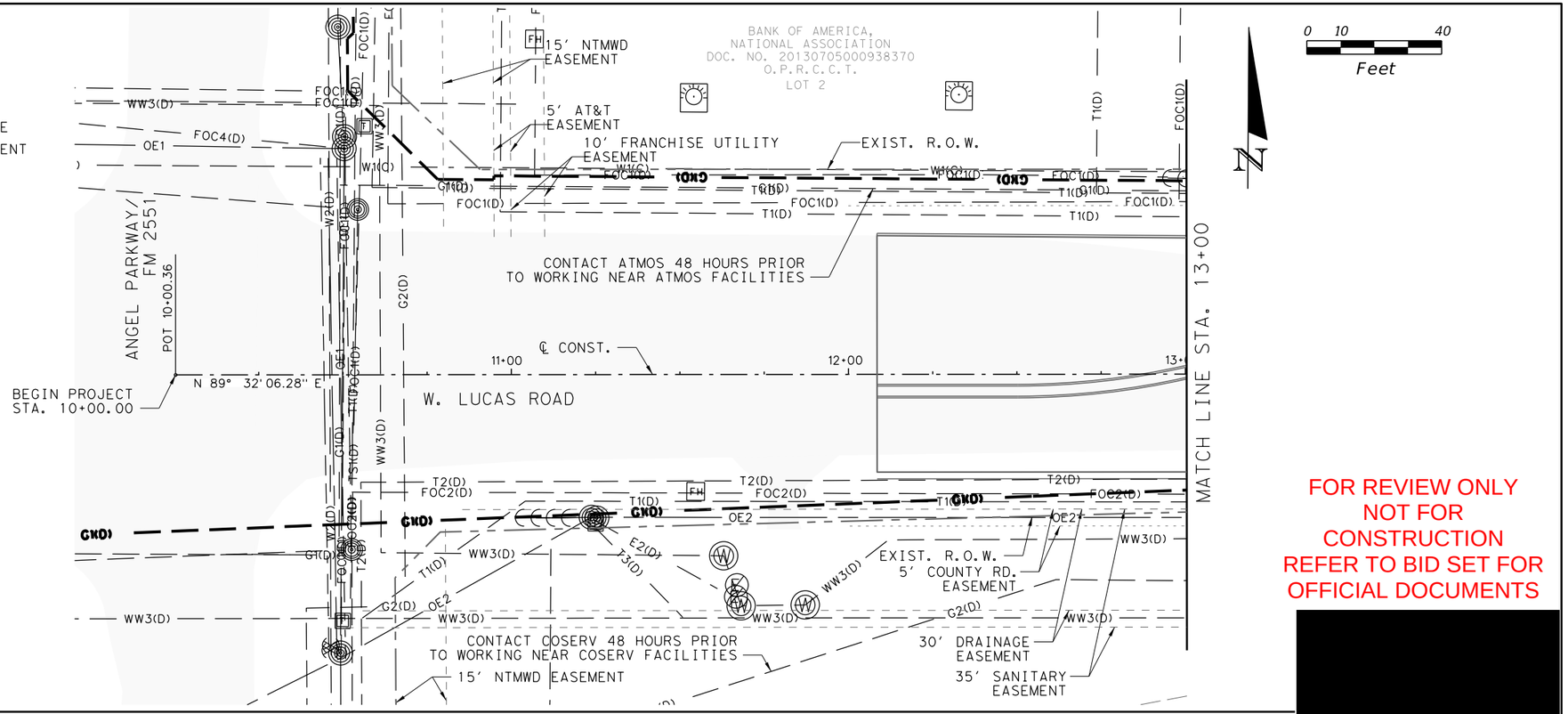
Texas811 Know what's below. Call before you dig.

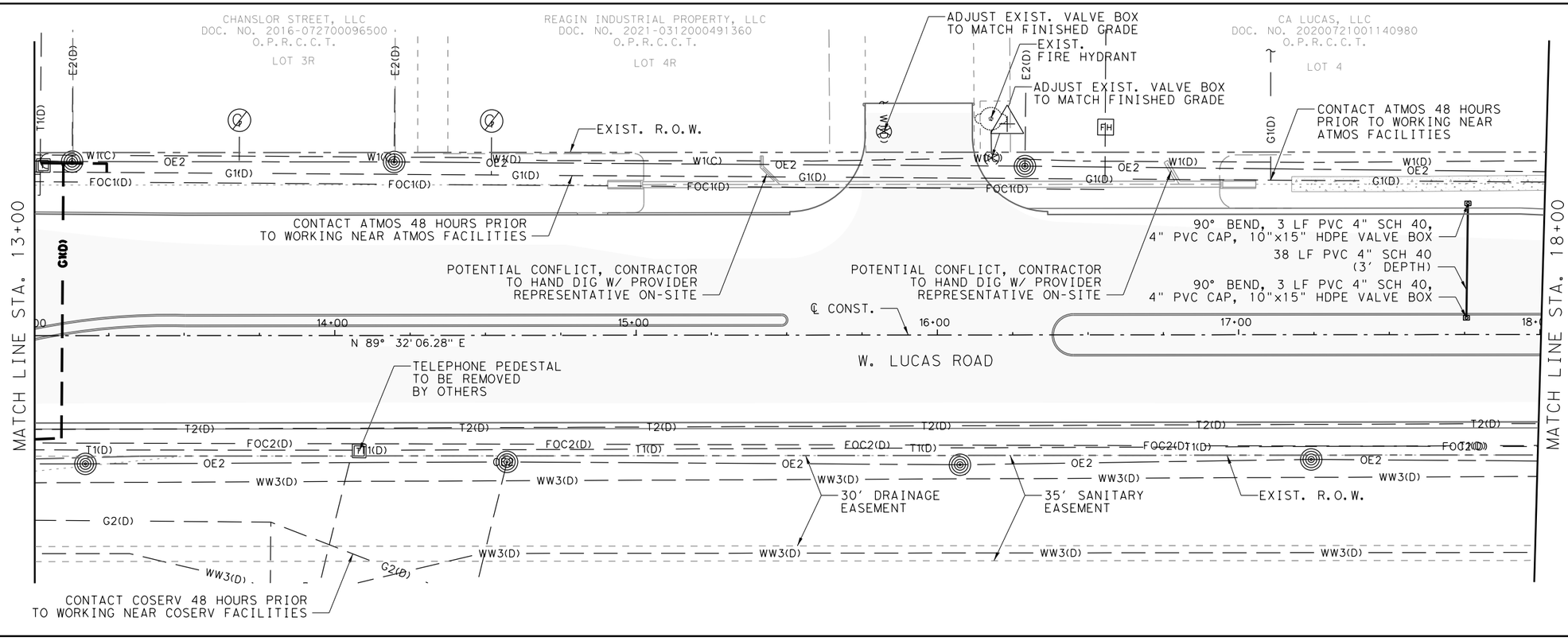
GENERAL NOTES:

1. GCEC UTILITY POLES TO BE RELOCATED BY OTHERS.
2. THERE ARE AREAS IN THE PLANS THAT MAY BE IN CONFLICT WITH UTILITIES REQUIRED TO BE RELOCATED BY OTHERS. COORDINATE W/ UTILITY IN CONFLICT PRIOR TO COMMENCING WORK TO PREVENT DELAYS TO THE PROJECT.
3. SPECIAL EXCEPTIONS MAY BE MADE FOR OUT OF SEQUENCE WORK FOR COORDINATION OF UTILITY RELOCATION IN ADVANCE OF THE WORK.
4. UTILITY LINES THAT ARE LOCATED WITHIN FOOTING OR BEDDING ELEMENTS MAY BE ENCASED IN CONCRETE AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR SHALL SLEEVE ANY ENCASED LINES BY APPROVED METHODS TO PREVENT CONTACT WITH CEMENTITIOUS MATERIALS.
5. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO FIELD-ADJUST CULVERTS TO AVOID CONFLICTS, IF NECESSARY
6. FOR LEGEND AND SYMBOLS SEE EXISTING UTILITY LEGEND & SYMBOLS SHEET.

LEGEND:

- SIGN & POST
- MAIL BOX
- FORCE MAIN LINE
- EXISTING PAVEMENT





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

UTILITY ADJUSTMENTS

SHEET 1 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		231
COLLIN		

DATE: 4/6/2026 1:57:01 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_02.dgn

Texas 811 Know what's below. Call before you dig.

PATTI STRATTON AND MILTION FRIE
VOL. 1745, PG. 556
D.R.C.C.T.
(CALLED 2.00 ACRES)

BILLY JAMES STRATTON
EASEMENT FOR
A ROAD AND UTILITY PURPOSES
DOC. NO. 20120507000530690
O.P.R.C.C.T.
(CALLED 0.301 ACRES)

0 10 40
Feet

N

RELOCATE FIRE HYDRANT ASSEMBLY
W/APPROX. 5 LF 6" WATER
+31.87, 68.71' LT

ADJUST EXIST. VALVE BOX
TO MATCH FINISHED GRADE

CONTACT ATMOS 48 HOURS PRIOR
TO WORKING NEAR ATMOS FACILITIES

ADJUST EXIST. FIRE HYDRANT
TO MATCH FINISHED GRADE

DRAINAGE &
UTILITY EASEMENT

BEGIN REMOVAL OF EXIST.
ABANDONED 6" WATER LINE
STA. 21+50.00
EXIST. R.O.W.

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

30 LF PVC 4" SCH 40 (3' DEPTH)

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

FIELD VERIFY
WATERLINE (HAND DIG)

RELOCATED FIRE HYDRANT ASSEMBLY
W/APPROX. 28 LF 6" WATER
+80.11, 60.96' LT

MATCH LINE STA. 18+00

19+00 20+00 21+00 22+00 23+

℄ CONST.

N 89° 32' 06.28" E

W. LUCAS ROAD

TELEPHONE PEDESTAL
TO BE REMOVED
BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

30' DRAINAGE
EASEMENT

35' SANITARY
EASEMENT

EXIST. R.O.W.

TEST HOLE #8

MATCH LINE STA. 23+00

ROBERT E. & ROYLA R. GOSSETT
DOC. NO. 20041117001668910
O.P.R.C.C.T.

ISAIAS & ANGELINA ALVARAN
DOC. NO. 20201203002168830
O.P.R.C.C.T.

MATHHEW J. EMPEY
DOC. NO. 20100203000113190
O.P.R.C.C.T.

JOSEPH & MAUREEN LAMPASONA
DOC. NO. 20100203000113190
O.P.R.C.C.T.

DOUGLAS A. MAZEY
DOC. NO. 2012-1114001454780
O.P.R.C.C.T.
(CALLED 2.00 ACRES)

JAMES GREGORY HOUGH
VOL. 2901, PG. 21
D.R.C.C.T.
(CALLED 1.441 ACRES)

PAUL AND TAMMIE KIRKLAND
TRACT 2
DOC. NO. 2001-0167667
O.P.R.C.C.T.
(CALLED 1.4336 ACRES)

PAUL AND TAMMIE KIRKLAND
TRACT 3
DOC. NO. 2001-0167667
O.P.R.C.C.T.
(CALLED 8.6067 ACRES)

ADJUST EXIST.
VALVE BOX TO MATCH
FINISHED GRADE

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

30 LF PVC 4" SCH 40
(3' DEPTH)

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

RELOCATED FIRE HYDRANT ASSEMBLY
W/APPROX. 20.5 LF 6" WATER
+51.49
61.00' LT

DRAINAGE &
UTILITY EASEMENT

TEST HOLE #6

EXIST. R.O.W.

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

ADJUST EXIST.
VALVE BOX TO MATCH
FINISHED GRADE

MATCH LINE STA. 23+00

24+00 25+00 26+00 27+00 28+

℄ CONST.

N 89° 32' 06.28" E

W. LUCAS ROAD

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

TELEPHONE PEDESTAL
TO BE REMOVED
BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

30' DRAINAGE
EASEMENT

35' SANITARY
EASEMENT

EXIST. R.O.W.

TELEPHONE PEDESTAL
TO BE REMOVED
BY OTHERS

MATCH LINE STA. 28+00

PROPERTY
LINE

JOSEPH & MAUREEN LAMPASONA
DOC. NO. 20100203000113190
O.P.R.C.C.T.

JASON & JOY SHEPARD
DOC. NO. 20180717000889610
O.P.R.C.C.T.

ABEBA M. BERHANE & EYAYU ZENEBE
DOC. NO. 20200116000073120
O.P.R.C.C.T.

BRIAN STEVEN & STEFANIE ANN HOLLON
DOC. NO. 20130422000541090
O.P.R.C.C.T.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

UTILITY ADJUSTMENTS

SHEET 2 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		232
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:57:03 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_03.dgn

PAUL AND TAMMIE KIRKLAND
TRACT 3
DOC. NO. 2001-0167667
O.P.R.C.C.T.
(CALLED 8.6067 ACRES)

PATTI STRATTON AND MILTION FRIE
VOL. 1745, PG. 556
D.R.C.C.T.
(CALLED 2.00 ACRES)

STA. 30+29.22 ± 54.10' LT
APPROX. 2 LF ±
RELOCATE EXIST. WATER METER
AND RELAY EXIST. WATER SERVICE

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

ADJUST EXIST.
WATER METER
TO MATCH
FINISHED GRADE

RELOCATE FIRE HYDRANT ASSEMBLY
W/APPROX. 32 LF 6" WATER
+25.32
60.95' LT

90° BEND,
3 LF PVC 4" SCH 40,
4" PVC CAP,
10"x15" HDPE VALVE BOX

30 LF PVC 4" SCH 40
(3' DEPTH)

DRAINAGE &
UTILITY EASEMENT

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

EXIST. R.O.W.

30' PVC 4" SCH 40
(3' DEPTH)

ADJUST EXIST. VALVE BOX
TO MATCH FINISHED GRADE

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

MATCH LINE STA. 28+00

MATCH LINE STA. 33+00

℄ CONST.

N 89° 32' 06.28" E

W. LUCAS ROAD

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

30' DRAINAGE
EASEMENT

35' SANITARY
EASEMENT

EXIST. R.O.W.

MICHAEL & HEATHER HART
DOC. NO. 20120724000894560
O.P.R.C.C.T.

BRANDON & CHAY NERSESIAN
DOC. NO. 20160531000673910
O.P.R.C.C.T.

DAVID & LEENA GREENSPAN FAMILY TRUST
DOC. NO. 20051116001623110
O.P.R.C.C.T.

BARRY M. & CATHERINE D. DAVIS
DOC. NO.
20170516000629560
O.P.R.C.C.T.

0 10 40
Feet

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

CORNERSTONE BAPTIST CHURCH EXHIBIT "A"
DOC. NO. 2003-0095484
O.P.R.C.C.T.
(CALLED 11.543 ACRES OF WHICH 0.304 ACRES
IS LOCATED IN COUNTY ROAD NO. 263)

RELOCATE FIRE HYDRANT ASSEMBLY
W/APPROX. 9 LF 6" WATER
+18.93
73.96' LT

40' NTMWD WATER
EASEMENT

INTERNATIONAL FUTBOL ACADEMY-DALLAS, LLC
DOC. NO. 20201218002284090
O.P.R.C.C.T.
(CALLED 7.48 ACRES)

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

TELEPHONE PEDESTAL
TO BE REMOVED
BY OTHERS

ADJUST EXIST. VALVE BOX
TO MATCH FINISHED GRADE

TELEPHONE PEDESTAL
TO BE REMOVED
BY OTHERS

DRAINAGE &
UTILITY EASEMENT

EXIST. R.O.W.

TEST HOLE #7

ELECTRIC METER
RELOCATED BY OTHERS

MATCH LINE STA. 33+00

℄ CONST.

N 89° 32' 06.27" E

W. LUCAS ROAD

N 89° 48' 39.64" E

MATCH LINE STA. 38+00

30' DRAINAGE
EASEMENT

35' SANITARY
EASEMENT

TELEPHONE PEDESTAL
TO BE REMOVED
BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

TELEPHONE PEDESTAL
TO BE REMOVED
BY OTHERS

TEST HOLE #5

TEST HOLE #4

RATHBONE
DR.

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

EASEMENT DEDICATED
TO CITY OF PARKER

EXIST. R.O.W.

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

LOT 2-X

DRAINAGE AND UTILITY
EASEMENT TO THE
CITY OF PARKER

30' DRAINAGE
EASEMENT

20' SANITARY
EASEMENT

STA. 37+19.73 ± 69.34' RT
APPROX. 10 LF ±

RELOCATE EXIST. WATER
METER AND RELAY EXIST.
WATER SERVICE

BEDELL FAMILY LIMITED PARTNERSHIP
VOL. 4670, PG. 1295
D.R.C.C.T.
(REMAINDER OF A CALLED 356 ACRES)

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

UTILITY
ADJUSTMENTS

SHEET 3 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

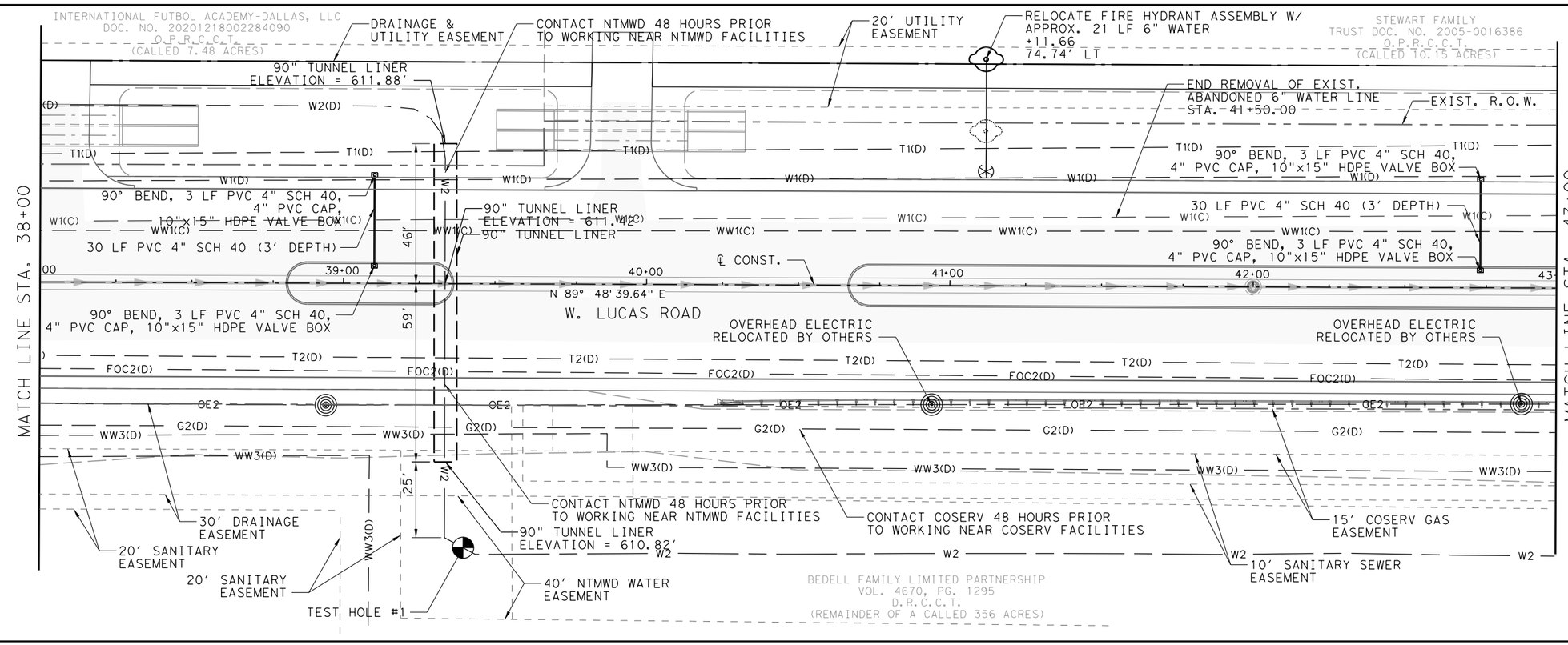
bc engineering
a PARSONS Company

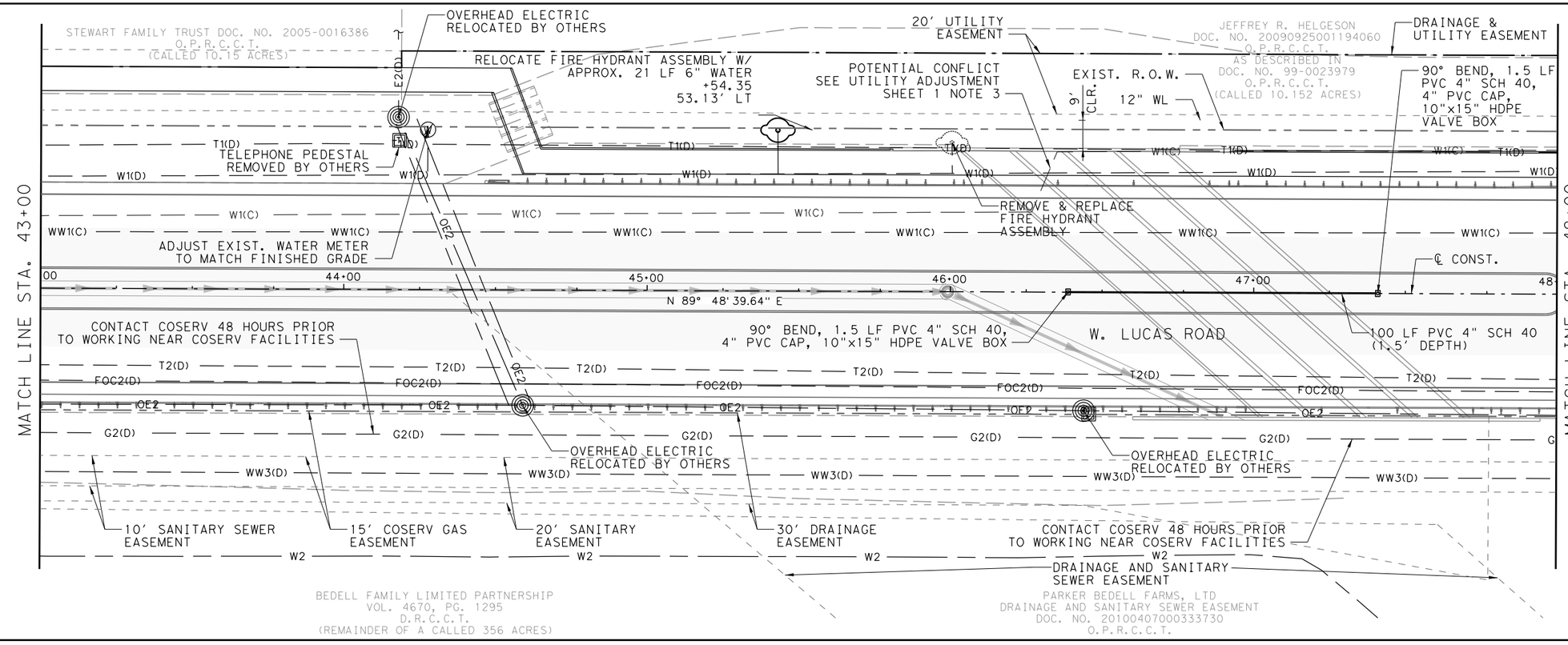
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		233
COLLIN		

DATE: 4/6/2026 1:57:04 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_04.dgn

Texas 811 Know what's below. Call before you dig.





FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

UTILITY ADJUSTMENTS

SHEET 4 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

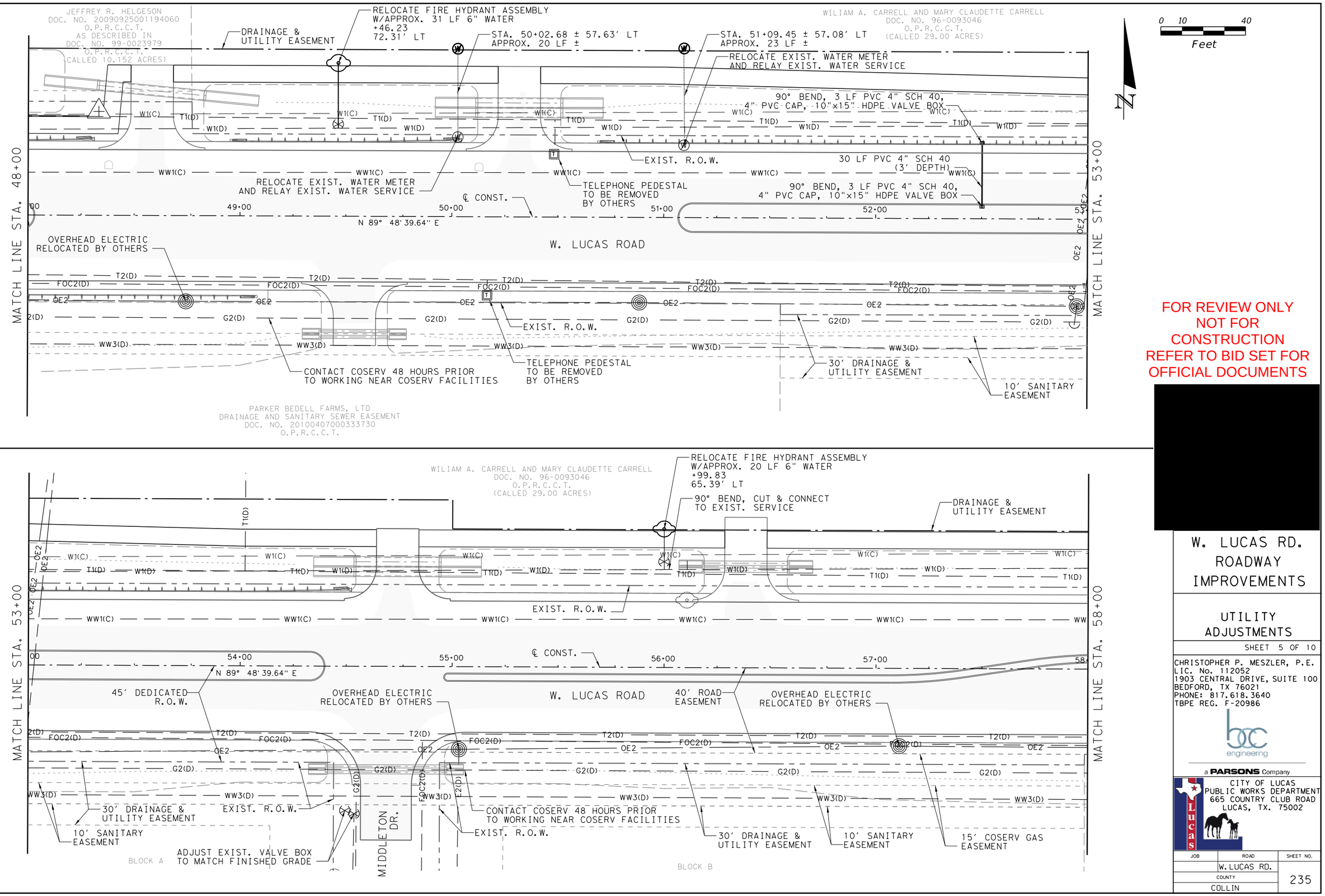
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		234
COLLIN		

DATE: 4/6/2026 1:57:06 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_05.dgn

Texas 811 Know what's below. Call before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

UTILITY ADJUSTMENTS

SHEET 5 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	235
COUNTY		
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:57:07 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_06.dgn

WILIAM A. CARRELL AND MARY CLAUDETTE CARRELL
DOC. NO. 96-0093046
O.P.R.C.C.T.
(CALLED 29.00 ACRES)

ADJUST EXIST. VALVE BOX
TO MATCH FINISHED GRADE

RELOCATE EXIST.
FIRE HYDRANT ASSEMBLY

RELOCATED FIRE HYDRANT ASSEMBLY
W/APPROX. 16 LF 6" WATER
+83.88
65.47' LT

INGRAM LN.

ANTHONY L. SASSINE AND MELISSA K. HYATT
DOC. NO. 5589-003249
O.P.R.C.C.T.

20' UTILITY
EASEMENT

EXIST. R.O.W.

DRAINAGE &
UTILITY EASEMENT

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

MATCH LINE STA. 58+00

MATCH LINE STA. 63+00

59+00 60+00 61+00 62+00 63+

PI 62-01.31

℄ CONST.

N 89° 48' 39.64" E

W. LUCAS ROAD

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

EXIST. R.O.W.

10' SANITARY SEWER
EASEMENT

15' COSERV GAS
EASEMENT

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

BEDELL FAMILY LIMITED PARTNERSHIP
VOL. 4670, PG. 1295
D.R.C.C.T.
(REMAINDER OF A CALLED 356 ACRES)

0 10 40
Feet

N

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

ANTHONY L. SASSINE AND MELISSA K. HYATT
DOC. NO. 5589-003249
O.P.R.C.C.T.

20' UTILITY
EASEMENT

EXIST. R.O.W.

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

RELOCATED FIRE HYDRANT ASSEMBLY
W/APPROX. 2 LF 6" WATER
+64.71
65.36' LT

25'X 25' LANDSCAPE
EASEMENT

ADJUST EXIST. WATER
METER
TO MATCH FINISHED
GRADE

JASON MCCLURE AND AMY MCCLURE
DOC. NO. 20100202000106160
O.P.R.C.C.T.

25'X 25' LANDSCAPE
EASEMENT

EXIST. R.O.W.

RISING
SUN RD.

ADJUST EXIST. VALVE BOX
TO MATCH FINISHED GRADE

MATCH LINE STA. 63+00

MATCH LINE STA. 68+00

64+00 65+00 66+00 67+00 68+

℄ CONST.

N 89° 28' 39.32" E

RELOCATE EXIST. LIGHT POLE
ASSEMBLY 20' PROP. BURIED ELECTRIC
MATCH EXIST. CONDUIT & CONDUCTOR SIZES

VERIFY EXIST. DECORATIVE LIGHT POLE
ELECTRIC JUNCTION BOX
WITH CONDUITS & CONDUCTORS

W. LUCAS ROAD

TEST HOLE #2

TELEPHONE PEDESTAL
REMOVED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

EXIST. R.O.W.

10' SANITARY SEWER
EASEMENT

15' COSERV GAS
EASEMENT

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

LEWIS LN.

30' DRAINAGE &
UTILITY
EASEMENT

AMENDED FINAL PLAT
ESTATES AT AUSTIN TRAIL
PHASE 1
DOC. NO. S4701-6331-2
P.R.D.C.T.

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

BEDELL FAMILY LIMITED PARTNERSHIP
VOL. 4670, PG. 1295
D.R.C.C.T.
(REMAINDER OF A CALLED 356 ACRES)

W. LUCAS RD. ROADWAY IMPROVEMENTS

UTILITY ADJUSTMENTS

SHEET 6 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		236
COLLIN		

DATE: 4/6/2026 1:57:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_07.dgn

Texas 811 Know what's below. Call before you dig.

JASON MCCLURE AND AMY MCCLURE
DOC. NO. 20100202000106160
O.P.R.C.C.T.

BRADLEY WAYNE BRAZEAL
AND BRIGITTE BRAZEAL
DOC. NO. 20100527000535000
O.P.R.C.C.T.

20' DRAINAGE
& UTILITY EASEMENT

VERIFY EXIST. DECORATIVE LIGHT POLE
ELECTRIC JUNCTION BOX
WITH CONDUITS & CONDUCTORS
RELOCATE EXIST. LIGHT POLE
ASSEMBLY 13' PROP. BURIED ELECTRIC
MATCH EXIST. CONDUIT & CONDUCTOR SIZES

CONTACT COSERV
48 HOURS PRIOR
TO WORKING NEAR
COSERV FACILITIES

ADJUST EXIST.
VALVE BOX TO MATCH
FINISHED GRADE

EXIST. R.O.W.

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

RELOCATE TELEPHONE
PEDESTAL BY OTHERS

RELOCATE FIRE HYDRANT ASSEMBLY
W/APPROX. 2 LF 6" WATER
+20.58
66.29' LT

20' DRAINAGE
& UTILITY
EASEMENT

RED STAR RD.

MATCH LINE STA. 68+00

MATCH LINE STA. 73+00

69+00 70+00 71+00 72+00

℄ CONST.

N 89° 28' 39.32" E

W. LUCAS ROAD

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

EXIST. R.O.W.

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

20' DRAINAGE & UTILITY
EASEMENT

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

BEE CAVE RD.

AMENDED FINAL PLAT
ESTATES AT AUSTIN TRAIL
PHASE 1
DOC. NO. S4701-6331-2
P.R.D.C.T.

ALAN & MICHELLE MCLEMORE
DOC. NO. 20090324000339360
O.P.R.C.C.T.

PROPERTY LINE

ADJUST EXIST. VALVE BOX TO
MATCH FINISHED GRADE

RELOCATE FIRE HYDRANT ASSEMBLY
W/APPROX. 4 LF 6" WATER
+41.72
65.38' LT

JANET E. KAPP
DOC. NO. 20191216001597940
O.P.R.C.C.T.
(REMAINDER OF A CALLED 30.282 ACRES)

AS DESCRIBED IN
VOL. 686, PG. 436

CITY OF LUCAS
20'R.O.W. &
UTILITY EASEMENT

20' DRAINAGE & UTILITY
EASEMENT

KRAIG AND KIMBERLY NUNN
DOC. NO. 05847-02851
P.R.D.C.T.

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

REMOVE 25'
6" WATER

30 LF PVC 4" SCH 40
(3' DEPTH)

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

MATCH LINE STA. 73+00

MATCH LINE STA. 78+00

74+00 75+00 76+00 77+00

℄ CONST.

N 89° 28' 39.32" E

W. LUCAS ROAD

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

TEST HOLE #3

20' DRAINAGE & UTILITY
EASEMENT

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

50' LANDSCAPE
BUFFER

EXIST. R.O.W.

20' R.O.W & WATERLINE
EASEMENT

HELDER RUEDA MELENDEZ
DOC. NO. 20140723000767520
O.P.R.C.C.T.

DARREN HARVEY
DOC. NO. 20171222001687460
O.P.R.C.C.T.

