

April 8, 2026

City of Norman – Stormwater Management Division
225 N. Webster
Norman, OK 73069

Attention: Mr. Jason Murphy, CFM

**RE: Oklahoma Natural Gas – Gas Main Extension
No-Rise Certification**

Dear Mr. Murphy:

Johnson & Associates, on behalf of Oklahoma Natural Gas Company, is submitting the following 'No-Rise' certification for a gas main extension in the area between N. Flood Avenue and N. Interstate Drive along proposed residential road (N.W. 28th Street), south of W. Franklin Road and north of Franklin Business Park. This extension crosses under FEMA Zone A encumbered Little River Tributary G in three locations identified with Crossing #1, #2, or #3. The entire project is located within the City of Norman, Cleveland County, Oklahoma, Sec. 11, T9N, R3W, of the I.M.

The project will extend a new 2" PE gas main pipe along N.W. 28th Avenue, from Franklin Business Park to N. Flood Avenue via a jack and bore operation. All ground disturbance proposed in this application, including ground elevations and landscaping cover, will be restored to pre-project conditions. The proposed alignment is defined and shown in the attached bore profile improvement plan.

A portion of the alignment crosses under the effective Little River Tributary G Zone A floodplain. The BFEs identified on the application is provided by USACE with Floodplain Crossing #1 location confirmed via the FEMA Estimated BFE website report. No BLE report was available for the Floodplain Crossing #2 and #3 locations. Below identifies the exact coordinates for each crossing. The methods and alignment of the proposed construction will have zero impact on the flow conveyance and will result in "no rise" to the flood elevations in the creek being crossed. Furthermore, no above-ground structures requiring protection from the 100-year flood event are proposed.

Floodplain Crossing #1:

Latitude & Longitude: 35.273035, -97.484607

Floodplain Crossing #2:

Latitude & Longitude: 35.275505, -97.484403

Mr. Jason Murphy, CFM
Oklahoma Natural Gas – Gas Main Extension
No-Rise Certification
April 8, 2026

Floodplain Crossing #3:

Latitude & Longitude: 35.275901, -97.483588

Based on the above, please issue the floodplain activity permit required for the development.

Respectfully submitted,



Tyler Muzny, P.E.
JOHNSON & ASSOCIATES

TM/ms

Attachment(s): Permit Application, FEMA excerpts, Estimated BFE Report, USACE BFE Determination, & Bore Profile Exhibit

