

September 19, 2019

Burnet County
ATTN: Herb Darling
220 South Pierce Street
Burnet, Texas 78611

RE: M2E3 LLC Midland to Echo Pipeline Project
County Road Crossings & Temporary Access Driveways on County Right-of-Way
Burnet County, Texas

Dear Mr. Darling:

I am sending this Letter Agreement (hereinafter referred to as the "Agreement") to set forth the terms and conditions discussed between Burnet County, Texas (hereinafter referred to as the "County") and M2E3 LLC, its employees, contractors, agents, successors or assigns (hereinafter referred to as "M2E3"), for the right and privilege to install a 36 inch diameter steel pipeline under the County Road Right-Of-Way and place a temporary access driveway on both sides of the county roads within the pipeline construction area.

M2E3 will begin construction of this project on or about October 2019. The anticipated in service date is June 2020.

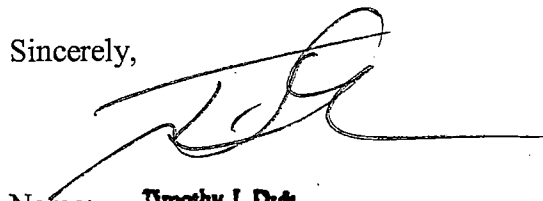
Terms and Conditions of M2E3's pipeline construction in the County:

1. The County authorizes M2E3 to conduct construction activities for a period of twenty-four (24) months to begin at the commencement of construction;
2. M2E3 shall install the pipeline under the County Road Right-Of-Way as described in the Plan and Profile described in Exhibit "A" attached hereto;
3. M2E3 shall install and maintain Temporary Access Driveways at County Road Right-Of-Way crossings locations to facilitate construction activities;
4. M2E3 will adhere to traffic safety measures consistent with the guidelines provided in the Texas Manual on Uniform Traffic Control Devices (TMUTCD) during construction activities at or near County Road;
5. Upon request of the County Commissioner(s) or designated County Representative, M2E3's Representative and/or, Pipeline Contractor Representative, will be available to meet at each any or all of the crossing locations to review and take pictures of the existing County Lands prior to the start of construction and at the end of construction to inspect final restoration of the County Lands;
6. M2E3 shall notify the appropriate County Commissioner and/or designated County Representative forty-eight (48) hours prior to the commencement of construction for each crossing under his/her jurisdiction.

Should you have any questions about this Agreement, please contact the following Project

representative: Mrs. Marie Taylor, Morris P. Hebert, Inc., 10101 Southwest Freeway, Suite 620,
Houston, Texas 77074 (mtaylor@mphinc.com or 713-219-4406).

Sincerely,



Name: Timothy J. Dye

Title: Agent and Attorney-in-Fact

Company: M2E3 LLC

P.O. Box 4324
Houston, Texas 77210-4324

AGREED AND ACCEPTED THIS 8th DAY OF October, 2019.

Signed: 

Name: Herb Darling

Title: Development Services, Director

Burnet County, Texas

*The portion of CR107 depicted is not
a county maintained road.*

EXHIBIT “A”

Burnet County Right-of-Way Plan & Profiles

VICINITY MAP

BURNET COUNTY, TEXAS

TX-BT-0004.00010 - CR-107

County Road 107

PROPOSED 36" PIPELINE CROSSING
CR 107
N: 10,308,541.09
E: 2,913,891.54
LAT: N 30° 55' 58.96"
LONG: W 98° 21' 51.27"



Scale: 1" = 2000'
2000' 0 1000' 2000'



C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com
Texas Firm No. 10028500

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0004.00010
CROSSING COUNTY ROAD 107
FREDERICK KNIGHT SURVEY, A-506, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB		REVISIONS	
CHIEF INSP.:	No. 0	DATE: 08/29/2019	REVISED BY: AMR
DATE: 08/29/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0004.00010_CR 107.dwg			

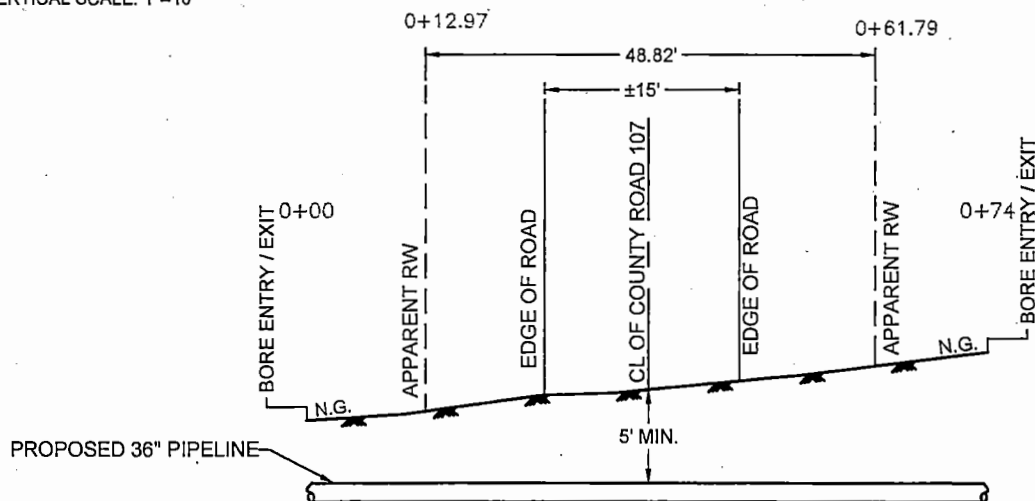
SHEET 1 OF 3

CROSS-SECTION

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

CONSTRUCTION METHOD:

BORE



FREDERICK KNIGHT A-506

PROPOSED
36" PIPELINE

LAT. = 30°55'59.14"
LONG. = 98°21'51.45"

BORE ENTRY / EXIT

EDGE OF ROAD

CL OF COUNTY ROAD 107

EDGE OF ROAD

BORE ENTRY / EXIT

LAT. = 30°55'58.78"
LONG. = 98°21'51.08"

TX-BT-0004.00000
TRIBUTARY SPORTING CLUB, LP

NOTE:

THE PROPOSED 36" PIPELINE CROSSING WILL BE LOCATED AT CR 107 APPROXIMATELY 5.25 MILES NORTH EASTERLY FROM IT'S JUNCTION WITH FM 2341.

SCALE: 1"=30'

30' 0 15' 30'



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M2E3 LLC

MIDLAND TO ECHO

PROPOSED 36" PIPELINE

TX-BT-0004.00010

CROSSING COUNTY ROAD 107

FREDERICK KNIGHT SURVEY, A-506, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB

REVISIONS

CHIEF INSP.:

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DATE:

REVISED BY:

FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0004.00010_CR 107.dwg

SHEET 2 OF 3

PROPOSED 36" PIPELINE DESIGN DATA

1.0 GENERAL INFORMATION

- 1.1 APPLICANT/OWNER: M2E3 LLC
- 1.2 PIPELINE NAME: MIDLAND TO ECHO
- 1.3 PRODUCT: CRUDE OIL
- 1.4 PROPOSED CONSTRUCTION ACTIVITIES SCHEDULED FOR **September 2019 - June 2020**

2.0 PIPELINE DESIGN DATA

- 2.1 DESIGN CODES: THE DEPARTMENT OF ("DOT") STANDARD CFR TITLE 49, PART 195, "TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE" AND THE RAILROAD COMMISSION PIPELINE SAFETY RULES AND ASME API 1102, "STEEL PIPELINE CROSSING RAILROADS AND HIGHWAYS"
- 2.2 DESIGN PRESSURE: 1,300 psig
- 2.3 HYDROSTATIC TEST PRESSURE: 1,625 psig min./2,220 psig max
- 2.4 DESIGN FACTOR: 0.60
- 2.5 YIELD STRENGTH: 65,000 psi

3.0 CATHODIC PROTECTION

- 3.1 IMPRESSED CURRENT CATHODIC PROTECTION

4.0 CONSTRUCTION METHOD

- 4.1 PIPELINE WILL BE INSTALLED BY BORE.

5.0

BORE AND/OR HDD CARRIER LINE PIPE

- 5.1 OUTSIDE DIAMETER: 36.000"
- 5.2 PIPE MATERIAL: CARBON STEEL
- 5.3 SPECIFICATIONS AND GRADE OF MATERIAL: API-5L, X-65 PSL2
- 5.4 WALL THICKNESS: 0.688"
- 5.5 COATING: 14-16 mils FBE & 40 mils (Min.) ARO Coating

SHEET 3 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0004.00010
CROSSING COUNTY ROAD 107
FREDERICK KNIGHT SURVEY, A-506, BURNET COUNTY, TEXAS



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VICINITY MAP

BURNET COUNTY, TEXAS

TX-BT-0024.10010 - CR-108

PROPOSED 36" PIPELINE CROSSING
CR 108

N: 10,274,963.46
E: 2,950,746.84
LAT: N 30° 50' 20.01"
LONG: W 98° 14' 55.37"



SCALE: 1"=2000'

2000' 0 1000' 2000'



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SHEET 1 OF 3

M2E3 LLC MIDLAND TO ECHO PROPOSED 36" PIPELINE

TX-BT-0024.10010
CROSSING COUNTY ROAD 108
JOHN MURRY SURVEY, A-1650, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB

REVISIONS

CHIEF INSP.:

No. 0

DATE: 08/29/2019

REVISED BY: AMR

DATE: 08/29/2019

No.