0 10 40
Feet

N

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

UTILITY ADJUSTMENTS

SHEET 7 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

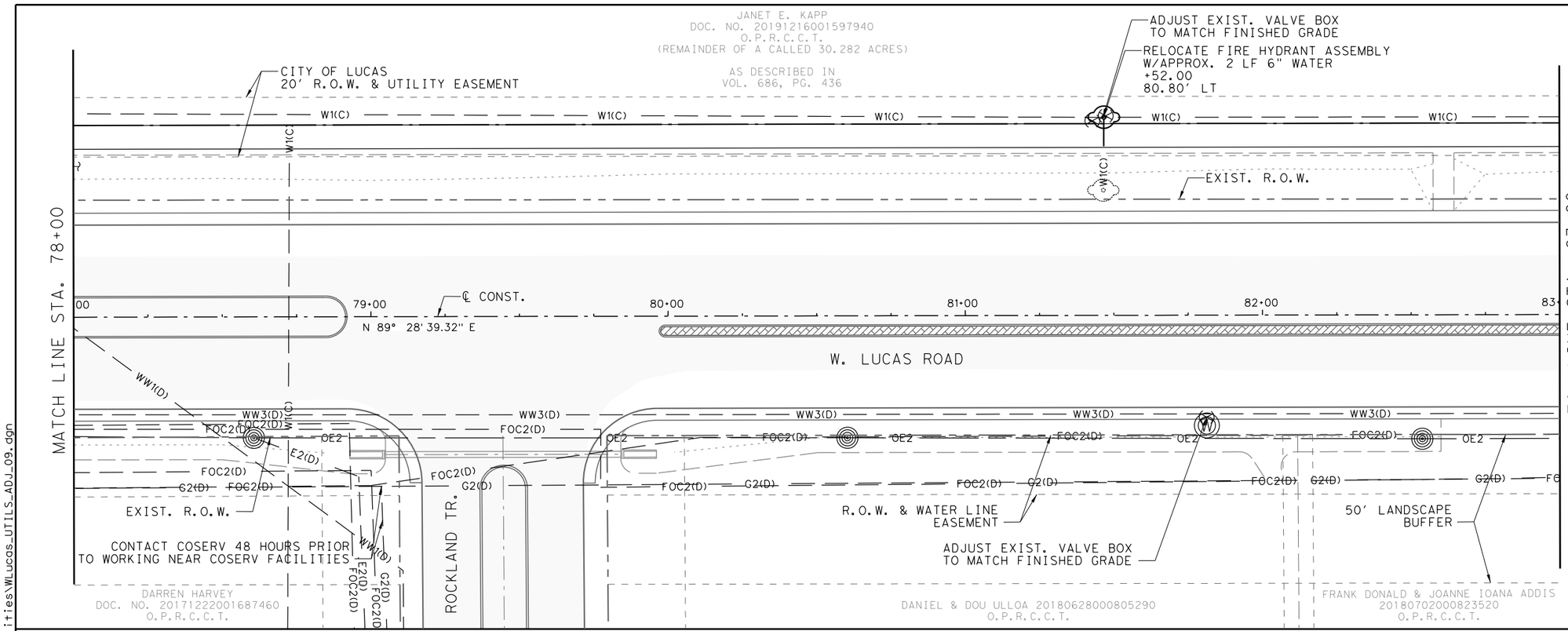
bc engineering
a PARSONS Company

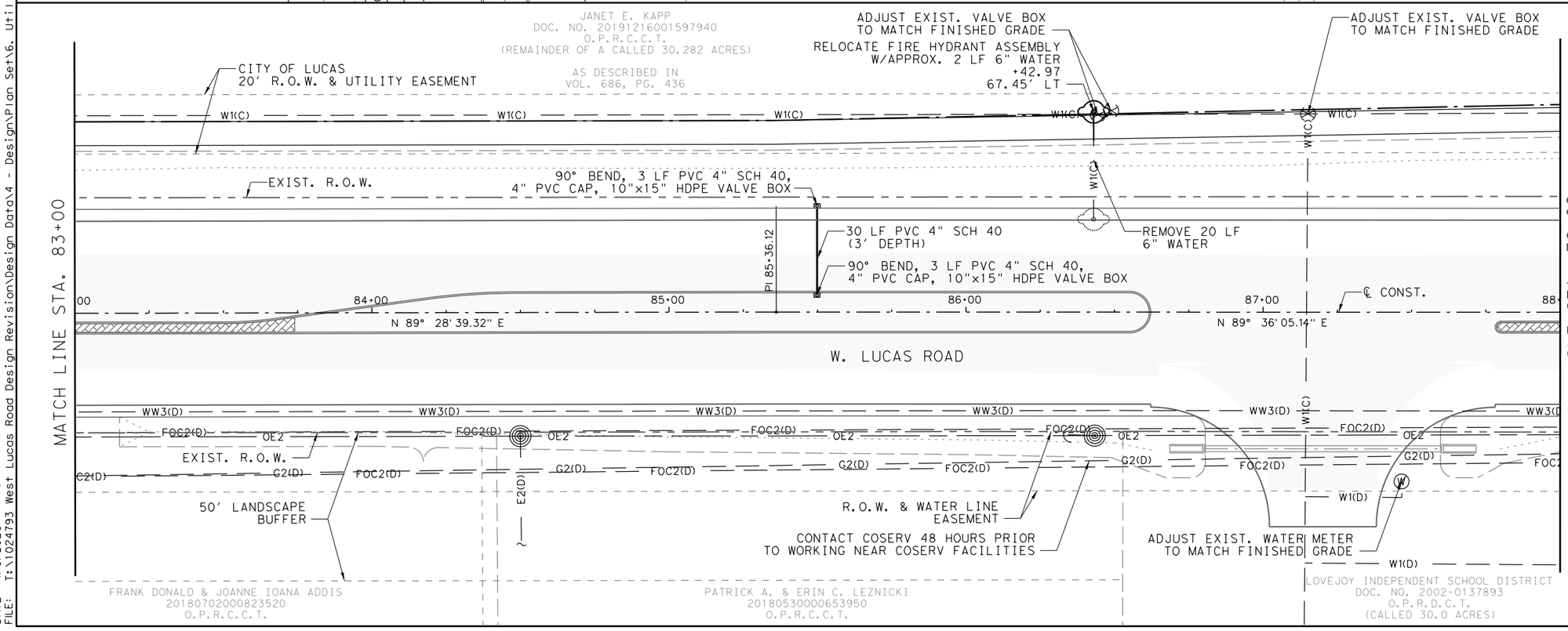
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		237
COLLIN		

DATE: 4/6/2026 1:57:10 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_08.dgn

Texas 811 Know what's below. Call before you dig.





FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

UTILITY ADJUSTMENTS

SHEET 8 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		238
COLLIN		

DATE: 4/6/2026 1:57:11 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_09.dgn

Texas811 Know what's below. Call before you dig.

JANET E. KAPP
DOC. NO. 20191216001597940
O.P.R.C.C.T.
(REMAINDER OF A CALLED 30.282 ACRES)

AS DESCRIBED IN
VOL. 686, PG. 436

TRINITY TABERNACLE ASSEMBLY OF GOD
DOC. NO. 20170119000081780
O.P.R.C.C.T.
(CALLED 7.47 ACRES)

PROPERTY LINE

CITY OF LUCAS
20' R.O.W. & UTILITY EASEMENT

EXIST. R.O.W.

RELOCATE FIRE HYDRANT ASSEMBLY
W/APPROX. 16 LF 6" WATER
+42.44
72.16' LT

ADJUST VALVE BOX
TO MATCH FINISHED GRADE

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

42 LF PVC 4" SCH 40
(3' DEPTH)

90° BEND, 3 LF PVC 4" SCH 40,
4" PVC CAP, 10"x15" HDPE VALVE BOX

REMOVE 20 LF
6" WATER

MATCH LINE STA. 88+00

MATCH LINE STA. 93+00

N 89° 36' 05.14" E

W. LUCAS ROAD

℄ CONST.

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

EXIST. R.O.W.

CONTACT COSERV 48 HOURS PRIOR
TO WORKING NEAR COSERV FACILITIES

EXIST. WATER METER
TO REMAIN

LOVEJOY INDEPENDENT SCHOOL DISTRICT
DOC. NO. 2002-0137893
O.P.R.D.C.T.
(CALLED 30.0 ACRES)

ROBERT E. SWEELY
VOL. 2624, PG. 350
D.R.C.C.T.
(CALLED 2.334 ACRES)

STA. 95+92.03 ± 60.89' LT
APPROX. 20 LF ±
TELEPHONE PEDESTAL
TO BE REMOVED BY OTHERS

30' DRAINAGE
EASEMENT

FINAL PLAT
LOT 1, BLOCK 1
LUCAS FIRE STATION ADDITION
DOC. NO. 20140520010001510
P.R.D.C.T.

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

TELEPHONE PEDESTAL
TO BE REMOVED
BY OTHERS

20' R.O.W.
& UTILITY
EASEMENT

15' DRAINAGE
& UTILITY EASEMENT

STA. 95+12.70 ± 62.08' LT
APPROX. 25 LF ±

RELOCATE EXIST. WATER METER
AND RELAY EXIST. WATER SERVICE

RELOCATE FIRE HYDRANT ASSEMBLY
W/APPROX.6 LF 6" WATER
+78.84
63.70' LT

10' UTILITY
EASEMENT

FIBER HANDHOLE
TO BE ADJUSTED
BY OTHERS

EXIST.
R.O.W.

REMOVE 26 LF
6" WATER

RELOCATE EXIST. WATER METER
AND RELAY EXIST. WATER SERVICE

RELOCATE EXIST. WATER METER
AND RELAY EXIST. WATER SERVICE

RELOCATE EXIST. WATER METER
AND RELAY EXIST. WATER SERVICE

OVERHEAD ELECTRIC
RELOCATED BY OTHERS

20' R.O.W. AND WATERLINE
EASEMENT

CONTACT COSERV 48 HOURS
PRIOR TO WORKING NEAR
COSERV FACILITIES

FIBER OBTIC CABLE
RELOCATED BY OTHERS

STA. 96+82.57 ± 52.59' RT
APPROX. 10 LF ±

STA. 97+77.62 ± 56.01' RT
APPROX. 10 LF ±

EXIST. R.O.W.

EXIST. WATER METERS
TO REMAIN

ESTATE OF
SPURGIN TRUMAN
(NO DEED OF
RECORD FOUND)

LOVEJOY INDEPENDENT SCHOOL DISTRICT
DOC. NO. 2002-0137893
O.P.R.D.C.T.
(CALLED 30.0 ACRES)

MATCH LINE STA. 93+00

MATCH LINE STA. 98+00

0 10 40
Feet

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

UTILITY ADJUSTMENTS

SHEET 9 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		239
COLLIN		

DATE: 4/6/2026 1:57:13 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_10.dgn

Texas 811 Know what's below. Call before you dig.

0 10 40
Feet

N

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

COUNTRY CLUB ROAD

W. LUCAS ROAD/FM 1378

MATCH LINE STA. 98+00

FINAL PLAT
LOT 1, BLOCK 1
LUCAS FIRE STATION ADDITION
DOC. NO. 20140520010001510
P.R.D.C.T.

MARTIN & VARANJUTA THOMAS
DOC. NO. 20120724000892310
O.P.R.C.C.T.

REPLAT
CIMARRON PHASE II
LOTS 24R-26R, BLOCK A
DOC. NO. 20121011010002500
P.R.D.C.T.

ALAN RAY SPURGIN
VOL. 1328 PG. 851
D.R.C.C.T.
(CALLED 2.92 ACRES)

FINAL PLAT
LOT 1, BLOCK A
GRAIGS CAR CARE
DOC. NO.
20060210010000490
P.R.D.C.T.

MAHMOUD PROPERTIES LLC
DOC. NO. 20191009001265330
O.P.R.C.C.T.
(CALLED 2.25 ACRES)

HB ENTERPRISES, LLC
DOC. NO. 20170331000413910
O.P.R.C.C.T.
(CALLED 1.281 ACRES)

12' WATERLINE EASEMENT (TYP)

COMMON AREA EASEMENT

EXIST. R.O.W.

EXIST. WATER METER TO REMAIN

ADJUST EXIST. FIRE HYDRANT TO MATCH FINISHED GRADE

ADJUST EXIST. WATER METER TO MATCH FINISHED GRADE

CONTACT COSERV 48 HOURS PRIOR TO WORKING NEAR COSERV FACILITIES

RELOCATE EXIST. WATER METER AND RELAY EXIST. WATER SERVICE
STA. 98+53.08 ± 55.54' RT
APPROX. 10 LF ±

℄ CONST.

N 89° 36' 05.14" E

N 89° 17' 33.82" E

END PROJECT
STA. 100+25.00

PI 99+63.20

POT 100+00.30

99+00

100+00

101+00

EXIST. R.O.W.

EXIST. WATER METER TO REMAIN

EXIST. WATER METER TO REMAIN

W. LUCAS RD.
ROADWAY
IMPROVEMENTS

UTILITY
ADJUSTMENTS

SHEET 10 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

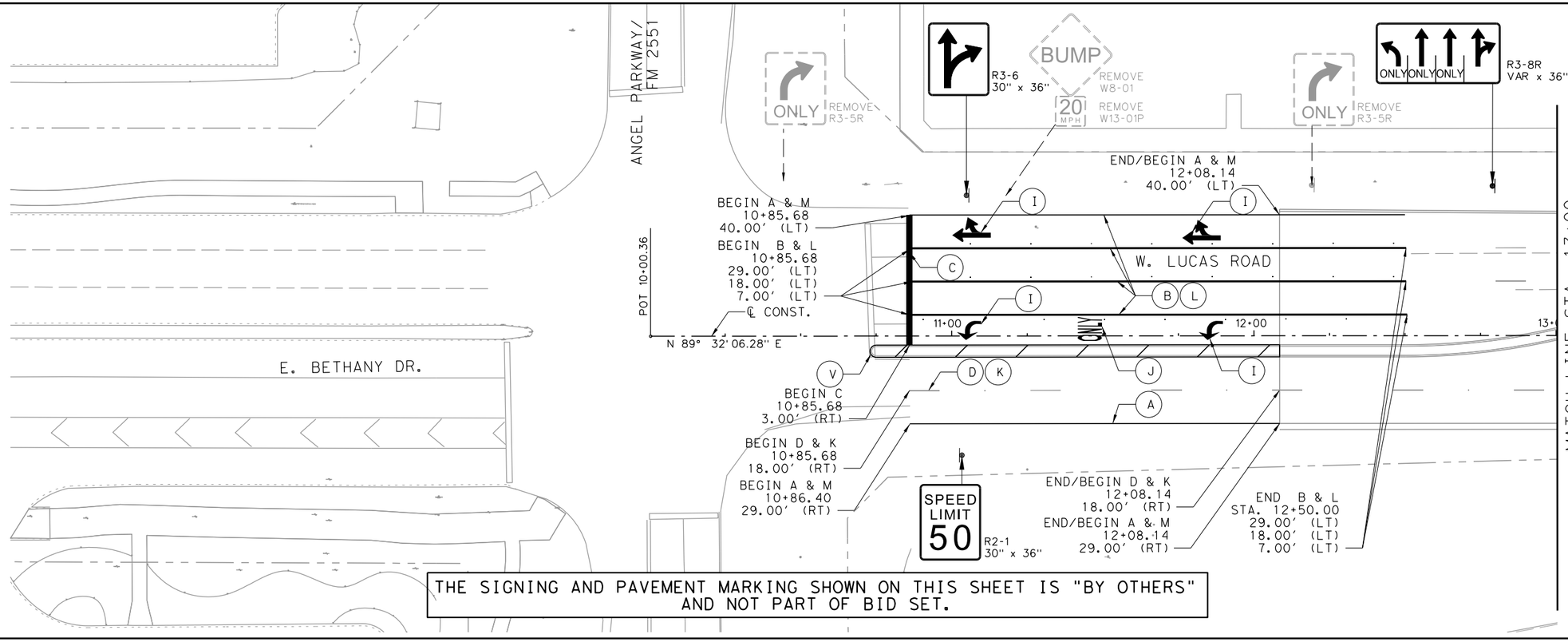
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	240
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:57:14 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\6. Utilities\WLucas_UTILS_ADJ_11.dgn

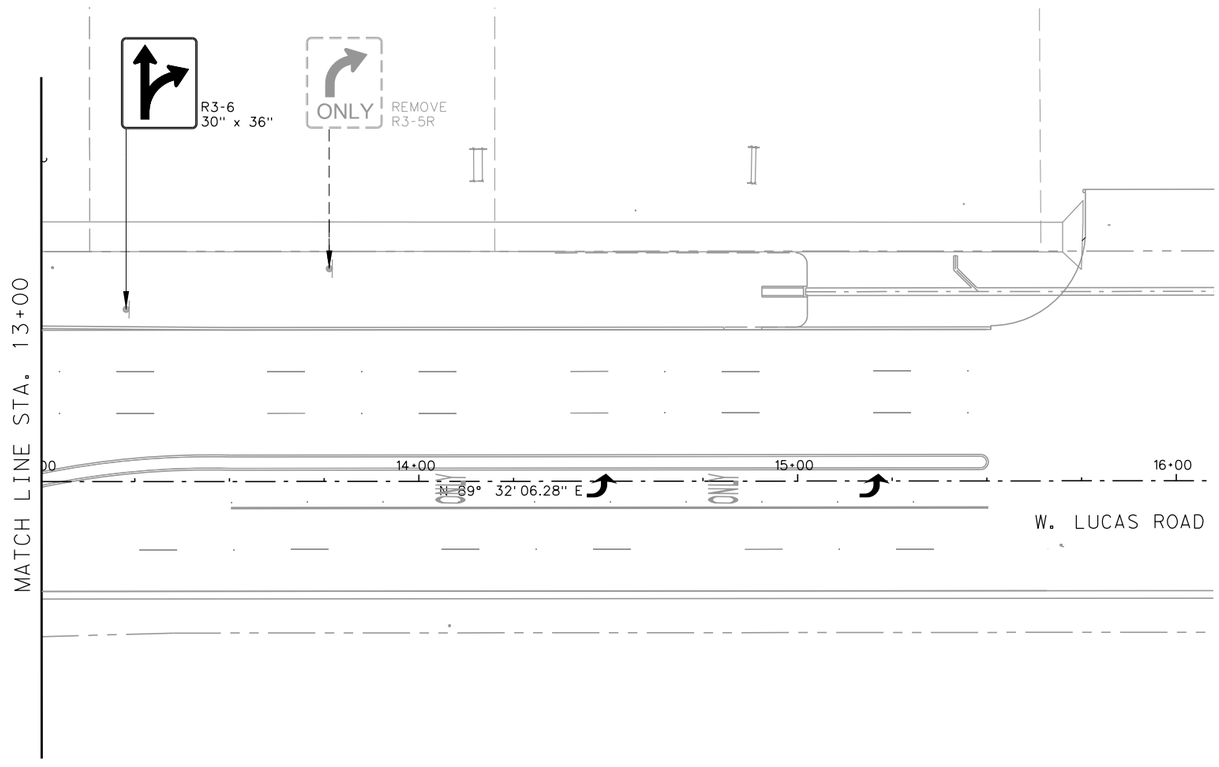


THE SIGNING AND PAVEMENT MARKING SHOWN ON THIS SHEET IS "BY OTHERS" AND NOT PART OF BID SET.

NOTE:

1. REMOVE EXIST. TEMPORARY PAINTED MARKINGS FROM STA. 12+08.14 TO STA. 13+50.00

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS



SIGNING & PAVEMENT MARKING LEGEND:

COLOR	WIDTH	TYPE	PERMANENT MARKINGS	TEMPORARY PAINT
(W)	(4")	(SLD)	(A)	(P)
(W)	(8")	(SLD)	(B)	(Q)
(W)	(24")	(SLD)	(C)	(R)
(W)	(4")	(BROKEN)	(D)	(S)
(Y)	(4")	(DOT)	(E)	
(Y)	(4")	(SLD)	(F)	(T)
(Y)	(4")	(SLD) (DOUBLE)	(G)	
(Y)	(4")	(BROKEN)	(H)	
(W)		(ARROWS)	(I)	(U)
(W)		(WORDS)	(J)	
(TY I-C) (R.P.M.) (@ 80' SPACING)			(K)	
(TY I-C) (R.P.M.) (@ 20' SPACING)			(L)	
(TY II-C-R) (R.P.M.) (@ 20' SPACING)			(M)	
(TY II-A-A) (R.P.M.) (@ 80' SPACING)			(N)	
(TY II-A-A) (R.P.M.) (@ 20' SPACING)			(O)	
BLUE RPM FOR FIRE HYDRANT			(W)	
ISLAND NOSE (SEE DETAIL)			(V)	

W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKING (BY OTHERS)

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

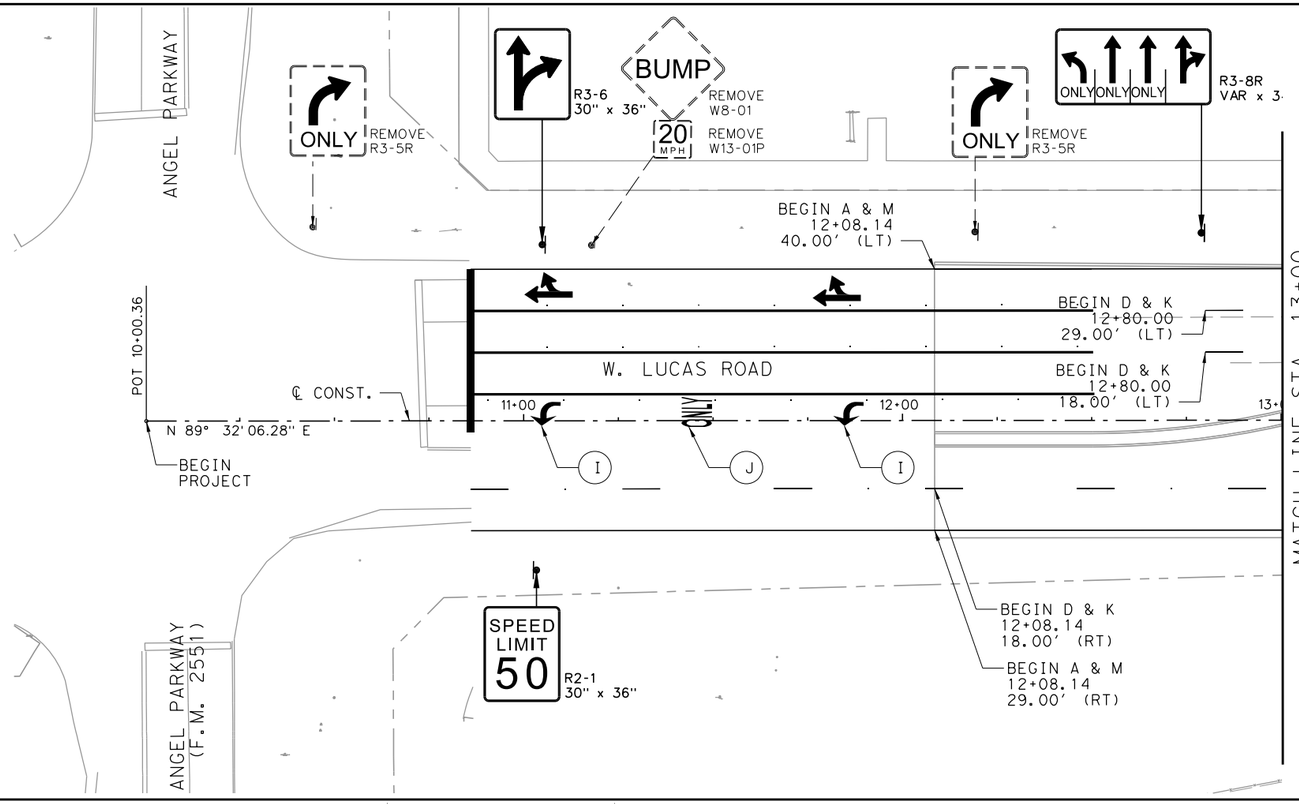
JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		241
COLLIN		

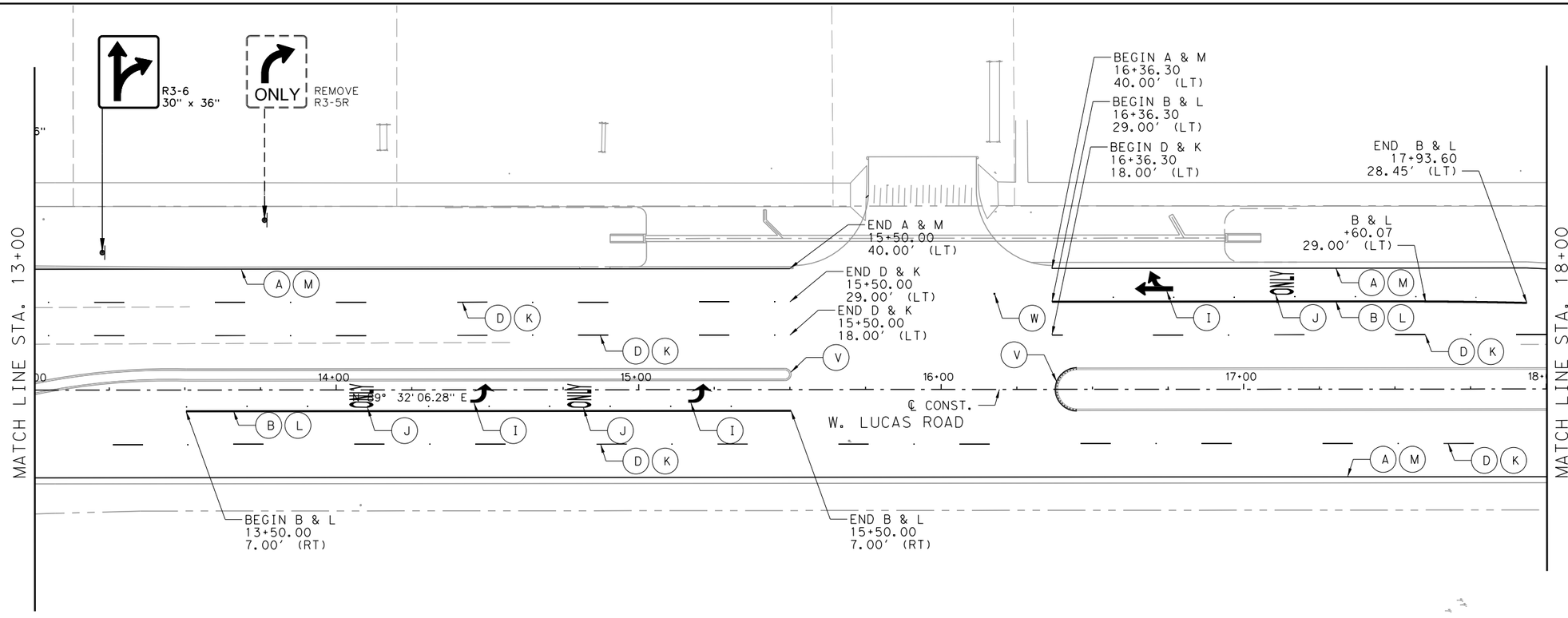
DATE: 4/6/2026 1:57:15 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P01_BY_OTHERS.dgn

Texas 811 Know what's below. Call before you dig.

SIGNING & PAVEMENT MARKING LEGEND:

COLOR/WIDTH/TYPE			PERMANENT MARKINGS
(W)	(6")	(SLD) (EDGE LINE)	A
(W)	(8")	(SLD)	B
(W)	(24")	(SLD)	C
(W)	(6")	(BRK) (LANE LINE)	D
(W)	(6")	(DOT)	E
(Y)	(6")	(SLD)	F
(Y)	(6")	(BRK)	H
(Y)	(6")	(SLD) (DOUBLE)	G
(W)		(ARROWS)	I
(W)		(WORDS)	J
(TY I-C) (R.P.M.) (@ 80' SPACING)			K
(TY I-C) (R.P.M.) (@ 20' SPACING)			L
(TY II-C-R) (R.P.M.) (@ 20' SPACING)			M
(TY II-A-A) (R.P.M.) (@ 80' SPACING)			N
(TY II-A-A) (R.P.M.) (@ 20' SPACING)			O
BLUE RPM FOR FIRE HYDRANT			W
ISLAND NOSE (SEE DETAIL)			V





0 10 40
Feet

N

NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 1 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

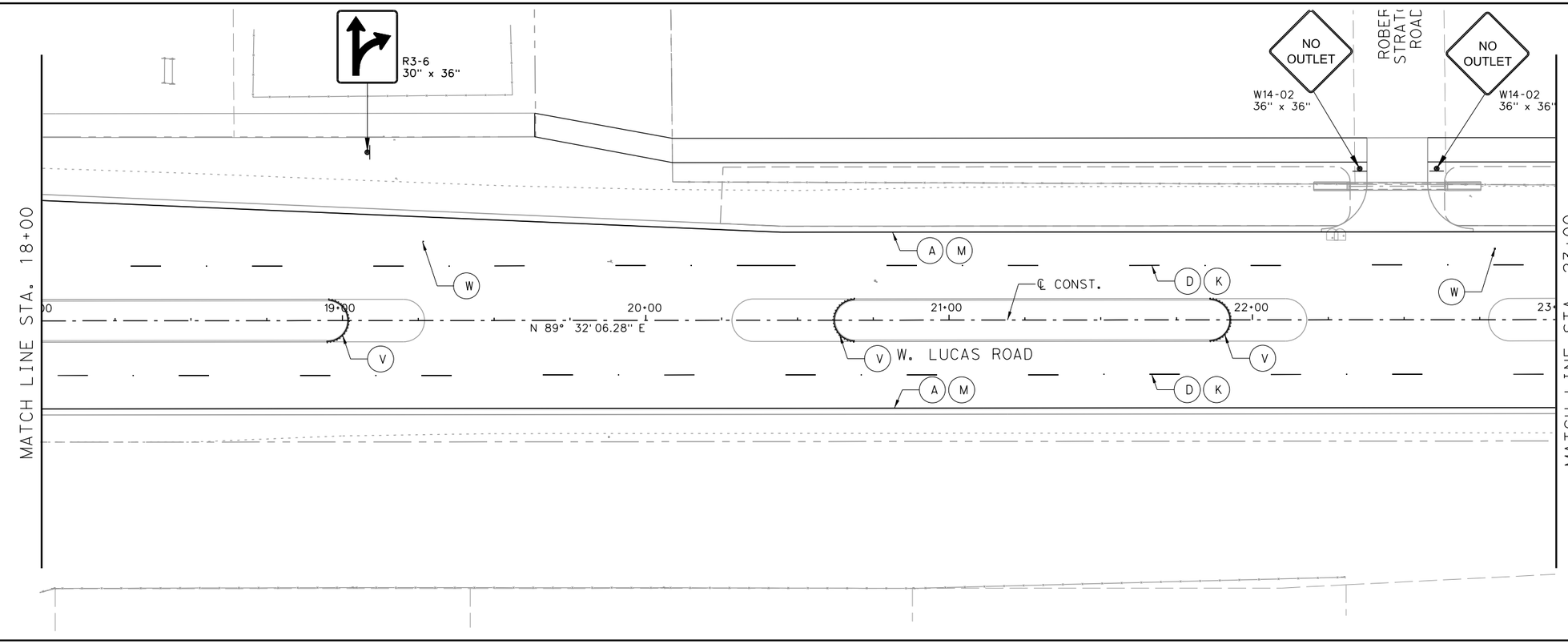
bc engineering
a PARSONS Company

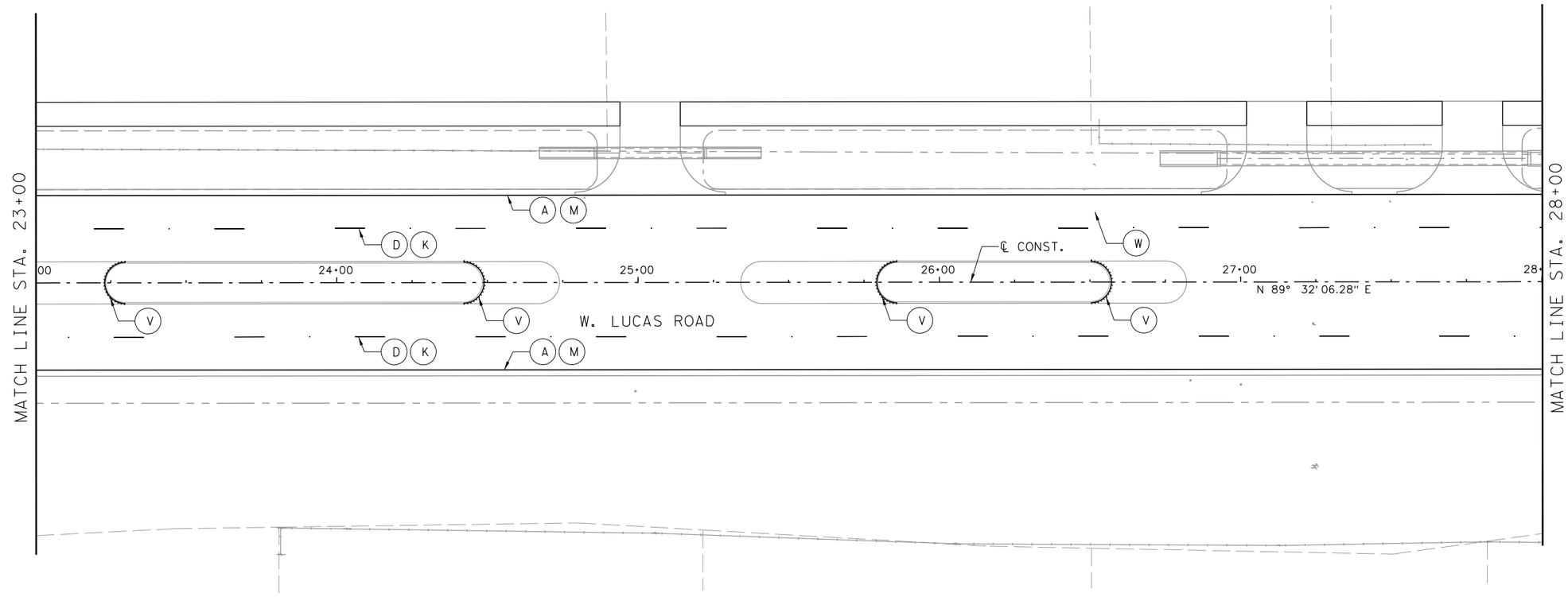
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		242
COLLIN		

DATE: 4/6/2026 1:57:17 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P01.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 2 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