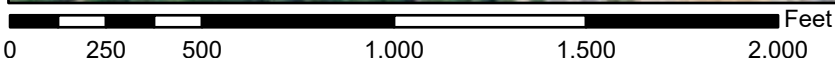
cc: Brian Rowe, CFM

Project # 12625/PER/Floodplain Development Permit

National Flood Hazard Layer FIRMette



97°29'23"W 35°16'47"N



1:6,000

97°28'45"W 35°16'17"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

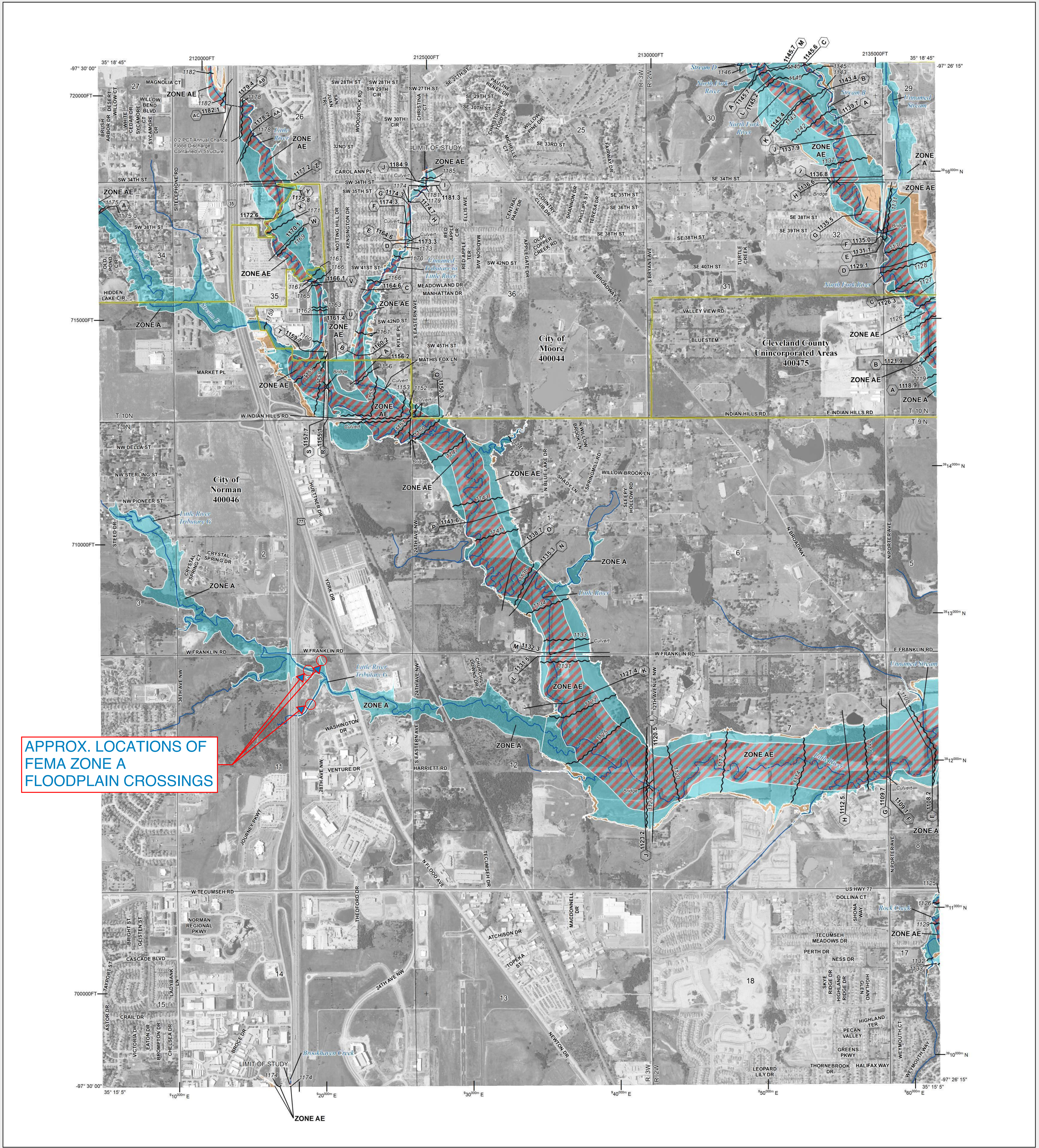


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/23/2026 at 7:20 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



APPROX. LOCATIONS OF FEMA ZONE A FLOODPLAIN CROSSINGS

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
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	Levee, Dike, or Floodwall
	Cross Sections with 1% Annual Chance Water Surface Elevation
	Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Flood Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

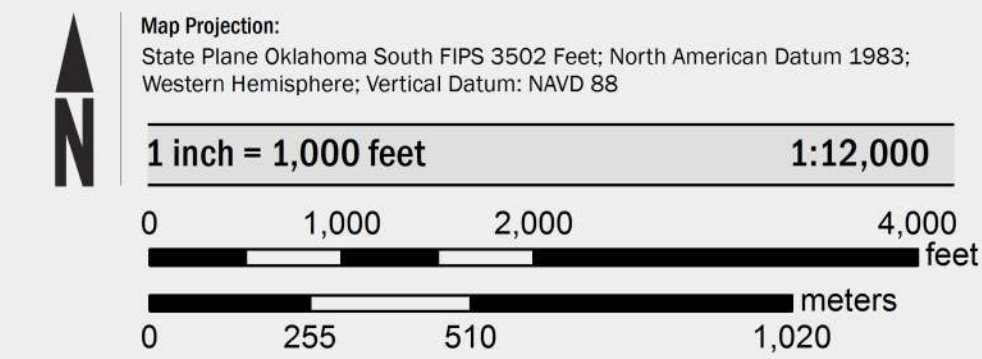
Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