DATE:

REVISED BY:

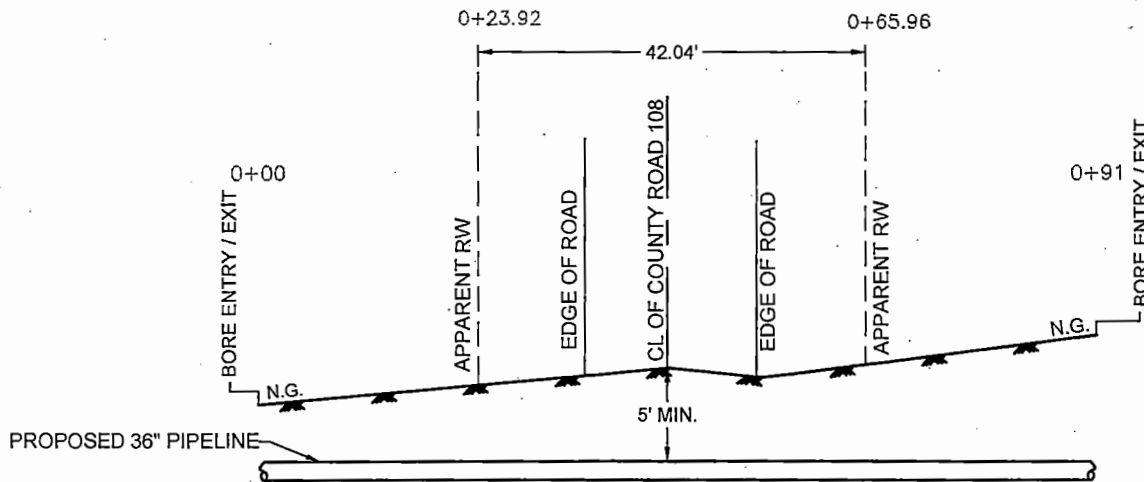
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0024.10010_CR 108.dwg

CROSS-SECTION

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

CONSTRUCTION METHOD:

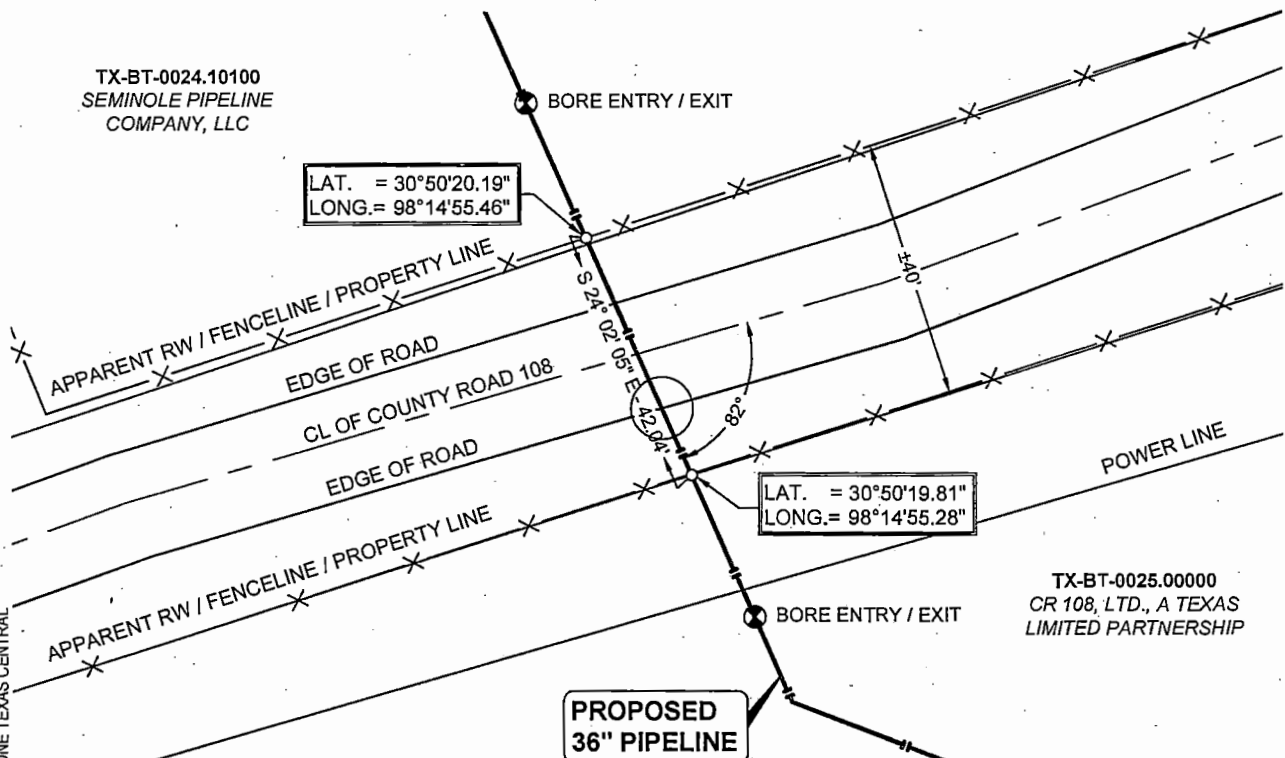
BORE



**JOHN MURRY
A-1650**

TX-BT-0024.10100
SEMINOLE PIPELINE
COMPANY, LLC

LAT. = 30°50'20.19"
LONG. = 98°14'55.46"



TX-BT-0025.00000
CR 108, LTD., A TEXAS
LIMITED PARTNERSHIP

NOTE:
THE PROPOSED 36" PIPELINE CROSSING WILL BE
LOCATED AT CR 108 APPROXIMATELY 1.71 MILES
NORTH EASTERLY FROM IT'S JUNCTION WITH CR 110.

SCALE: 1"=30'
30' 0 15' 30'

SHEET 2 OF 3

**M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE**

TX-BT-0024.10010
CROSSING COUNTY ROAD 108
JOHN MURRY SURVEY, A-1650, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB

REVISIONS

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PROPOSED 36" PIPELINE DESIGN DATA

1.0 GENERAL INFORMATION

- 1.1 APPLICANT/OWNER: M2E3 LLC
- 1.2 PIPELINE NAME: MIDLAND TO ECHO
- 1.3 PRODUCT: CRUDE OIL
- 1.4 PROPOSED CONSTRUCTION ACTIVITIES SCHEDULED FOR **September 2019 - June 2020**

2.0 PIPELINE DESIGN DATA

- 2.1 DESIGN CODES: THE DEPARTMENT OF ("DOT") STANDARD CFR TITLE 49, PART 195, "TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE" AND THE RAILROAD COMMISSION PIPELINE SAFETY RULES AND ASME API 1102, "STEEL PIPELINE CROSSING RAILROADS AND HIGHWAYS"
- 2.2 DESIGN PRESSURE: 1,300 psig
- 2.3 HYDROSTATIC TEST PRESSURE: 1,625 psig min./2,220 psig max
- 2.4 DESIGN FACTOR: 0.60
- 2.5 YIELD STRENGTH: 65,000 psi

3.0 CATHODIC PROTECTION

- 3.1 IMPRESSED CURRENT CATHODIC PROTECTION

4.0 CONSTRUCTION METHOD

- 4.1 PIPELINE WILL BE INSTALLED BY BORE.

5.0

BORE AND/OR HDD CARRIER LINE PIPE

- 5.1 OUTSIDE DIAMETER: 36.000"
- 5.2 PIPE MATERIAL: CARBON STEEL
- 5.3 SPECIFICATIONS AND GRADE OF MATERIAL: API-5L, X-65 PSL2
- 5.4 WALL THICKNESS: 0.688"
- 5.5 COATING: 14-16 mils FBE & 40 mils (Min.) ARO Coating

SHEET 3 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0024.10010
CROSSING COUNTY ROAD 108
JOHN MURRY SURVEY, A-1650, BURNET COUNTY, TEXAS



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FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0024.10010_CR 108.dwg			

VICINITY MAP

BURNET COUNTY, TEXAS

TX-BT-0050.10010 - CR 200 / SHADY GROVE RD.

PROPOSED 36" PIPELINE CROSSING
CR 200 (SHADY GROVE ROAD)

N: 10,260,636.53

E: 2,984,450.44

LAT: N 30° 47' 51.81"

LONG: W 98° 08' 32.06"

SHEET 1 OF 3



SCALE: 1"=2000'

2000' 0 1000' 2000'



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M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE

TX-BT-0050.10010

CROSSING CR 200 (SHADY GROVE ROAD)

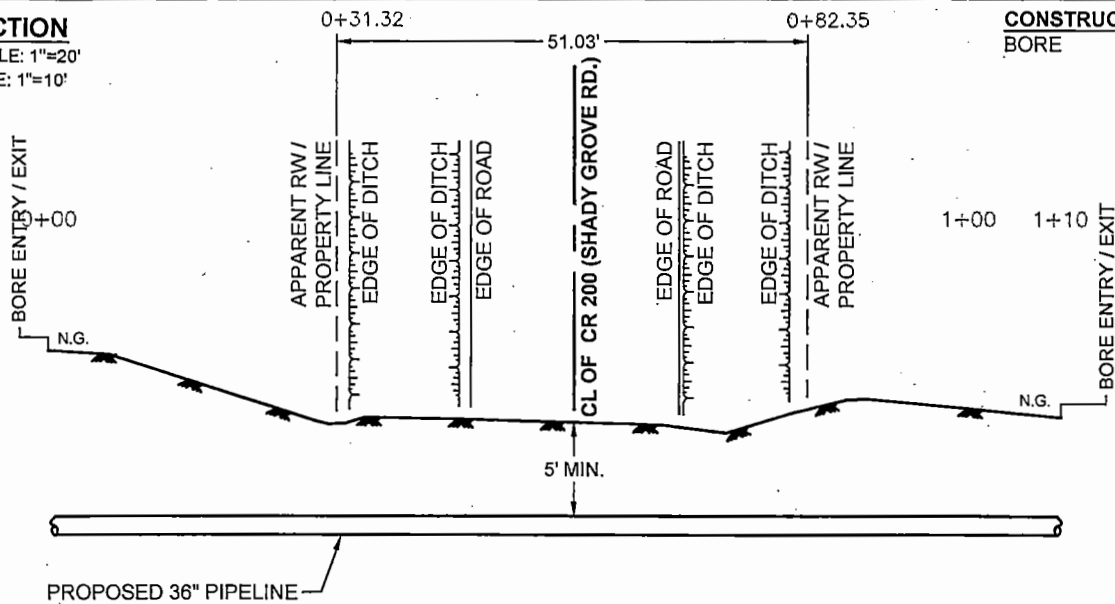
JOSEPH J. GEORGE SURVEY, A-354, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB	REVISIONS		
CHIEF INSP.:	No. 0	DATE: 08/29/2019	REVISED BY: JTL
DATE: 08/29/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET COTX-BT-0050.10010_CR 200 - SHADY GROVE ROAD.dwg			