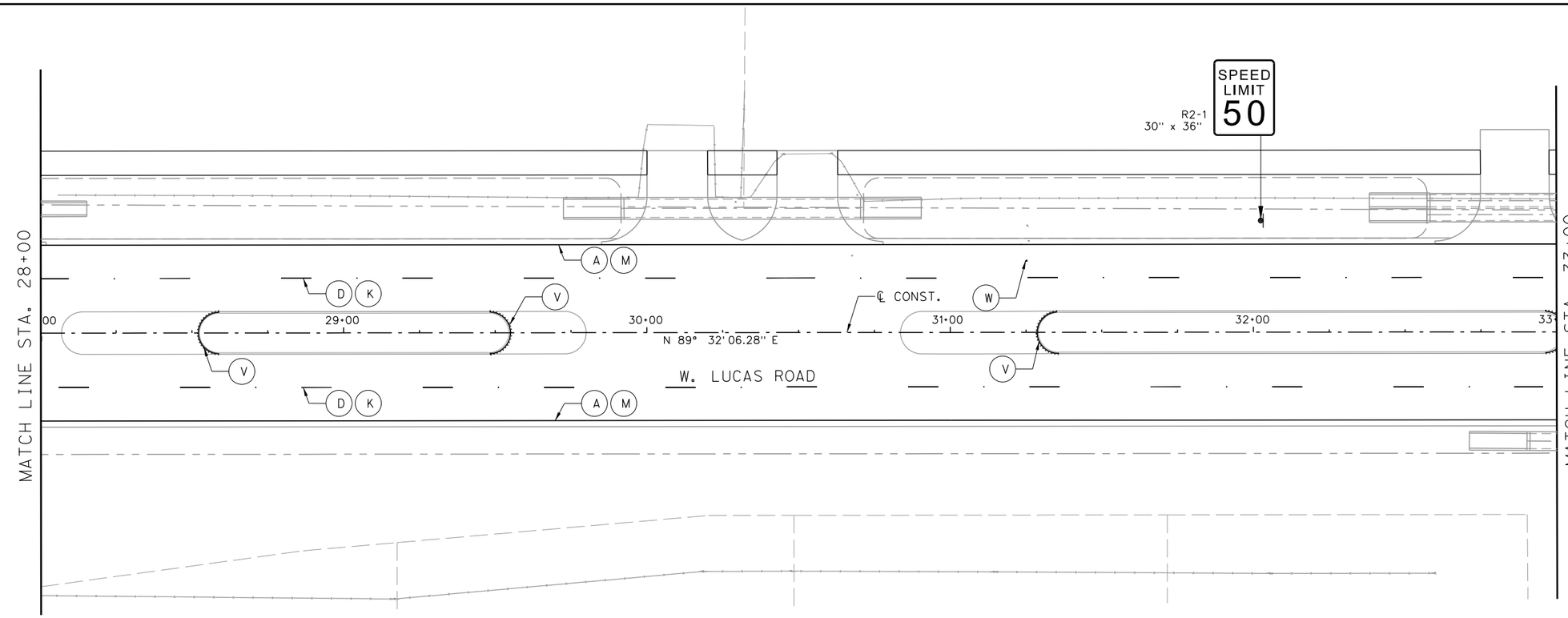
bc engineering
a PARSONS Company

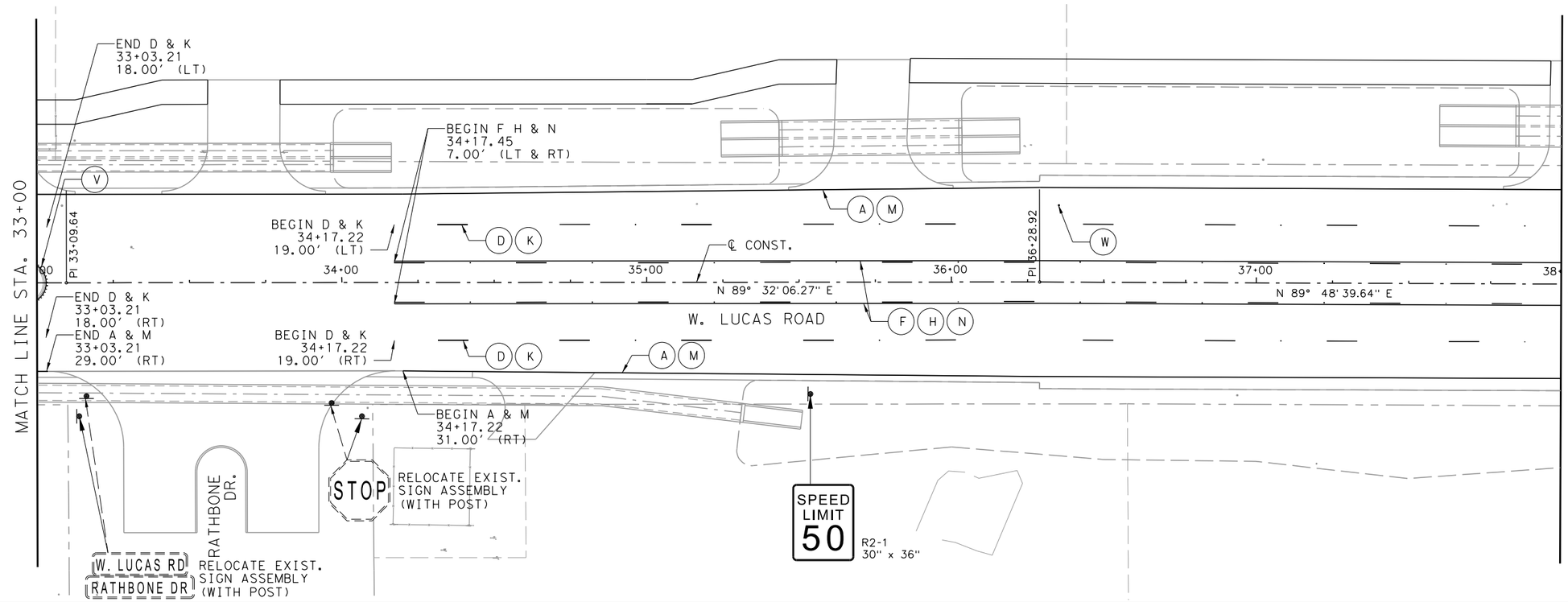
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		243
COLLIN		

DATE: 4/6/2026 1:57:18 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P02.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 3 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

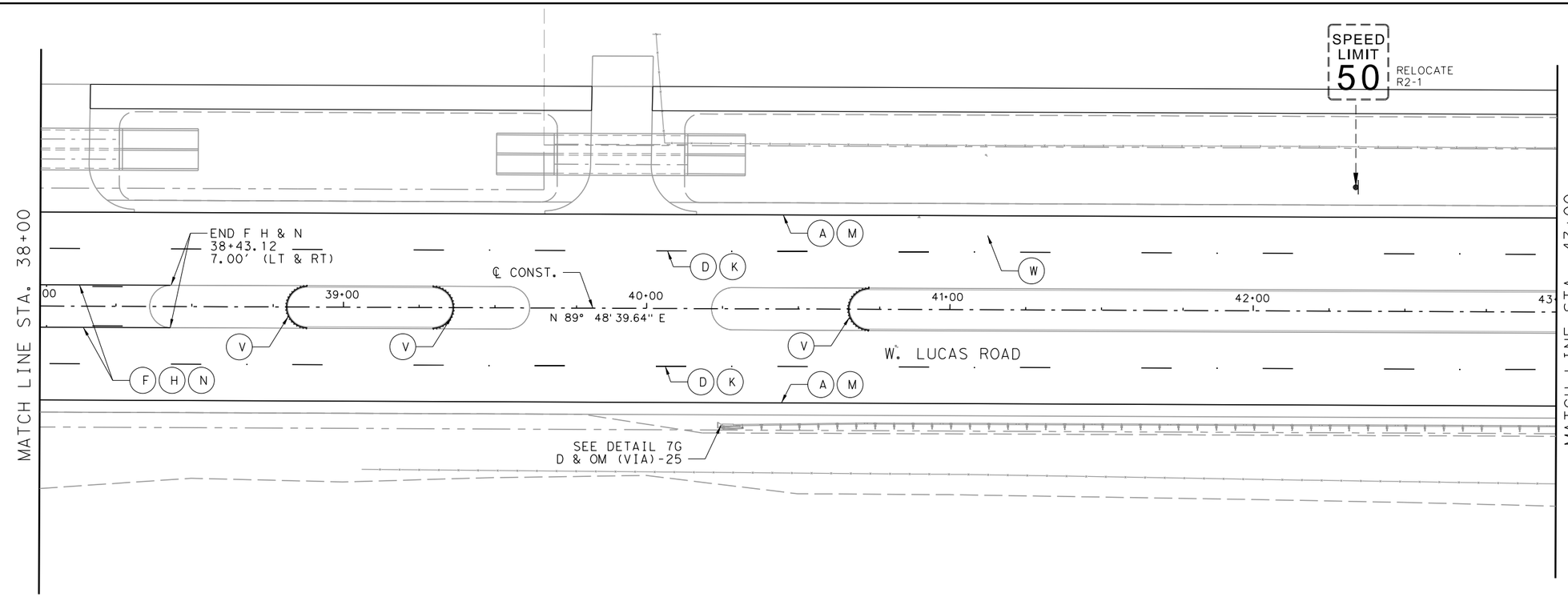
bc engineering
a PARSONS Company

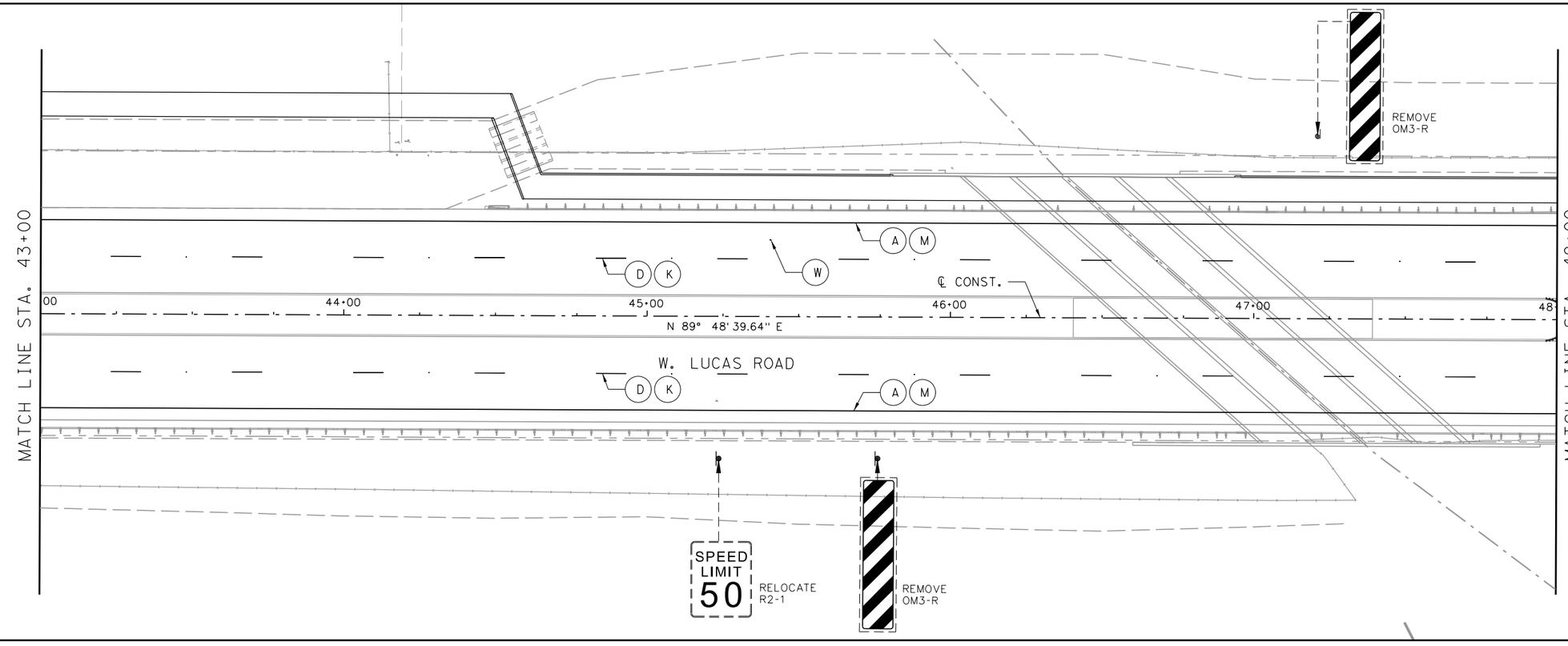
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		244
COLLIN		

DATE: 4/6/2026 1:57:20 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P03.dgn

Texas811 Know what's below. Call! before you dig.





0 10 40
Feet

N

NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 4 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

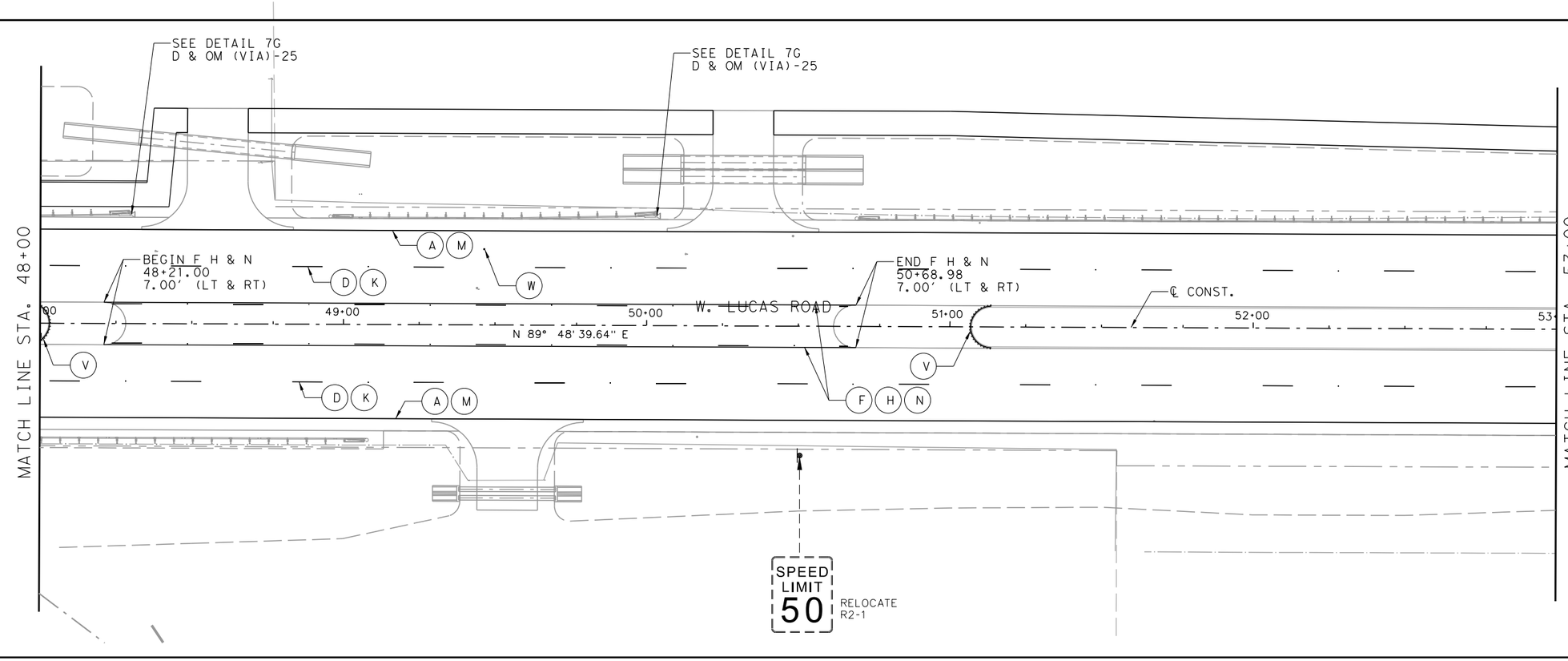
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		245
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:57:21 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P04.dgn



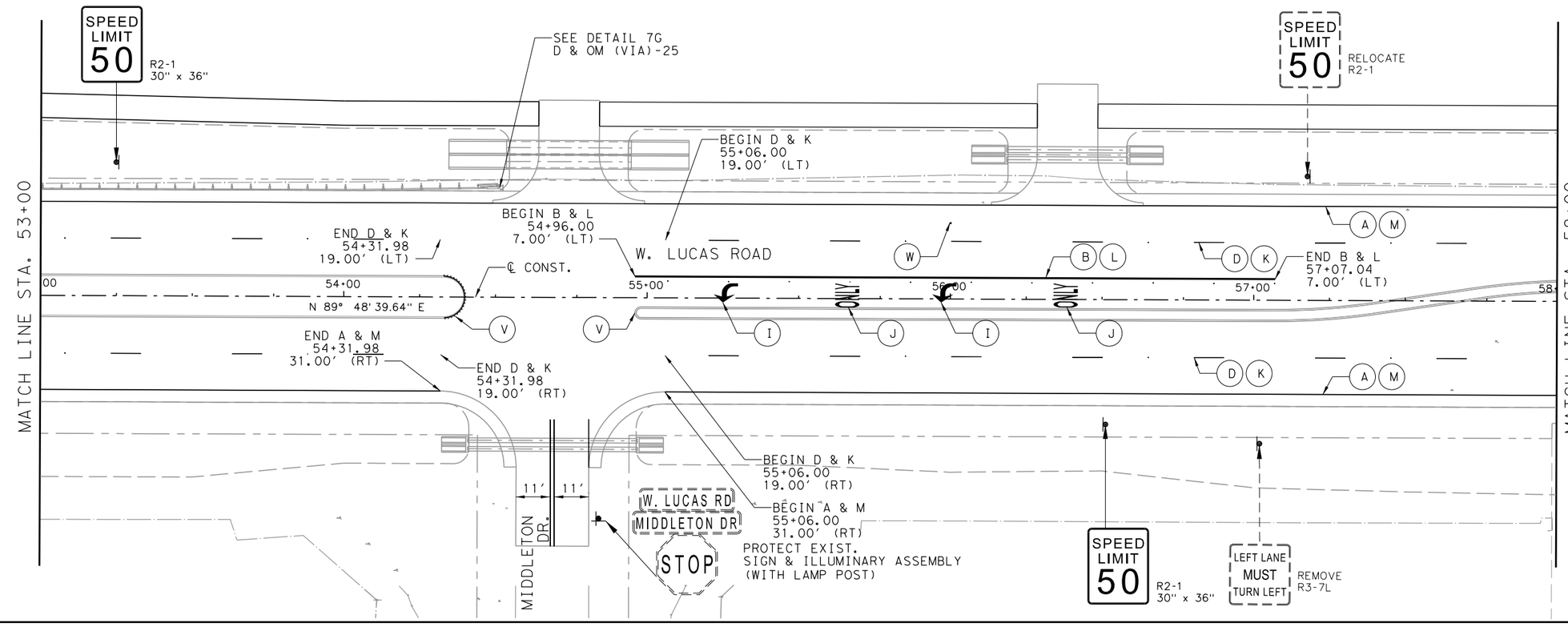
0 10 40
Feet

NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]



W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 5 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

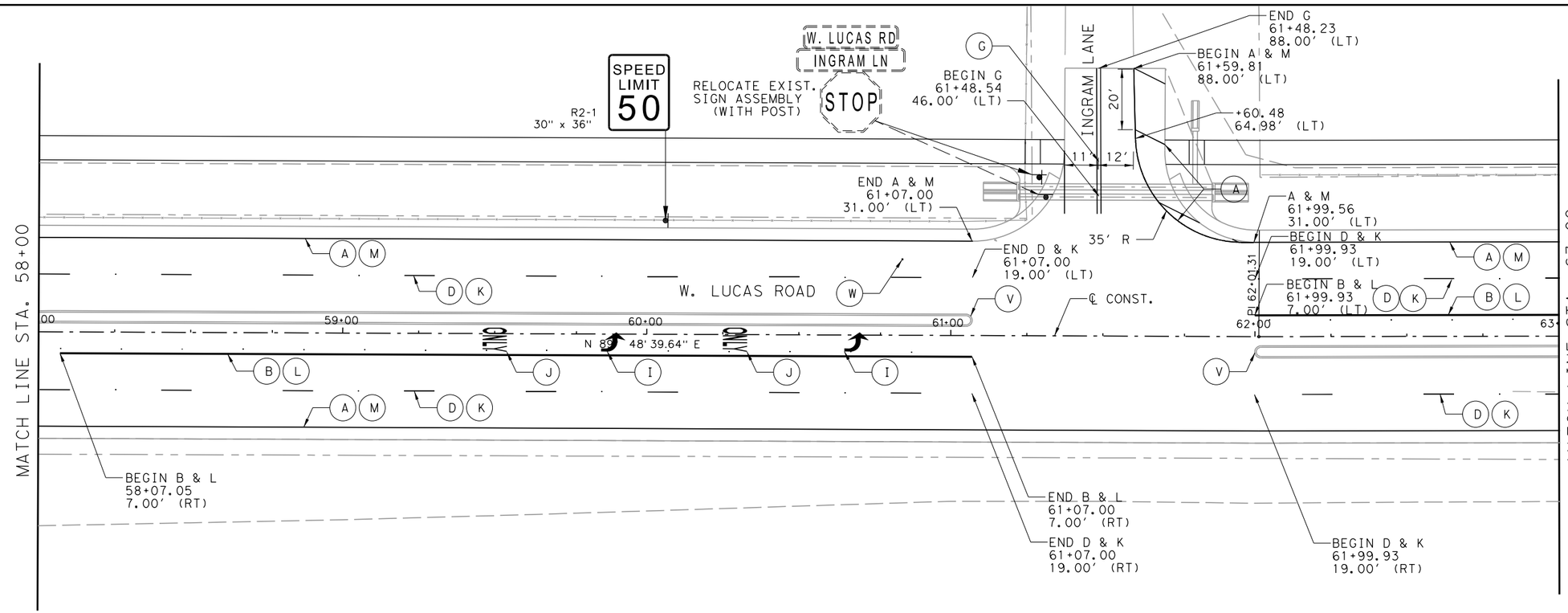
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		246
COLLIN		

Texas 811 Know what's below. Call before you dig.

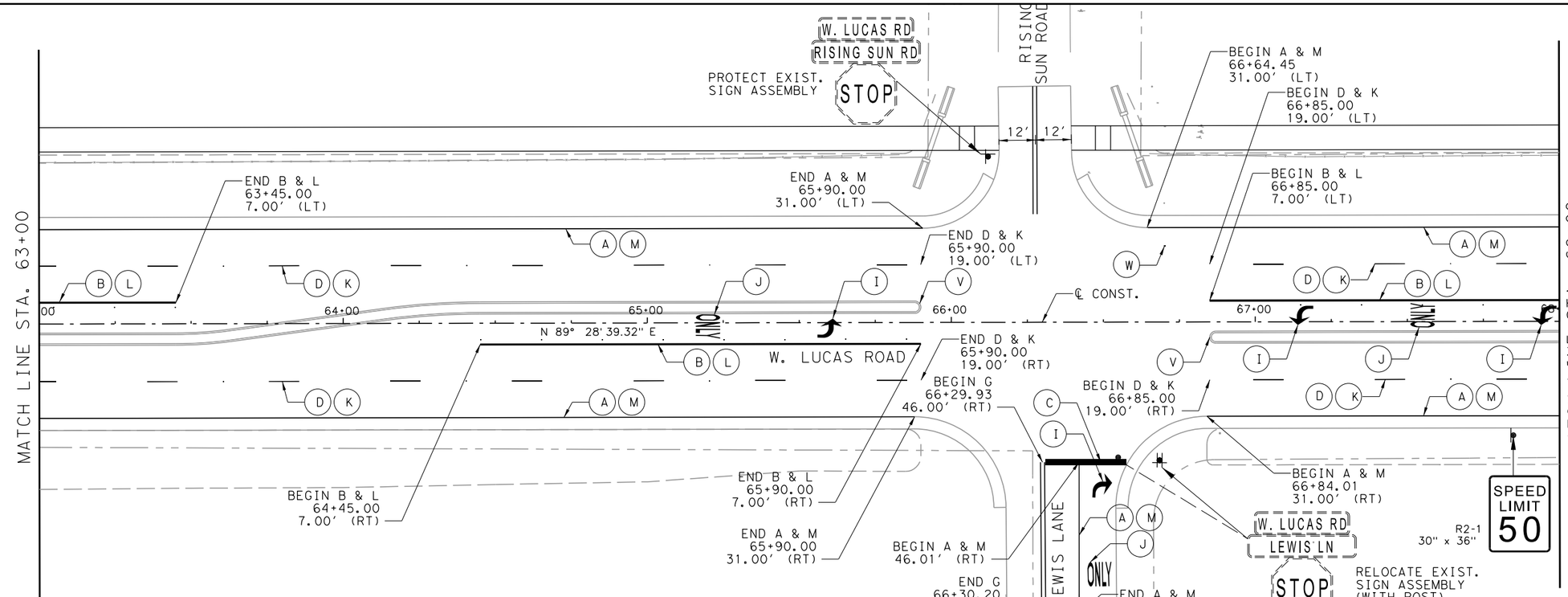
DATE: 4/6/2026 1:57:22 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P05.dgn



NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS



W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 6 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

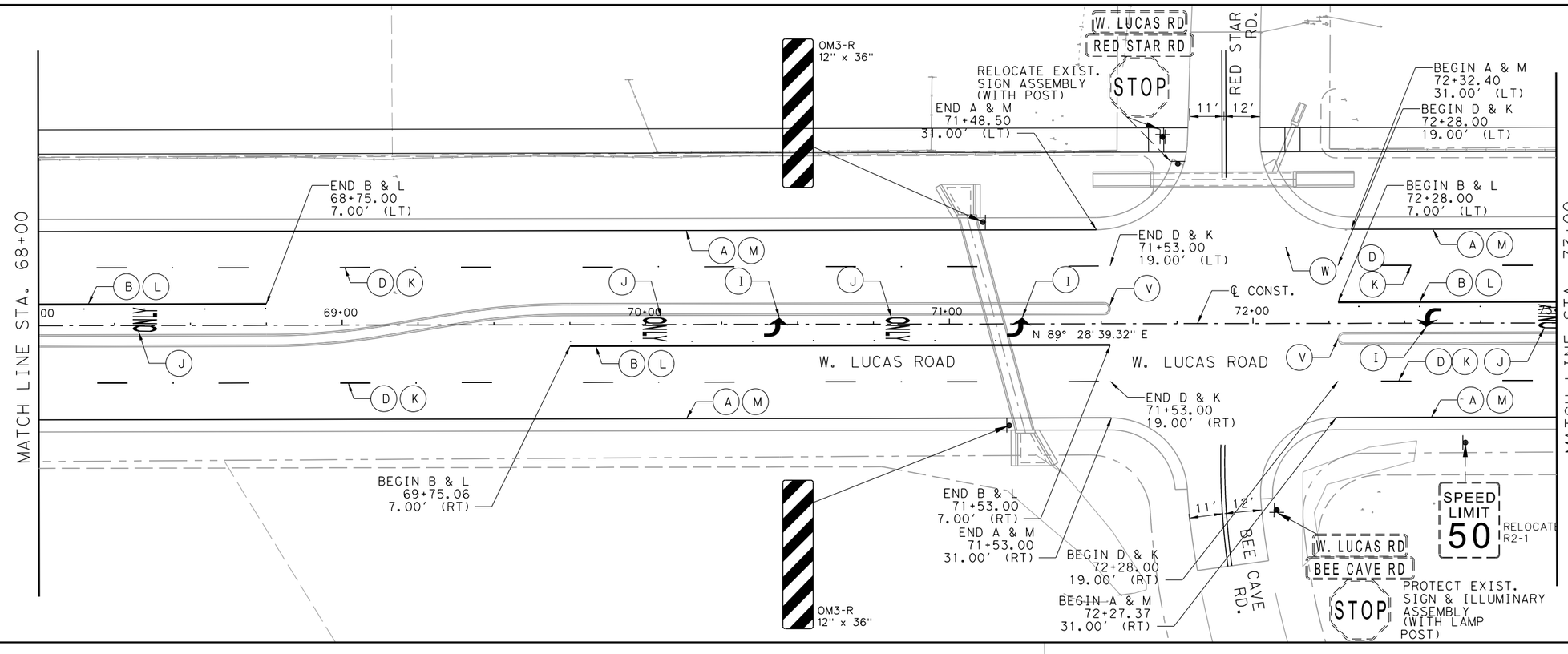
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		247
COLLIN		

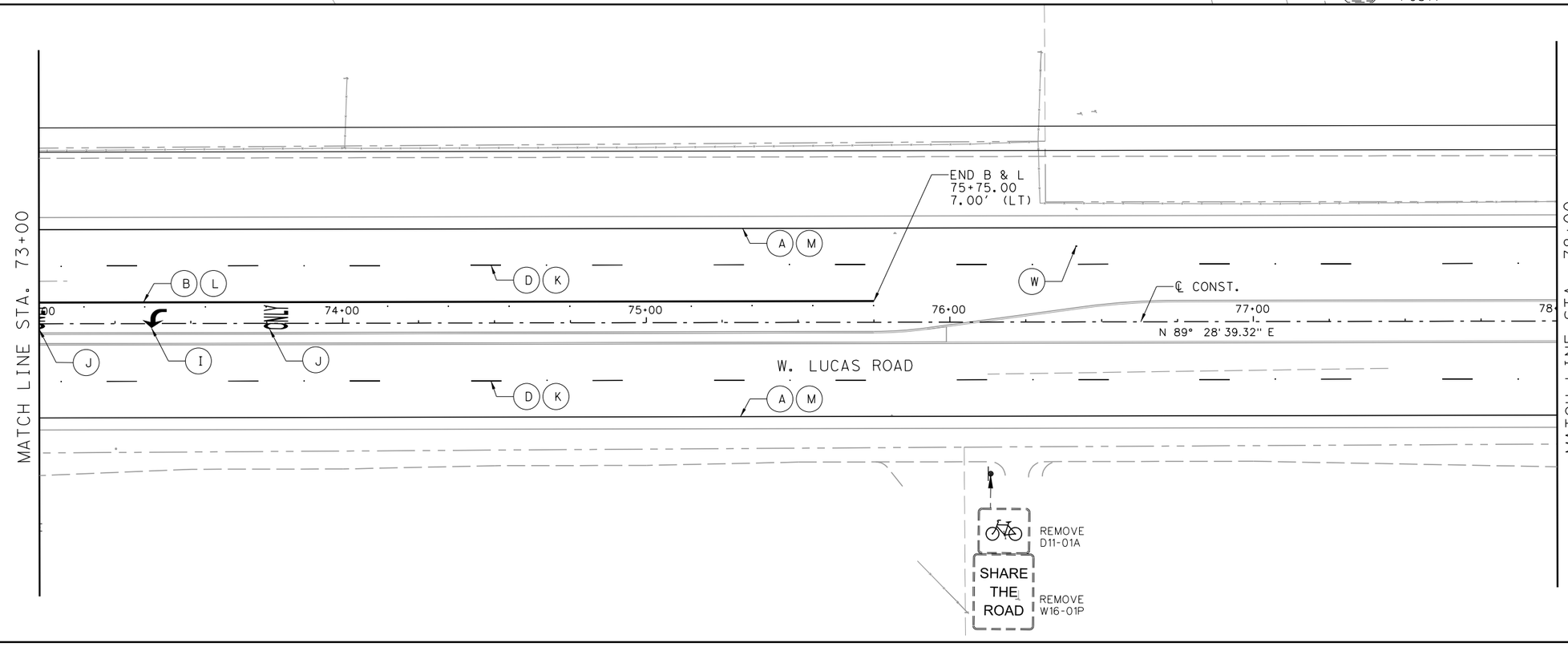
DATE: 4/6/2026 1:57:24 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P06.dgn

Texas811 Know what's below. Call before you dig.



NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.



FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 7 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

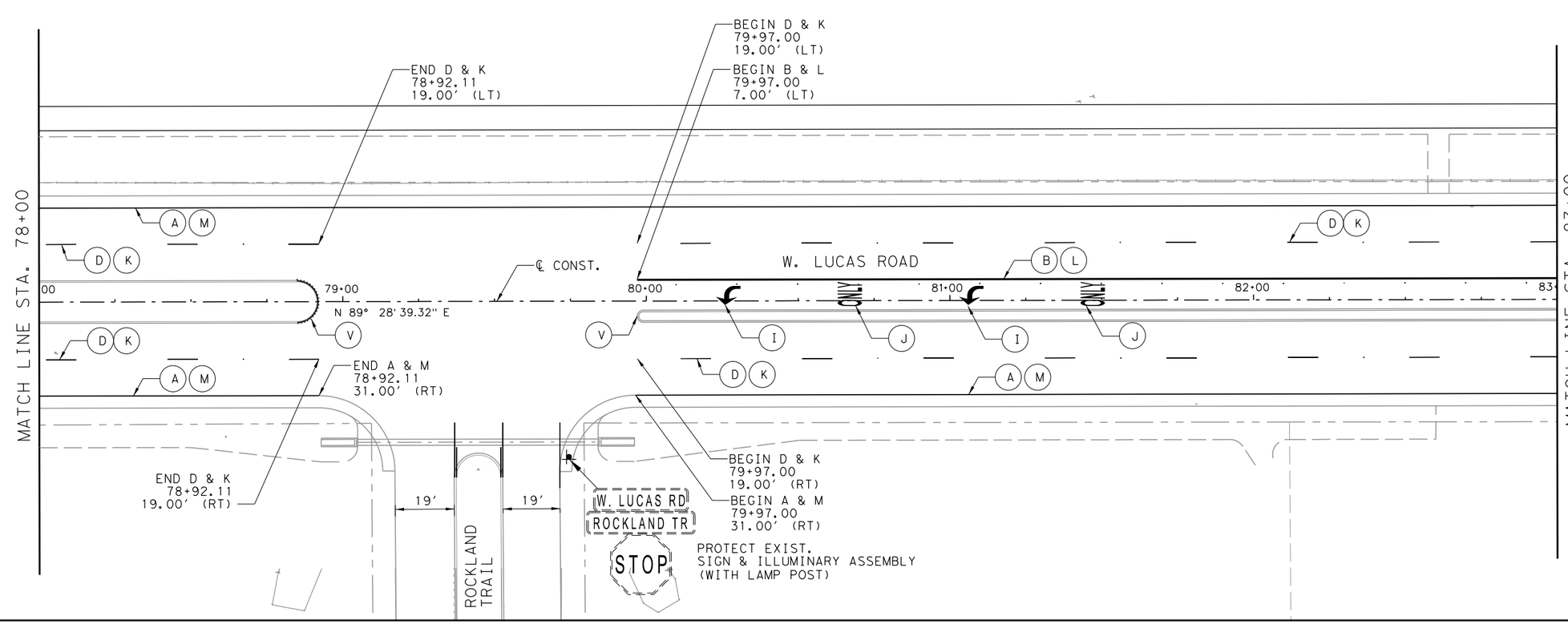
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		248
COLLIN		

DATE: 4/6/2026 1:57:25 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P07.dgn

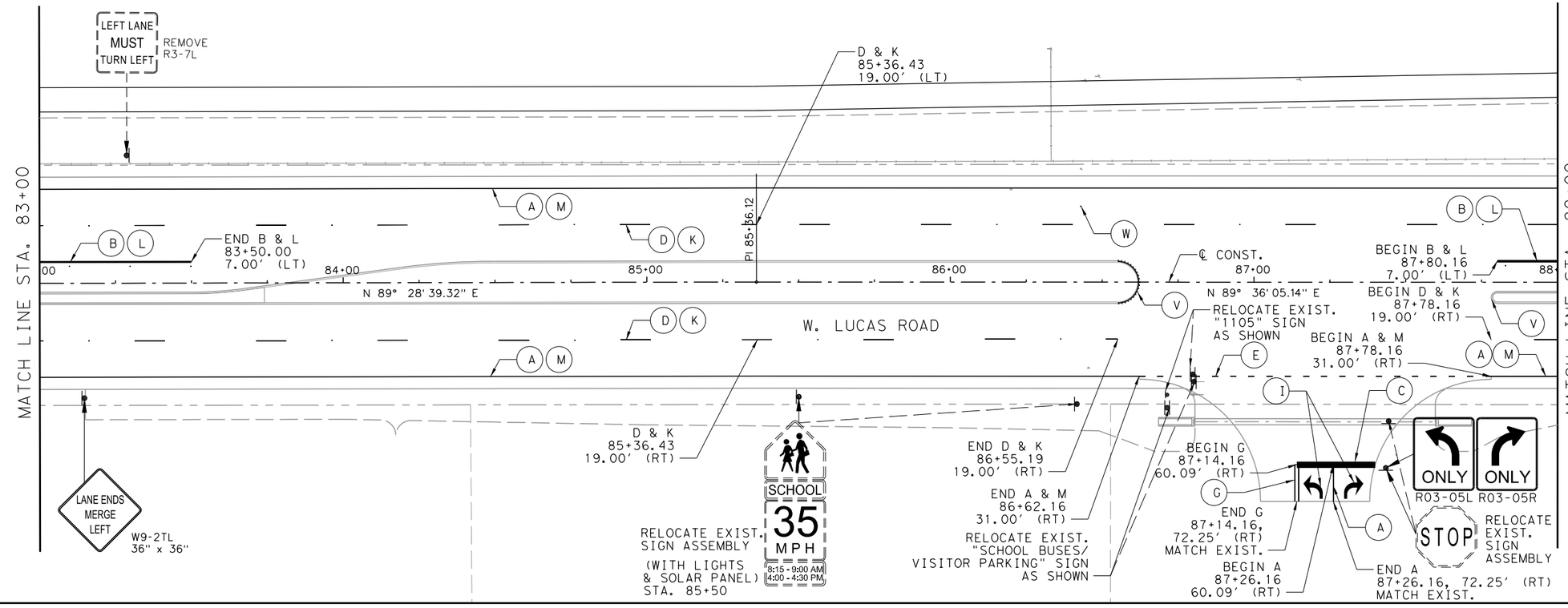
Texas 811 Know what's below. Call before you dig.



NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS



W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 8 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

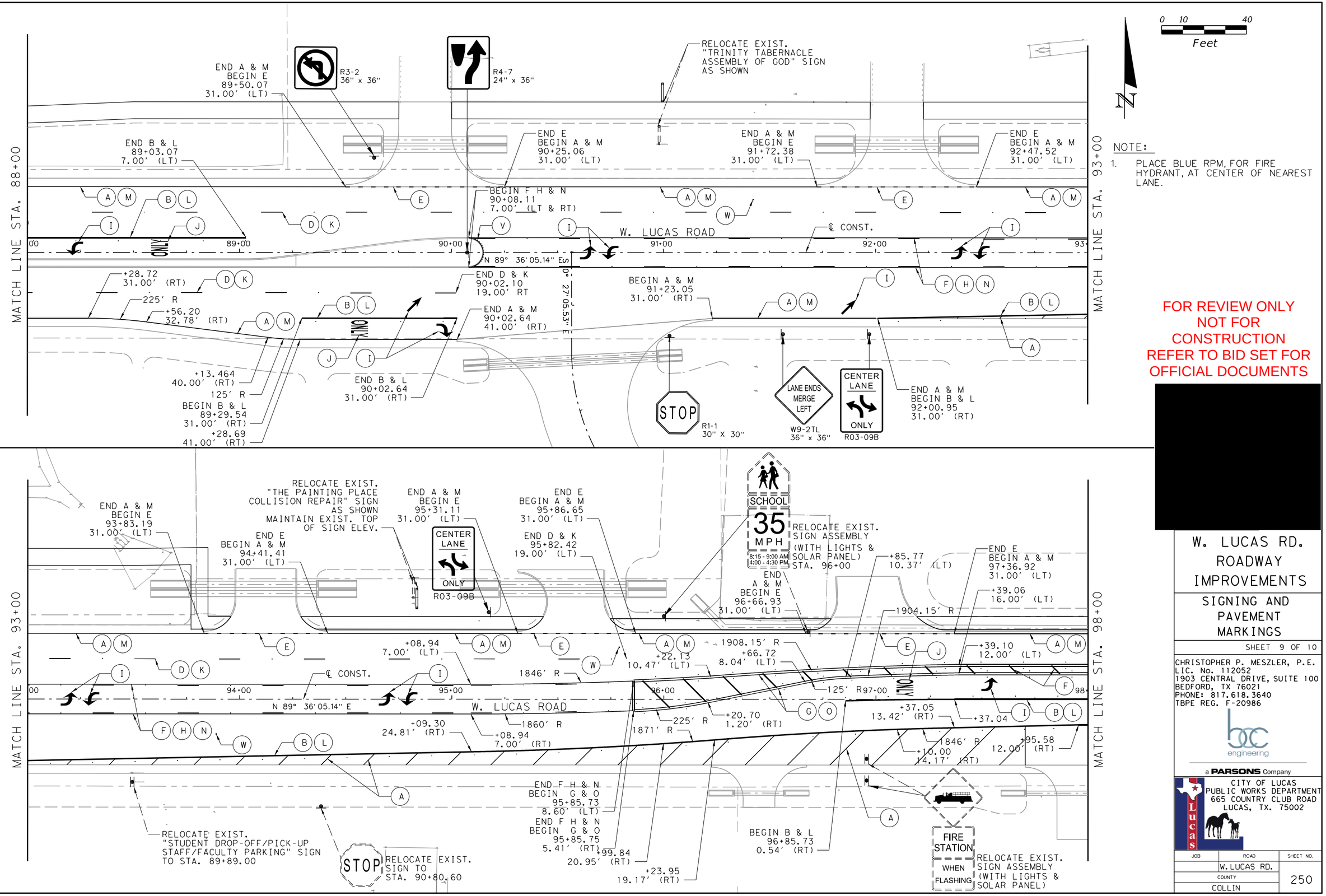
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		249
COLLIN		

DATE: 4/6/2026 1:57:26 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P08.dgn

Texas 811 Know what's below. Call before you dig.



W. LUCAS RD.
ROADWAY
IMPROVEMENTS

SIGNING AND
PAVEMENT
MARKINGS

SHEET 9 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

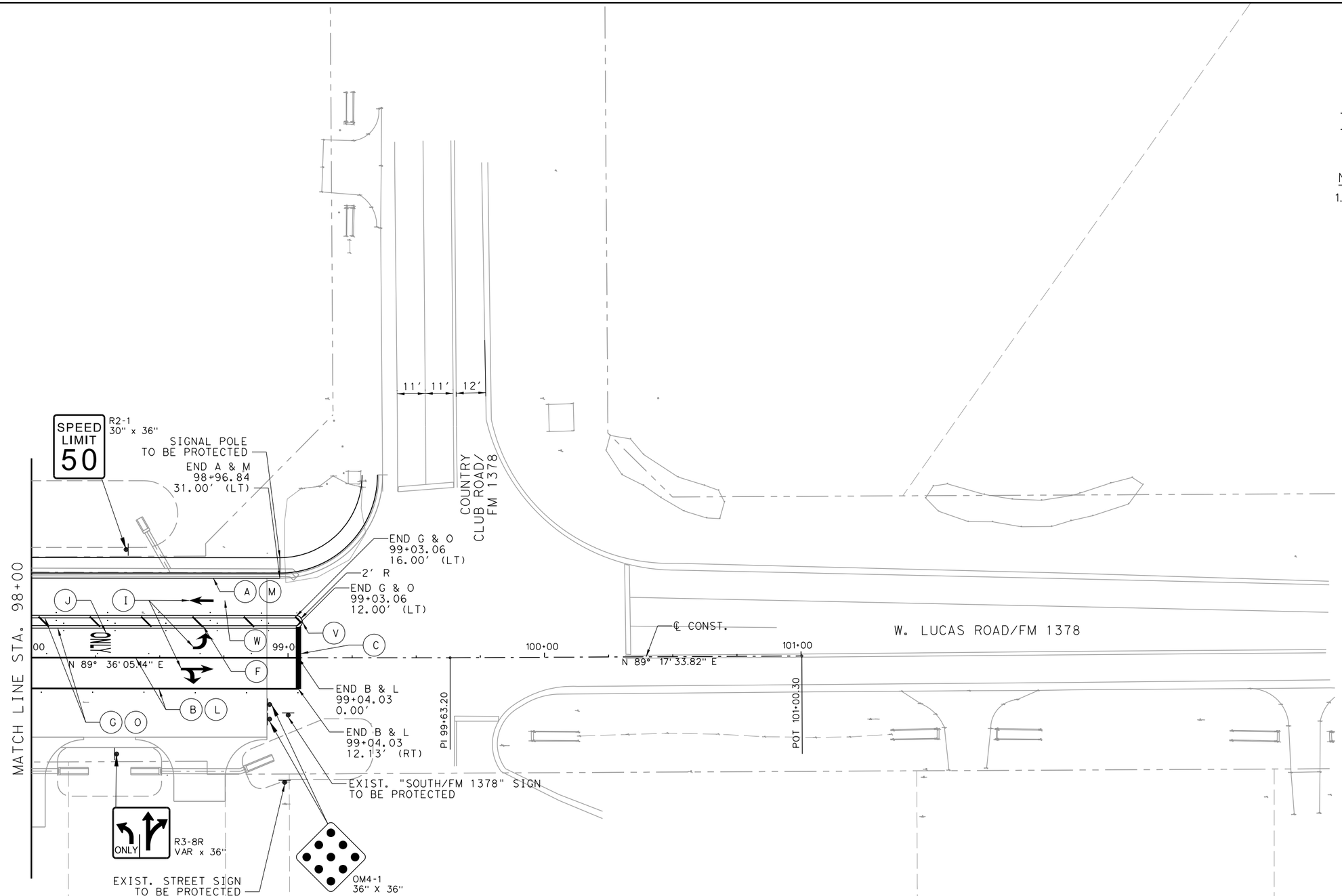
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		250
COLLIN		

DATE: 4/6/2026 1:57:28 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P09.dgn

Texas 811 Know what's below. Call before you dig.



NOTE:

1. PLACE BLUE RPM, FOR FIRE HYDRANT, AT CENTER OF NEAREST LANE.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

SIGNING AND PAVEMENT MARKINGS

SHEET 10 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		251
COLLIN		

DATE: 4/6/2026 1:57:29 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\8. Traffic\WLucas_SGNPMRK_P10.dgn

Texas811 Know what's below. Call! before you dig.

PART III, SEC. A: SHARED SWPPP DEVELOPMENT

1. **CONTRACTOR** (Operator in charge of SWPPP day-to-day implementation)
   Name:_____
   Address:_____
   Contact:_____
   Phone:_____
   Date Notice of Intent (NOI) Submitted to TCEQ: N/A

OWNER
Name: CITY OF LUCAS, PUBLIC WORKS DEPARTMENT
Address: 665 Country Club Road; Lucas, TX, 75002
Contact: Director of Public Works, Jeremy Bogle
Phone: Office:(972) 912-1208 Main: (972) 727-8999

TCEQ does not require NOI for Small Construction Project < 5 acres.

2. **OPERATOR'S RESPONSIBILITIES:**

CONTRACTOR

- Update this SWPPP sheet to match contractor's means and methods by providing the following information on this page:
  - Contractor's name and contact information
  - Dates SWPPP was prepared
  - Update the Description/Phasing of Land Disturbing Activity as needed
  - Complete the Construction Support Activities information
  - Complete inspectors' information and qualifications
  - Select and note the inspection day
- Construction Site Notice
- Install structural BMPs and implement SWPPP.
- Update SWPPP site maps to reflect contractor's daily operations including revisions, installation dates, grading operation dates, BMP maintenance performed, changes to devices, locations of concrete washout areas, etc.
- Perform SWPPP inspections in accordance with the TPDES General Permit and keep copies of inspection reports with SWPPP. List of qualifications for the inspectors are to be kept with the inspection reports. Provide a copy of weekly inspection reports to the owner.
- Maintain structural BMPs as necessary and provide additional BMPs if required to control erosion and sedimentation.
- Establish permanent ground cover on all disturbed areas related to the construction.
- Maintain contractor's SWPPP records for three years in accordance with the TPDES General Permit.

OWNER

- Submit a copy of Owner's SWPPP to all receiving MS4 Operators.
- Perform SWPPP inspections in accordance with the TPDES General Permit and keep copies of inspection reports with SWPPP. List of qualifications for the inspectors are to be kept with the inspection reports.
- Authorize changes to the SWPPP as necessary to control storm water pollutants.
- Maintain owner's SWPPP records for three years in accordance with TPDES General Permit.

PART III, SEC. F.1.a: PROJECT DESCRIPTION:

The City of Lucas is located in Collin County, Texas northeast of the Dallas-Fort Worth Metroplex, 30 miles north of downtown Dallas. The West Lucas Reconstruction and Widening project is to be completed without the use of any state or federal funds. Project activities will include the rehabilitation of the existing West Lucas Road through removing and replacing the existing paved surface.
Changes to the road, width and paving materials is expected. At this time, it is anticipated that all construction activities will be conducted within the existing and proposed West Lucas Road Easements.

PART III, SEC. F.1.b: POTENTIAL POLLUTANTS & SOURCES:

(X) Concrete Saw Water. Pavement removals and new paving joints.
(X) Sediment. Exposed ground areas without BMP coverage.
(X) Debris & Trash Management
( ) Fuels & Lubricants. Vehicle operations, refueling and maintenance.
(X) Floatable Debris. Improper disposal of construction materials, food & beverage containers, etc.
( ) Raw Sewage. Improper collection & disposal of human waste.
( ) Pesticides. Improper application or spills when used on seeded or sodded areas.
(X) Fertilizer. Improper application or spills when used on seeded or sodded areas.
( ) Hyperchlorinated Water. Improper discharge from new water lines.
(X) Hydrated Lime. Pavement sub-grade stabilization operations.
(X) Waste Concrete. Mixer or transport washouts.
(X) Concrete Curing Compound. Pavement finishing operations.
( ) Portland Cement. Stored on site for concrete batch plant operations.
( ) Fly Ash. Stored on site for concrete batch plant operations.
( ) Paints & Solvents. Exterior painting operations.
( ) Boring Mud. Waste from horizontal or vertical drilling operations.
( ) Sand Blasting Grit. Improper collection of waste from sand blasting
( ) Others.

PART III, SEC. F.1.c: DESCRIPTION/ PHASING OF LAND DISTURBING ACTIVITY

Phase I	Install Erosion Control	Start Date:_____	End Date:_____
Phase 2	Clearing and Grubbing	Start Date:_____	End Date:_____
Phase 3	U.G. Utility Installation	Start Date:_____	End Date:_____
Phase 4	Paving Operations	Start Date:_____	End Date:_____
Phase 5	Building Construction	Start Date:_____	End Date:_____
Phase 6	Landscaping & Cleanup	Start Date:_____	End Date:_____

PART III, SEC. F.1.d:

Disturbed area (Acres):	24.63 Acres
Disturbed Area to Date (Acres):	0.0 Acres
Total Site Area (Acres):	24.63 Acres

PART III, SEC. F.1.e : SOIL TYPES ON SITE

- Fat Clay
- Lean Clay/Clayey Sand

PART III, SEC. F.1.f: GENERAL LOCATION MAP

- See cover sheet of construction plan set.

PART III, SEC. F.1.g: DETAILED SITE MAPS

- See Erosion Control Plan sheets of the construction plan set for detailed erosion control plan requirements.

PART III, SEC. F.1.h: CONSTRUCTION SUPPORT ACTIVITIES

- Discharges of storm water runoff from the following indicated construction support activities are included under this general permit provided that the following conditions are met:
  (a) the activity is located within one mile of the construction site;
  (b) the SWPPP includes provisions for controlling erosion and the discharge of pollutants from the support activity site(s); and
  (c) the support activities do not operate beyond the completion date of the construction activity.

( ) Rock Crushers Location:
( ) Equipment Staging Area Location:
( ) Material Storage Yard Location:
( ) Material Borrow Areas Location:
( ) Material Spoil Areas Location:
(X) None Applicable

PART III, SEC. F.1.i: RECEIVING WATERS

- The following indicated streams receive storm water runoff from the construction site:

(X) Muddy Creek

PART III, SEC. F.1.j: TPDES GENERAL PERMIT

- A current copy of the TPDES General Permit is bound in the Contract Bid Manual, and/or is included herewith.

PART III, SEC. F.1.k: NOTICE OF INTENT

- A copy of the SWPPP shall be kept with the site inspection reports for the project. Copies shall be posted and maintained at the construction site. A copy of the acknowledgement certificate when received by each owner shall be kept with the inspection report records.

PART III, SEC. F.2&4: BEST MANGEMENT PRACTICES (BMPs)

The BMPs indicated below are to be used on this project where shown on the Detailed Site Maps referenced above.

Erosion Prevention

( ) Interceptor Swale	( ) Diversion Dike
( ) Pipe Slope Drain	(X) Mulching
( ) Erosion Control Blankets	(X) Channel Protection

Sedimentation Control

(X) Silt Fence	( ) Organic Filter Berm
( ) Triangular Sediment Filter Dike	(X) Inlet Protection
( ) Stone Outlet Sediment Trap	( ) Organic Filter Tube (Synthetic Bales or Erosion Control Log)
(X) Check Dams	( ) Temporary Sediment Tank
( ) Depressed Grade Sediment Trap	( ) Pipe Inlet Protection
*Sediment Basin	

*Note: Temporary sediment basins are required to be used for treatment of disturbed land area runoff from areas that are 10 acres or larger. See Part III, Sec. F.2(c)(i)(A) below.

Stabilization Practices

( ) Permanent Seeding	(X) Permanent Sodding
( ) Vegetative Buffer Strips	(X) Protection of Existing Trees
(X) Temporary Vegetation	

Off-Site Tracking & Dust Control

(X) Stabilized Construction Entrance	( ) Wheel Wash
( ) Dust Control	

Velocity Control

( ) Pipe Outlet Velocity Control	(X) Permanent Sodding

Other Required Controls

( ) Perm. Pipe Outlet Velocity Controls	(X) Debris & Trash Management
(X) Concrete Waste Management	(X) Lime Stabilization Management
(X) Conc. Sawcutting Management	(X) Sanitary Facilities
( ) Sandblasting Waste Management	( ) Chemical Management

PART III, SEC. F.2(c)(i)(A): SEDIMENT BASINS

- A sedimentation basin is required, where feasible, for a common drainage location that serves an area with ten (10) or more acres disturbed at one time.

(X) A sediment basin is not required on this project.
( ) A sediment basin(s) is used on this project with location(s), design calculations and capacity calculations provided on the detailed site maps of this SWPPP.
( ) A sediment basin(s) is not feasible for this project for the following reasons:
( ) Highly Pervious Soils: Soils do not exist on the site that are adequate for dam construction.
( ) Excessively Flat Site: Topography will not allow a basin to drain properly.
( ) Trees to Remain: Tree removal for basin construction would violate the City's Tree Protection Ordinance.
( ) High Groundwater Elevation The normal groundwater elevation is above the bottom elevation of a basin.
( ) Shallow Depth to Bedrock Bedrock would have to be removed to install a basin.

For each item selected, the design engineer shall provide written documentation indicating why a sediment basin cannot be installed on the site. A copy of this documentation shall be included with the inspection report records for the project. Supporting documentation may include soils reports, topographic maps and approved site plans indicating protected tree areas.

PART III, SEC. F.3: PERMANENT STORMWATER CONTROL $_____

PART III, SEC. F.2(c)(i)(A): SEDIMENT BASINS

- Sodding and seeding gabion walls.

PART III, SEC. F.5: APPROVED STATE & LOCAL PLANS

- This SWPPP has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

PART III, SEC. F.6 : MAINTENANCE REQUIREMENTS

- All erosion and sediment control measures and other protective measures identified in this SWPPP must be maintained in effective operating condition. If through inspections the Operator responsible for implementation of the devices determines that the BMPs are not operating effectively or is directed by a representative of the operator of the MS4 to perform maintenance, the maintenance must be performed before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Erosion and sediment controls that have been intentionally disabled, run-over, removed, or otherwise rendered ineffective must be replaced or corrected immediately upon discovery.

PART III, SEC. F.7: INSPECTION OF CONTROLS

PERSONNEL:
Each Operator shall provide inspection personnel that are knowledgeable of the TPDES General Permit, familiar with the construction site, and knowledgeable with the SWPPP for the site. Responsible parties shall be as listed below:

CONTRACTOR:		
INSPECTOR(S):		
COMPANY:		
PHONE:		

QUALIFICATIONS:

- A document listing the qualifications of each named inspector shall be kept with the inspection reports for the project which are a part of this SWPPP.
- Inspections Interval: Each Operator shall have an inspector conduct an inspection of the construction site once every seven (7) calendar days on the following designated day:

CONTRACTOR:

Monday	Tuesday	Wednesday	Thursday	Friday

- Inspections: Inspectors shall inspect disturbed areas of the construction site, areas used for storage of materials that are exposed to precipitation, discharge locations, and structural controls for evidence of, or the potential for, pollutants entering the drainage system. Sediment and erosion control measures identified in the SWPPP shall be inspected to ensure that they are properly installed, operating correctly and have not been damaged or destroyed. Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.
- Inspection Reports: A report summarizing the scope of the inspection, the date of the inspection, and major observations relating to the implementation of the SWPPP must be made and retained as part of the SWPPP. Major observations should include: The locations of discharges of sediment or other pollutants from the site; locations of BMPs that need to be maintained; locations of BMPs that failed to operate as designed or proved inadequate for a particular location; and locations where additional BMPs are needed.

Actions taken as a result of inspections must be described within, and retained as a part of, the SWPPP. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the site is in compliance with SWPPP and the TPDES General Permit.

The certification on the inspection reports that are in full compliance shall be as follows:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign this document and can provide documentation in proof of such authorization upon request.

SIGNATURE:_____ DATE:_____

Certifications on inspection reports may be signed by an authorized inspector when the site is in full compliance with the TPDES General Permit.

RESULTS OF INSPECTIONS:

The SWPPP must be modified based on the results of inspections, as necessary to better control pollutants in runoff. Revisions to the SWPPP must be completed within seven (7) calendar days following the inspection or sooner if directed by the City. If existing BMPs are modified or if additional BMPs are necessary, these changes shall be Implemented wherever possible, before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable.

PART IV: CONCRETE BATCH PLANTS

- Discharges of storm water runoff from concrete batch plants are not covered under this general permit. If used on this project, the Contractor must have discharges authorized under an alternative general permit or an individual permit for his concrete batch plant operations.

PART V: CONCRETE TRUCK WASHOUTS

- Discharges of storm water runoff from concrete batch plants are not covered under this general permit. If used on this project, the Contractor must have discharges authorized under an alternative general permit or an individual permit for his concrete batch plant operations.

WATER USE RESTRICTIONS

- Local water use restrictions in response to drought conditions can affect the ability of permittees to establish permanent ground cover which is required prior to their permit termination. The TPDES General Permit allows modifications to the BMPs used and the inspections interval under these circumstances.

( ) The City of Lucas has not implemented water use restrictions prior to the start of construction on this project.
( ) The City of Lucas implemented water use restrictions during the construction of this project.
  ( ) Date Restrictions Implemented:
  ( ) Inspections interval modified per General Permit.
  ( ) BMPs modified on Site Map.
  ( ) Date Restrictions were lifted:
( ) The City of Lucas implemented water use restrictions pr
project.
  ( ) Date Restrictions Implemented:
  ( ) Inspections interval modified per General Permit
  ( ) BMPs modified on Site Map.
  ( ) Date Restrictions were lifted:

PART II, SEC 3(e): MS4 OPERATOR NOTIFICATION:

- The following MS4 Operators indicated have rece
Intent, Notices of Termination and any Notices of

( ) City of Lucas
Public Works Department
Lucas, TX 5002
ATTN: Director of Public Works

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

STATE OF TEXAS
CHRISTOPHER P. MESZLER
112052
LICENSED
PROFESSIONAL ENGINEER

W. LUCAS RD.
ROADWAY IMPROVEMENTS

STORM WATER POLLUTION PREVENTION PLAN

SHEET 1 OF 1

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		252
COLLIN		

Texas811 Know what's below. Call before you dig.

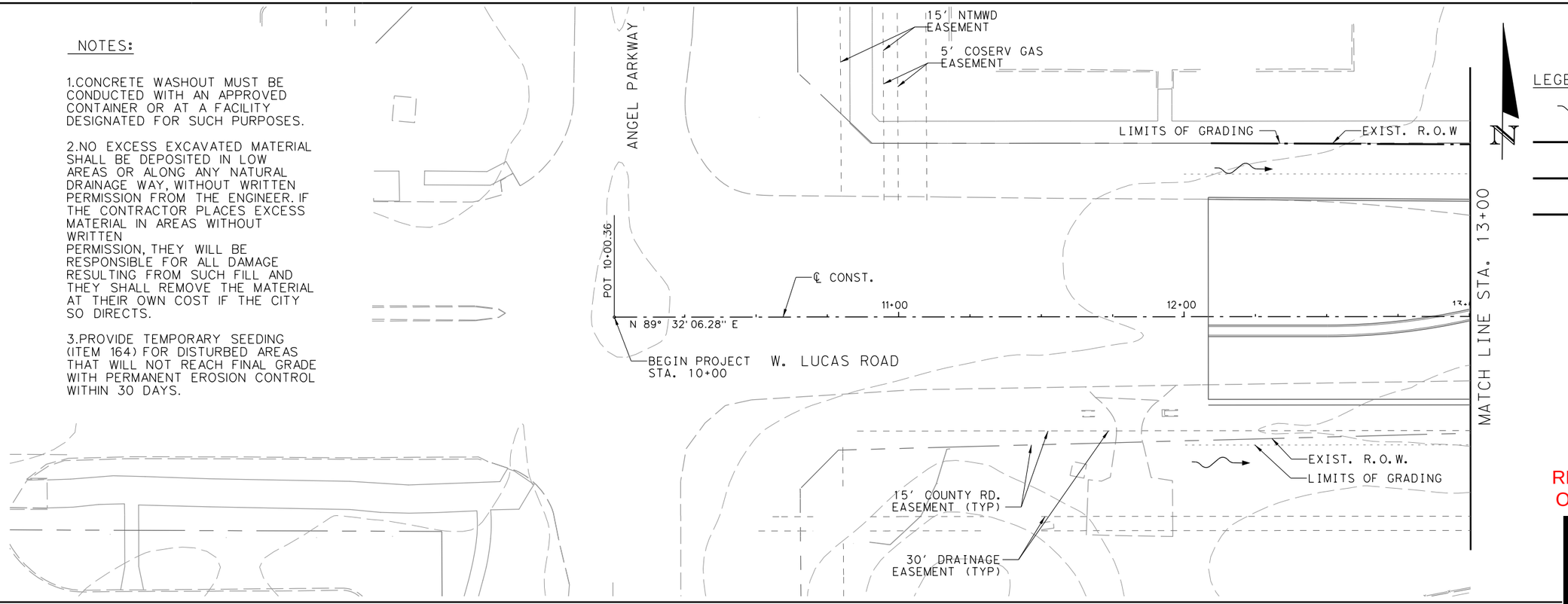
DATE: 4/6/2026 1:57:29 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\SW3P_2013.dgn

NOTES:

1.CONCRETE WASHOUT MUST BE CONDUCTED WITH AN APPROVED CONTAINER OR AT A FACILITY DESIGNATED FOR SUCH PURPOSES.

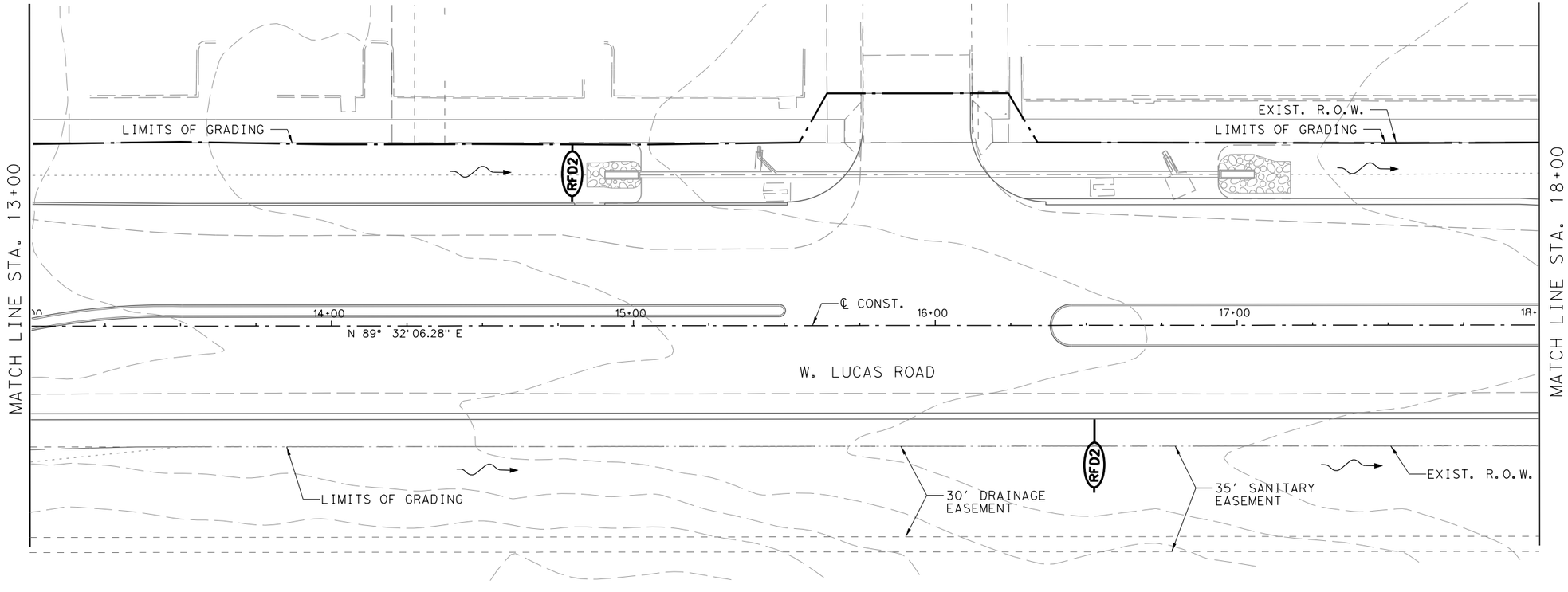
2.NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG ANY NATURAL DRAINAGE WAY, WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN AREAS WITHOUT WRITTEN PERMISSION, THEY WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND THEY SHALL REMOVE THE MATERIAL AT THEIR OWN COST IF THE CITY SO DIRECTS.

3.PROVIDE TEMPORARY SEEDING (ITEM 164) FOR DISTURBED AREAS THAT WILL NOT REACH FINAL GRADE WITH PERMANENT EROSION CONTROL WITHIN 30 DAYS.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]



W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 1 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

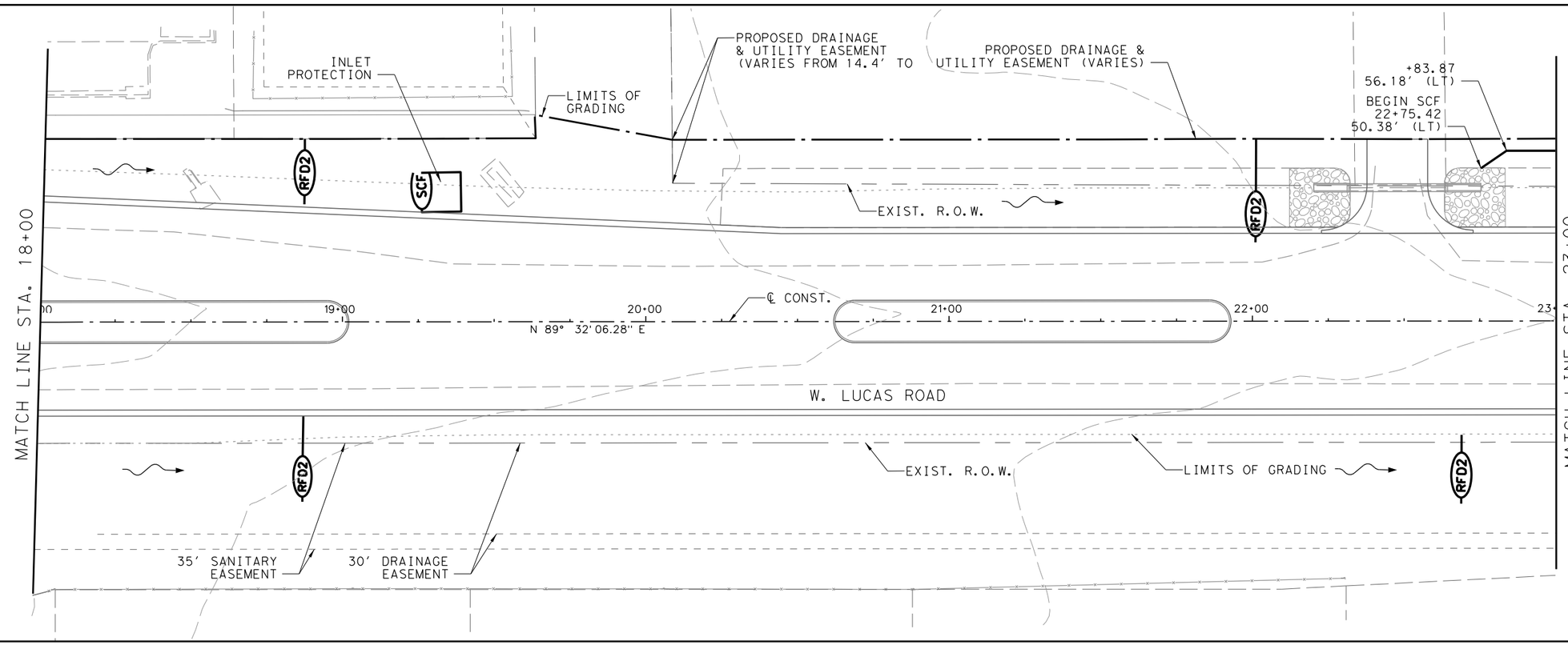
bc engineering
a PARSONS Company

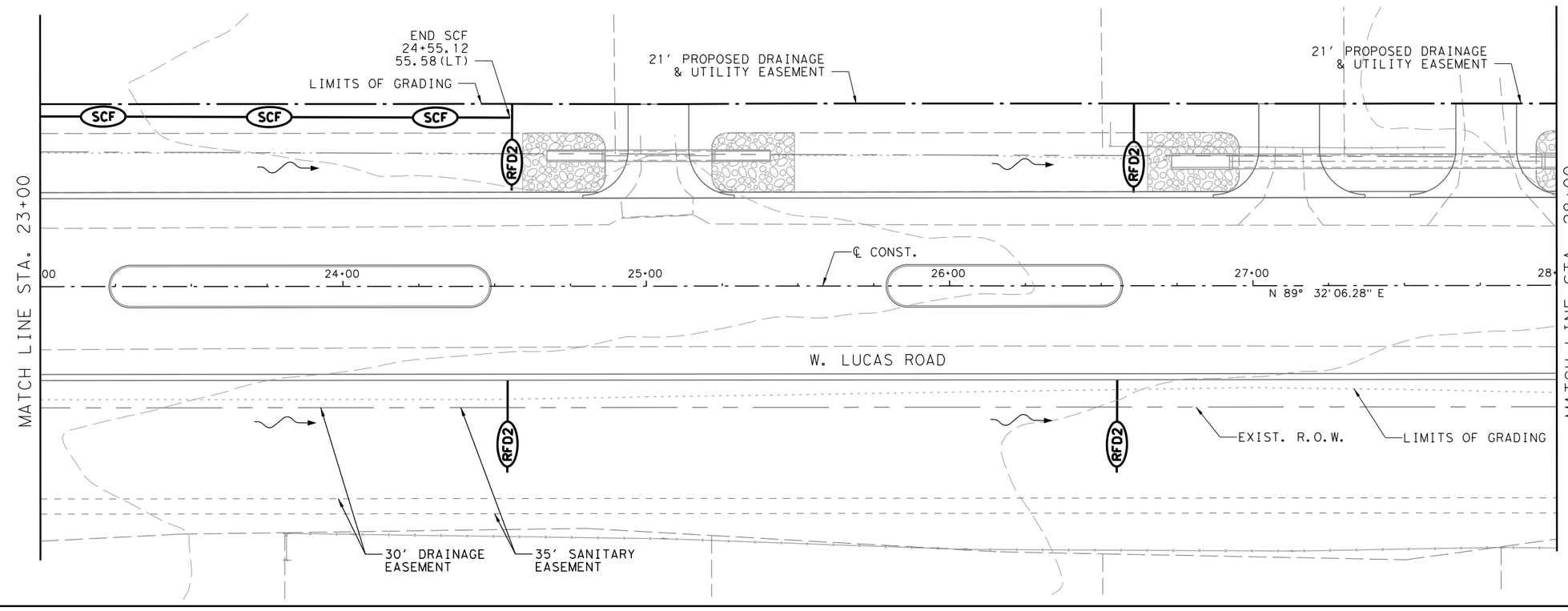
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		253
COLLIN		

DATE: 4/6/2026 1:57:35 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P01.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

LEGEND:

- DIRECTION OF FLOW
- SCF — SEDIMENT CONTROL FENCE
- RFD2 — ROCK FILTER DAM TYPE-2
- RFD3 — ROCK FILTER DAM TYPE-3

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 2 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