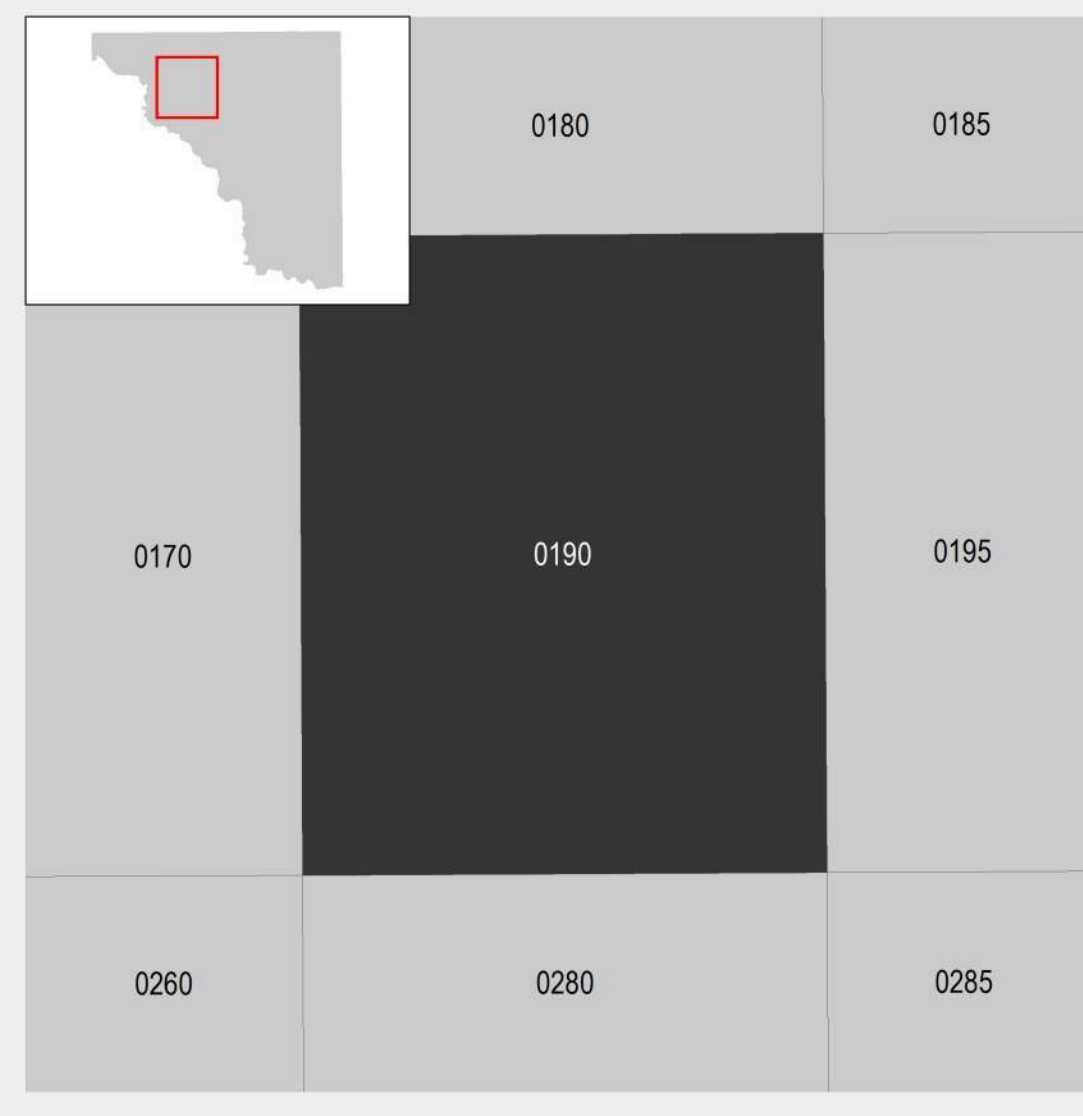
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on the FIRM was provided by U.S. Census Tiger Files (2016) and by U.S. Department of Agriculture Imagery (2018).