CROSS-SECTION

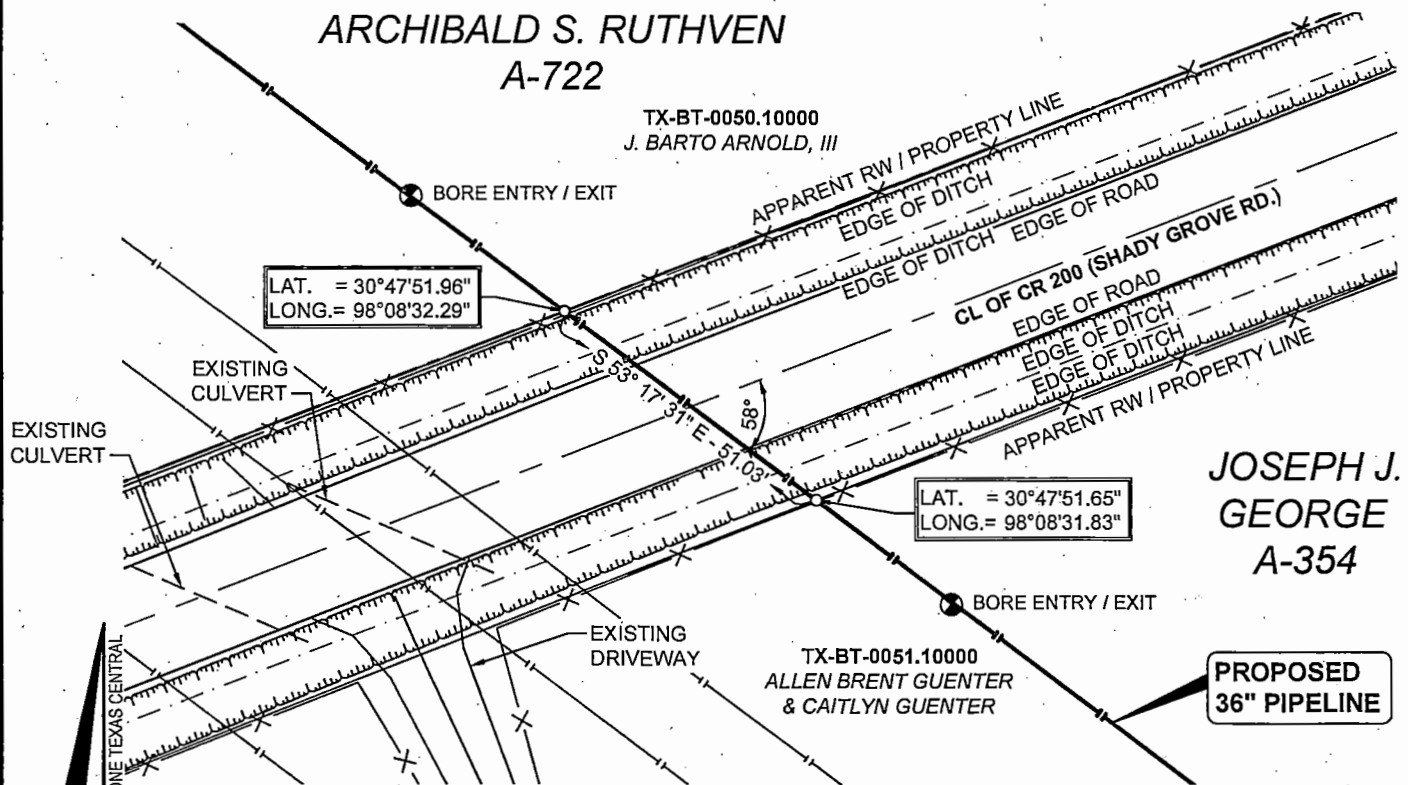
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

CONSTRUCTION METHOD:
BORE



ARCHIBALD S. RUTHVEN
A-722

TX-BT-0050.10000
J. BARTO ARNOLD, III



JOSEPH J. GEORGE
A-354

TX-BT-0051.10000
ALLEN BRENT GUENTER
& CAITLYN GUENTER

PROPOSED 36\"/>

NOTE:
THE PROPOSED 36" PIPELINE CROSSING WILL BE LOCATED AT SHADY GROVE RD. APPROXIMATELY 1.47 MILES SOUTHWESTERLY FROM ITS JUNCTION WITH BROOKS MILL RD.

SCALE: 1"=30'

30' 0 15' 30'

SHEET 2 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE

TX-BT-0050.10010
CROSSING CR 200 (SHADY GROVE ROAD)
JOSEPH J. GEORGE SURVEY, A-354, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB	REVISIONS		
CHIEF INSP.:	No. 0	DATE: 08/29/2019	REVISED BY: JTL
DATE: 08/29/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0050.10010_CR 200 - SHADY GROVE ROAD.dwg			



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PROPOSED 36" PIPELINE DESIGN DATA

1.0 GENERAL INFORMATION

- 1.1 APPLICANT/OWNER: M2E3 LLC
- 1.2 PIPELINE NAME: MIDLAND TO ECHO
- 1.3 PRODUCT: CRUDE OIL
- 1.4 PROPOSED CONSTRUCTION ACTIVITIES SCHEDULED FOR **September 2019 - June 2020**

2.0 PIPELINE DESIGN DATA

- 2.1 DESIGN CODES: THE DEPARTMENT OF ("DOT") STANDARD CFR TITLE 49, PART 195, "TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE" AND THE RAILROAD COMMISSION PIPELINE SAFETY RULES AND ASME API 1102, "STEEL PIPELINE CROSSING RAILROADS AND HIGHWAYS"
- 2.2 DESIGN PRESSURE: 1,300 psig
- 2.3 HYDROSTATIC TEST PRESSURE: 1,625 psig min./2,220 psig max
- 2.4 DESIGN FACTOR: 0.60
- 2.5 YIELD STRENGTH: 65,000 psi

3.0 CATHODIC PROTECTION

- 3.1 IMPRESSED CURRENT CATHODIC PROTECTION

4.0 CONSTRUCTION METHOD

- 4.1 PIPELINE WILL BE INSTALLED BY BORE.

5.0

BORE AND/OR HDD CARRIER LINE PIPE

- 5.1 OUTSIDE DIAMETER: 36.000"
- 5.2 PIPE MATERIAL: CARBON STEEL
- 5.3 SPECIFICATIONS AND GRADE OF MATERIAL: API-5L, X-65 PSL2
- 5.4 WALL THICKNESS: 0.688"
- 5.5 COATING: 14-16 mils FBE & 40 mils (Min.) ARO Coating

SHEET 3 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE

TX-BT-0050.10010
CROSSING CR 200 (SHADY GROVE ROAD)
JOSEPH J. GEORGE SURVEY, A-354, BURNET COUNTY, TEXAS



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DATE: 08/29/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190083\DWG\CROSSING_FILES\ROADS\BURNET COITX-BT-0050.10010_CR 200 - SHADY GROVE ROAD.dwg			

VICINITY MAP

BURNET COUNTY, TEXAS

TX-BT-0064.10010 - CR-252

PROPOSED 36" PIPELINE CROSSING
CR 252

N: 10,253,929.79

E: 2,995,293.27

LAT: N 30° 46' 43.30"

LONG: W 98° 06' 29.05"



SCALE: 1"=2000'

2000' 0 1000' 2000'



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SHEET 1 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE

TX-BT-0064.10010

CROSSING COUNTY ROAD 252

DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB		REVISIONS	
CHIEF INSP.:	No. 0	DATE: 08/29/2019	REVISED BY: AMR
DATE: 08/29/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0064.10010_CR 252.dwg			

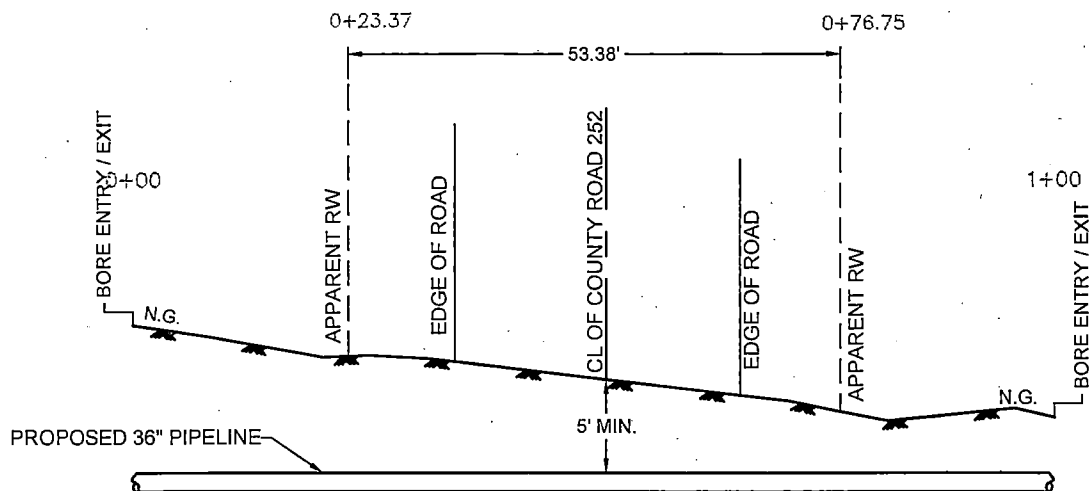
CROSS-SECTION

HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: 1"=10'

CONSTRUCTION METHOD:

BORE



DAVID HARMON
A-386

PROPOSED
36" PIPELINE

TX-BT-0064.10000
THE SMITH CHILDREN'S TRUST FOR ALLISON
LANE SMITH MILLIORN

LAT. = 30°46'43.46"
LONG. = 98°06'29.56"

BORE ENTRY / EXIT

TREE LINE

APPARENT RW / FENCELINE

EXISTING ENTERPRISE PIPELINE

EDGE OF ROAD

CL OF COUNTY ROAD 252

EDGE OF ROAD

LAT. = 30°46'43.16"
LONG. = 98°06'29.05"

BORE ENTRY / EXIT

TX-BT-0065.10000
JACK B. DOUGHERTY

NOTE:
THE PROPOSED 36" PIPELINE CROSSING WILL BE
LOCATED AT CR 252 APPROXIMATELY 0.18 MILES
SOUTH WESTERLY FROM IT'S JUNCTION WITH CR 254.

NAD 83 (2011) ZONE TEXAS CENTRAL



SCALE: 1"=30'

30' 0 15' 30'



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M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0064.10010
CROSSING COUNTY ROAD 252
DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB		REVISIONS	
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SHEET 2 OF 3

PROPOSED 36" PIPELINE DESIGN DATA

1.0 GENERAL INFORMATION

- 1.1 APPLICANT/OWNER: M2E3 LLC
- 1.2 PIPELINE NAME: MIDLAND TO ECHO
- 1.3 PRODUCT: CRUDE OIL
- 1.4 PROPOSED CONSTRUCTION ACTIVITIES SCHEDULED FOR **September 2019 - June 2020**

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- 2.5 YIELD STRENGTH: 65,000 psi

3.0 CATHODIC PROTECTION

- 3.1 IMPRESSED CURRENT CATHODIC PROTECTION

4.0 CONSTRUCTION METHOD

- 4.1 PIPELINE WILL BE INSTALLED BY BORE.