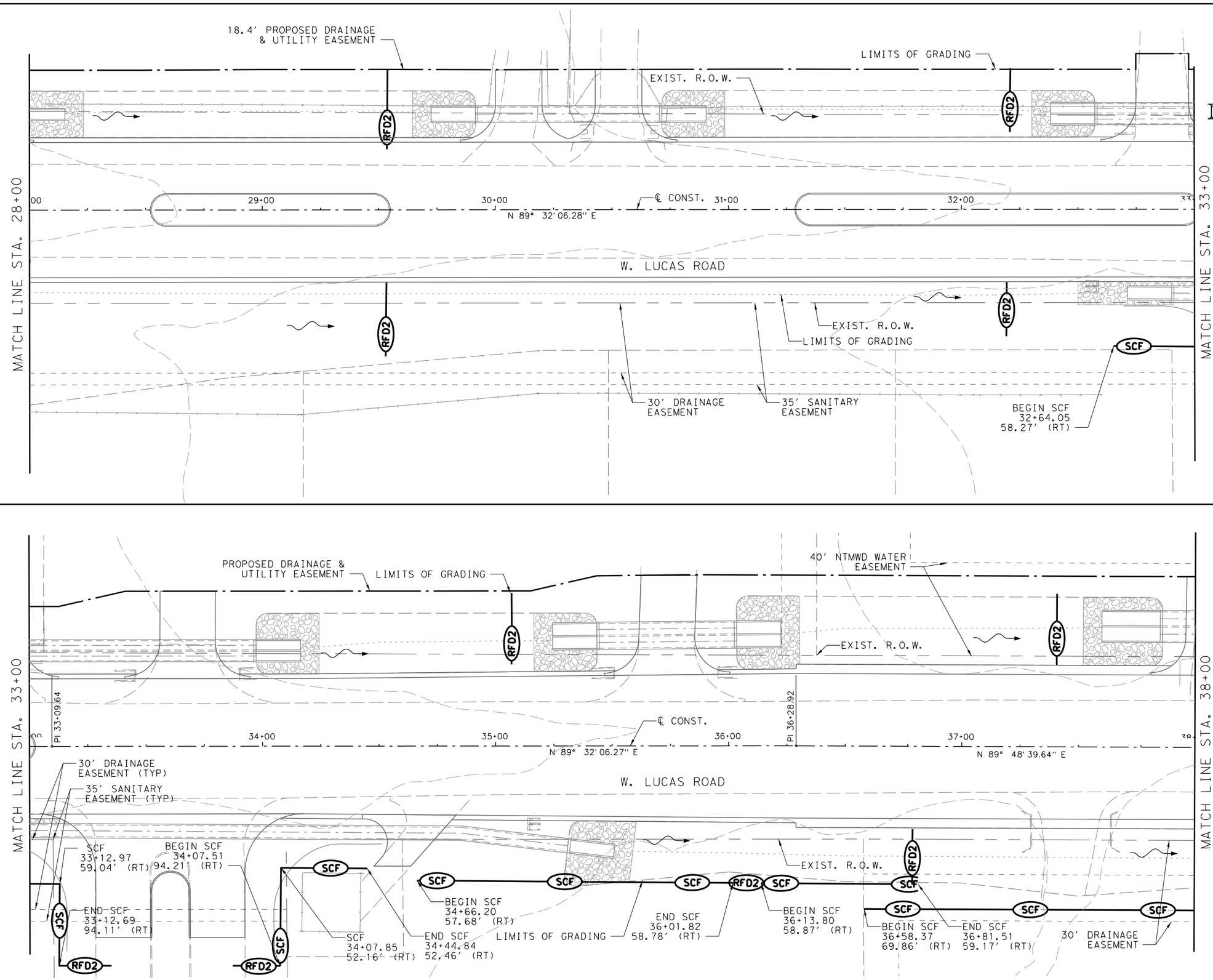
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		254
COLLIN		

DATE: 4/6/2026 1:57:36 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P02.dgn

Texas 811 Know what's below. Call before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 3 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

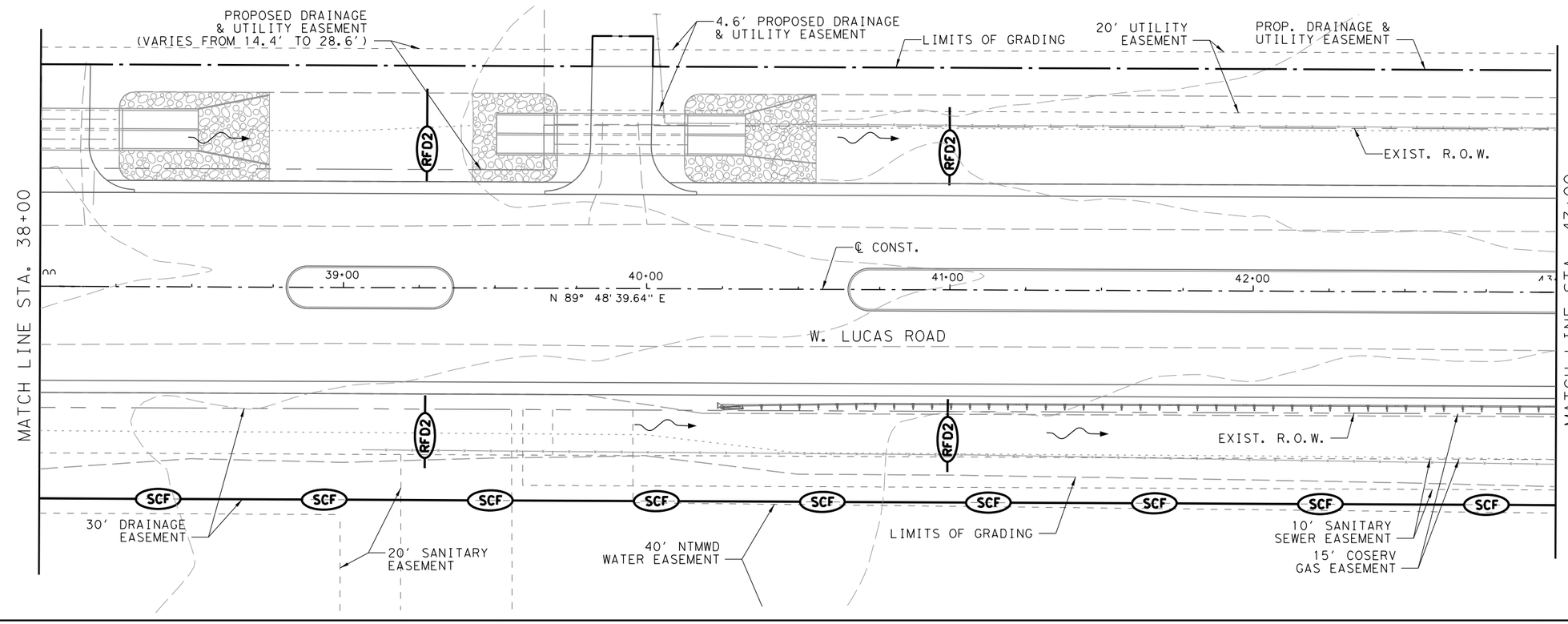
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		255
COLLIN		

DATE: 4/6/2026 1:57:37 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P03.dgn

Texas 811 Know what's below. Call! before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 4 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

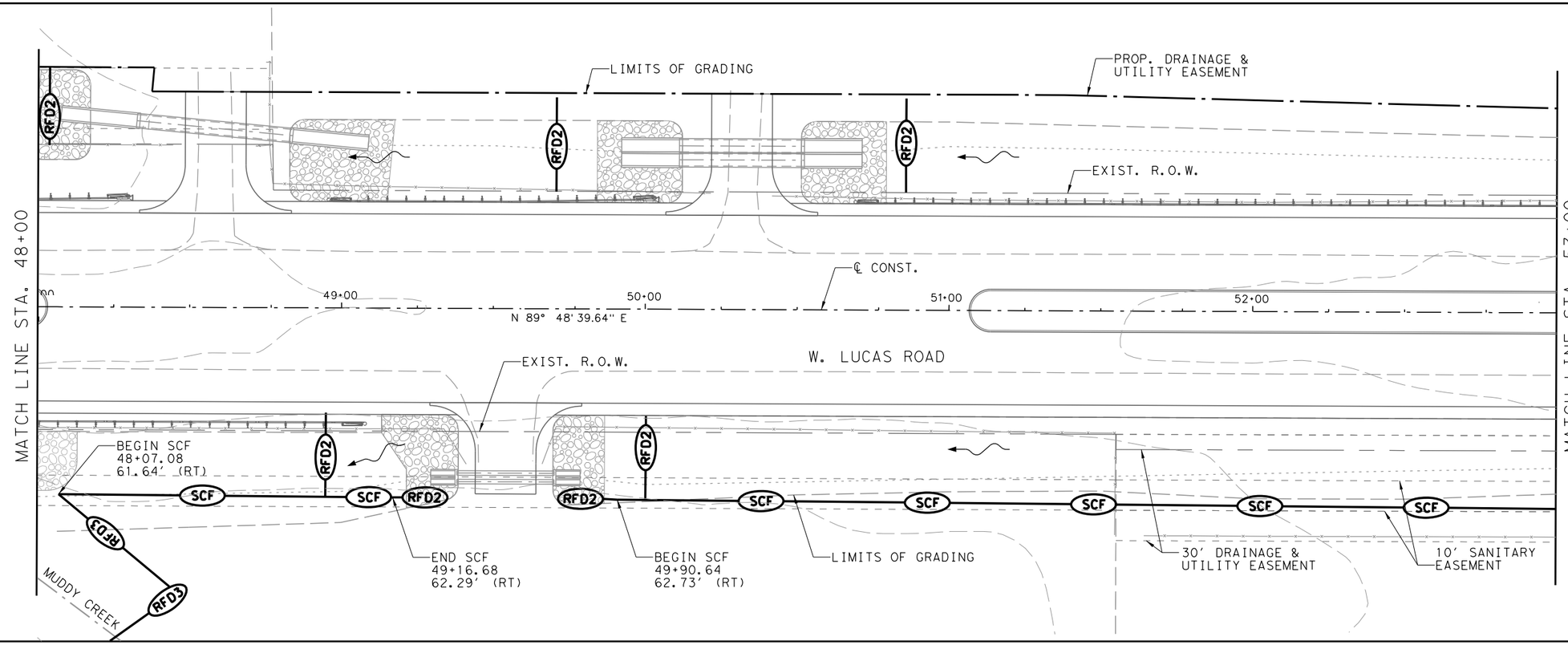
bc engineering
a PARSONS Company

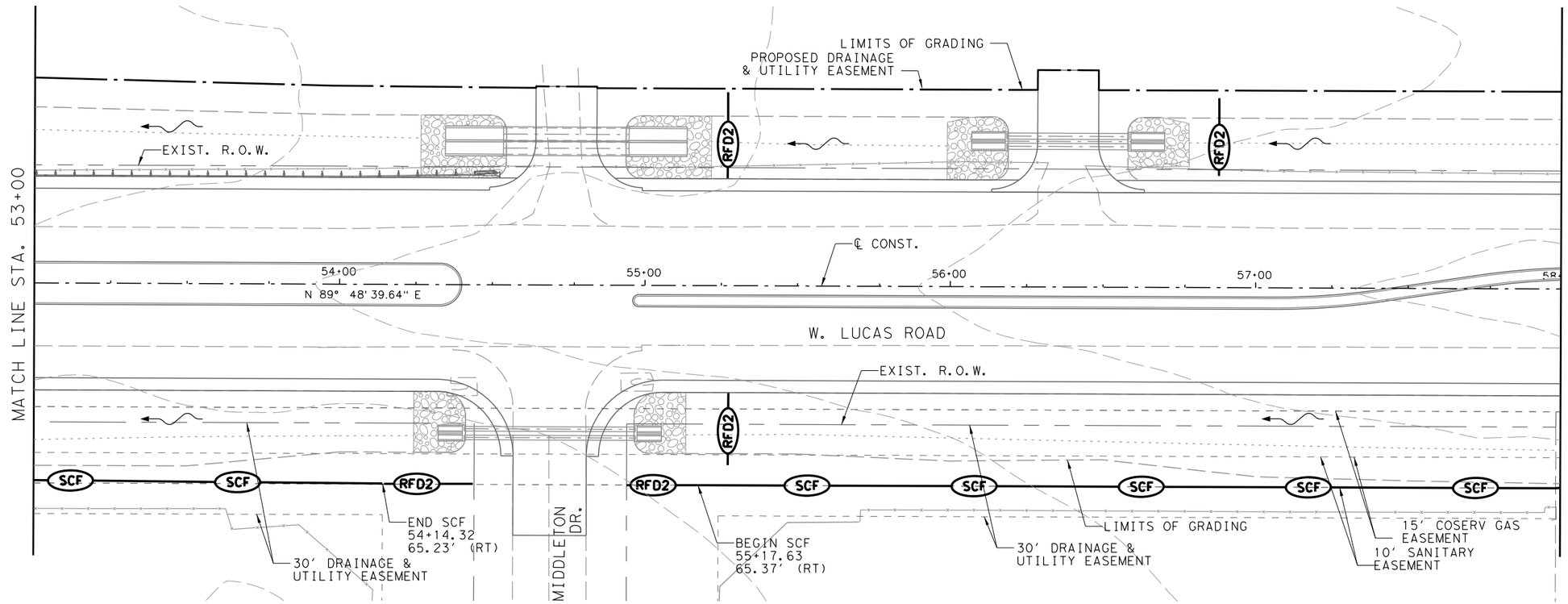
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		256
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:57:38 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P04.dgn





0 10 40
Feet

LEGEND:

- DIRECTION OF FLOW
- SCF — SEDIMENT CONTROL FENCE
- RFD2 — ROCK FILTER DAM TYPE-2
- RFD3 — ROCK FILTER DAM TYPE-3

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 5 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

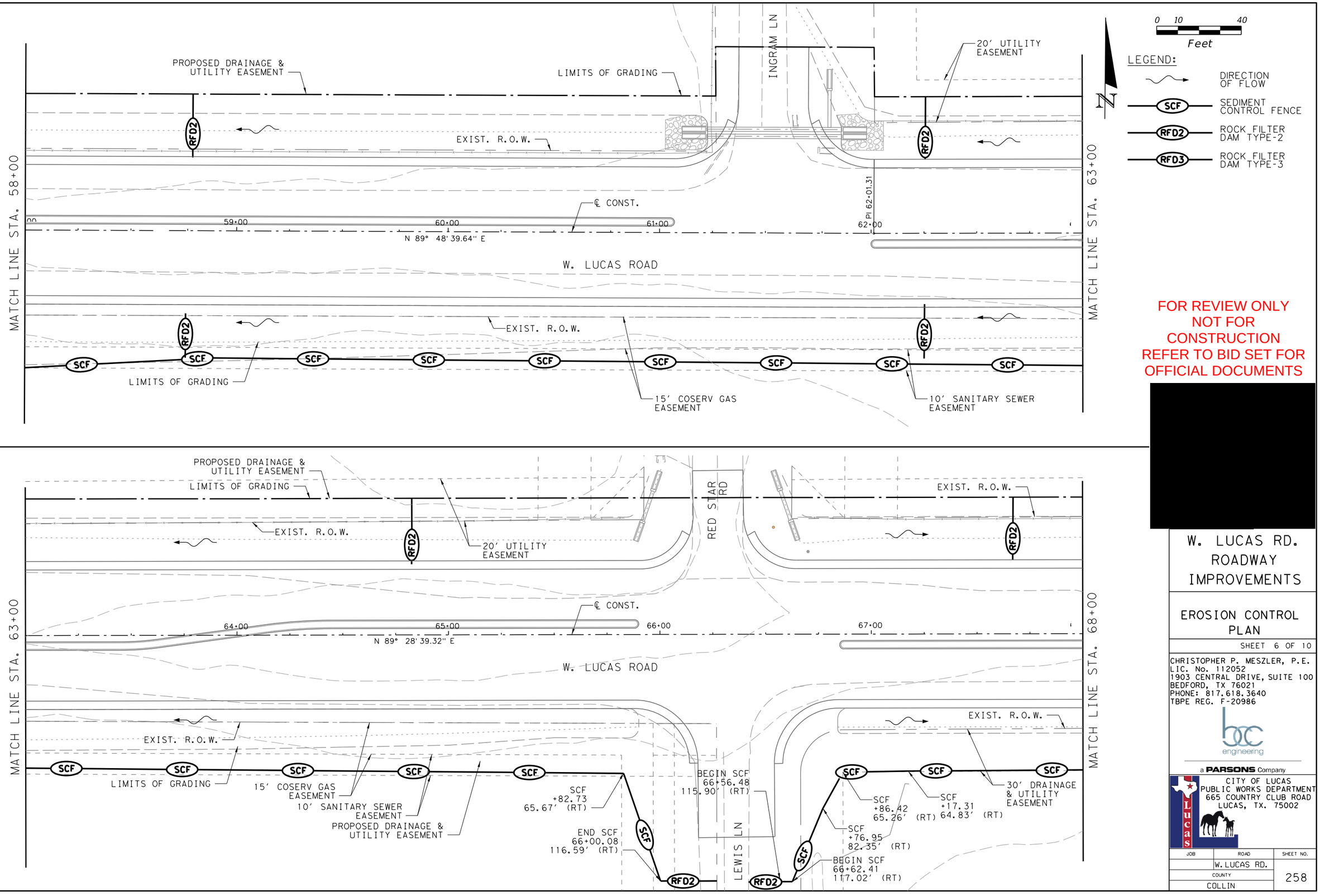
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		257
COLLIN		

DATE: 4/6/2026 1:57:39 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P05.dgn

Texas 811 Know what's below. Call before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 6 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

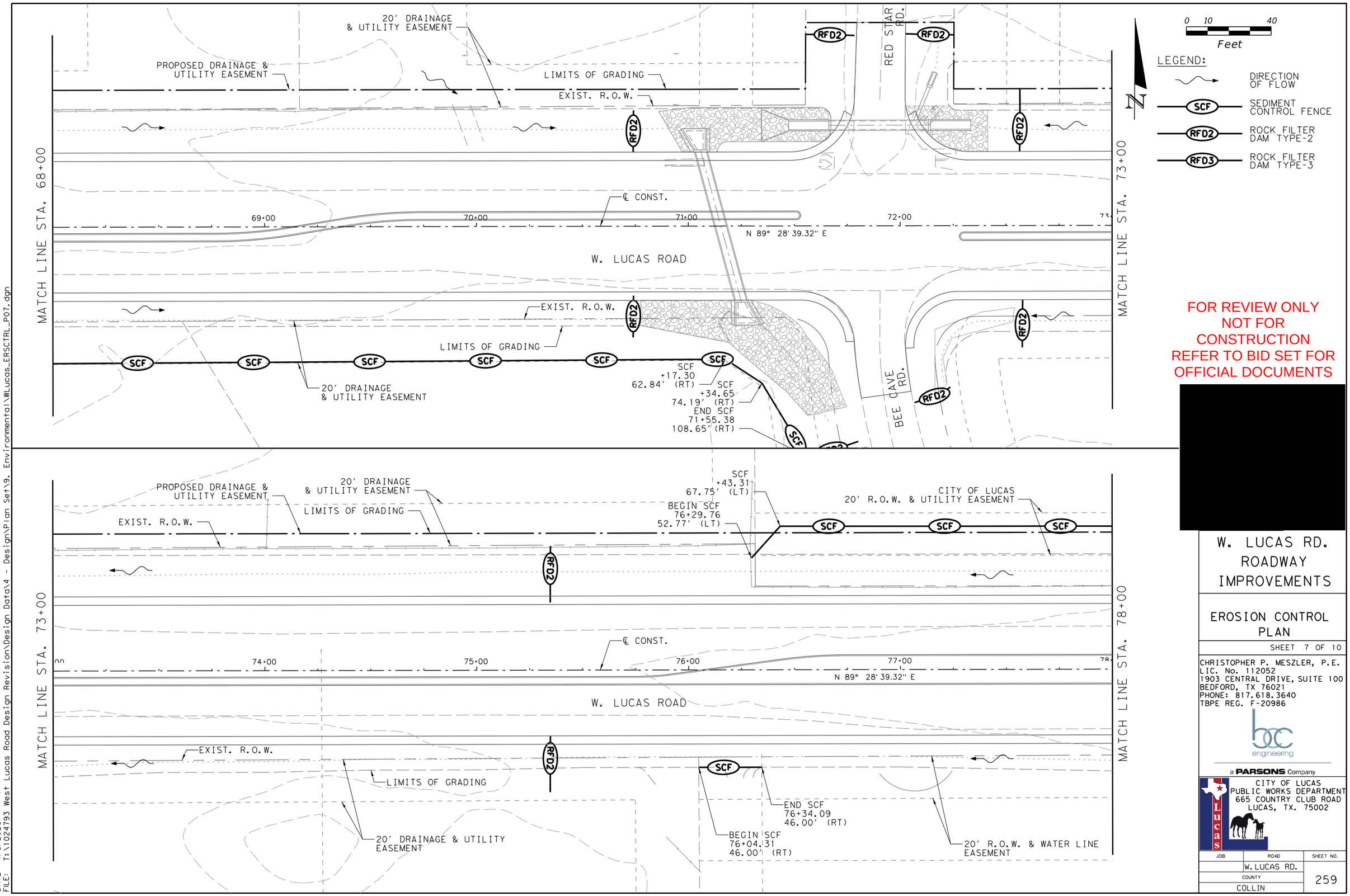
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		258
COLLIN		

DATE: 4/6/2026 1:57:40 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P06.dgn

Texas 811 Know what's below. Call before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 7 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

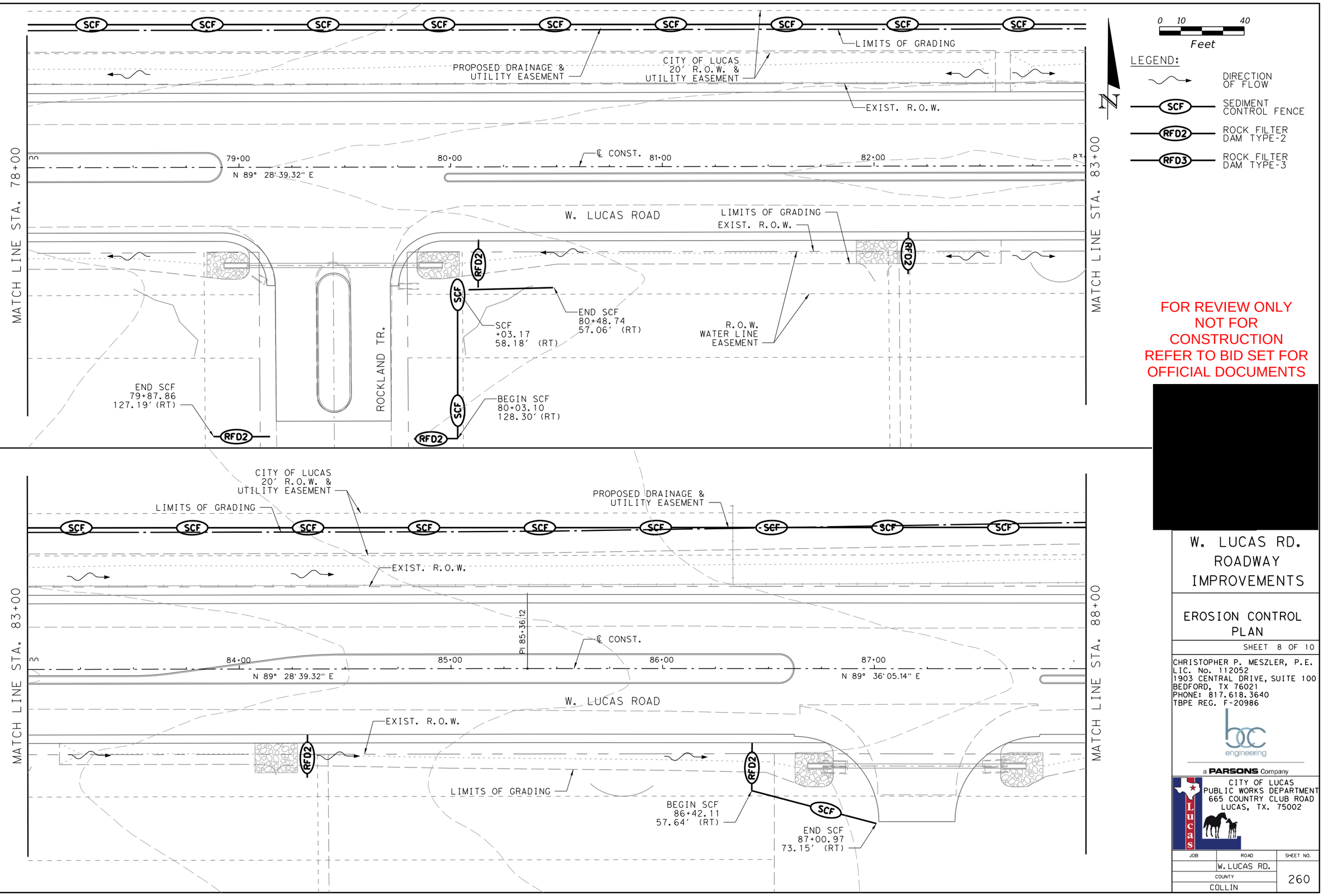
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		259
COLLIN		

Texas 811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:57:41 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P07.dgn



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 8 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

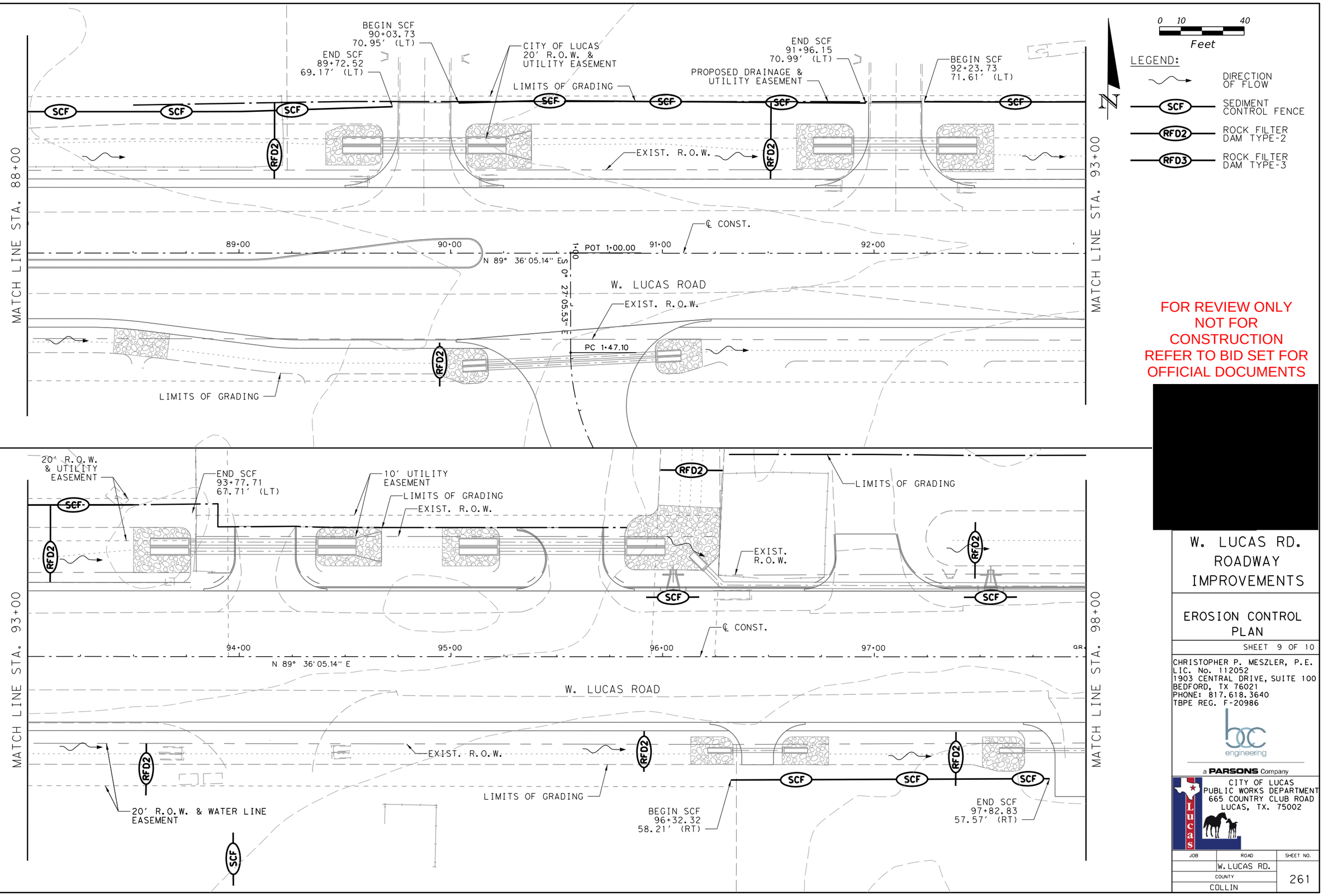
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		260
COLLIN		

DATE: 4/6/2026 1:57:42 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P08.dgn

Texas 811 Know what's below. Call before you dig.



FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 9 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

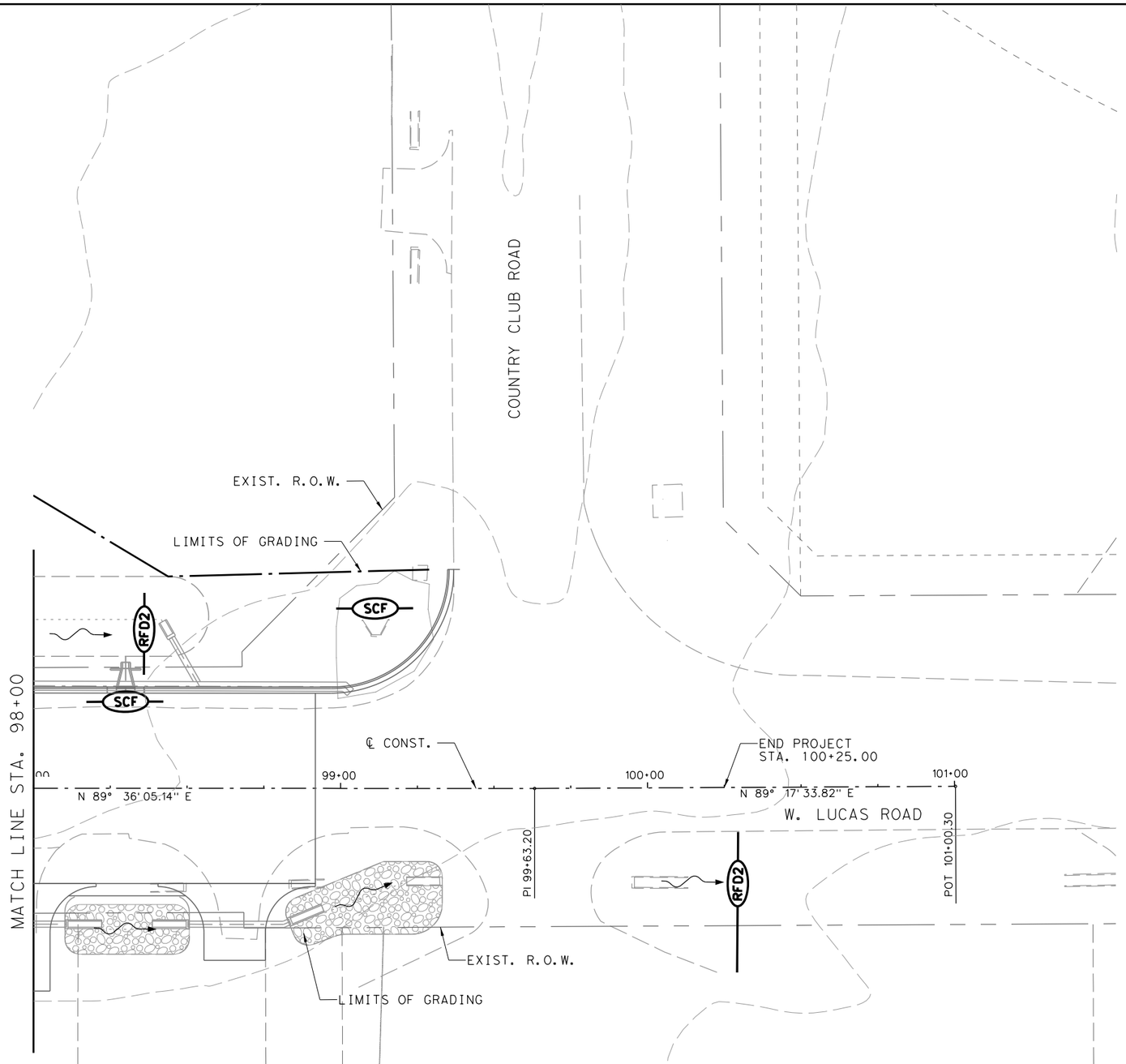
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		261
COLLIN		

DATE: 4/6/2026 1:57:43 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P09.dgn

Texas 811 Know what's below. Call before you dig.



STA	LT/RT	INSTALL DATE	MAINTAINED DATE	REMOVE DATE
14+79.79	LT			
16+52.63	RT			
18+87.56	LT			
18+86.75	RT			
22+01.13	LT			
22+68.88	RT			
24+55.75	LT			
24+54.23	RT			
26+60.78	LT			
26+55.15	RT			
29+53.59	LT			
29+53.02	RT			
32+20.89	LT			
32+19.33	RT			
35+06.95	LT			
36+07.51	RT			
36+79.00	RT			
37+40.63	LT			
39+27.39	LT			
39+27.08	RT			
40+99.73	LT			
40+99.42	RT			
43+76.91	LT			
43+76.60	RT			
45+76.84	LT			
46+71.13	RT			
47+07.06	LT			
48+03.70	LT			
48+94.96	RT			
49+96.10	LT			
50+00.34	RT			
50+68.26	LT			
55+27.00	LT			
55+27.38	RT			
56+80.39	LT			
58+75.93	RT			
58+79.14	LT			
62+25.70	LT			
62+25.08	RT			
64+82.70	LT			
67+66.98	LT			
70+73.97	RT			
71+01.57	LT			
71+66.85	LT			
72+15.67	LT			
72+56.54	LT			
72+57.62	RT			
80+12.98	RT			
82+16.12	RT			
84+32.04	RT			
86+42.18	RT			
89+16.74	LT			
89+94.83	RT			
91+51.17	LT			
93+40.30	LT			
93+56.22	RT			
96+11.74	LT			
96+10.85	RT			
97+38.53	RT			
98+29.84	LT			
100+29.24	RT			

0 10 40
Feet

LEGEND:

- DIRECTION OF FLOW
- SCF — SEDIMENT CONTROL FENCE
- RFD2 — ROCK FILTER DAM TYPE-2
- RFD3 — ROCK FILTER DAM TYPE-3

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

EROSION CONTROL PLAN

SHEET 10 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

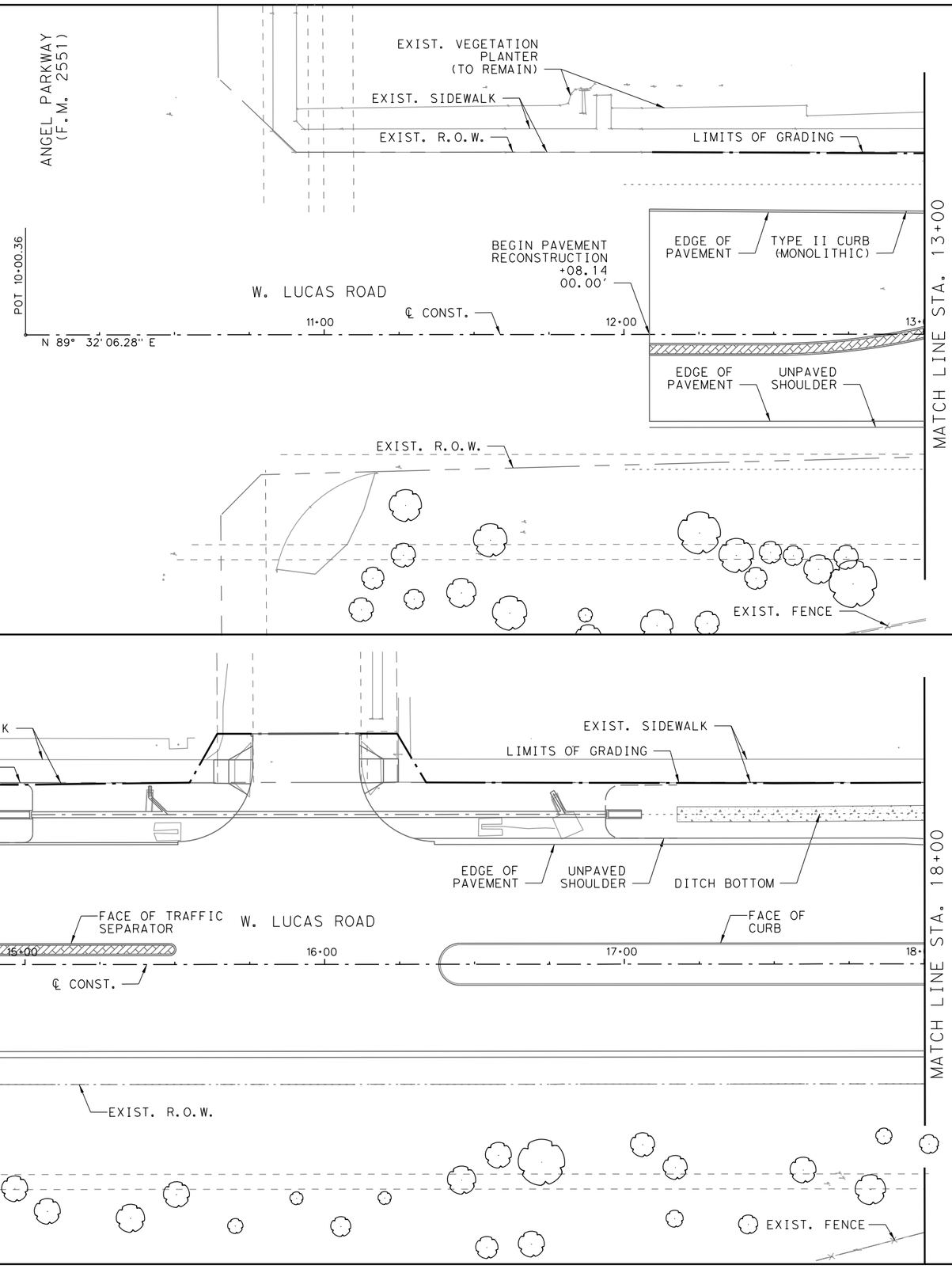
JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		262
COLLIN		

DATE: 4/6/2026 1:57:44 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_ERSCTRL_P10.dgn

Texas811 Know what's below. Call! before you dig.