SCALE



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

CLEVELAND COUNTY, OKLAHOMA
 and Incorporated Areas

PANEL 190 OF 475

Panel Contains:

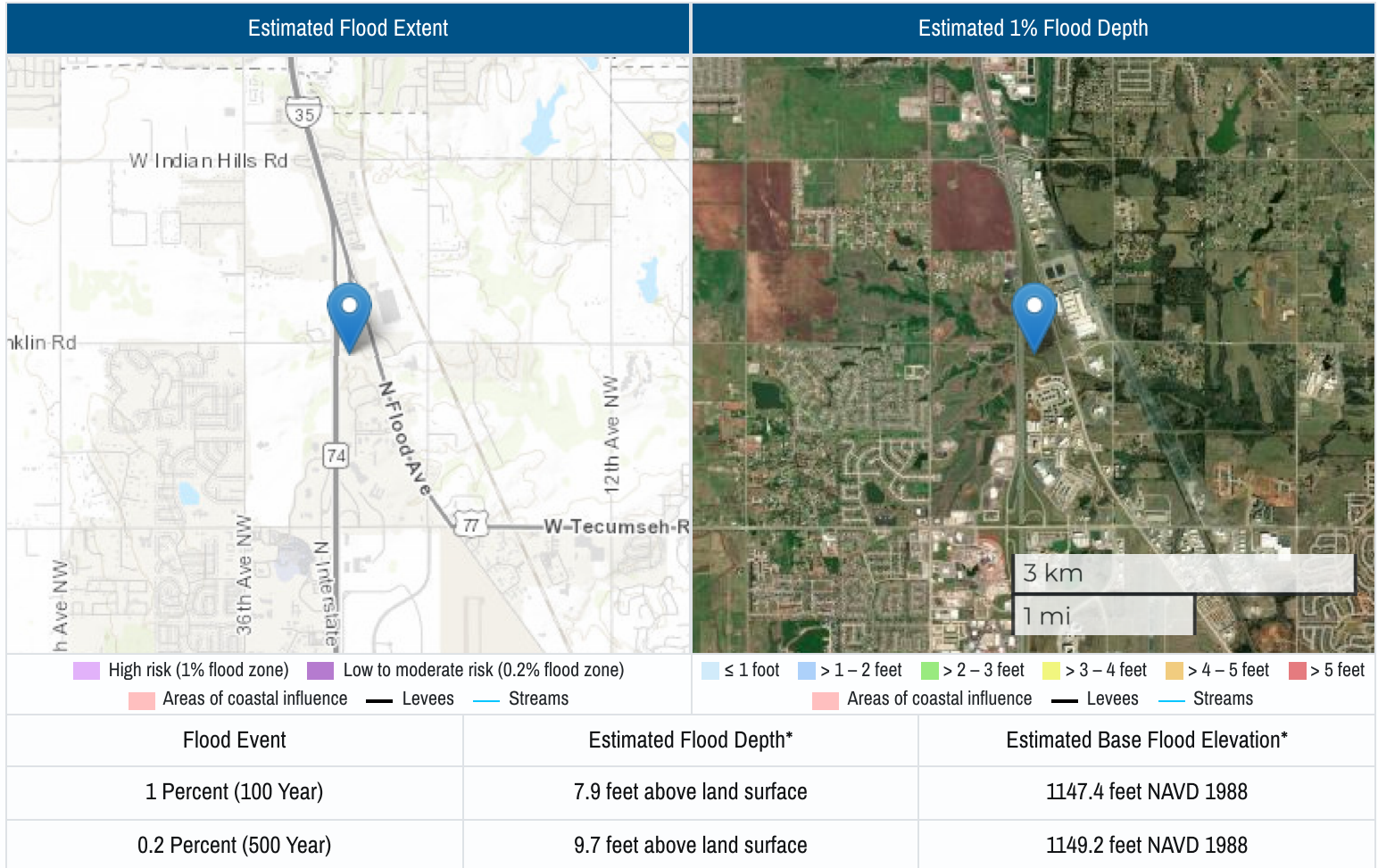
COMMUNITY	NUMBER	PANEL	SUFFIX
CLEVELAND COUNTY, UNINCORPORATED AREAS	400475	0190	K
MOORE, CITY OF	400044	0190	K
NORMAN, CITY OF	400046	0190	K