5.0

BORE AND/OR HDD CARRIER LINE PIPE

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- 5.5 COATING: 14-16 mils FBE & 40 mils (Min.) ARO Coating

SHEET 3 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0064.10010
CROSSING COUNTY ROAD 252
DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS



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PROJ. MGR.: LJB

REVISIONS

CHIEF INSP.:

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DATE: 08/29/2019

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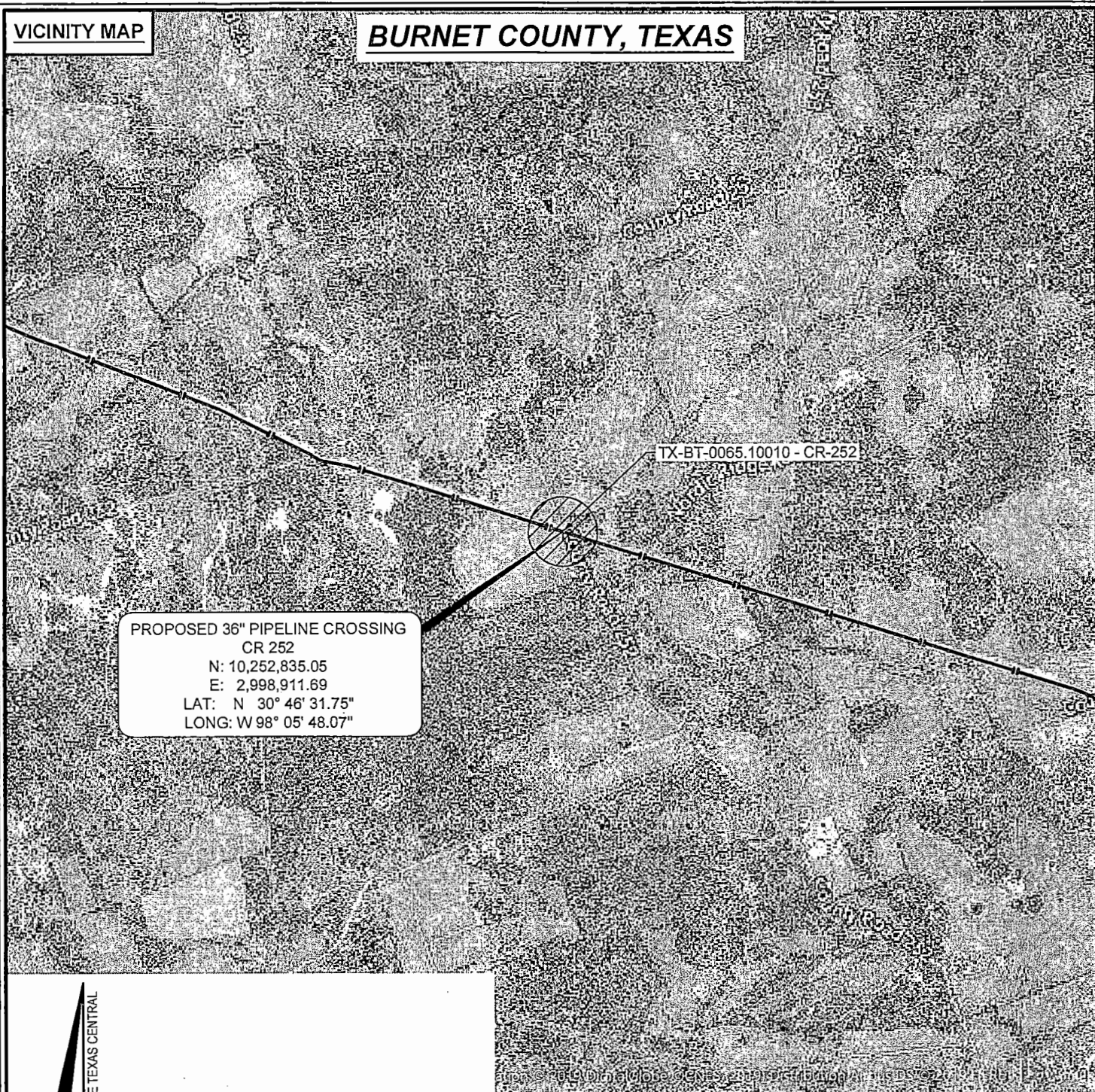
DATE:

REVISED BY:

FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0064.10010_CR 252.dwg

VICINITY MAP

BURNET COUNTY, TEXAS



PROPOSED 36" PIPELINE CROSSING
CR 252
N: 10,252,835.05
E: 2,998,911.69
LAT: N 30° 46' 31.75"
LONG: W 98° 05' 48.07"

TX-BT-0065.10010 - CR-252

SHEET 1 OF 3



SCALE: 1"=2000'

2000' 0 1000' 2000'



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M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE

TX-BT-0065.10010
CROSSING COUNTY ROAD 252
DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB

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No.

DATE:

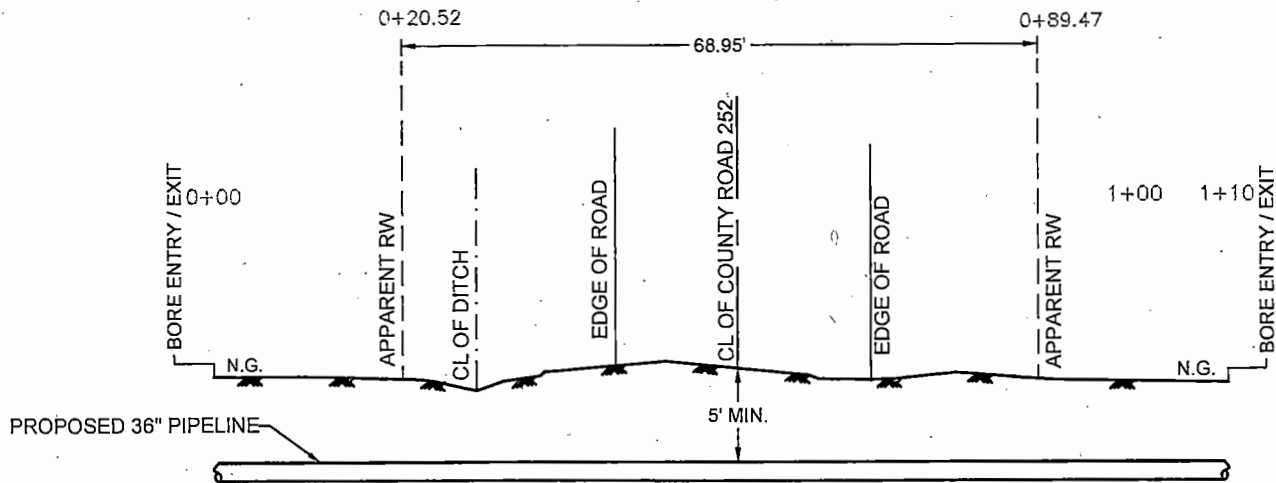
REVISED BY:

FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0065.10010_CR 252.dwg

CROSS-SECTION

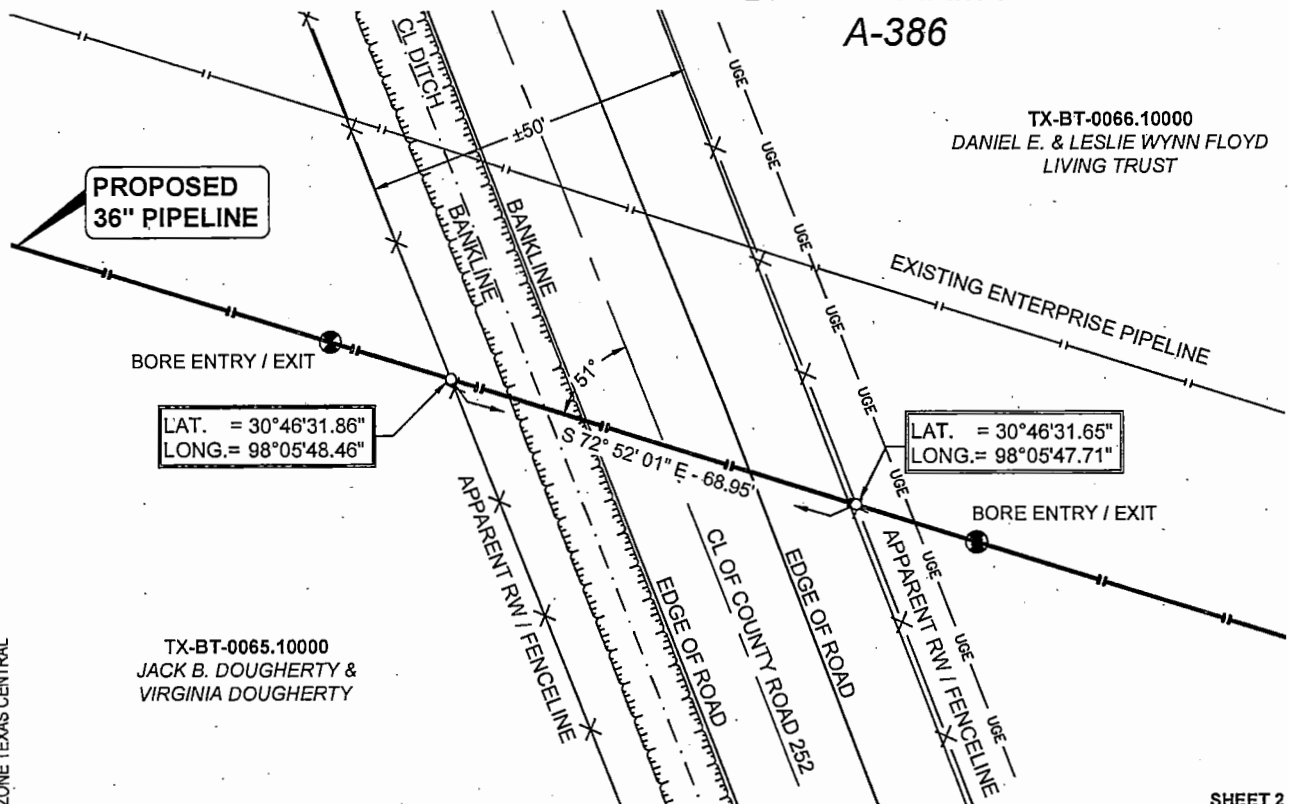
HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=10'

CONSTRUCTION METHOD:
 BORE



**DAVID HARMON
 A-386**

TX-BT-0066.10000
 DANIEL E. & LESLIE WYNN FLOYD
 LIVING TRUST



TX-BT-0065.10000
 JACK B. DOUGHERTY &
 VIRGINIA DOUGHERTY

NOTE:
 THE PROPOSED 36" PIPELINE CROSSING WILL BE
 LOCATED AT CR 252 APPROXIMATELY 0.97 MILES
 NORTH WESTERLY FROM ITS JUNCTION WITH CR 260.