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL TREE DATA PROVIDED ON PLANS AS NECESSARY PRIOR TO THE START OF CONSTRUCTION ACTIVITY.
2. TREE PRESERVATION MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
3. TREES WITH A TRUNK DIAMETER LESS THAN 6" WERE NOT IDENTIFIED AND SHOWN ON PLANS. CONTRACTOR SHALL REMOVE TREES WITH A DIAMETER OF LESS THAN 6" THAT WILL BE IN CONFLICT AS PART OF PREP R.O.W. ITEM. NO SEPARATE PAYMENT.
4. SEE TXDOT STANDARD TRB-15 (1 & 2) FOR ADDITIONAL INFORMATION ON TREE AND BRUSH REMOVAL.
5. SEE TXDOT STANDARD TPD-19(AUS) FOR ADDITIONAL INFORMATION ON TREE PROTECTION.
6. NO ADDITIONAL TREES SHALL BE CUT EXCEPT ON SPECIFIC AUTHORITY OF THE CITY.



0 10 40
Feet

LEGEND:

- REMOVE
- PROTECT
- REMAIN

NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 1 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

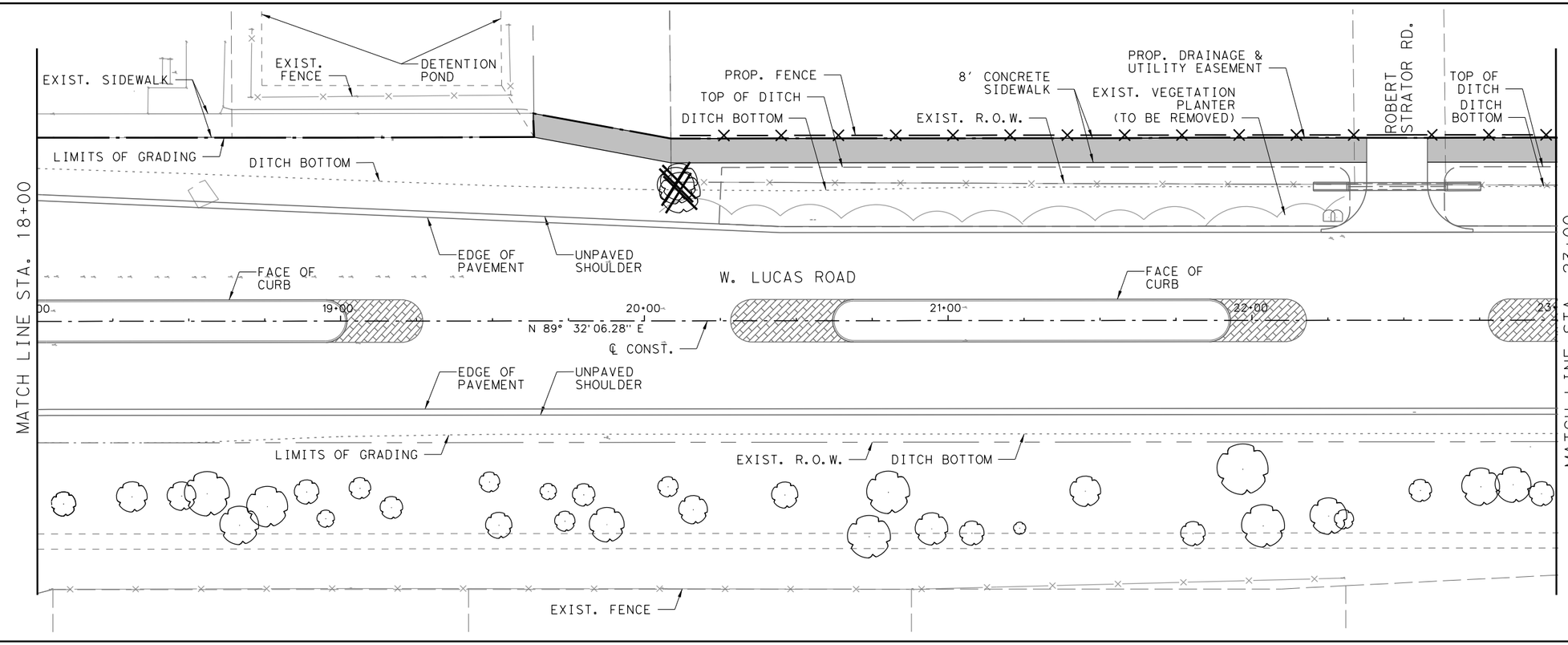
bc engineering
a PARSONS Company

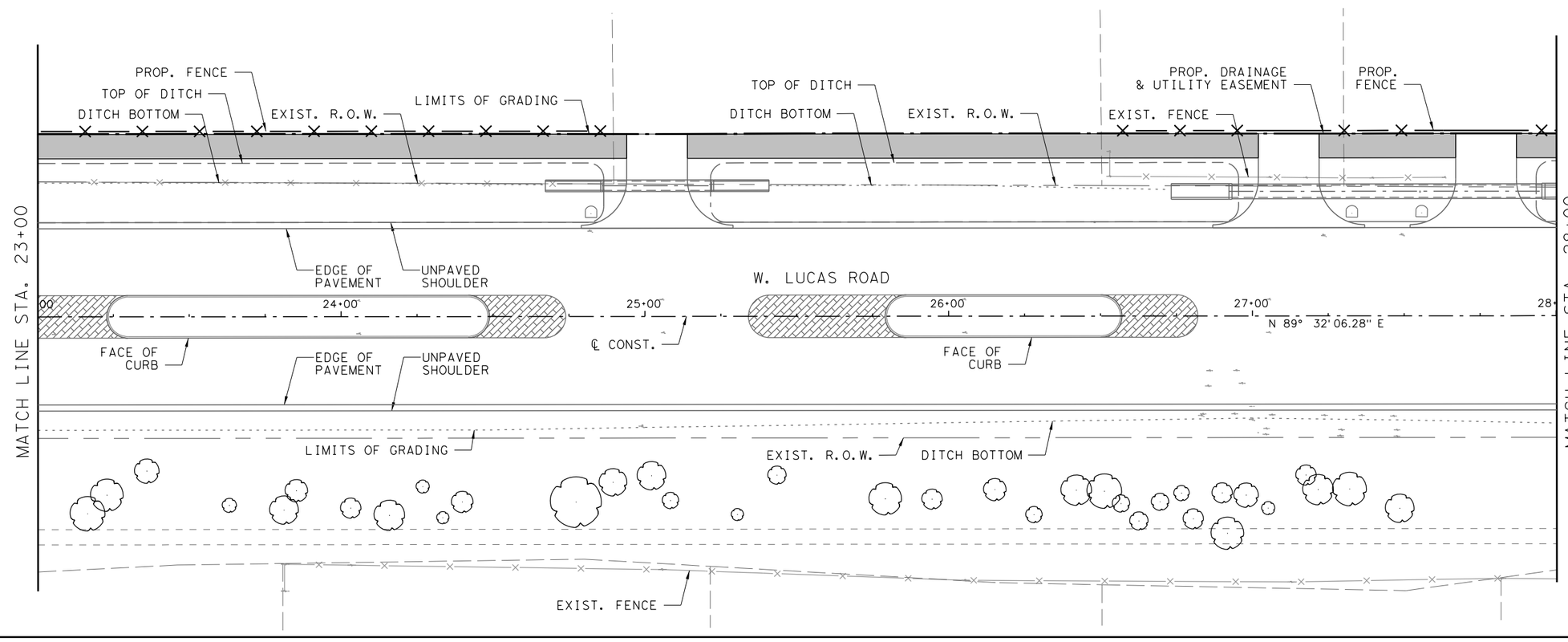
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		263
COLLIN		

DATE: 4/6/2026 1:57:47 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P01.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

LEGEND:

- REMOVE
- PROTECT
- REMAIN

NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 2 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

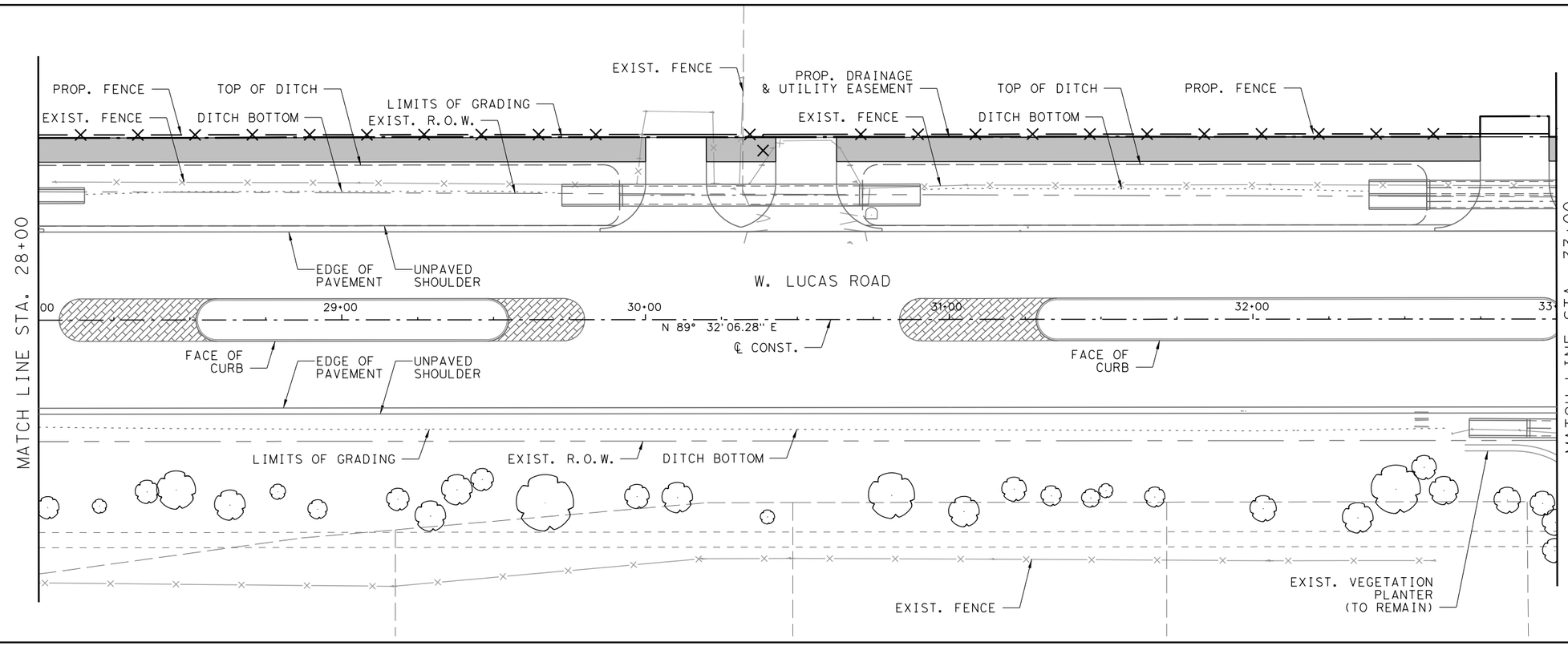
bc engineering
a PARSONS Company

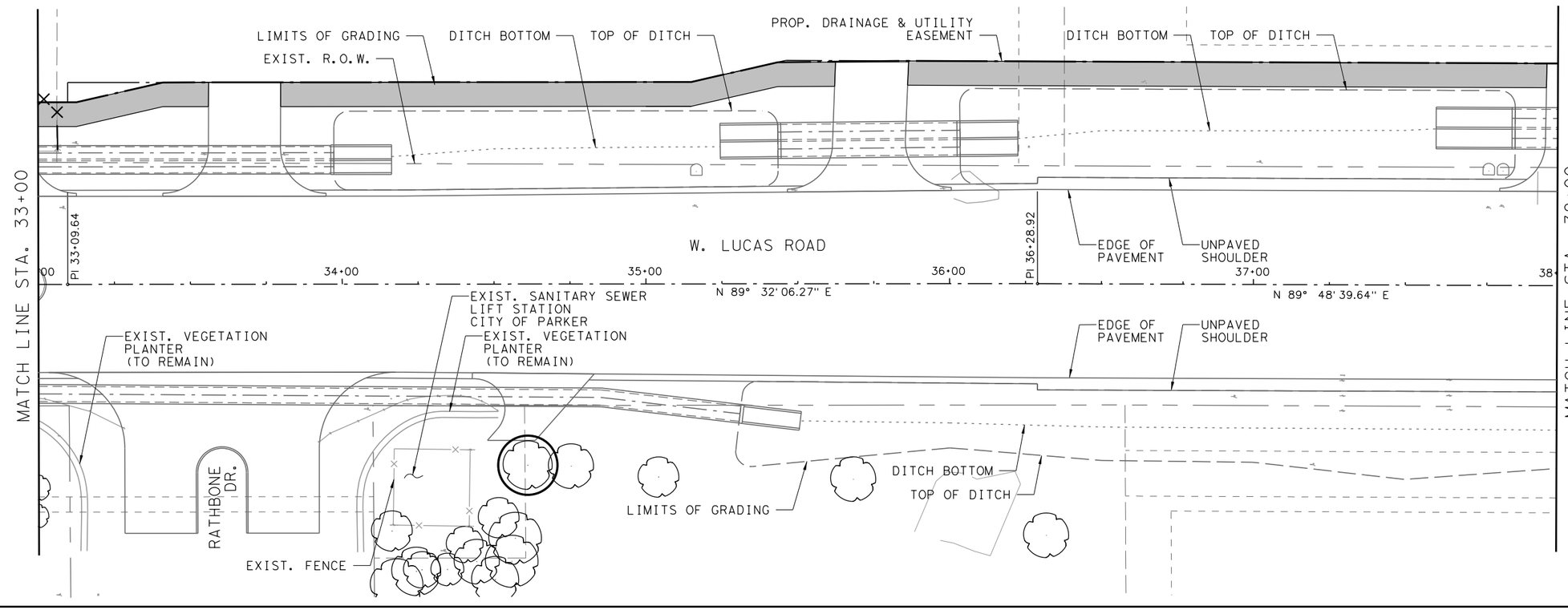
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		264
COLLIN		

DATE: 4/6/2026 1:57:49 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P02.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

LEGEND:

- REMOVE
- PROTECT
- REMAIN

NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 3 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

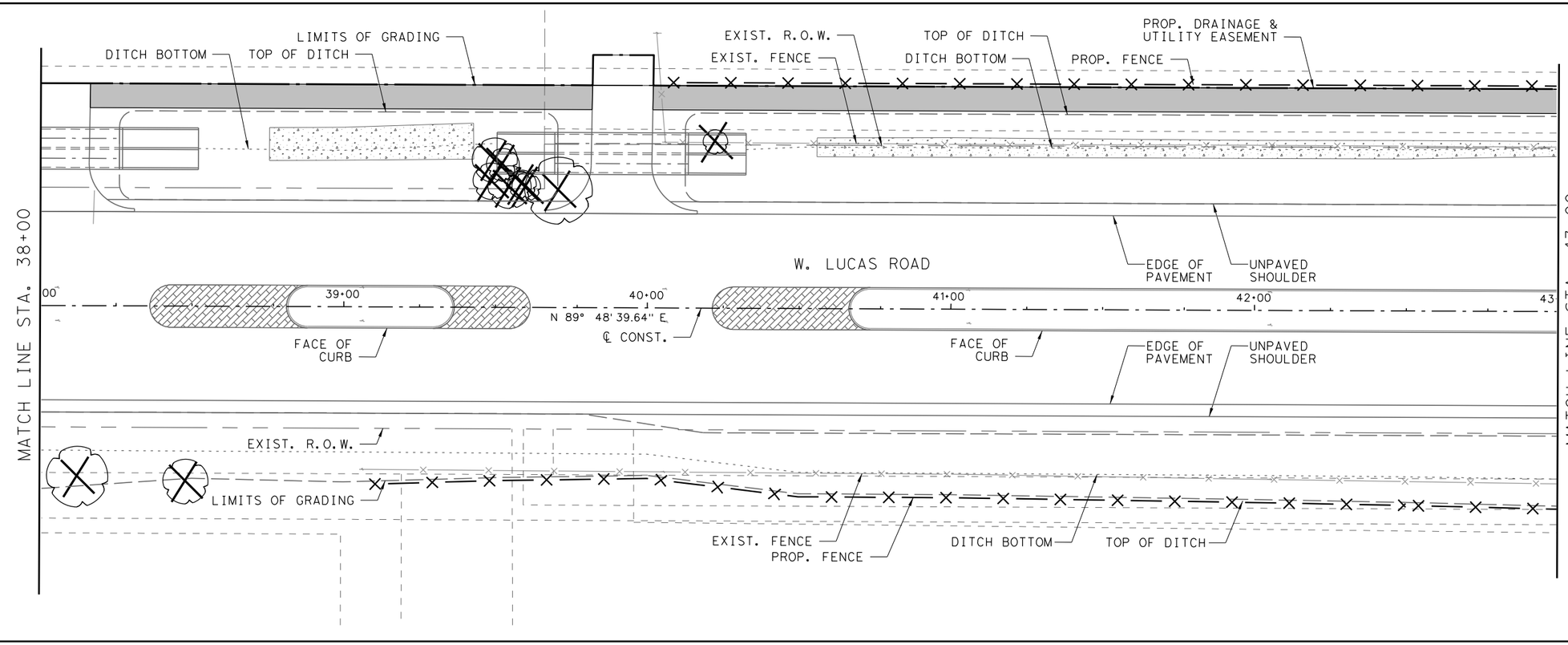
bc engineering
a PARSONS Company

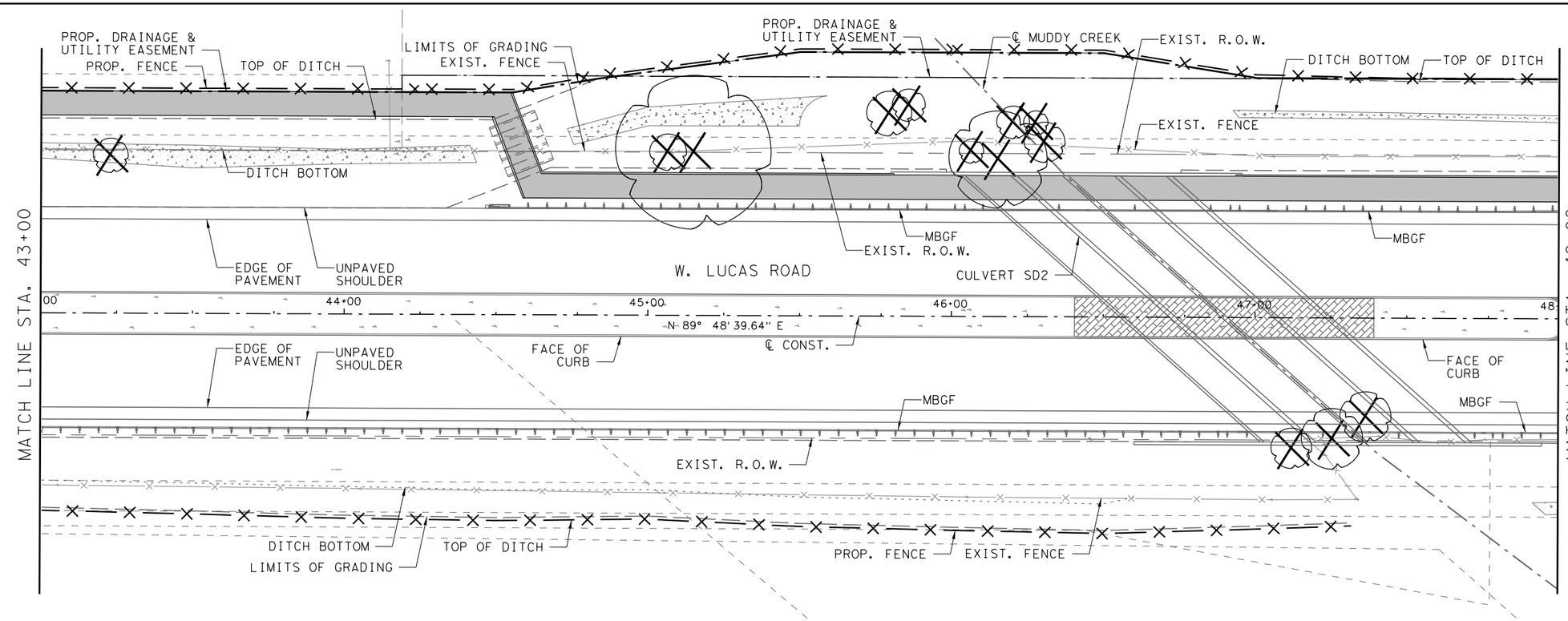
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		265
COLLIN		

DATE: 4/6/2026 1:57:50 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P03.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

LEGEND:

- REMOVE
- PROTECT
- REMAIN

NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 4 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

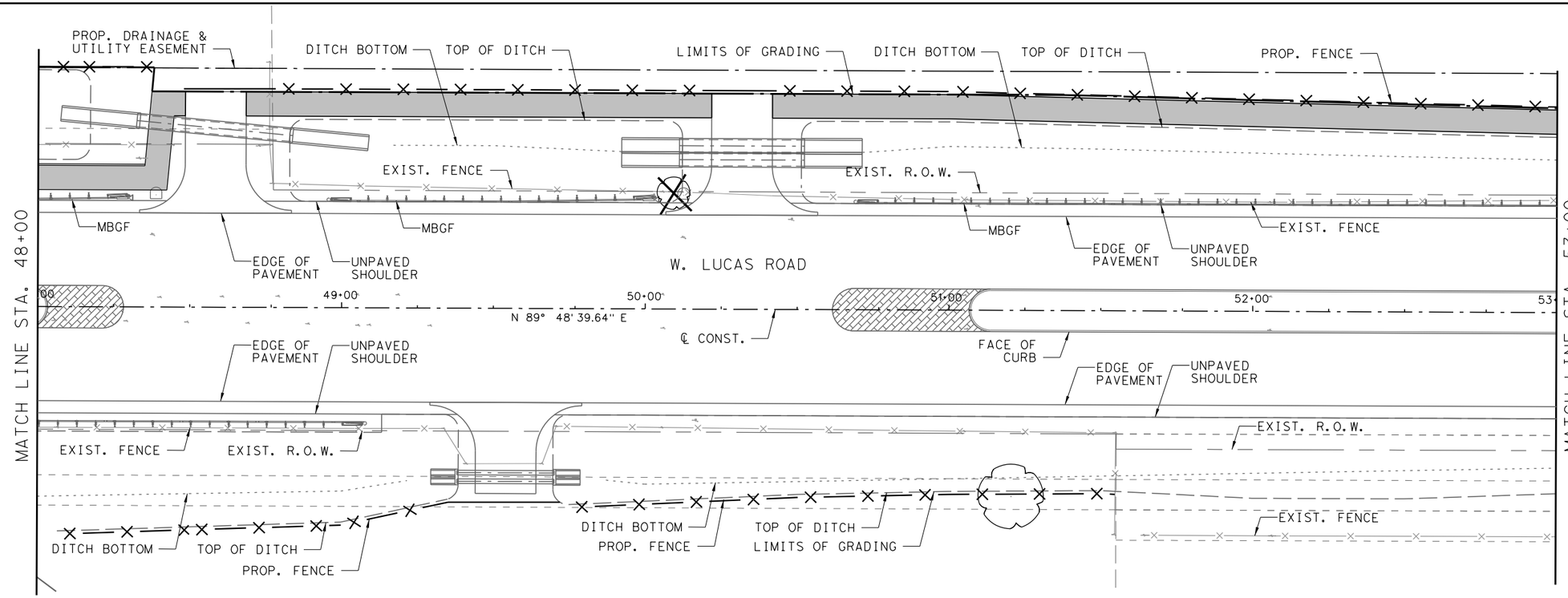
bc engineering
a PARSONS Company

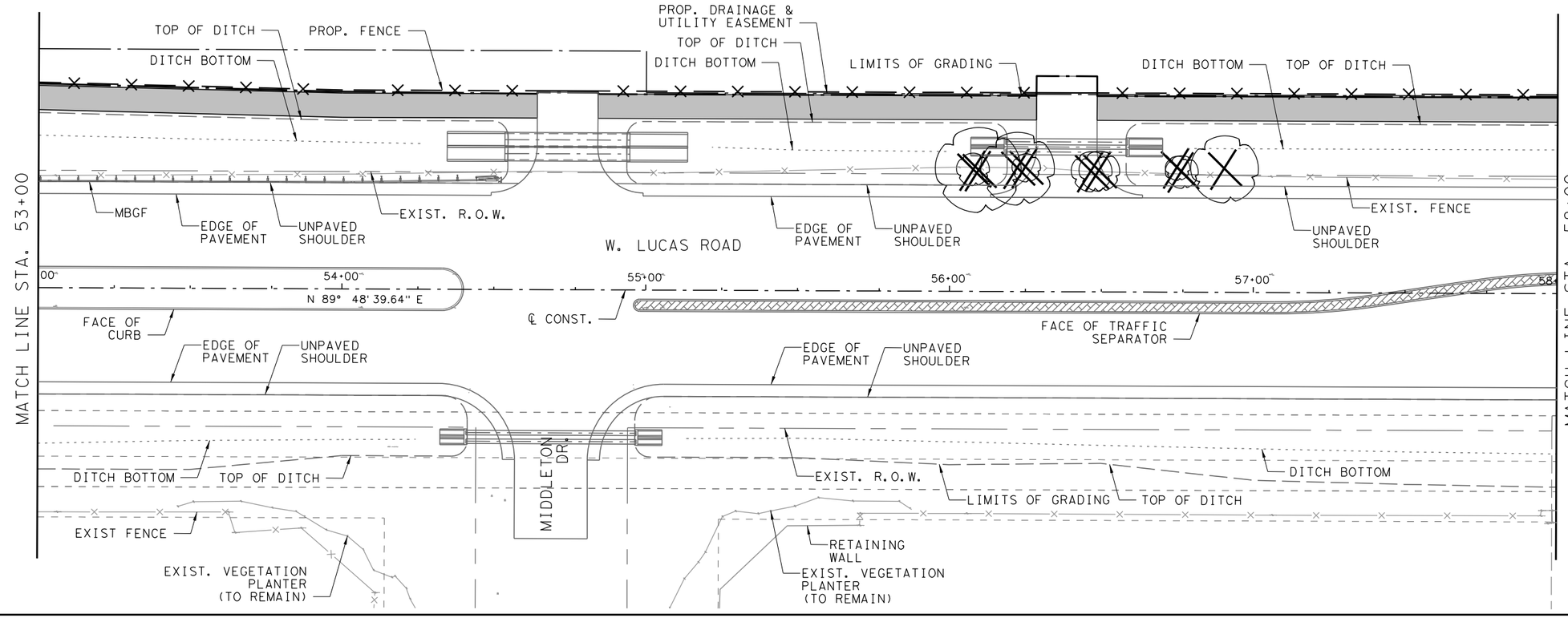
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		266
COLLIN		

DATE: 4/6/2026 1:57:52 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P04.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

N

LEGEND:

- REMOVE
- PROTECT
- REMAIN

NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 5 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

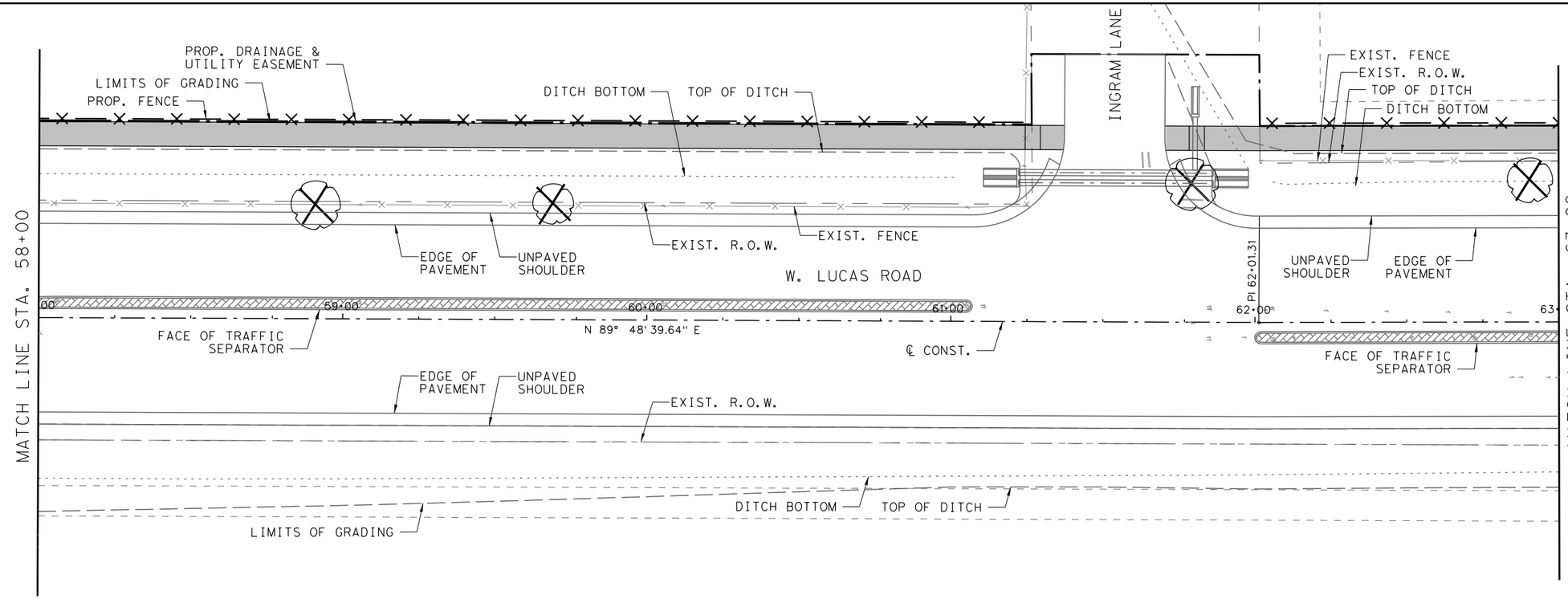
bc engineering
a PARSONS Company

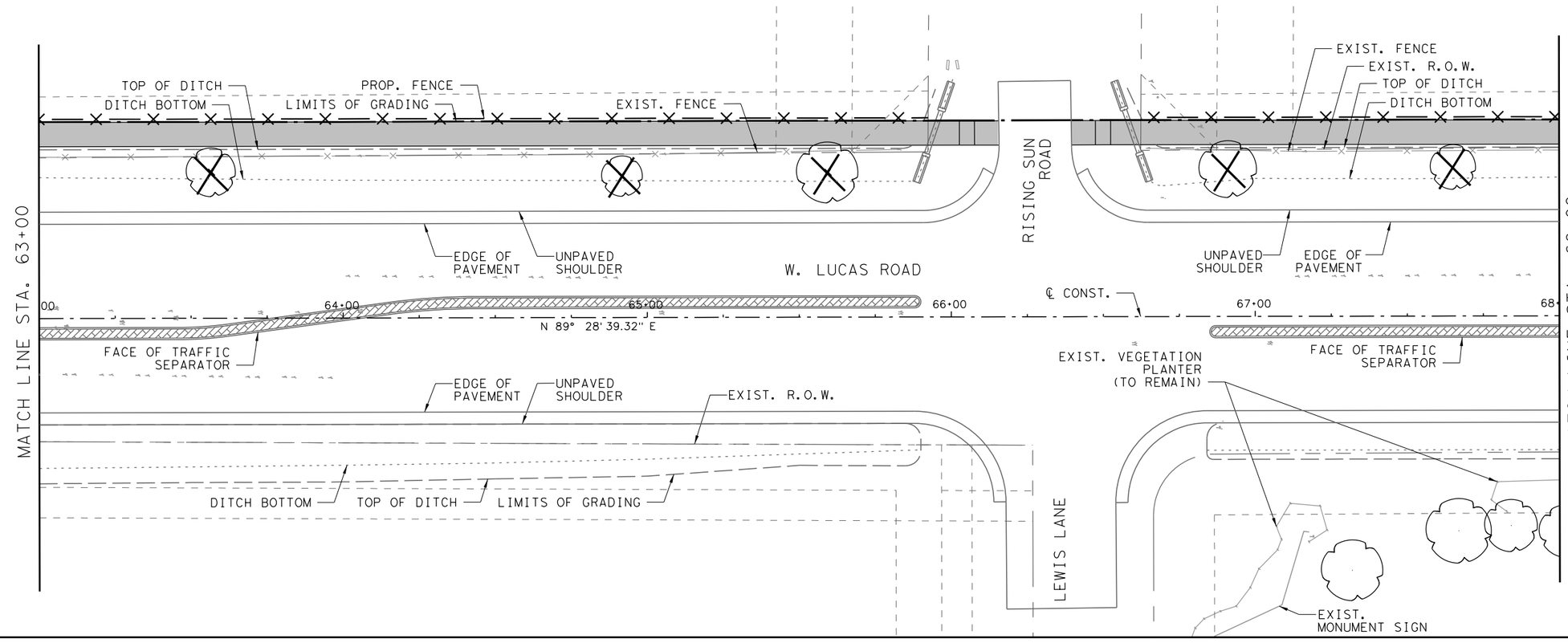
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		267
COLLIN		