VERSION NUMBER
2.4.3.5

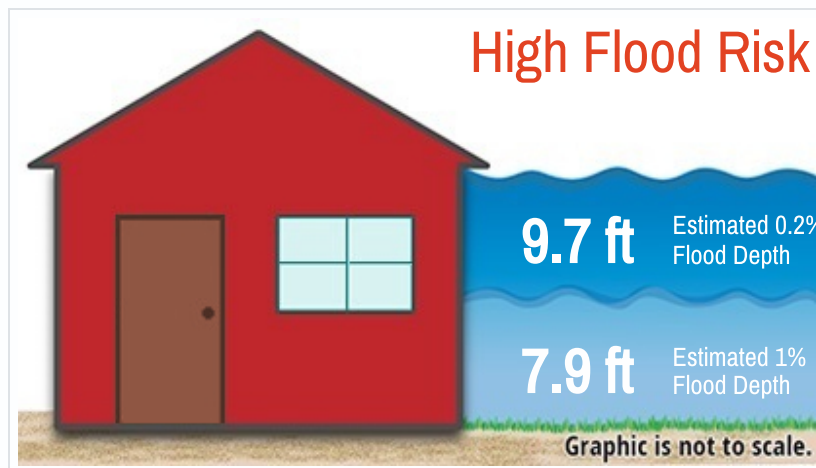
MAP NUMBER
40027C0190K

MAP REVISED
January 15, 2021

FEMA is providing a look at flood data availability and relative Base Level Engineering analysis through the Estimated Base Flood Elevation Viewer (Estimated BFE Viewer). Base Level Engineering uses high resolution ground elevation data, flood flow calculations, and fundamental engineering modeling techniques to define flood extents for streams. The viewer is an effective tool for property owners, community officials, and land developers to identify flood risk, estimated flood elevations, and flood depths for watersheds where Base Level Engineering has been prepared.



* The information included in this report is based on the location marker shown in the map. Results are not considered an official determination.



Knowing Your Risk

Information made available from the Estimated BFE Viewer provides hazard and risk awareness. Please consult your local Floodplain Administrator to better understand the estimated base flood elevation and how to take action.

Base Level Engineering data availability and analysis information is important because it can be used to:

- Inform floodplain management decisions and ordinance administration;
- Identify significant floodplain changes;
- Serve as base modeling for map revisions; and
- Support the Zone A BFE information for a Letter of Map Amendment (LOMA) request.

Using This Data

Consult the local floodplain manager and building department in your community before making any building or land modifications. Local officials may use this information to regulate development near flooding sources to create more flood-resilient communities. Local building and permitting requirements vary by community and are based on local decisions and ordinances.

Everyone is at risk. The chances of experiencing a flood can vary due to unevaluated conditions, such as the unstudied effects of community growth and development or intense storms uncharacteristic to historical trends. Maintaining or obtaining a flood insurance policy is essential to ensure a property owner is covered if a flood occurs. Visit <http://FloodSmart.gov> for more information on the costs of flooding and to locate an insurance agent in your area.