NAD 83 (2011) ZONE TEXAS CENTRAL



SCALE: 1"=30'
 30' 0 15' 30'

SHEET 2 OF 3

M2E3 LLC
 MIDLAND TO ECHO
PROPOSED 36" PIPELINE
 TX-BT-0065.10010
 CROSSING COUNTY ROAD 252
 DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS



C. H. Fenstermaker & Associates, L.L.C.
 135 Regency Sq. Lafayette, LA 70508
 Ph. 337-237-2200 Fax. 337-232-3299
 www.fenstermaker.com
 Texas Firm No. 10028500

PROJ. MGR.: LJB		REVISIONS	
CHIEF INSP.:	No. 0	DATE: 08/29/2019	REVISED BY: AMR
DATE: 08/29/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0065.10010_CR 252.dwg			

PROPOSED 36" PIPELINE DESIGN DATA

1.0 GENERAL INFORMATION

- 1.1 APPLICANT/OWNER: M2E3 LLC
- 1.2 PIPELINE NAME: MIDLAND TO ECHO
- 1.3 PRODUCT: CRUDE OIL
- 1.4 PROPOSED CONSTRUCTION ACTIVITIES SCHEDULED FOR **September 2019 - June 2020**

2.0 PIPELINE DESIGN DATA

- 2.1 DESIGN CODES: THE DEPARTMENT OF ("DOT") STANDARD CFR TITLE 49, PART 195, "TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE" AND THE RAILROAD COMMISSION PIPELINE SAFETY RULES AND ASME API 1102, "STEEL PIPELINE CROSSING RAILROADS AND HIGHWAYS"
- 2.2 DESIGN PRESSURE: 1,300 psig
- 2.3 HYDROSTATIC TEST PRESSURE: 1,625 psig min./2,220 psig max
- 2.4 DESIGN FACTOR: 0.60
- 2.5 YIELD STRENGTH: 65,000 psi

3.0 CATHODIC PROTECTION

- 3.1 IMPRESSED CURRENT CATHODIC PROTECTION

4.0 CONSTRUCTION METHOD

- 4.1 PIPELINE WILL BE INSTALLED BY BORE.

5.0

BORE AND/OR HDD CARRIER LINE PIPE

- 5.1 OUTSIDE DIAMETER: 36.000"
- 5.2 PIPE MATERIAL: CARBON STEEL
- 5.3 SPECIFICATIONS AND GRADE OF MATERIAL: API-5L, X-65 PSL2
- 5.4 WALL THICKNESS: 0.688"
- 5.5 COATING: 14-16 mils FBE & 40 mils (Min.) ARO Coating

SHEET 3 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0065.10010
CROSSING COUNTY ROAD 252
DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS

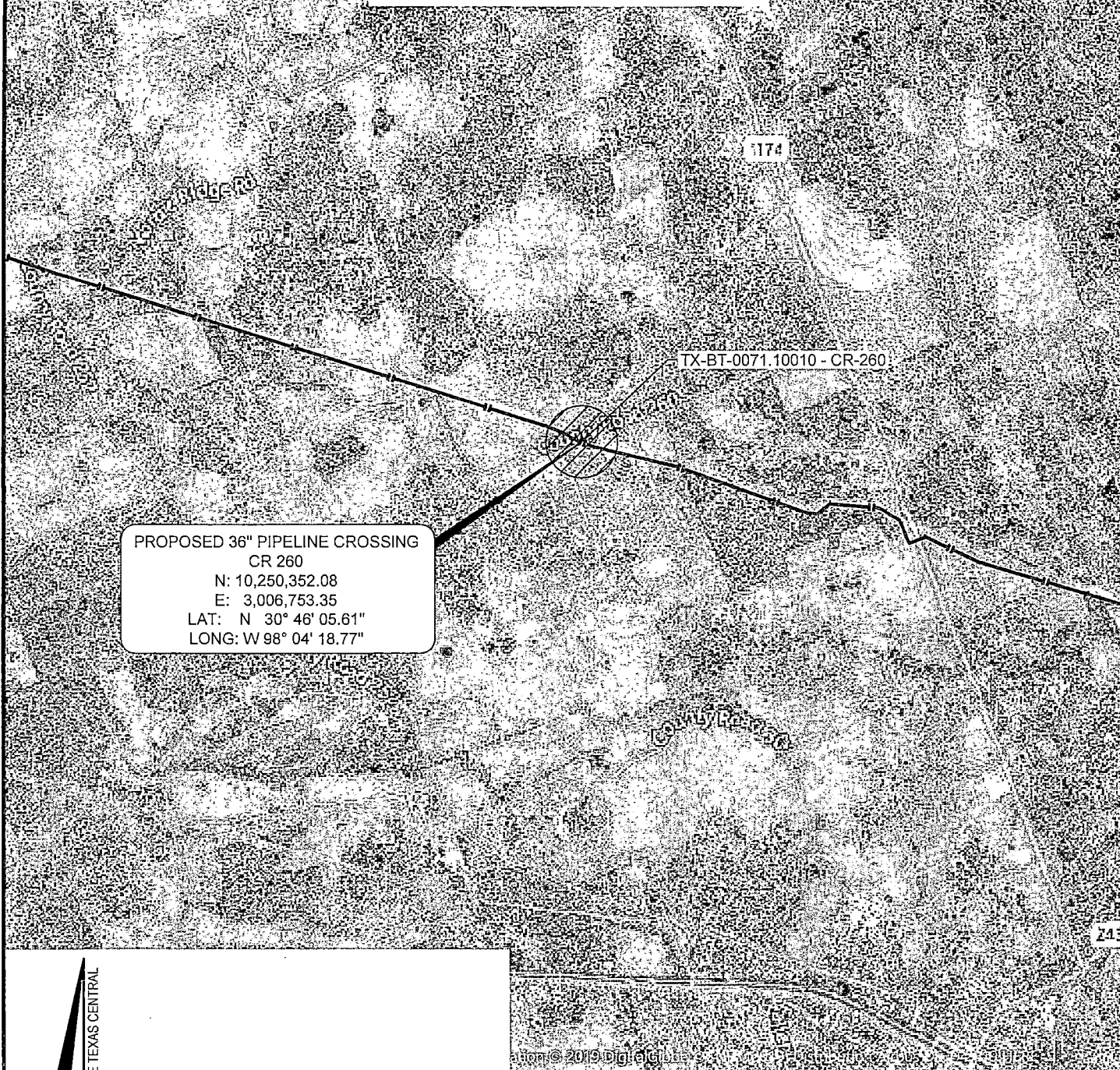


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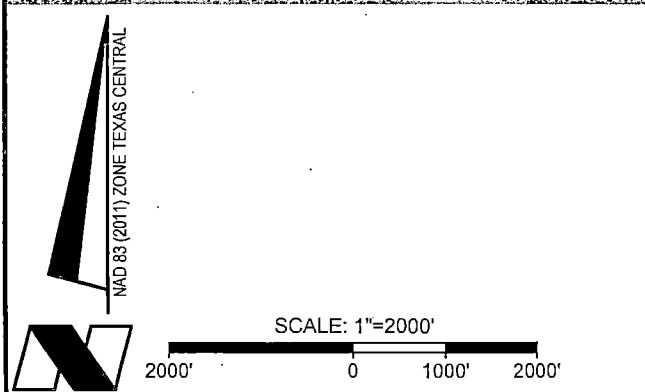
PROJ. MGR.: LJB		REVISIONS	
CHIEF INSP.:	No. 0	DATE: 08/29/2019	REVISED BY: AMR
DATE: 08/29/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0065.10010_CR 252.dwg			

VICINITY MAP

BURNET COUNTY, TEXAS



PROPOSED 36" PIPELINE CROSSING
CR 260
N: 10,250,352.08
E: 3,006,753.35
LAT: N 30° 46' 05.61"
LONG: W 98° 04' 18.77"



SHEET 1 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0071.10010
CROSSING COUNTY ROAD 260
DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS



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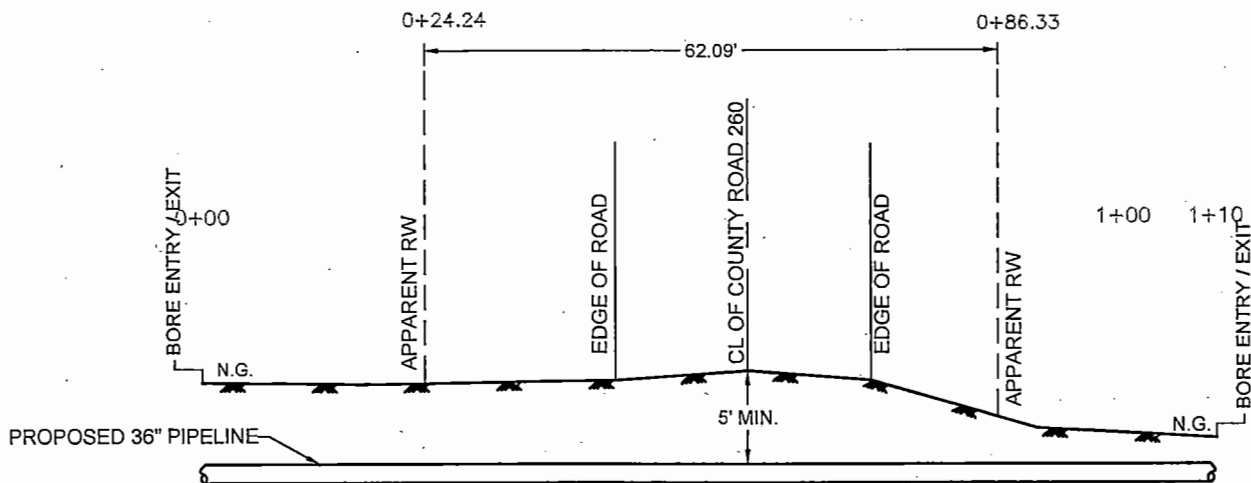
PROJ. MGR.: LJB		REVISIONS	
CHIEF INSP.:	No. 0	DATE: 08/30/2019	REVISED BY: AMR
DATE: 08/30/2019	No.	DATE:	REVISED BY:
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CROSS-SECTION