DATE: 4/6/2026 1:57:53 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P05.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

LEGEND:

- REMOVE
- PROTECT
- REMAIN

NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 6 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

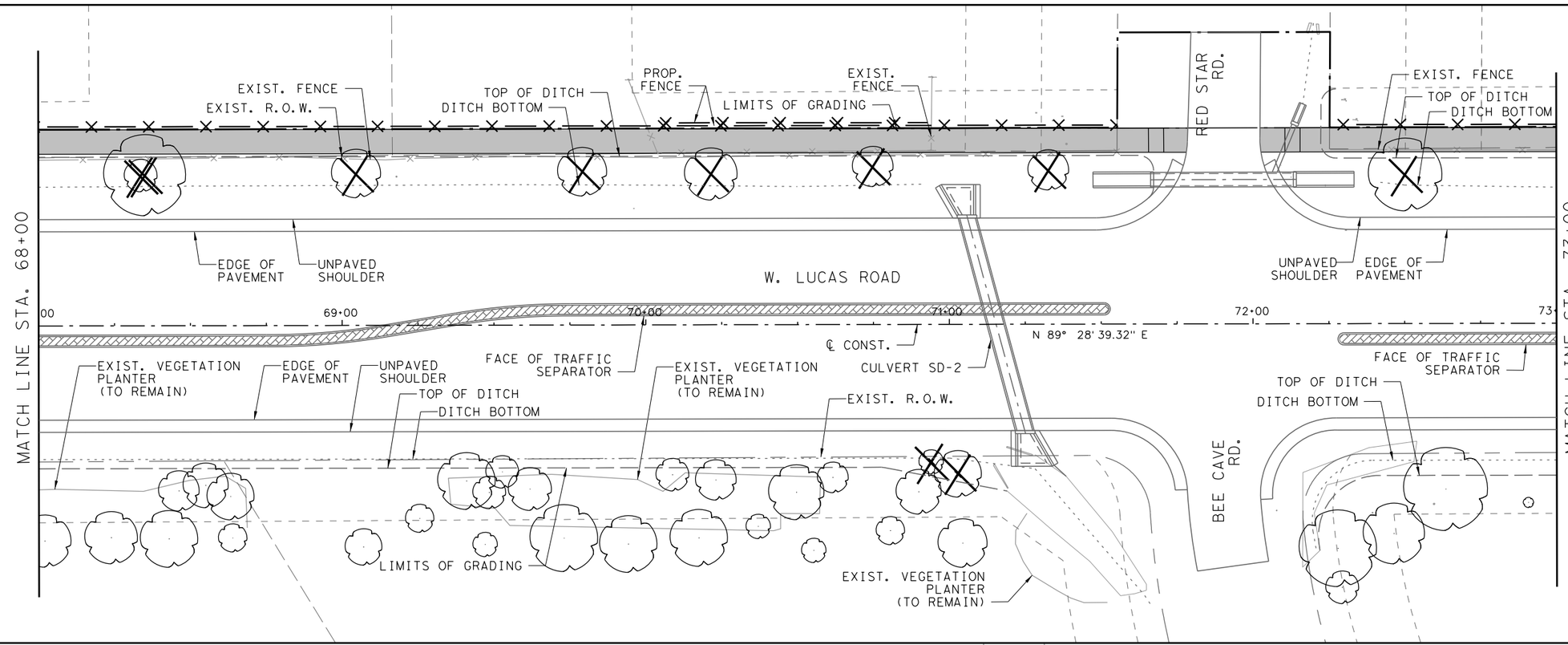
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		268
COLLIN		

DATE: 4/6/2026 1:57:55 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P06.dgn

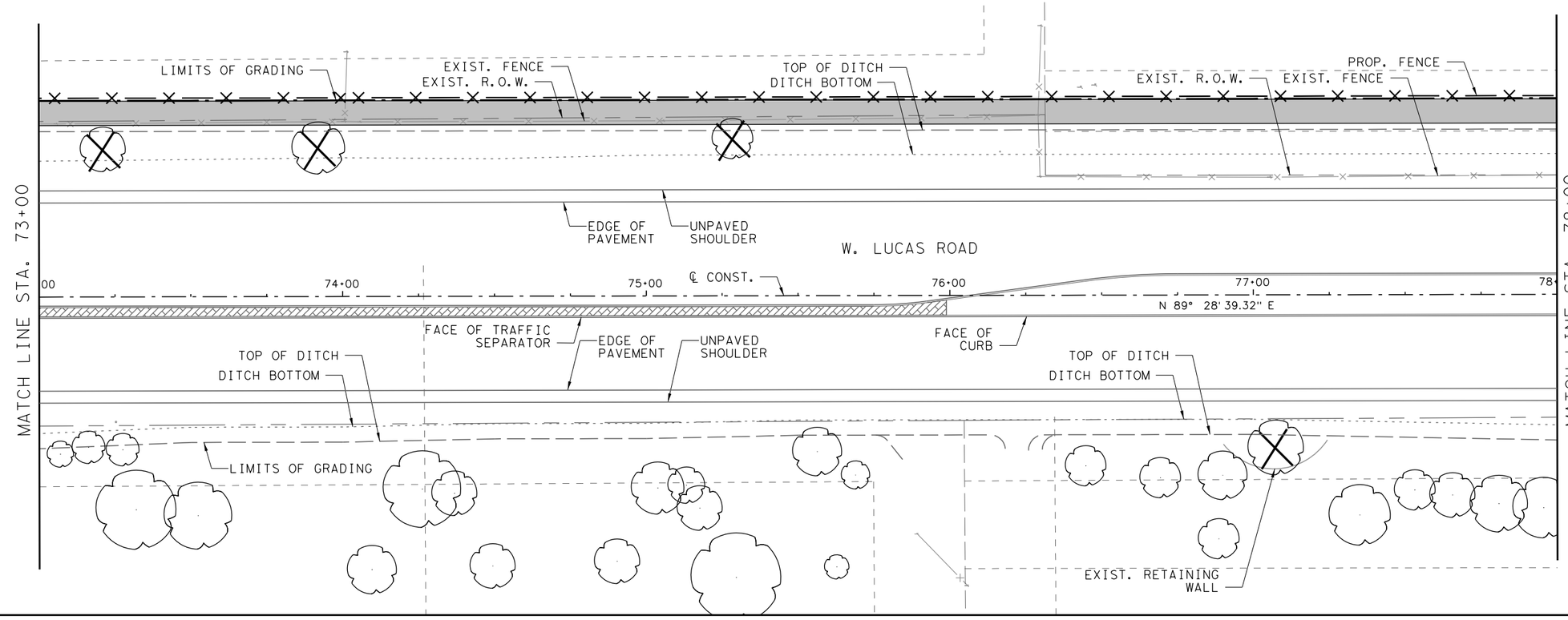
Texas 811 Know what's below. Call before you dig.



NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS



W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 7 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

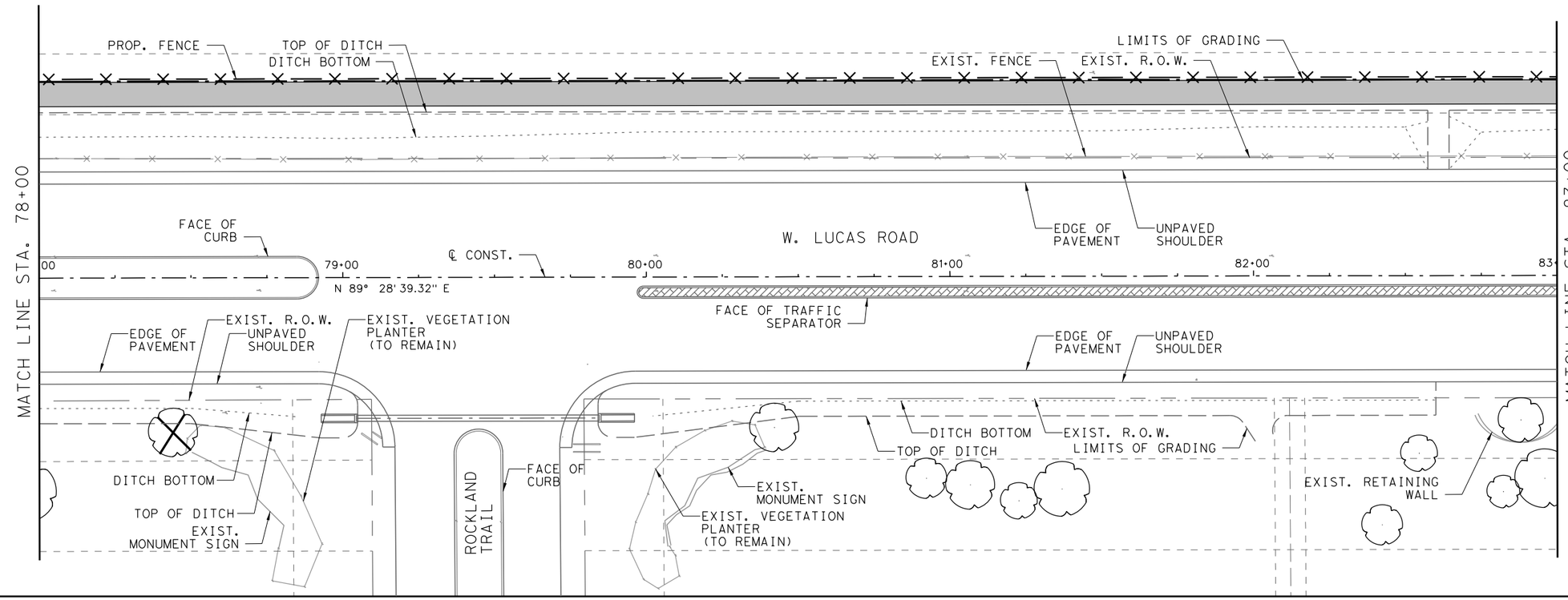
bc engineering
a PARSONS Company

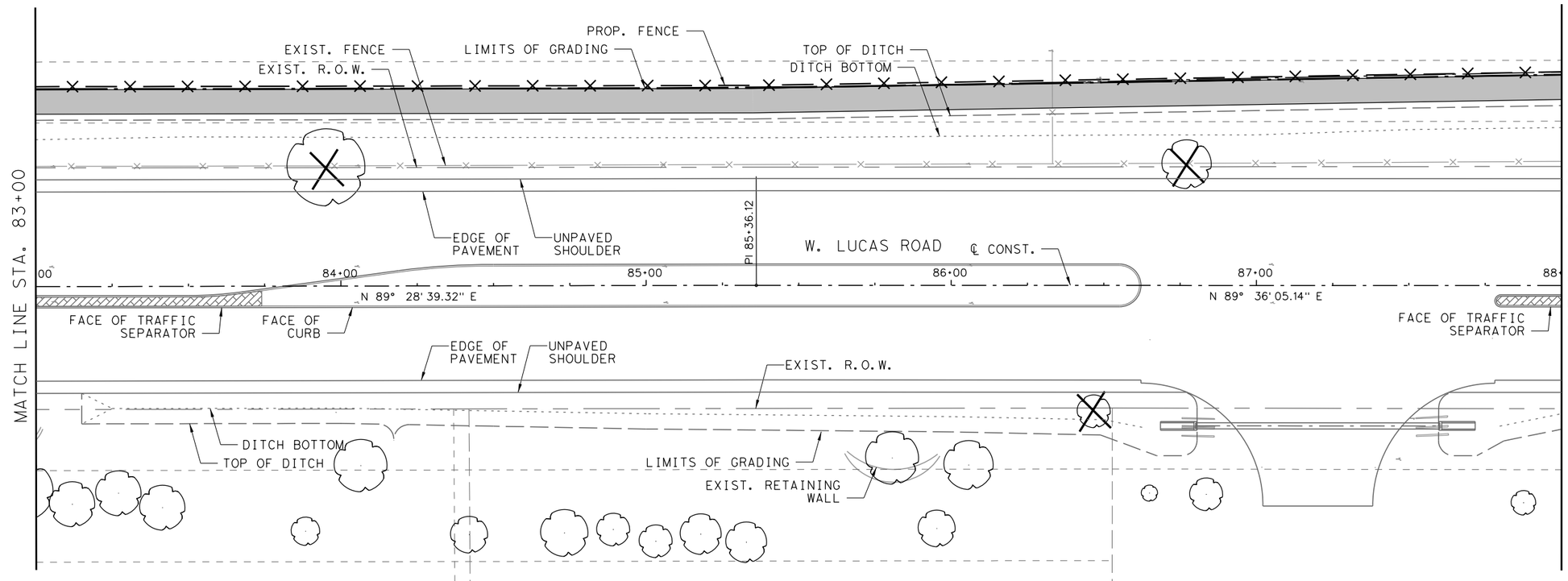
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		269
COLLIN		

DATE: 4/6/2026 1:57:56 PM
FILE: I:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P07.dgn

Texas 811 Know what's below. Call before you dig.





0 10 40
Feet

N

LEGEND:

- REMOVE
- PROTECT
- REMAIN

NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 8 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

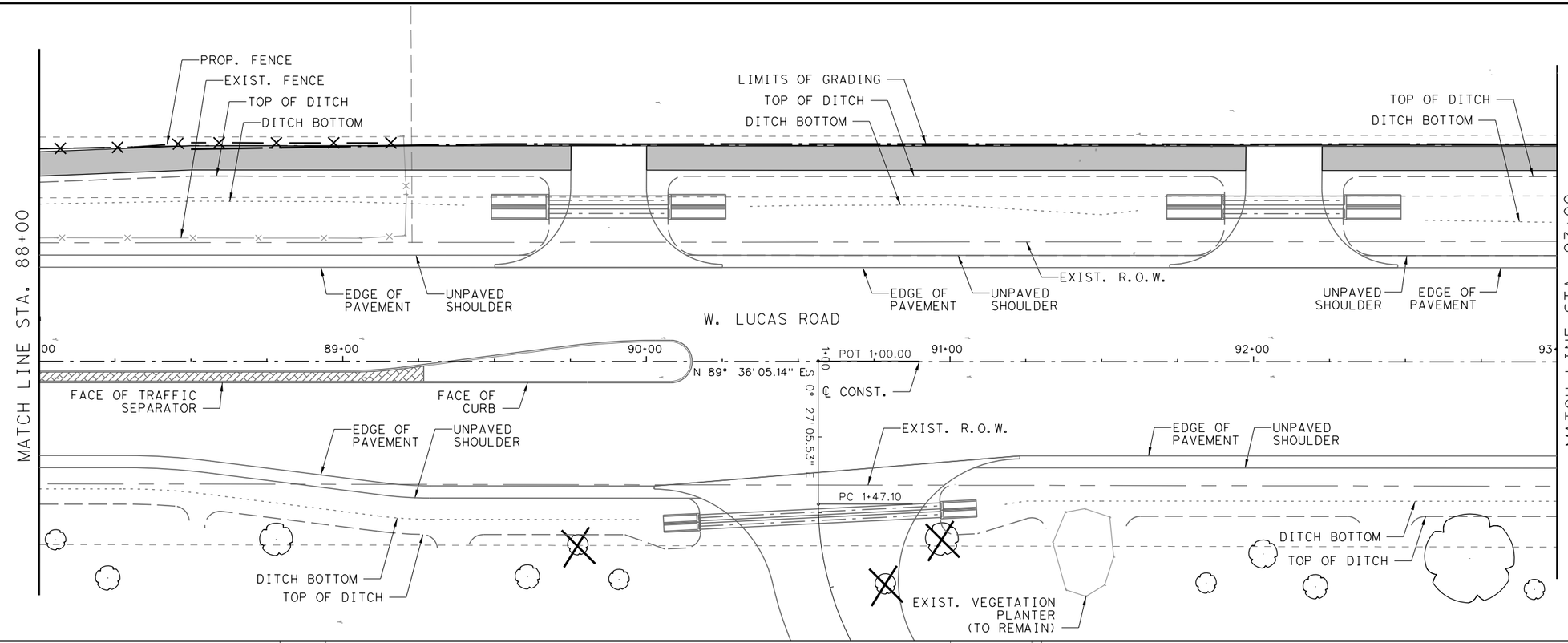
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		270
COLLIN		

DATE: 4/6/2026 1:58:06 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P08.dgn

Texas 811 Know what's below. Call before you dig.



0 10 40
Feet

N

LEGEND:

- REMOVE
- PROTECT
- REMAIN

NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 9 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

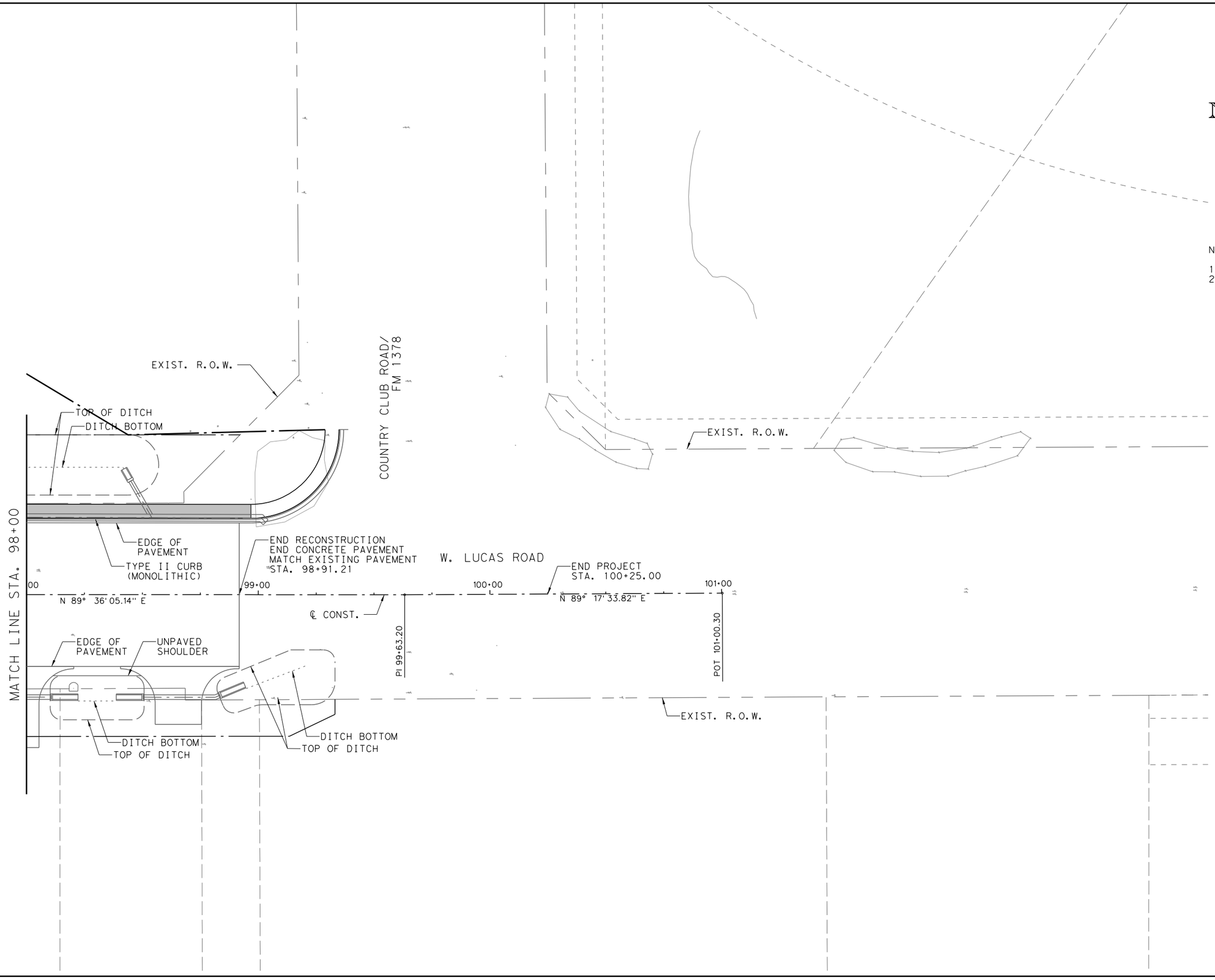
bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		271
COLLIN		

DATE: 4/6/2026 1:58:08 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P09.dgn

Texas 811 Know what's below. Call before you dig.



NOTE:

1. RIPRAP NOT SHOWN FOR CLARITY.
2. UTILITIES NOT SHOWN FOR CLARITY.

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
REFER TO BID SET FOR
OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET 10 OF 10

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		272
COLLIN		

Texas811 Know what's below. Call before you dig.

DATE: 4/6/2026 1:58:09 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P10.dgn

ID	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	MULTI TRUNK	CONDITION	NORTHING	EASTING	CL STA.	OFFSET	DISPOSITION
1	Sugar Hackberry	*Celtis laevigata*	10		Good	7083084.2310	2545224.2300	20+11.80	-42.20	REMOVE
2	Sugar Hackberry	*Celtis laevigata*	9		Good	7083086.5120	2545222.8310	20+10.42	-44.49	REMOVE
3	Bald Cypress	*Taxodium distichum*	17		Good	7083140.5708	2552738.3253	95+26.08	-48.75	REMOVE
4	Sugar Hackberry	*Celtis laevigata*	9		Good	7083087.7850	2545223.8750	20+11.47	-45.75	REMOVE
5	Burr Oak	*Quercus macrocarpa*	16.5		Good	7083000.5610	2550186.3050	69+72.99	70.12	REMAIN
6	Eastern Red Cedar	*Juniperus virginiana*	12	X	Good	7083125.6420	2551889.5270	86+77.20	-39.73	REMOVE
7	Bald Cypress	*Taxodium distichum*	16.5		Good	7083143.3910	2552644.2430	94+32.02	-52.23	REMOVE
9	Crepe Myrtle	*Lagerstroemia indica*	10.5	X	Good	7083016.6190	2550174.9620	69+61.79	53.96	REMAIN
10	Cedar Elm	*Ulmus crassifolia*	12		Good	7082999.8830	2550317.6300	71+04.30	72.00	REMAIN
11	Live Oak	*Quercus virginiana*	7		Good	7083006.7140	2550138.7150	69+25.46	63.53	REMAIN
12	Burr Oak	*Quercus macrocarpa*	14		Good	7083000.9600	2550230.7240	70+17.41	70.13	REMAIN
13	Crepe Myrtle	*Lagerstroemia indica*	8	X	Good	7083022.1960	2550165.8080	69+52.69	48.30	REMAIN
14	Burr Oak	*Quercus macrocarpa*	14		Good	7082998.7540	2550207.5350	69+94.20	72.12	REMAIN
15	Crepe Myrtle	*Lagerstroemia indica*	8	X	Good	7083015.4070	2550161.5620	69+48.38	55.05	REMAIN
16	Crepe Myrtle	*Lagerstroemia indica*	6	X	Good	7083026.5270	2550307.0500	70+93.97	45.26	REMOVE
17	Crepe Myrtle	*Lagerstroemia indica*	11	X	Good	7083016.6700	2550303.0370	70+89.86	55.08	REMAIN
18	Live Oak	*Quercus virginiana*	10		Good	7083020.0700	2550236.1810	70+23.04	51.07	REMAIN
19	Live Oak	*Quercus virginiana*	6		Good	7083004.8780	2550250.2370	70+36.96	66.39	REMAIN
20	Eastern Red Cedar	*Juniperus virginiana*	19	X	Good	7083122.5410	2551607.5690	83+95.31	-38.90	REMOVE
21	Live Oak	*Quercus virginiana*	8		Good	7083021.7000	2550221.8580	70+08.73	49.31	REMAIN
22	Live Oak	*Quercus virginiana*	13.5		Very Poor	7083016.2190	2550262.7480	70+49.57	55.16	REMAIN
23	Live Oak	*Quercus virginiana*	7		Good	7083003.8070	2550293.7710	70+80.48	67.86	REMAIN
24	Crepe Myrtle	*Lagerstroemia indica*	14	X	Good	7083019.1150	2550154.0590	69+40.91	51.27	REMAIN
25	Live Oak	*Quercus virginiana*	6		Good	7082998.2610	2550160.3090	69+46.97	72.18	REMAIN
26	Live Oak	*Quercus virginiana*	6		Good	7082997.1040	2550268.5860	70+55.24	74.33	REMAIN
27	Live Oak	*Quercus virginiana*	7.5		Good	7083021.1970	2550274.7080	70+61.58	50.29	REMAIN
28	Eastern Red Cedar	*Juniperus virginiana*	8		Good	7082986.2460	2550442.7530	72+29.30	86.77	REMAIN
29	Live Oak	*Quercus virginiana*	2.5		Good	7083014.6230	2550503.8510	72+90.65	58.95	REMAIN
30	Eastern Red Cedar	*Juniperus virginiana*	10		Good	7082962.0820	2544469.8950	12+56.50	73.83	REMAIN
31	Unknown Cedar	*Juniperus sp.*	19	X	Good	7083011.2880	2550639.3710	74+26.14	63.53	REMAIN
32	Crepe Myrtle	*Lagerstroemia indica*	8	X	Good	7083024.2560	2550529.3660	73+16.25	49.55	REMAIN
33	Shumard Oak	*Quercus shumardii*	8		Good	7083028.6890	2552091.1440	88+78.13	58.62	REMAIN
34	Burr Oak	*Quercus macrocarpa*	19.5		Good	7083003.7840	2550545.2310	73+31.93	70.17	REMAIN
35	Live Oak	*Quercus virginiana*	6		Good	7083015.5984	2552035.7971	88+22.66	71.35	REMAIN
36	Crepe Myrtle	*Lagerstroemia indica*	11.5	X	Good	7083022.6550	2550315.9060	71+02.79	49.21	REMOVE
37	Live Oak	*Quercus virginiana*	19	X	Good	7082999.0700	2550441.2800	72+27.94	73.94	REMAIN
38	Unknown Cedar	*Juniperus sp.*	6	X	Fair	7082986.6470	2550776.0850	75+62.62	89.41	REMAIN
39	Chinese Elm	*Ulmus parvifolia*	8		Good	7083017.5240	2551896.7090	86+83.63	68.43	REMAIN
40	Chinqapin Oak	*Quercus muehlenbergii*	6		Good	7083016.9590	2552173.9870	89+60.89	70.93	REMAIN
42	Unknown Cedar	*Juniperus sp.*	11	X	Good	7083005.7110	2550730.8290	75+17.54	69.94	REMAIN
43	Chinqapin Oak	*Quercus muehlenbergii*	4		Good	7083025.5610	2552522.8810	93+09.84	64.75	REMAIN
44	Chinese Elm	*Ulmus parvifolia*	22		Good	7082982.9530	2550743.0240	75+29.53	92.80	REMAIN
45	Shumard Oak	*Quercus shumardii*	11		Good	7082987.9480	2550703.7480	74+90.30	87.45	REMAIN
46	Unknown Cedar	*Juniperus sp.*	12	X	Good	7083024.6110	2550769.3740	75+56.25	51.39	REMAIN
47	Cedar Elm	*Ulmus crassifolia*	12		Good	7083026.5710	2551818.7910	86+05.77	58.85	REMAIN
48	Burr Oak	*Quercus macrocarpa*	16.5		Good	7083001.9960	2550565.6190	73+52.30	72.14	REMAIN
49	Live Oak	*Quercus virginiana*	5		Good	7083028.0440	2552018.4880	88+05.48	58.76	REMAIN
50	Chinqapin Oak	*Quercus muehlenbergii*	5		Good	7083016.3180	2552204.1550	89+91.06	71.78	REMAIN
51	Live Oak	*Quercus virginiana*	5		Good	7083015.5110	2552291.9090	90+78.80	73.20	REMOVE
52	Unknown Cedar	*Juniperus sp.*	11	X	Good	7083009.9810	2550649.9910	74+36.74	64.93	REMAIN
53	Unknown Cedar	*Juniperus sp.*	7	X	Good	7083016.9800	2550782.0700	75+68.88	59.13	REMAIN
54	Unknown Cedar	*Juniperus sp.*	13	X	Good	7083012.2070	2550716.9410	75+03.71	63.31	REMAIN
55	Shumard Oak	*Quercus shumardii*	12		Good	7082984.6050	2550623.0280	74+09.55	90.06	REMAIN
56	Chinqapin Oak	*Quercus muehlenbergii*	5		Good	7083015.2340	2552505.7050	92+92.59	74.96	REMAIN
57	Cedar Elm	*Ulmus crassifolia*	13		Good	7083028.6740	2551793.7310	85+80.73	56.57	REMAIN
58	Eastern Red Cedar	*Pinus echinata*	13		Good	7082957.0380	2544584.9150	13+71.47	79.81	REMAIN
59	Chinese Elm	*Ulmus parvifolia*	8		Good	7083030.4330	2552310.4450	90+97.44	58.40	REMOVE
60	Unknown Cedar	*Juniperus sp.*	9	X	Good	7083013.2190	2550726.3570	75+13.14	62.39	REMAIN
61	Shumard Oak	*Quercus shumardii*	11		Good	7082986.1060	2550662.7660	74+49.30	88.92	REMAIN
62	Live Oak	*Quercus virginiana*	6		Good	7083015.5990	2552433.5660	92+20.46	74.09	REMAIN
63	Live Oak	*Quercus virginiana*	7		Good	7083026.2540	2552416.2410	92+03.21	63.32	REMAIN
64	Sugar Hackberry	*Celtis laevigata*	8		Good	7083044.4710	2551859.6540	86+46.76	41.23	REMOVE
65	Chinqapin Oak	*Quercus muehlenbergii*	5		Good	7083027.6360	2552190.5310	89+77.51	60.37	REMOVE
66	Live Oak	*Quercus virginiana*	15	X	Good	7083004.0650	2550459.6810	72+46.39	69.11	REMAIN
67	Short Leaf Pine	*Pinus echinata*	15		Very Poor	7082973.8400	2544557.3600	13+44.05	62.78	REMAIN
68	Live Oak	*Quercus virginiana*	20.5	X	Good	7083018.8310	2550476.6620	72+63.50	54.50	REMAIN
69	Crepe Myrtle	*Lagerstroemia indica*	6.5	X	Good	7083021.9380	2550520.1000	73+06.97	51.79	REMAIN
70	Crepe Myrtle	*Lagerstroemia indica*	8	X	Good	7083023.5440	2550540.6250	73+27.51	50.37	REMAIN

ID	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	MULTI TRUNK	CONDITION	NORTHING	EASTING	CL STA.	OFFSET	DISPOSITION
71	Live Oak	*Quercus virginiana*	5		Good	7083037.8130	2552786.0910	95+73.13	54.33	REMAIN
72	Live Oak	*Quercus virginiana*	4		Good	7083017.7840	2551878.0740	86+64.99	68.05	REMAIN
73	Live Oak	*Quercus virginiana*	5		Good	7083016.5340	2552397.5640	91+84.46	72.91	REMAIN
74	Live Oak	*Quercus virginiana*	6		Good	7083027.5490	2552767.3120	95+54.28	64.47	REMAIN
75	Live Oak	*Quercus virginiana*	6		Good	7083015.5120	2552000.6800	87+87.58	71.17	REMAIN
76	Eastern Red Cedar	*Juniperus virginiana*	16	X	Good	7082977.8750	2544340.3770	11+27.11	56.98	REMAIN
77	Cedar Elm	*Ulmus crassifolia*	13		Good	7082955.6460	2544720.8860	15+07.43	82.30	REMAIN
78	Possumhaw	*Ilex decidua*	7.5		Good	7082951.2120	2544783.6280	15+70.13	87.24	REMAIN
79	Possumhaw	*Ilex decidua*	10	X	Good	7082951.2790	2544818.8310	16+05.33	87.46	REMAIN
80	Possumhaw	*Ilex decidua*	7	X	Good	7082941.7710	2544400.6440	11+87.08	93.58	REMAIN
81	Eastern Red Cedar	*Pinus echinata*	15	X	Good	7082967.0550	2544622.1250	14+08.76	70.09	REMAIN
82	Eastern Red Cedar	*Pinus echinata*	14		Good	7082965.8260	2544688.6700	14+75.29	71.86	REMAIN
83	Eastern Red Cedar	*Juniperus virginiana*	15	X	Good	7082964.8900	2544995.4640	17+82.07	75.28	REMAIN
84	Eastern Red Cedar	*Juniperus virginiana*	10	X	Good	7082946.6550	2544343.4810	11+29.60	88.23	REMAIN
85	Eastern Red Cedar	*Juniperus virginiana*	23	X	Good	7082973.2000	2544885.6920	16+72.37	66.08	REMAIN
86	Cedar Elm	*Ulmus crassifolia*	12	X	Good	7082980.2450	2545022.0010	18+08.73	60.15	REMAIN
87	Eastern Red Cedar	*Juniperus virginiana*	13		Good	7082975.4650	2544871.2590	16+57.96	63.70	REMAIN
88	Possumhaw	*Ilex decidua*	9.5		Good	7082980.2280	2545014.9180	18+01.65	60.11	REMAIN
89	Cedar Elm	*Ulmus crassifolia*	12	X	Good	7082971.8250	2544930.2560	17+16.92	67.82	REMAIN
90	Cedar Elm	*Juniperus virginiana*	12		Good	7082979.3290	2541919.3300	17+06.06	60.23	REMAIN
91	Eastern Red Cedar	*Pinus echinata*	13	X	Good	7082969.8410	2544588.4390	13+75.10	67.03	REMAIN
92	Possumhaw	*Ilex decidua*	6.5		Good	7082960.3820	2544513.5040	13+00.09	75.88	REMAIN
93	Eastern Red Cedar	*Juniperus virginiana*	13	X	Good	7082934.2960	2544401.7160	11+88.09	101.06	REMAIN
94	Eastern Red Cedar	*Pinus echinata*	17		Good	7082969.8300	2544644.1870	14+30.85	67.49	REMAIN
95	Eastern Red Cedar	*Pinus echinata*	14	X	Good	7082967.2520	2544605.7380	13+92.38	69.76	REMAIN
96	Cedar Elm	*Ulmus crassifolia*	13		Good	7082971.2840	2544972.9520	17+59.61	68.71	REMAIN
98	Shortleaf Pine	*Pinus echinata*	23.5		Good	7082952.8093	2544489.8896	12+76.41	83.26	REMAIN
99	Eastern Red Cedar	*Juniperus virginiana*	14	X	Good	7082953.5350	2544748.6480	15+35.17	84.64	REMAIN
100	Eastern Red Cedar	*Juniperus virginiana*	14		Good	7082959.7810	2544529.2780	13+15.86	76.61	REMAIN
101	Eastern Red Cedar	*Juniperus virginiana*	15		Good	7082982.7830	2545044.5160	18+31.27	57.79	REMAIN
102	Eastern Red Cedar	*Juniperus virginiana*	11	X	Good	7082954.4455	2544457.4408	12+43.98	81.36	REMAIN
103	Shortleaf Pine	*Pinus echinata*	16.5		Good	7082966.5000	2544368.7640	11+55.40	68.59	REMAIN
104	Possumhaw	*Ilex decidua*	8	X	Good	7082982.7970	2544999.8140	17+86.57	57.41	REMAIN
105	Cedar Elm	*Ulmus crassifolia*	12	X	Good	7082942.9860	2544325.8480	11+12.30	91.75	REMAIN
106	Eastern Red Cedar	*Juniperus virginiana*	14.5		Good	7082948.8600	2544359.2320	11+45.73	86.15	REMAIN
107	Cedar Elm	*Ulmus crassifolia*	12	X	Good	7082961.2770	2544339.7560	11+26.36	73.58	REMAIN
108	Eastern Red Cedar	*Juniperus virginiana*	16		Good	7082938.3790	2544424.5490	12+10.96	97.16	REMAIN
109	Shortleaf Pine	*Pinus echinata*	21	X	Good	7082969.4570	2544438.5050	12+25.17	66.20	REMAIN
110	Eastern Red Cedar	*Juniperus virginiana*	12	X	Good	7082939.3220	2544441.3160	12+27.73	96.36	REMAIN
111	Eastern Red Cedar	*Juniperus virginiana*	11		Good	7082963.1140	2544462.2560	12+48.87	72.73	REMAIN
112	Cedar Elm	*Ulmus crassifolia*	11	X	Good	7082953.5400	2544329.6550	11+16.19	81.23	REMAIN
113	Eastern Red Cedar	*Juniperus virginiana*	17		Good	7082942.2460	2544375.4080	11+61.85	92.90	REMAIN
114	Eastern Red Cedar	*Juniperus virginiana*	14.5	X	Good	7082957.5630	2544478.3580	12+64.92	78.42	REMAIN
115	Possumhaw	*Ilex decidua*	6.5	X	Good	7082967.3520	2544536.0840	13+22.73	69.10	REMAIN
116	Possumhaw	*Ilex decidua*	9	X	Good	7082954.4080	2544547.8860	13+34.42	82.13	REMAIN
117	Eastern Red Cedar	*Juniperus virginiana*	13	X	Good	7082957.1590	2544558.5800	13+45.14	79.47	REMAIN
118	Eastern Red Cedar	*Pinus echinata*	18		Good	7082965.0260	2544660.1540	14+46.77	72.43	REMAIN
119	Eastern Red Cedar	*Juniperus virginiana*	13		Good	7082961.5600	2544763.9210	15+50.51	76.74	REMAIN
120	Possumhaw	*Ilex decidua*	7.5		Good	7082963.1400	2544564.4990	13+51.11	73.54	REMAIN
121	Shortleaf Pine	*Pinus echinata*	17	X	Good	7082962.0330	2544450.8560	12+37.46	73.72	REMAIN
122	Eastern Red Cedar	*Pinus echinata*	19.5		Good	7082957.5440	2544678.1360	14+64.69	80.06	REMAIN
123	Possumhaw	*Ilex decidua*	6	X	Good	7082969.8720	2544521.0860	13+07.75	66.45	REMAIN
124	Eastern Red Cedar	*Juniperus virginiana*	12	X	Good	7082961.6530	2544487.5330	12+74.13	74.40	REMAIN
125	Possumhaw	*Ilex decidua*	8.5		Good	7082954.7170	2544930.2030	17+16.73	84.93	REMAIN
127	Eastern Red Cedar	*Pinus echinata*	14	X	Good	7082967.0760	2544859.0490	16+45.68	71.99	REMAIN
128	Cedar Elm	*Ulmus crassifolia*	13		Good	7082963.0990	2544709.9450	14+96.55	74.76	REMAIN
129	Possumhaw	*Ilex decidua*	6.5	X	Good	7082960.9140	2544833.3790	16+19.96	77.95	REMAIN
131	Eastern Red Cedar	*Juniperus virginiana*	11		Good	7082944.6650	2544867.6210	16+54.07	94.47	REMAIN
132	Possumhaw	*Ilex decidua*	6.5	X	Good	7082944.6650	2544867.6210	15+90.55	78.00	REMAIN
133	Possumhaw	*Ilex decidua*	6	X	Good	7082960.6190	2544803.9730	24+33.45	66.15	REMAIN
134	Cedar Elm	*Ulmus crassifolia*	13		Good	7082974.2920	2545165.3680	19+52.05	67.26	REMAIN
135	Eastern Red Cedar	*Juniperus virginiana*	16	X	Good	7082974.2920	2545165.3680	20+94.53	68.55	REMAIN
136	Cedar Elm	*Ulmus crassifolia*	12		Good	7082991.7770	2546210.3800	29+97.16	58.26	REMAIN
137	Eastern Red Cedar	*Juniperus virginiana*	10	X	Good	7082975.8040	2545187.1000	19+73.79	65.93	REMAIN
138	Possom Haw	*Ilex decidua*	10.5	X	Good	7082986.1630	2545119.5630	19+06.34	55.02	REMAIN
139	Cedar Elm	*Ulmus crassifolia*	15		Good	7082986.9220	2545358.3840	21+45.16	56.20	REMAIN
140	Cedar Elm	*Ulmus crassifolia*	12		Good	7082993.8980	2545549.1930	23+36.02	50.77	REMAIN
141	Cedar Elm	*Ulmus crassifolia*	12		Good	7082987.1850	2545508.5470	22+95.32	57.15	REMAIN