Base Level Engineering and the Estimated BFE Viewer tool help identify the BFE in effective Zone As. If a property owner believes that a structure is above or outside of the base flood extent in an effective Zone A, a LOMA request may be submitted and the flood risk report from the Estimated BFE Viewer should be included. To complete an application, use the online web-based tool or download the paper forms (<https://www.fema.gov/letter-map-changes>). Items needed to apply include the following:

- Copy of a **plat map** that identifies the property and includes the locality's recording information
- OR –
- Copy of the **property deed** with both locality's recording information and

the property's written legal description and a **parcel or tax map** identifying the location.

- **Elevation information** indicating the lowest adjacent grade to the building certified by a licensed land surveyor or registered professional engineer, except for buildings **clearly** shown outside the SFHA. If built recently, building permit files may contain this information. Note the professional may use the estimated BFE (estBFE) results for the BFE value on the elevation form or certificate.
- The **Estimated BFE flood risk information report** relative to the property indicating the estimated flood level and model.
- **A letter of acceptance and support from your local floodplain administrator** for the Estimated BFE information included in your report.

Please note other types of development may require additional documentation and possibly an application fee. A LOMA may result in removal of the SFHA designation and the Federal requirement for flood insurance. However, maintaining a flood policy may still be required by the lender. Flood insurance coverage to repair damage caused by flooding is available for areas outside the SFHA.

Taking Action

Floods can happen anywhere at any time, which is why it is important to be prepared and to take steps before a flood event to protect your property from costly damage. Mitigation measures to consider include the following:

- **Elevating.** Elevating the lowest floor of new or existing buildings above the BFE reduces risk and may lower flood insurance premiums.
- **Interior Modification.** Raising the equipment servicing the building or infilling basements susceptible to flooding.
- **Dry Floodproofing.** Sealing your structure to prevent floodwaters from entering. Residential property insurance is not reduced if dry floodproofing is used. Only commercial properties receive reduced flood insurance when dry floodproofing is used.
- **Wet Floodproofing and Flood Vents.** Making portion of a building more resistant to flood damage or, in some cases, allowing water to enter during a flood to prevent damages by equalizing pressure on walls and foundations.

Deciding on the right method to mitigate future damage and loss requires an assessment of various factors: the hazards to your home, permit requirements, the technical limitations of the methods, and cost.

Discuss the potential mitigation options with your local floodplain administrator and building department to determine the next appropriate steps.



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, TULSA DISTRICT
2488 EAST 81ST STREET
TULSA, OKLAHOMA 74137-4290

Engineering and Construction Division
Hydraulics and Hydrology Branch (12th Floor)
Floodplain Management Services (12-32)

23 February 2026

Johnson & Associates
Att: Mrs. Diana Phan, P.E.
1 E Sheridan Ave., Suite 200
Oklahoma City, OK 73104

RE: 35.273035^O N, -97.484607^O W – 4291 28th Ave., #1
NW ¼, NE ¼, Sec. 11 T9N R3W Indian Meridian
Norman, Cleveland County, Oklahoma, 73069

Dear Mrs. Phan,

This is in response to your request to develop a Base Flood Elevation (BFE) for property located in the Northwest Quarter of the Northeast Quarter of Section 11 Township-9-North Range-3-West of the Indian Meridian, in Cleveland County, Oklahoma.

The current Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) 40027C0190K (community-panel 400046) effective January 15, 2021, indicates the property is in Zone A (the 100-year floodplain of an Unnamed Tributary of the Little River).

We have determined that the Base Flood Elevation for this property to be **1,149.9** feet NAVD 88 (North American Vertical Datum). This base flood elevation was determined using acceptable guidelines by the Oklahoma Department of Transportation, outlined in FEMA 265, but should not be considered a detailed hydraulic analysis. To officially remove structures from flood insurance requirements, a Letter of Map Change ([LOMC](#)) can be obtained from FEMA if the lowest floor elevation is above the BFE either by mail or online. Any development on this property must be constructed too local floodplain regulations.