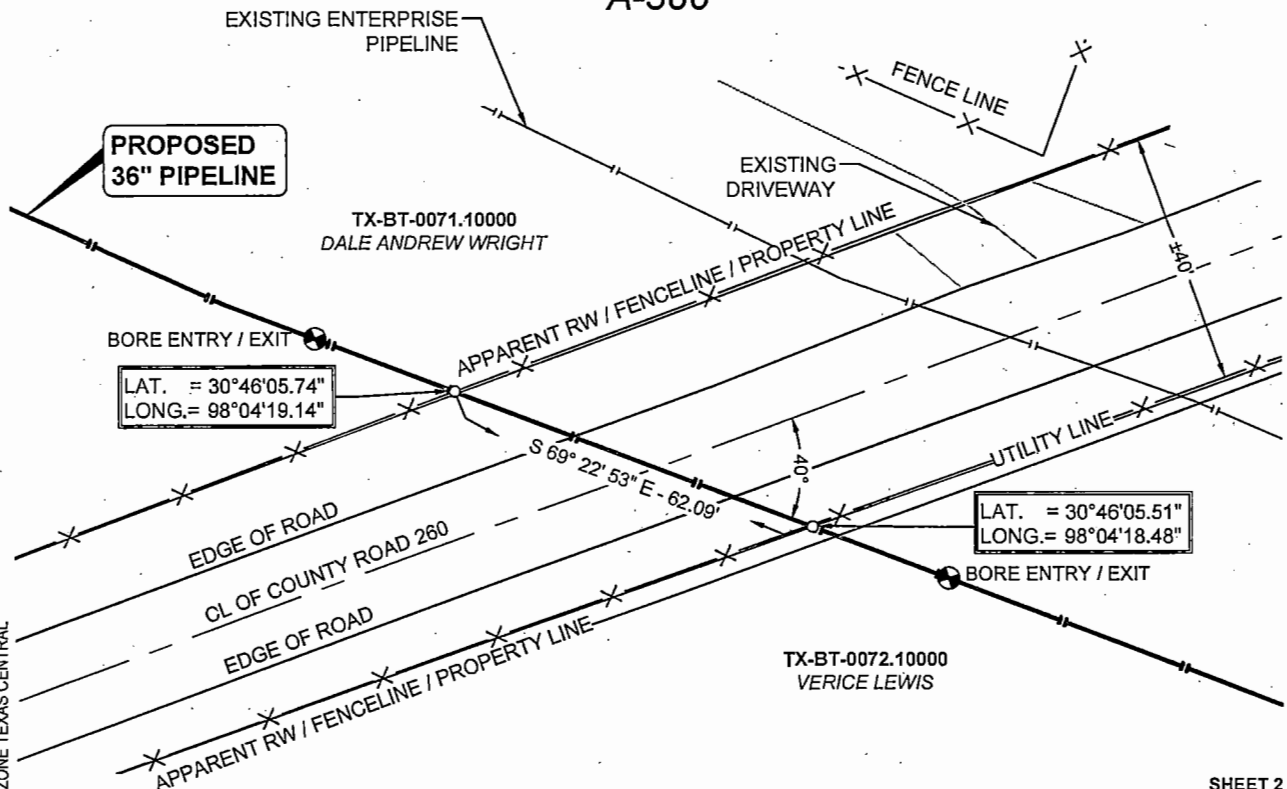
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

CONSTRUCTION METHOD:

BORE

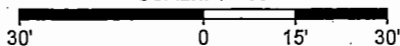


DAVID HARMON
A-386



NOTE:
THE PROPOSED 36" PIPELINE CROSSING WILL BE
LOCATED AT CR 260 APPROXIMATELY 0.73 MILES
SOUTH WESTERLY FROM ITS JUNCTION WITH FM
1174.

SCALE: 1"=30'



SHEET 2 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0071.10010
CROSSING COUNTY ROAD 260
DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB	REVISIONS		
CHIEF INSP.:	No. 0	DATE: 08/30/2019	REVISED BY: AMR
DATE: 08/30/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0071.10010_CR 260.dwg			



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PROPOSED 36" PIPELINE DESIGN DATA

1.0 GENERAL INFORMATION

- 1.1 APPLICANT/OWNER: M2E3 LLC
- 1.2 PIPELINE NAME: MIDLAND TO ECHO
- 1.3 PRODUCT: CRUDE OIL
- 1.4 PROPOSED CONSTRUCTION ACTIVITIES SCHEDULED FOR **September 2019 - June 2020**

2.0 PIPELINE DESIGN DATA

- 2.1 DESIGN CODES: THE DEPARTMENT OF ("DOT") STANDARD CFR TITLE 49, PART 195, "TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE" AND THE RAILROAD COMMISSION PIPELINE SAFETY RULES AND ASME API 1102, "STEEL PIPELINE CROSSING RAILROADS AND HIGHWAYS"
- 2.2 DESIGN PRESSURE: 1,300 psig
- 2.3 HYDROSTATIC TEST PRESSURE: 1,625 psig min./2,220 psig max
- 2.4 DESIGN FACTOR: 0.60
- 2.5 YIELD STRENGTH: 65,000 psi

3.0 CATHODIC PROTECTION

- 3.1 IMPRESSED CURRENT CATHODIC PROTECTION

4.0 CONSTRUCTION METHOD

- 4.1 PIPELINE WILL BE INSTALLED BY BORE.

5.0

BORE AND/OR HDD CARRIER LINE PIPE

- 5.1 OUTSIDE DIAMETER: 36.000"
- 5.2 PIPE MATERIAL: CARBON STEEL
- 5.3 SPECIFICATIONS AND GRADE OF MATERIAL: API-5L, X-65 PSL2
- 5.4 WALL THICKNESS: 0.688"
- 5.5 COATING: 14-16 mils FBE & 40 mils (Min.) ARO Coating

SHEET 3 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0071.10010
CROSSING COUNTY ROAD 260
DAVID HARMON SURVEY, A-386, BURNET COUNTY, TEXAS

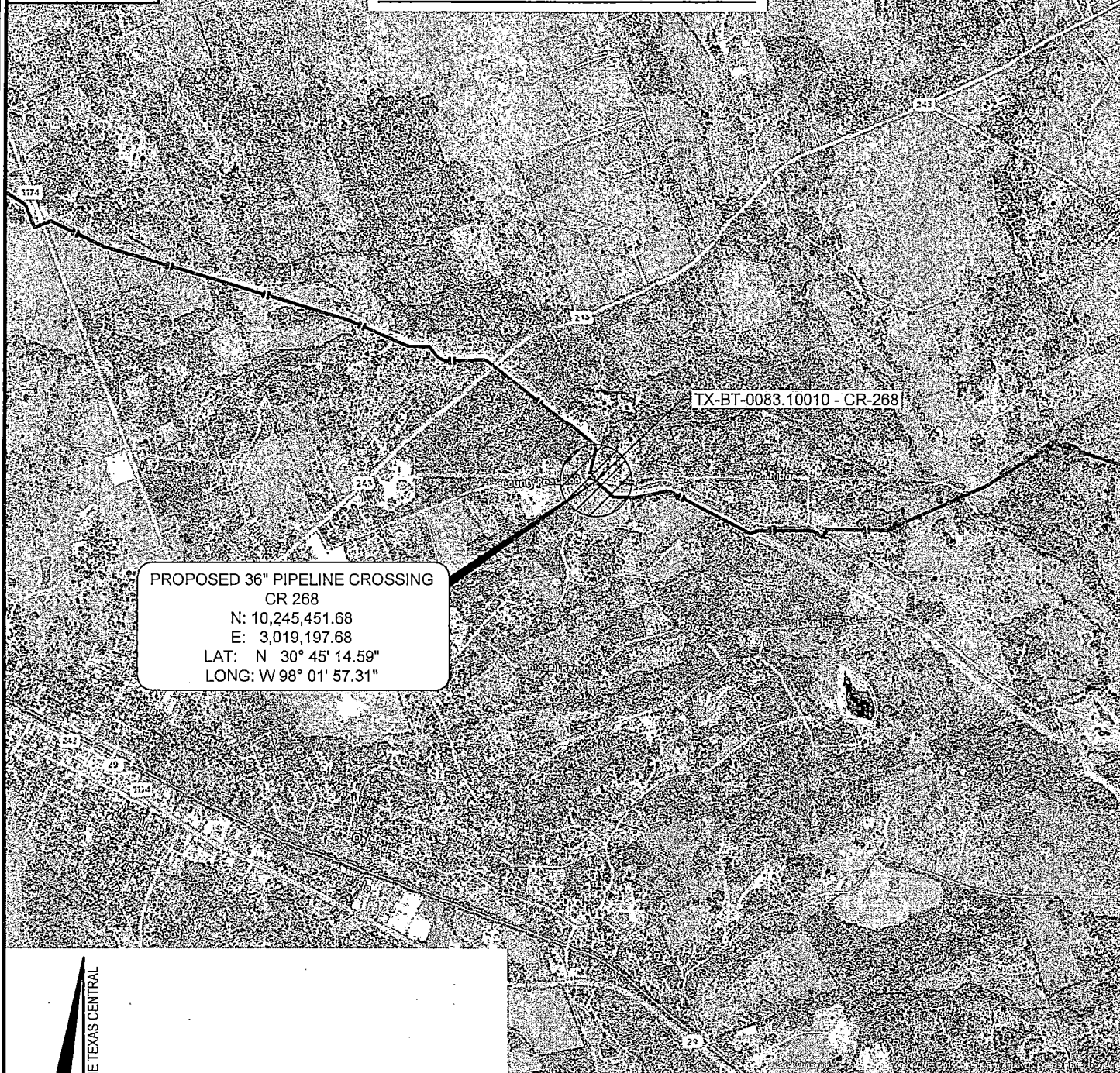


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PROJ. MGR.: LJB		REVISIONS	
CHIEF INSP.:	No. 0	DATE: 08/30/2019	REVISED BY: AMR
DATE: 08/30/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0071.10010_CR 260.dwg			

VICINITY MAP

BURNET COUNTY, TEXAS



PROPOSED 36" PIPELINE CROSSING
CR 268
N: 10,245,451.68
E: 3,019,197.68
LAT: N 30° 45' 14.59"
LONG: W 98° 01' 57.31"

SHEET 1 OF 3



SCALE: 1"=2000'

2000' 0 1000' 2000'



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M2E3 LLC MIDLAND TO ECHO PROPOSED 36" PIPELINE