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION & REPLACEMENT PLAN

SHEET 1 OF 3

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	273
	COUNTY	
	COLLIN	

Texas811 Know what's below. Call before you dig.
DATE: 4/6/2026 1:58:09 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P11.dgn

ID	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	MULTI TRUNK	CONDITION	NORTHING	EASTING	CL STA.	OFFSET	DISPOSITION
142	Cedar Elm	*Ulmus crassifolia*	11		Good	7082986.6620	2546016.4480	28+03.20	61.80	REMAIN
144	Eastern Red Cedar	*Juniperus virginiana*	12		Good	7082994.1280	2546674.2930	34+61.08	59.67	PROTECT
145	Eastern Red Cedar	*Juniperus virginiana*	16.5	X	Good	7082990.9140	2545945.2040	27+31.99	56.97	REMAIN
146	Cedar Elm	*Ulmus crassifolia*	10		Good	7082982.2230	2545616.4170	24+03.14	62.99	REMAIN
147	Eastern Red Cedar	*Juniperus virginiana*	17	X	Good	7082989.6190	2545864.4920	26+51.27	57.61	REMAIN
148	Eastern Red Cedar	*Juniperus virginiana*	13	X	Good	7082985.4620	2546512.8210	32+99.54	67.03	REMAIN
149	Cedar Elm	*Ulmus crassifolia*	8		Good	7082985.5050	2545721.6520	25+08.40	60.56	REMAIN
150	Eastern Red Cedar	*Juniperus virginiana*	10	X	Good	7082988.5280	2545162.1960	19+48.99	53.00	REMAIN
151	Possumhaw	*Ilex decidua*	6.5	X	Good	7082989.4910	2545640.0630	24+26.85	55.92	REMAIN
152	Possumhaw	*Ilex decidua*	6.5	X	Good	7082984.4310	2545918.4680	27+05.20	63.23	REMAIN
153	Eastern Red Cedar	*Juniperus virginiana*	24	X	Good	7082995.9740	2546460.2400	32+47.05	56.09	REMAIN
154	Shumard Oak	*Quercus shumardii*	12		Good	7082991.6840	2546508.5470	32+95.32	60.77	REMAIN
155	Eastern Red Cedar	*Juniperus virginiana*	21	X	Good	7082975.9440	2545417.0230	22+03.71	67.65	REMAIN
156	Eastern Red Cedar	*Juniperus virginiana*	18.5	X	Good	7082989.3540	2545488.5650	22+75.35	54.82	REMAIN
157	Cedar Elm	*Ulmus crassifolia*	14		Good	7082979.9000	2545229.3150	20+16.04	62.17	REMAIN
158	Eastern Red Cedar	*Juniperus virginiana*	22	X	Good	7082983.9780	2545069.2440	18+56.00	56.80	REMAIN
159	Possumhaw	*Ilex decidua*	9.5	X	Good	7082978.2810	2545443.6050	22+30.31	65.53	REMAIN
160	Eastern Red Cedar	*Juniperus virginiana*	15		Good	7082991.5150	2546223.6900	30+10.47	58.63	REMAIN
161	Eastern Red Cedar	*Juniperus virginiana*	17	X	Good	7082979.7290	2545529.8120	23+16.52	64.78	REMAIN
162	Eastern Red Cedar	*Juniperus virginiana*	15	X	Good	7082979.9540	2545629.1600	24+15.87	65.36	REMAIN
163	Eastern Red Cedar	*Juniperus virginiana*	16	X	Good	7082976.0650	2545905.0980	26+91.77	71.49	REMAIN
164	Eastern Red Cedar	*Juniperus virginiana*	28	X	Good	7082989.4650	2546180.1710	29+66.94	60.32	REMAIN
165	Eastern Red Cedar	*Juniperus virginiana*	19	X	Good	7082992.7960	2546058.6990	28+45.50	56.01	REMAIN
166	Eastern Red Cedar	*Juniperus virginiana*	11.5	X	Good	7082992.1240	2546049.0740	28+35.87	56.60	REMAIN
167	Eastern Red Cedar	*Juniperus virginiana*	15	X	Good	7082990.6440	2545934.8500	27+21.63	57.15	REMAIN
168	Shumard Oak	*Quercus shumardii*	12		Good	7082976.1540	2546512.7160	32+99.36	76.33	REMAIN
169	Possumhaw	*Ilex decidua*	7.5	X	Good	7082989.1510	2545889.8960	26+76.67	58.28	REMAIN
170	Possumhaw	*Ilex decidua*	9.5	X	Good	7082986.8010	2546105.2810	28+92.03	62.38	REMAIN
171	Possumhaw	*Ilex decidua*	8.5	X	Good	7082976.0630	2545108.3590	18+95.05	65.03	REMAIN
172	Possumhaw	*Ilex decidua*	8	X	Good	7082985.5220	2545181.5560	19+68.32	56.16	REMAIN
173	Eastern Red Cedar	*Juniperus virginiana*	10		Good	7082980.7310	2545893.8160	26+80.52	66.73	REMAIN
174	Shumard Oak	*Quercus shumardii*	13		Good	7082992.6290	2546496.9150	32+83.70	59.73	REMAIN
175	Eastern Red Cedar	*Juniperus virginiana*	15		Good	7082987.9550	2546076.4030	28+63.16	60.99	REMAIN
176	Possumhaw	*Ilex decidua*	8	X	Good	7082981.7350	2545841.3530	26+28.07	65.30	REMAIN
177	Eastern Red Cedar	*Juniperus virginiana*	21	X	Good	7082986.0720	2545293.5080	20+80.28	56.52	REMAIN
178	Cedar Elm	*Ulmus crassifolia*	11		Good	7082996.9550	2546159.3900	29+46.22	52.67	REMAIN
179	Possumhaw	*Ilex decidua*	7	X	Good	7082982.8290	2545576.4390	23+63.17	62.06	REMAIN
180	Cedar Elm	*Ulmus crassifolia*	10		Good	7082993.0030	2546346.7610	31+33.55	58.14	REMAIN
181	Eastern Red Cedar	*Juniperus virginiana*	11	X	Good	7082987.8110	2545598.4600	23+85.23	57.26	REMAIN
182	Eastern Red Cedar	*Juniperus virginiana*	12		Good	7082988.6520	2545911.1610	26+97.93	58.95	REMAIN
183	Cedar Elm	*Ulmus crassifolia*	10		Good	7082989.3370	2545903.2950	26+90.07	58.21	REMAIN
184	Possumhaw	*Ilex decidua*	13	X	Good	7082984.9450	2545259.4460	20+46.21	57.37	REMAIN
186	Cedar Elm	*Ulmus crassifolia*	10		Good	7082995.4030	2545930.8250	27+17.65	52.36	REMAIN
187	Eastern Red Cedar	*Juniperus virginiana*	13.5	X	Good	7082991.3460	2545702.7280	24+89.53	54.57	REMAIN
188	Possumhaw	*Ilex decidua*	9	X	Good	7082992.3400	2546359.7850	31+46.57	58.91	REMAIN
189	Cedar Elm	*Ulmus crassifolia*	13		Good	7082989.2900	2546416.6000	32+03.36	62.42	REMAIN
190	Possumhaw	*Ilex decidua*	12	X	Good	7082984.7940	2545102.0170	18+88.78	56.25	REMAIN
191	Possumhaw	*Ilex decidua*	6	X	Good	7082981.0570	2545743.7160	25+30.43	65.19	REMAIN
192	Cedar Elm	*Ulmus crassifolia*	11		Good	7082979.8550	2545129.9730	19+16.70	61.41	REMAIN
193	Eastern Red Cedar	*Juniperus virginiana*	17.5	X	Good	7082990.0880	2545499.2020	22+86.00	54.18	REMAIN
194	Eastern Red Cedar	*Juniperus virginiana*	20	X	Good	7082979.8930	2545089.1110	18+75.84	61.04	REMAIN
195	Eastern Red Cedar	*Juniperus virginiana*	18	X	Good	7082979.3350	2545438.5110	22+25.22	64.44	REMAIN
196	Cedar Elm	*Ulmus crassifolia*	12		Good	7082973.2130	2545393.9120	21+80.57	70.20	REMAIN
197	Possumhaw	*Ilex decidua*	8.5	X	Good	7082985.5890	2545869.9730	26+56.72	61.68	REMAIN
198	Eastern Red Cedar	*Juniperus virginiana*	15		Good	7082993.5540	2546151.1160	29+37.92	56.00	REMAIN
199	Eastern Red Cedar	*Juniperus virginiana*	15		Good	7082986.4820	2546447.7580	32+34.49	65.48	REMAIN
200	Cedar Elm	*Ulmus crassifolia*	10		Good	7082992.8510	2546380.8740	31+67.66	58.57	REMAIN
201	Eastern Red Cedar	*Juniperus virginiana*	17	X	Good	7082974.7680	2545200.9360	19+87.62	67.07	REMAIN
202	Cedar Elm	*Ulmus crassifolia*	11		Good	7082990.2500	2546131.6930	29+18.47	59.15	REMAIN
203	Eastern Red Cedar	*Juniperus virginiana*	10		Good	7082987.3700	2545220.9680	20+07.75	54.64	REMAIN
204	Eastern Red Cedar	*Juniperus virginiana*	25	X	Good	7082994.5650	2545410.1530	21+96.99	48.98	REMAIN
205	Eastern Red Cedar	*Juniperus virginiana*	14		Good	7082995.6580	2546476.0160	32+62.82	56.53	REMAIN
206	Eastern Red Cedar	*Juniperus virginiana*	15		Good	7082984.8100	2546142.4390	29+29.17	64.67	REMAIN
207	Cedar Elm	*Ulmus crassifolia*	14		Good	7082983.1520	2545060.8450	18+47.60	57.55	REMAIN
208	Possumhaw	*Ilex decidua*	8.5	X	Good	7082986.2560	2545882.8500	26+69.60	61.12	REMAIN
209	Eastern Red Cedar	*Juniperus virginiana*	19	X	Good	7082973.6610	2545079.9730	18+66.65	67.20	REMAIN
210	Possumhaw	*Ilex decidua*	7	X	Good	7082994.8050	2546364.7470	31+51.55	56.48	REMAIN
211	Eastern Red Cedar	*Juniperus virginiana*	25	X	Good	7082984.7400	2545690.5800	24+77.32	61.08	REMAIN

ID	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	MULTI TRUNK	CONDITION	NORTHING	EASTING	CL STA.	OFFSET	DISPOSITION
212	Eastern Red Cedar	*Juniperus virginiana*	15		Good	7082987.5900	2546318.0880	31+04.84	63.32	REMAIN
213	Eastern Red Cedar	*Juniperus virginiana*	12		Good	7082995.0830	2546334.5370	31+21.34	55.96	REMAIN
214	Eastern Red Cedar	*Juniperus virginiana*	16	X	Good	7082985.8670	2545536.1260	23+22.89	58.70	REMAIN
215	Cedar Elm	*Ulmus crassifolia*	11		Good	7082984.5230	2545193.2360	19+80.00	57.26	REMAIN
216	Possumhaw	*Ilex decidua*	7	X	Good	7082987.2810	2546033.4510	28+20.21	61.32	REMAIN
217	Eastern Red Cedar	*Juniperus virginiana*	10		Good	7082986.5660	2545807.7730	25+94.53	60.20	REMAIN
218	Eastern Red Cedar	*Juniperus virginiana*	14		Good	7082993.5990	2545715.3720	25+02.19	52.42	REMAIN
219	Eastern Red Cedar	*Juniperus virginiana*	22.5	X	Good	7082992.7000	2546294.2550	30+81.04	58.01	REMAIN
220	Cedar Elm	*Ulmus crassifolia*	14		Good	7082984.7010	2545961.7910	27+48.53	63.32	REMAIN
221	Eastern Red Cedar	*Juniperus virginiana*	12		Good	7083003.2170	2546469.4560	32+56.33	48.92	REMAIN
222	Possumhaw	*Ilex decidua*	6	X	Good	7082974.5960	2545336.8460	21+23.52	68.35	REMAIN
223	Eastern Red Cedar	*Juniperus virginiana*	11		Good	7082989.8630	2545828.4250	26+15.21	57.07	REMAIN
224	Cedar Elm	*Ulmus crassifolia*	9		Good	7082994.1030	2545756.6680	25+43.49	52.25	REMAIN
225	Possumhaw	*Ilex decidua*	7	X	Good	7082985.3420	2546253.3980	30+40.13	65.04	REMAIN
226	Possumhaw	*Ilex decidua*	10.5	X	Good	7082984.5290	2545653.1160	24+39.86	60.98	REMAIN
227	Eastern Red Cedar	*Juniperus virginiana*	15	X	Good	7082989.8760	2545855.2370	26+42.02	57.28	REMAIN
229	Possumhaw	*Ilex decidua*	7.5	X	Good	7082992.4830	2546092.1460	28+78.94	56.59	REMAIN
230	Cedar Elm	*Ulmus crassifolia*	12		Good	7082972.8480	2545321.1220	21+07.78	69.97	REMAIN
231	Eastern Red Cedar	*Juniperus virginiana*	21	X	Good	7082971.4310	2545287.2910	20+73.94	71.11	REMAIN
232	Cedar Elm	*Ulmus crassifolia*	16		Good	7082986.5580	2545792.3970	25+79.15	60.08	REMAIN
233	Eastern Red Cedar	*Juniperus virginiana*	13	X	Good	7082969.9910	2546670.3810	34+56.97	83.77	REMAIN
234	Eastern Red Cedar	*Juniperus virginiana*	10		Good	7082976.7460	2546664.8860	34+51.53	76.98	REMAIN
235	Eastern Red Cedar	*Juniperus virginiana*	13	X	Good	7082962.4250	2546669.2970	34+55.83	91.33	REMAIN
236	Eastern Red Cedar	*Juniperus virginiana*	11.5	X	Good	7082956.3470	2546663.8940	34+50.38	97.37	REMAIN
237	Black Willow	*Salix nigra*	7		Good	7083095.9810	2547172.5910	39+60.00	-39.73	REMOVE
238	Cedar Elm	*Ulmus crassifolia*	11		Good	7082972.2610	2546845.1570	36+32.16	82.91	REMAIN
239	Black Willow	*Salix nigra*	16.5	X	Good	7083094.7550	2547183.3070	39+70.71	-38.47	REMOVE
240	Eastern Red Cedar	*Juniperus virginiana*	11		Good	7082962.2270	2546657.7600	34+44.29	91.44	REMAIN
241	Black Willow	*Salix nigra*	9		Good	7083097.7070	2547161.1420	39+48.56	-41.49	REMOVE
242	Eastern Red Cedar	*Juniperus virginiana*	13	X	Good	7082954.3660	2546631.4780	34+17.95	99.08	REMAIN
243	Cedar Elm	*Ulmus crassifolia*	11		Good	7082993.9080	2546688.5540	34+75.34	60.01	REMAIN
244	Cedar Elm	*Ulmus crassifolia*	11	X	Good	7082990.3060	2546781.4980	35+68.25	64.36	REMAIN
245	Black Willow	*Salix nigra*	11		Good	7083104.5780	2547162.2240	39+49.66	-48.36	REMOVE
246	Black Willow	*Salix nigra*	10.5	X	Good	7083095.8070	2547167.1260	39+54.54	-39.58	REMOVE
247	Eastern Red Cedar	*Juniperus virginiana*	10		Good	7082972.1240	2546629.7610	34+16.37	81.31	REMAIN
248	Black Willow	*Salix nigra*	8		Good	7083103.1450	2547164.8720	39+52.31	-46.92	REMOVE
249	Black Willow	*Salix nigra*	7		Good	7083096.7710	2547171.2170	39+58.63	-40.53	REMOVE
250	Eastern Red Cedar	*Juniperus virginiana*	9		Good	7082959.4000	2546639.7190	34+26.23	94.12	REMAIN
251	Eastern Red Cedar	*Juniperus virginiana*	12		Good	7082958.8770	2546637.8840	34+24.39	94.62	REMAIN
252	Cedar Elm	*Ulmus crassifolia*	10		Good	7082990.5240	2546717.3980	35+04.16	63.62	REMAIN
253	Shumard Oak	*Quercus shumardii*	8		Good	7082959.5830	2546648.1080	34+34.62	94.00	REMAIN
254	Eastern Red Cedar	*Juniperus virginiana*	9		Good	7082967.8460	2546653.7620	34+40.34	85.78	REMAIN
255	Black Willow	*Salix nigra*	10		Good	7083015.7130	2547925.0700	47+12.21	43.02	REMOVE
256	Sugar Hackberry	*Sapindus saponaria*	9		Good	7083111.7880	2547719.0800	45+06.54	-53.74	REMOVE
257	American elm	*Ulmus americana*	24	X	Good	7083110.1640	2547827.9000	46+15.35	-51.75	REMOVE
258	Hackberry	*Celtis laevigata*	10		Good	7083115.9410	2547843.0690	46+30.54	-57.48	REMOVE
259	Bois d' Arc	*Maclura pomifera*	38	X	Good	7083111.8270	2547727.6230	45+15.08	-53.75	REMOVE
260	American Elm	*Ulmus americana*	15		Good	7083018.9120	2547938.4740	47+25.63	39.86	REMOVE
261	American Elm	*Ulmus americana*	11		Good	7083125.0280	2547791.8420	45+79.35	-66.74	REMOVE
262	Sugar Hackberry	*Celtis laevigata*	10		Good	7083101.5490	2548861.8400	56+49.26	-39.73	REMOVE
263	Cedar Elm	*Ulmus crassifolia*	12		Good	7083113.0680	2549568.8690	63+56.61	-48.01	REMOVE
264	Cedar Elm	*Ulmus crassifolia*	10		Good	7083112.7870	2549704.1070	64+91.84	-46.50	REMOVE
265	Eastern Red Cedar	*Juniperus virginiana*	9		Good	7083007.1890	2551335.9410	81+22.64	73.98	REMAIN
266	Crepe Myrtle	*Lagerstroemia indica*	11.5	X	Good	7083013.4210	2550076.3730	68+63.18	56.26	REMAIN
267	Sugar Hackberry	*Celtis laevigata*	16.5	X	Good	7083102.4570	2548903.1220	56+90.55	-40.50	REMOVE
268	Bradford Pear	*Pyrus calleryana*	15		Good	7082999.4770	2547025.4160	38+12.51	56.29	REMOVE
269	American Elm	*Ulmus americana*	6		Good	7083111.1670	2547234.8200	40+22.28	-54.71	REMOVE
270	Live Oak	*Quercus virginiana*	10		Good	7083000.1240	2551455.6750	82+42.30	82.13	REMAIN
272	Cedar Elm	*Ulmus crassifolia*	10		Good	7083123.6020	2550287.1070	70+74.91	-52.00	REMOVE
273	Sugar Hackberry	*Celtis laevigata*	12		Good	7083099.9360	2549103.6370	58+91.05	-37.32	REMOVE
274	Bois d'Arc	*Maclura pomifera*	21	X	Good	7083101.6538	2548822.0472	56+09.47	-39.96	REMOVE
275	Bradford Pear	*Pyrus calleryana*	11		Good	7082998.1340	2547061.0730	38+48.16	57.75	REMAIN
276	Cedar Elm	*Ulmus crassifolia*	11		Good	7083111.0180	2549502.9350	62+90.66	-46.56	REMOVE
277	Common Persimmon	*Diospyros virginiana*	16		Good	7082998.7730	2548333.5690	51+20.65	61.31	REMAIN
278	Sugar Hackberry	*Celtis laevigata*	6		Good	7083102.6980	2548887.5800	56+75.00	-40.79	REMOVE
279	Bois d'Arc	*Maclura pomifera*	8.5	X	Good	7083109.4200	2547535.5230	43+22.98	-51.97	REMOVE
280	Sugar Hackberry	*Celtis laevigata*	10		Good	7083101.3440	2548859.2980	56+46.72	-39.53	REMOVE
281	Cedar Elm	*Ulmus crassifolia*	12		Good	7083120.0590	2550116.9550	69+04.73	-50.00	REMOVE

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION & REPLACEMENT PLAN

SHEET 2 OF 3

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bec engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	
COUNTY		274
COLLIN		

DATE: 4/6/2026 1:58:12 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P12.dgn

Texas811 Know what's below. Call before you dig.

ID	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	MULTI TRUNK	CONDITION	NORTHING	EASTING	CL STA.	OFFSET	DISPOSITION
282	Sugar Hackberry	*Celtis laevigata*	8		Good	7083127.8290	2547798.2550	45+85.77	-69.52	REMOVE
283	Soap Berry	*Sapindus saponaria*	8		Good	7083097.8560	2548221.8320	50+09.24	-38.15	REMOVE
284	Cedar Elm	*Ulmus crassifolia*	8		Good	7083118.8560	2550045.9820	68+33.75	-49.45	REMOVE
285	American Elm	*Ulmus americana*	12.5	X	Good	7083026.1910	2547949.4510	47+36.63	32.62	REMOVE
286	Sugar Hackberry	*Celtis laevigata*	8		Good	7083101.8542	2548820.2170	56+07.64	-40.17	REMOVE
287	Sugar Hackberry	*Celtis laevigata*	7		Good	7083102.5120	2548837.7440	56+25.17	-40.77	REMOVE
288	Bois d' Arc	*Maclura pomifera*	6		Good	7083122.2940	2547840.0860	46+27.58	-63.84	REMOVE
289	Sugar Hackberry	*Celtis laevigata*	6		Good	7083112.8540	2547818.9790	46+06.44	-54.47	REMOVE
290	Pecan	*Carya illinoinensis*	18	X	Good	7083102.1780	2548834.9730	56+22.40	-40.44	REMOVE
291	Cedar Elm	*Ulmus crassifolia*	11		Good	7083117.8030	2549977.3650	67+65.13	-49.02	REMOVE
292	Cedar Elm	*Ulmus crassifolia*	13		Good	7083108.8760	2549391.7470	61+79.19	-45.31	REMOVE
293	Eatsern Red Cedar	*Juniperus virginiana*	10		Good	7083100.9120	2549181.7310	59+69.15	-38.03	REMOVE
294	Sugar Hackberry	*Celtis laevigata*	8	X	Good	7083101.4770	2548888.9810	56+76.40	-39.57	REMOVE
295	American Elm	*Ulmus americana*	20		Good	7083119.0006	2550047.3957	68+35.17	-49.58	REMOVE
296	Cedar Elm	*Ulmus crassifolia*	12		Good	7083121.1870	2550191.4110	69+79.20	-50.45	REMOVE
297	Cedar Elm	*Ulmus crassifolia*	14		Good	7083116.5440	2549903.3300	66+91.08	-48.44	REMOVE
298	Cedar Elm	*Ulmus crassifolia*	10		Good	7083122.9190	2550344.9410	71+32.74	-50.79	REMOVE
299	Cedar Elm	*Ulmus crassifolia*	15	X	Good	7083114.4900	2549771.6340	65+59.38	-47.58	REMOVE
300	Cedar Elm	*Ulmus crassifolia*	13		Good	7083120.7450	2550233.8070	70+21.59	-49.62	REMOVE
301	Crepe Myrtle	*Lagerstroemia indica*	11	X	Good	7083017.0610	2550068.1520	68+54.99	52.54	REMAIN
302	Crepe Myrtle	*Lagerstroemia indica*	10	X	Good	7083015.1740	2550059.3440	68+46.17	54.35	REMAIN
303	Eastern Red Cedar	*Juniperus virginiana*	15	X	Good	7083007.8720	2551008.8090	77+95.53	70.31	REMAIN
304	Cedar Elm	*Ulmus crassifolia*	14		Good	7082999.3480	2550056.2370	68+42.92	70.15	REMAIN
305	Cedar Elm	*Ulmus crassifolia*	13		Good	7082999.6130	2550037.1670	68+23.85	69.71	REMAIN
306	Unknown Cedar	*Juniperus sp.*	13	X	Good	7083000.0000	2549997.3590	67+84.05	68.96	REMAIN
307	Eastern Red Cedar	*Juniperus virginiana*	11		Good	7083011.8220	2550978.7320	77+65.49	66.09	REMAIN
308	Live Oak	*Quercus virginiana*	9		Good	7082997.1610	2550120.2900	69+06.95	72.92	REMAIN
309	Cedar Elm	*Ulmus crassifolia*	7		Good	7082999.8170	2550077.1610	68+63.84	69.87	REMAIN
310	Cedar Elm	*Ulmus crassifolia*	13		Good	7082998.3240	2550015.3070	68+01.98	70.80	REMAIN
311	Unknown Cedar	*Juniperus sp.*	16	X	Good	7082998.1390	2549980.1930	67+66.86	70.66	REMAIN
312	Cedar Elm	*Ulmus crassifolia*	15		Good	7082984.9080	2549945.2300	67+31.78	83.58	REMAIN
313	Cedar Elm	*Ulmus crassifolia*	13.5	X	Good	7083027.0550	2550920.4360	77+07.33	50.32	REMOVE
314	Live Oak	*Quercus virginiana*	10		Good	7083016.8250	2550882.4550	76+69.26	60.20	REMAIN
315	Live Oak	*Quercus virginiana*	12		Good	7083030.7720	2551255.1950	80+42.11	49.66	REMAIN
316	Live Oak	*Quercus virginiana*	12		Good	7083017.7550	2550903.0050	76+89.82	59.46	REMAIN
317	Cedar Elm	*Ulmus crassifolia*	10		Good	7083020.5530	2550857.8680	76+44.71	56.25	REMAIN
318	Eastern Red Cedar	*Juniperus virginiana*	10		Good	7083013.4130	2550966.3160	77+53.09	64.38	REMAIN
319	Cedar Elm	*Ulmus crassifolia*	10		Good	7082996.8390	2550901.8690	76+88.49	80.37	REMAIN
320	Eastern Red Cedar	*Ulmus crassifolia*	15	X	Good	7083005.0360	2550948.2790	77+34.97	72.59	REMAIN
321	Cedar Elm	*Ulmus crassifolia*	11		Good	7083122.4660	2550533.3440	73+21.13	-48.61	REMOVE
322	Eastern Red Cedar	*Juniperus virginiana*	12	X	Good	7083012.3100	2551319.8850	81+06.63	68.71	REMAIN
323	Eastern Red Cedar	*Juniperus virginiana*	14	X	Good	7083009.1000	2550994.0620	77+80.79	68.95	REMAIN
324	Eastern Red Cedar	*Juniperus virginiana*	13.5	X	Good	7083011.1860	2551350.1100	81+36.84	70.11	REMAIN
325	American Elm	*Ulmus americana*	10		Good	7083014.3970	2551305.4200	80+92.18	66.49	REMAIN
326	Bradford Pear	*Pyrus calleryana*	18		Good	7083122.2350	2550462.5560	72+50.34	-49.03	REMOVE
327	Live Oak	*Quercus virginiana*	12		Good	7083027.6700	2551057.1600	78+44.06	50.95	REMOVE
328	Cedar Elm	*Ulmus crassifolia*	10		Good	7083127.5640	2550740.7350	75+28.56	-51.82	REMOVE
329	Cedar Elm	*Ulmus crassifolia*	13	X	Good	7083123.4520	2550604.3560	73+92.14	-48.95	REMOVE
330	Possumhaw	*Ilex decidua*	9.5			7082953.0013	2544954.7676	17+41.28	86.84	REMAIN
331	Live Oak	*Quercus virginiana*	9		Good	7083023.8210	2551467.6530	82+54.50	58.54	REMAIN
332	Eastern Red Cedar	*Juniperus virginiana*	8		Good	7083011.3970	2551495.4980	82+82.23	71.22	REMAIN
333	Eastern Red Cedar	*Juniperus virginiana*	14.5	X	Good	7083015.8900	2551509.0890	82+95.86	66.85	REMAIN
334	Eastern Red Cedar	*Juniperus virginiana*	11		Good	7083011.5710	2551525.1100	83+11.84	71.32	REMAIN
335	Eastern Red Cedar	*Juniperus virginiana*	11		Good	7083015.2780	2551540.2430	83+27.01	67.75	REMAIN
336	Eastern Red Cedar	*Juniperus virginiana*	11		Good	7083010.6510	2551554.6740	83+41.39	72.51	REMAIN
337	Live Oak	*Quercus virginiana*	7		Good	7083003.2780	2551601.6250	83+88.28	80.31	REMAIN
338	Shumard Oak	*Quercus shumardii*	13		Good	7083024.8970	2551619.5690	84+06.42	58.85	REMAIN
339	Live Oak	*Quercus virginiana*	9		Good	7083002.5500	2551655.2590	84+41.90	81.53	REMAIN
340	Eastern Red Cedar	*Juniperus virginiana*	11.5	X	Good	7083003.3290	2551686.4710	84+73.12	81.03	REMAIN
341	Eastern Red Cedar	*Juniperus virginiana*	8	X	Good	7083004.5680	2551702.4600	84+89.12	79.94	REMAIN
342	Eastern Red Cedar	*Juniperus virginiana*	8		Good	7083000.8400	2551716.4200	85+03.04	83.79	REMAIN
343	Eastern Red Cedar	*Juniperus virginiana*	10		Good	7083003.2790	2551731.1620	85+17.81	81.49	REMAIN
344	Eastern Red Cedar	*Juniperus virginiana*	10	X	Good	7083000.7300	2551746.1100	85+32.73	84.17	REMAIN
345	Cedar Elm	Ulmus crassifolia	9		Good	7083005.7150	2551808.4720	85+95.31	79.63	REMAIN
346	Cedar Elm	Ulmus crassifolia	11		Good	7083035.0430	2551501.0800	82+88.02	47.63	REMAIN
347	Chinese Elm	*Ulmus parvifolia*	22	X	Good	7083025.2900	2552484.3790	92+71.34	64.76	REMAIN
348	Cedar Elm	*Ulmus crassifolia*	13		Good	7082945.9061	2544882.4640	16+68.92	93.35	REMAIN
349	Cedar Elm	*Ulmus crassifolia*	9		Good	7082974.1620	2545307.8620	26+62.62	67.40	REMAIN
350	Cedar Elm	*Ulmus crassifolia*	14		Good	7082985.4620	2546512.8210	23+81.19	63.60	REMAIN
351	Bois d' Arc	*Maclura pomifera*	8			7083122.4380	2547832.6560	46+20.15	-64.01	REMOVE
352	Cedar Elm	*Ulmus crassifolia*	11		Good	7082987.9580	2545468.6610	22+55.44	56.06	REMAIN

SPECIES	TOTAL
Eastern Red Cedar	101
Cedar Elm	67
Possomhaw	37
Live Oak	32
Sugar Hackberry	15
Crepe Myrtle	13
Shumard Oak	9
Unknown Cedar	9
Black Willow	8
American Elm	7
Chinqapin Oak	5
Shortleaf Pine	14
Bois d'Arc	5
Burr Oak	5
Chinese Elm	4
Bradford Pear	3
Bald Cypress	2
Soapberry	2
Common Persimmon	1
Pecan	1
Chinese Elm	1

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
REFER TO BID SET FOR OFFICIAL DOCUMENTS

[redacted]

W. LUCAS RD. ROADWAY IMPROVEMENTS

TREE PRESERVATION & REPLACEMENT PLAN

SHEET 3 OF 3

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE 100
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-20986

bc engineering
a PARSONS Company

CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

JOB	ROAD	SHEET NO.
	W. LUCAS RD.	275
COUNTY		
COLLIN		

DATE: 4/6/2026 1:58:14 PM
FILE: T:\1024793 West Lucas Road Design Revision\Design Data\4 - Design\Plan Set\9. Environmental\WLucas_TREE_P13.dgn

Texas 811 Know what's below. Call before you dig.