Please retain this letter and a copy of the payment confirmation from [Pay.gov - United States Army Corps of Engineers Finance Center](#) for your records. The payment is valid for the life of property. If another BFE is needed or if you have any questions, please call Floodplain Management Services at 918-669-4360 or email Travis.s.wilsey@usace.army.mil.

Sincerely,

A handwritten signature in black ink that reads "Travis Wilsey".

TRAVIS WILSEY E.I., C.F.M.
USACE SWT Floodplain Management Services



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, TULSA DISTRICT
2488 EAST 81ST STREET
TULSA, OKLAHOMA 74137-4290

Engineering and Construction Division
Hydraulics and Hydrology Branch (12th Floor)
Floodplain Management Services (12-32)

23 February 2026

Johnson & Associates
Att: Mrs. Diana Phan, P.E.
1 E Sheridan Ave., Suite 200
Oklahoma City, OK 73104

RE: 35.275505^o N, -97.484403^o W – 4291 28th Ave., #2
NW ¼, NE ¼, Sec. 11 T9N R3W Indian Meridian
Norman, Cleveland County, Oklahoma, 73069

Dear Mrs. Phan,

This is in response to your request to develop a Base Flood Elevation (BFE) for property located in the Northwest Quarter of the Northeast Quarter of Section 11 Township-9-North Range-3-West of the Indian Meridian, in Cleveland County, Oklahoma.

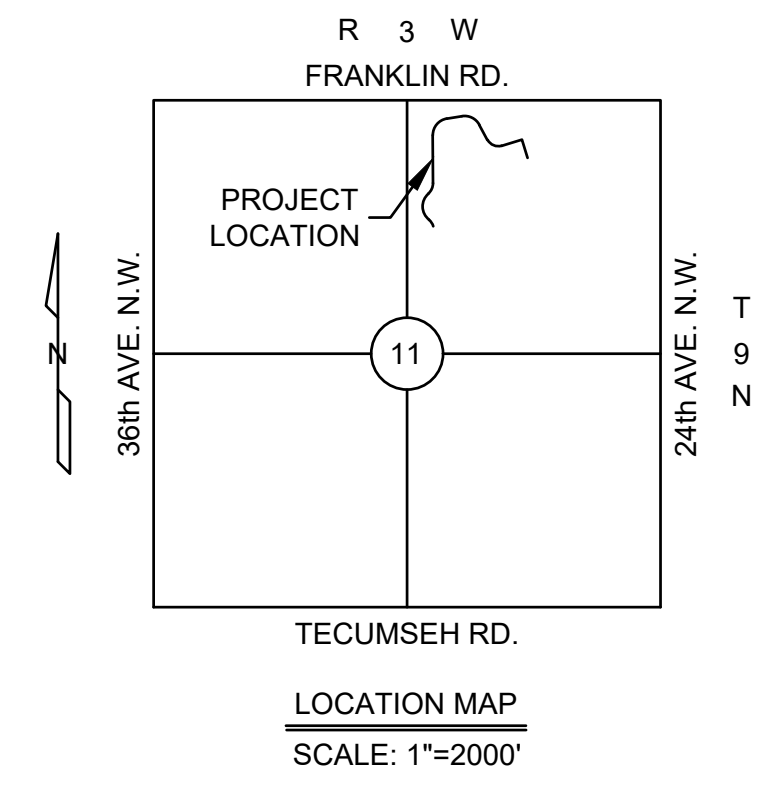
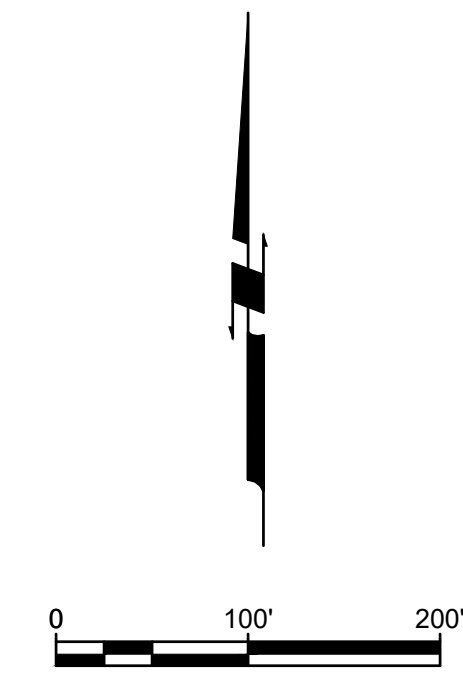
The current Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) 40027C0190K (community-panel 400046) effective January 15, 2021, indicates the property is in Zone A (the 100-year floodplain of an Unnamed Tributary of the Little River).