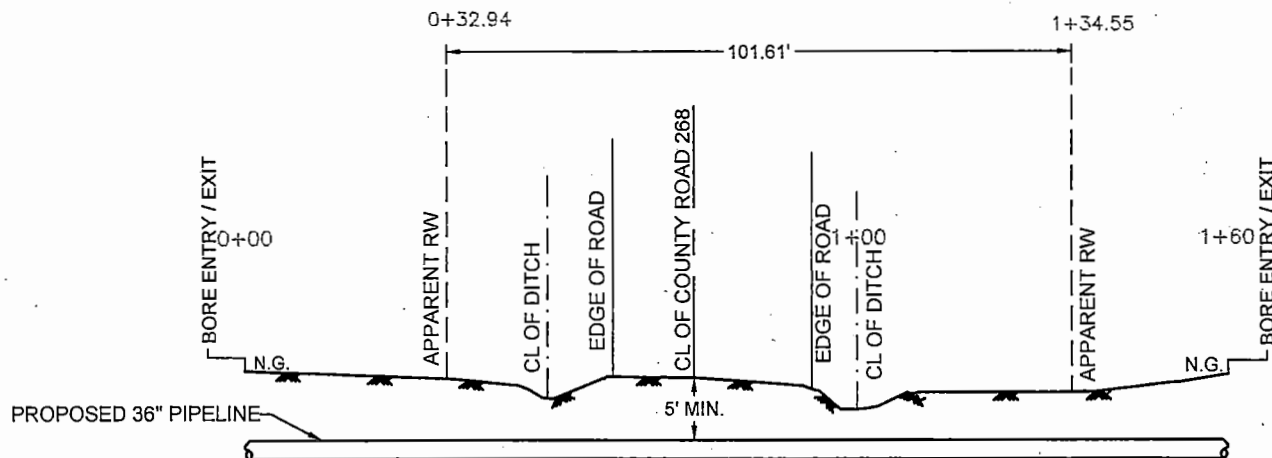
TX-BT-0083.10010
CROSSING COUNTY ROAD 268
BENJAMIN MCKINNEY SURVEY, A-580, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB		REVISIONS	
CHIEF INSP.:	No. 0	DATE: 08/30/2019	REVISED BY: AMR
DATE: 08/30/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190063\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0083.10010_CR 268.dwg			

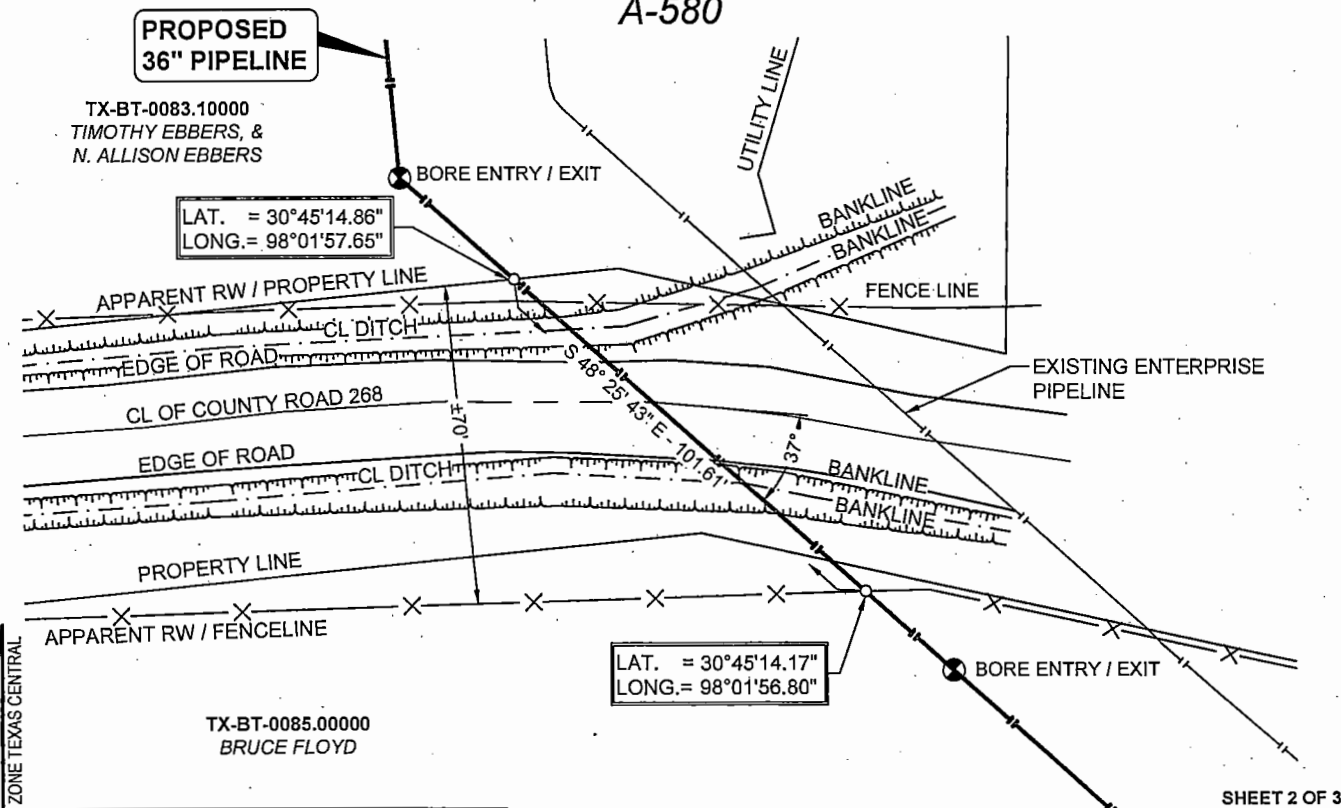
CROSS-SECTION

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

CONSTRUCTION METHOD:
BORE



BENJAMIN MCKINNEY A-580



NOTE:
THE PROPOSED 36" PIPELINE CROSSING WILL BE
LOCATED AT CR 268 APPROXIMATELY 0.08 MILES
EASTERLY FROM ITS JUNCTION WITH CR 269.

SCALE: 1"=40'

40' 0 20' 40'



NAD 83 (2011) ZONE TEXAS CENTRAL

SHEET 2 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE
TX-BT-0083.10010
CROSSING COUNTY ROAD 268
BENJAMIN MCKINNEY SURVEY, A-580, BURNET COUNTY, TEXAS

PROJ. MGR.: LJB	REVISIONS		
CHIEF INSP.:	No. 0	DATE: 08/30/2019	REVISED BY: AMR
DATE: 08/30/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET\CONTX-BT-0083.10010_CR 268.dwg			



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PROPOSED 36" PIPELINE DESIGN DATA

1.0 GENERAL INFORMATION

- 1.1 APPLICANT/OWNER: M2E3 LLC
- 1.2 PIPELINE NAME: MIDLAND TO ECHO
- 1.3 PRODUCT: CRUDE OIL
- 1.4 PROPOSED CONSTRUCTION ACTIVITIES SCHEDULED FOR **September 2019 - June 2020**

2.0 PIPELINE DESIGN DATA

- 2.1 DESIGN CODES: THE DEPARTMENT OF ("DOT") STANDARD CFR TITLE 49, PART 195, "TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE" AND THE RAILROAD COMMISSION PIPELINE SAFETY RULES AND ASME API 1102, "STEEL PIPELINE CROSSING RAILROADS AND HIGHWAYS"
- 2.2 DESIGN PRESSURE: 1,300 psig
- 2.3 HYDROSTATIC TEST PRESSURE: 1,625 psig min./2,220 psig max
- 2.4 DESIGN FACTOR: 0.60
- 2.5 YIELD STRENGTH: 65,000 psi

3.0 CATHODIC PROTECTION

- 3.1 IMPRESSED CURRENT CATHODIC PROTECTION

4.0 CONSTRUCTION METHOD

- 4.1 PIPELINE WILL BE INSTALLED BY BORE.

5.0

BORE AND/OR HDD CARRIER LINE PIPE

- 5.1 OUTSIDE DIAMETER: 36.000"
- 5.2 PIPE MATERIAL: CARBON STEEL
- 5.3 SPECIFICATIONS AND GRADE OF MATERIAL: API-5L, X-65 PSL2
- 5.4 WALL THICKNESS: 0.688"
- 5.5 COATING: 14-16 mils FBE & 40 mils (Min.) ARO Coating

SHEET 3 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE

TX-BT-0083.10010
CROSSING COUNTY ROAD 268
BENJAMIN MCKINNEY SURVEY, A-580, BURNET COUNTY, TEXAS

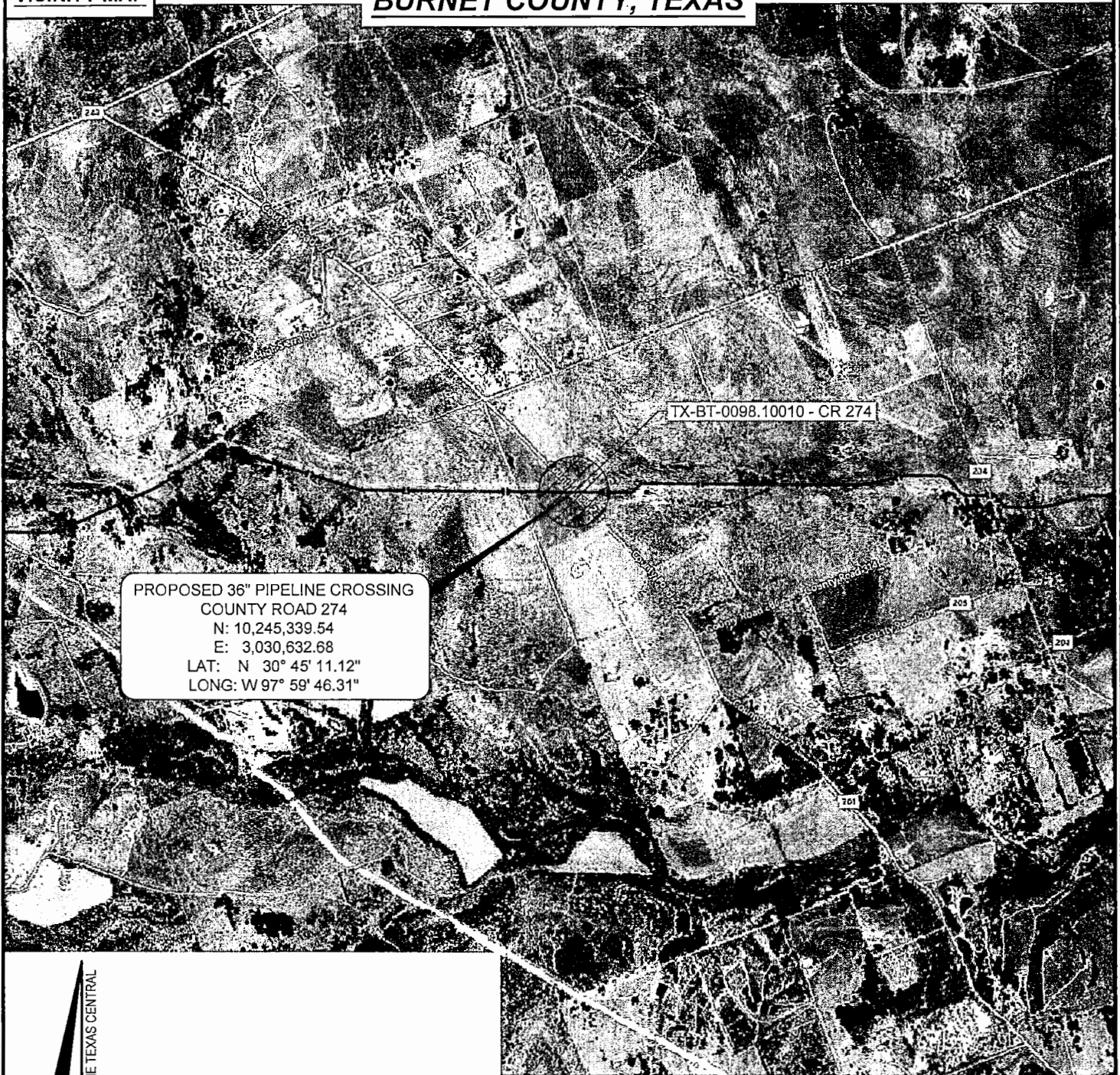


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Texas Firm No. 10028500

PROJ. MGR.: LJB		REVISIONS	
CHIEF INSP.:	No. 0	DATE: 08/30/2019	REVISED BY: AMR
DATE: 08/30/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0083.10010_CR 268.dwg			

VICINITY MAP

BURNET COUNTY, TEXAS



PROPOSED 36" PIPELINE CROSSING
COUNTY ROAD 274
N: 10,245,339.54
E: 3,030,632.68
LAT: N 30° 45' 11.12"
LONG: W 97° 59' 46.31"



Scale: 1" = 2000'

2000' 0 1000' 2000'

SHEET 1 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE

TX-BT-0098.10010
CROSSING COUNTY ROAD 274
WILLIAM E. MILLER SURVEY, A-578, BURNET COUNTY, TEXAS



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Texas Firm No. 10028500

PROJ. MGR.: LJB

REVISIONS

CHIEF INSP.:

No. 0

DATE: 08/29/2019

REVISED BY: JWF

DATE: 08/17/2019

No.

DATE:

REVISED BY:

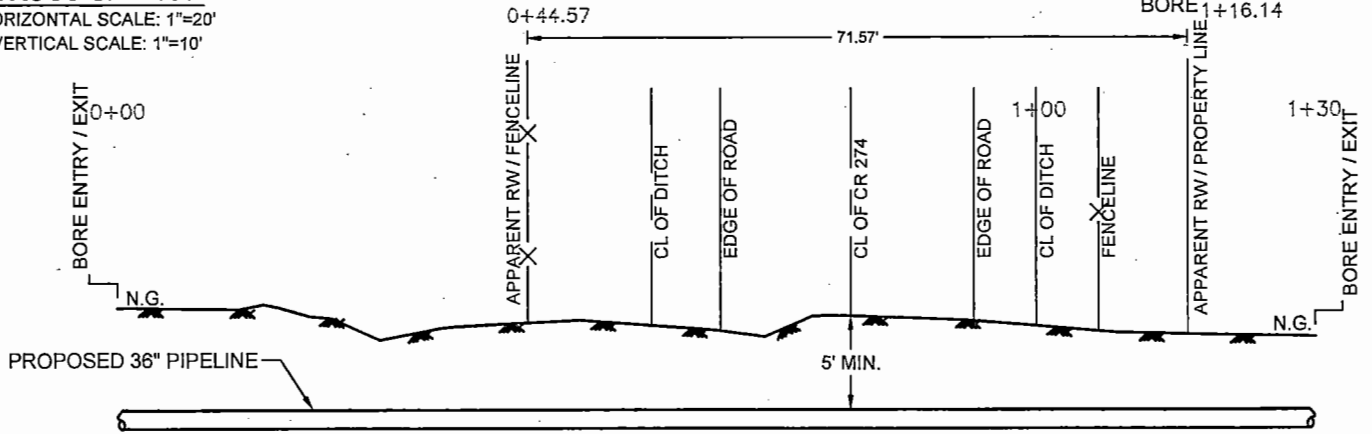
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CROSS-SECTION

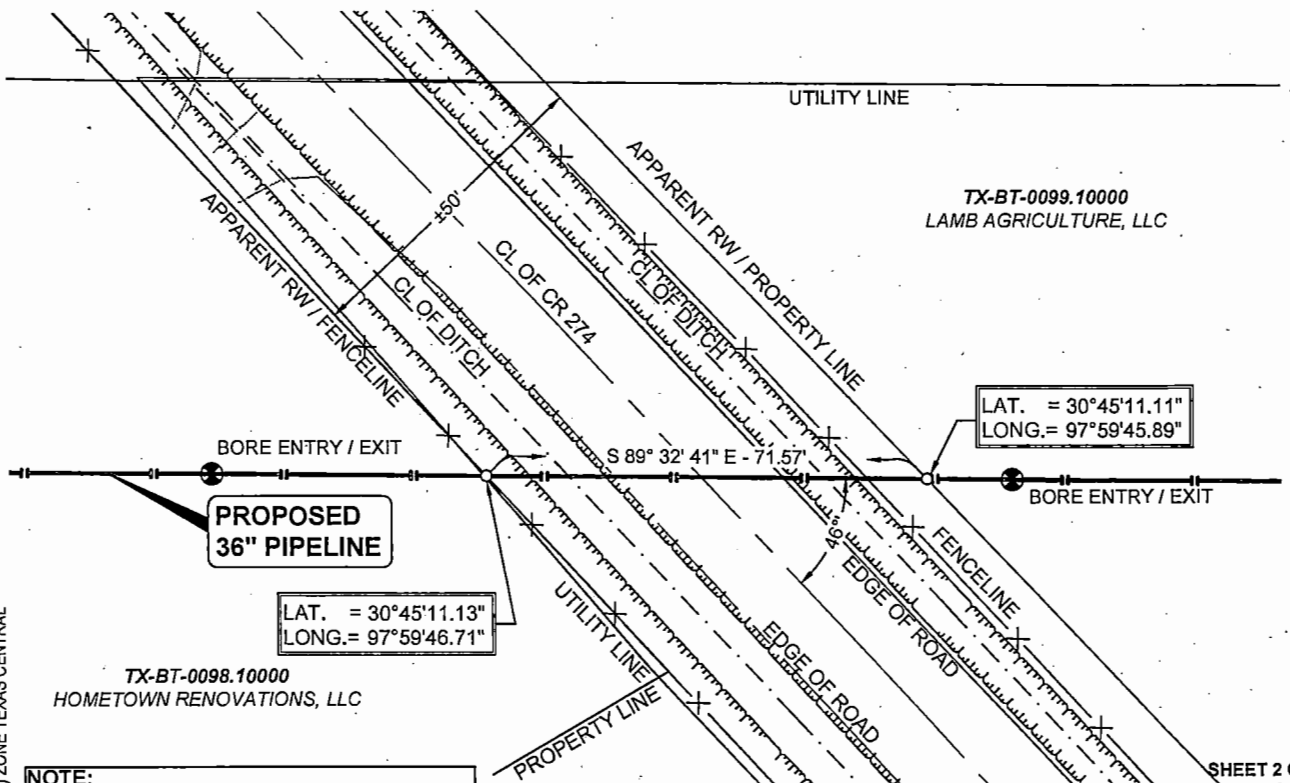
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

CONSTRUCTION METHOD:

BORE 1+16.14



WILLIAM E MILLER
A-578



NOTE:
THE PROPOSED 36" PIPELINE CROSSING WILL BE LOCATED AT COUNTY ROAD 274 APPROXIMATELY 0.34 MILES SOUTHERLY FROM IT'S JUNCTION WITH COUNTY ROAD 276.

NAD 83 (2011) ZONE TEXAS CENTRAL

TX-BT-0098.10000
HOMETOWN RENOVATIONS, LLC



SCALE: 1"=30'
30' 0 15' 30'



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M2E3 LLC MIDLAND TO ECHO PROPOSED 36" PIPELINE TX-BT-0098.10010 CROSSING COUNTY ROAD 274 WILLIAM E. MILLER SURVEY, A-578, BURNET COUNTY, TEXAS			
PROJ. MGR.: LJB	REVISIONS		
CHIEF INSP.:	No. 0	DATE: 08/29/2019	REVISED BY: JWF
DATE: 08/17/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET CO\TX-BT-0098.10010_CR 274.dwg			

SHEET 2 OF 3

PROPOSED 36" PIPELINE DESIGN DATA

1.0 GENERAL INFORMATION

- 1.1 APPLICANT/OWNER: M2E3 LLC
- 1.2 PIPELINE NAME: MIDLAND TO ECHO
- 1.3 PRODUCT: CRUDE OIL
- 1.4 PROPOSED CONSTRUCTION ACTIVITIES SCHEDULED FOR September 2019 - June 2020

2.0 PIPELINE DESIGN DATA

- 2.1 DESIGN CODES: THE DEPARTMENT OF ("DOT") STANDARD CFR TITLE 49, PART 195, "TRANSPORTATION OF HAZARDOUS LIQUIDS BY PIPELINE" AND THE RAILROAD COMMISSION PIPELINE SAFETY RULES AND ASME API 1102, "STEEL PIPELINE CROSSING RAILROADS AND HIGHWAYS"
- 2.2 DESIGN PRESSURE: 1,300 psig
- 2.3 HYDROSTATIC TEST PRESSURE: 1,625 psig min./2,220 psig max
- 2.4 DESIGN FACTOR: 0.60
- 2.5 YIELD STRENGTH: 65,000 psi

3.0 CATHODIC PROTECTION

- 3.1 IMPRESSED CURRENT CATHODIC PROTECTION

4.0 CONSTRUCTION METHOD

- 4.1 PIPELINE WILL BE INSTALLED BY BORE.

5.0

BORE AND/OR HDD CARRIER LINE PIPE

- 5.1 OUTSIDE DIAMETER: 36.000"
- 5.2 PIPE MATERIAL: CARBON STEEL
- 5.3 SPECIFICATIONS AND GRADE OF MATERIAL: API-5L, X-65 PSL2
- 5.4 WALL THICKNESS: 0.688"
- 5.5 COATING: 14-16 mils FBE & 40 mils (Min.) ARO Coating

SHEET 3 OF 3

M2E3 LLC
MIDLAND TO ECHO
PROPOSED 36" PIPELINE

TX-BT-0098.10010
CROSSING COUNTY ROAD 274
WILLIAM E. MILLER SURVEY, A-578, BURNET COUNTY, TEXAS



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Texas Firm No. 10028500

PROJ. MGR.: LJB	REVISIONS		
CHIEF INSP.:	No. 0	DATE: 08/29/2019	REVISED BY: JWF
DATE: 08/17/2019	No.	DATE:	REVISED BY:
FILENAME: T:\2019\2190093\DWG\CROSSING_FILES\ROADS\BURNET COTX-BT-0098.10010_CR 274.dwg			