We have determined that the Base Flood Elevation for this property to be **1,147.4** feet NAVD 88 (North American Vertical Datum). This base flood elevation was determined using acceptable guidelines by the Oklahoma Department of Transportation, outlined in FEMA 265, but should not be considered a detailed hydraulic analysis. To officially remove structures from flood insurance requirements, a Letter of Map Change ([LOMC](#)) can be obtained from FEMA if the lowest floor elevation is above the BFE either by mail or online. Any development on this property must be constructed too local floodplain regulations.

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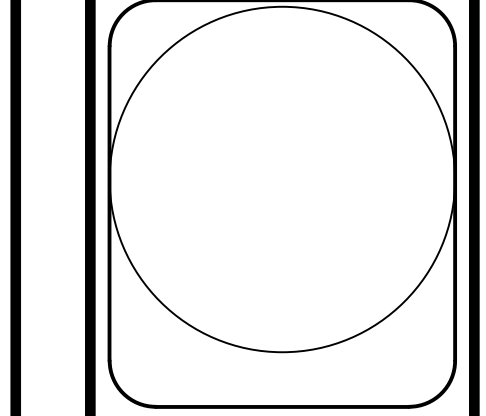
TRAVIS WILSEY E.I., C.F.M.
USACE SWT Floodplain Management Services



LEGEND	
	FEMA 100 YR FLOODPLAIN
	PROP. 2" PE GAS MAIN EXTENSION (BORE)
	PROP. 2" PE GAS MAIN EXTENSION (TRENCH)

- NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING FIELD CONDITIONS AND THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK.
 2. WHILE REASONABLE EFFORTS HAVE BEEN MADE TO DEPICT EXISTING UTILITIES AND CONDITIONS BASED ON AVAILABLE RECORDS AND FIELD INVESTIGATIONS, THE PREPARER OF THESE PLANS MAKES NO GUARANTEES, WARRANTIES, OR REPRESENTATIONS AS TO THE COMPLETENESS, ACCURACY, OR EXACT LOCATION OF SUCH ITEMS.
 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES OR CONFLICTS IN THE FIELD AND SHALL NOT PROCEED WITH AFFECTED WORK UNTIL FURTHER DIRECTION IS PROVIDED.
 4. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO PRE-PROJECT CONDITIONS, INCLUDING ORIGINAL ELEVATIONS, GRADES, CONTOURS, AND VEGETATION, IN ACCORDANCE WITH LOCAL FLOODPLAIN DEVELOPMENT REGULATIONS, FEMA NATIONAL FLOOD INSURANCE PROGRAM REQUIREMENTS (44 CFR PART 60), AND THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) CONSTRUCTION GENERAL PERMIT OKR10 ADMINISTERED BY THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ)
 5. THE GAS MAIN CONDUIT USED IS AT LEAST ONE GRADE HIGHER THAN WHAT IS REQUIRED FOR THIS LINE TYPE. THE WALL THICKNESS IS 0.216" AND IS THE LATEST INDUSTRY STANDARD FOR PRESSURE GAS MAINS.

NO.	REVISIONS DESCRIPTION	DATE

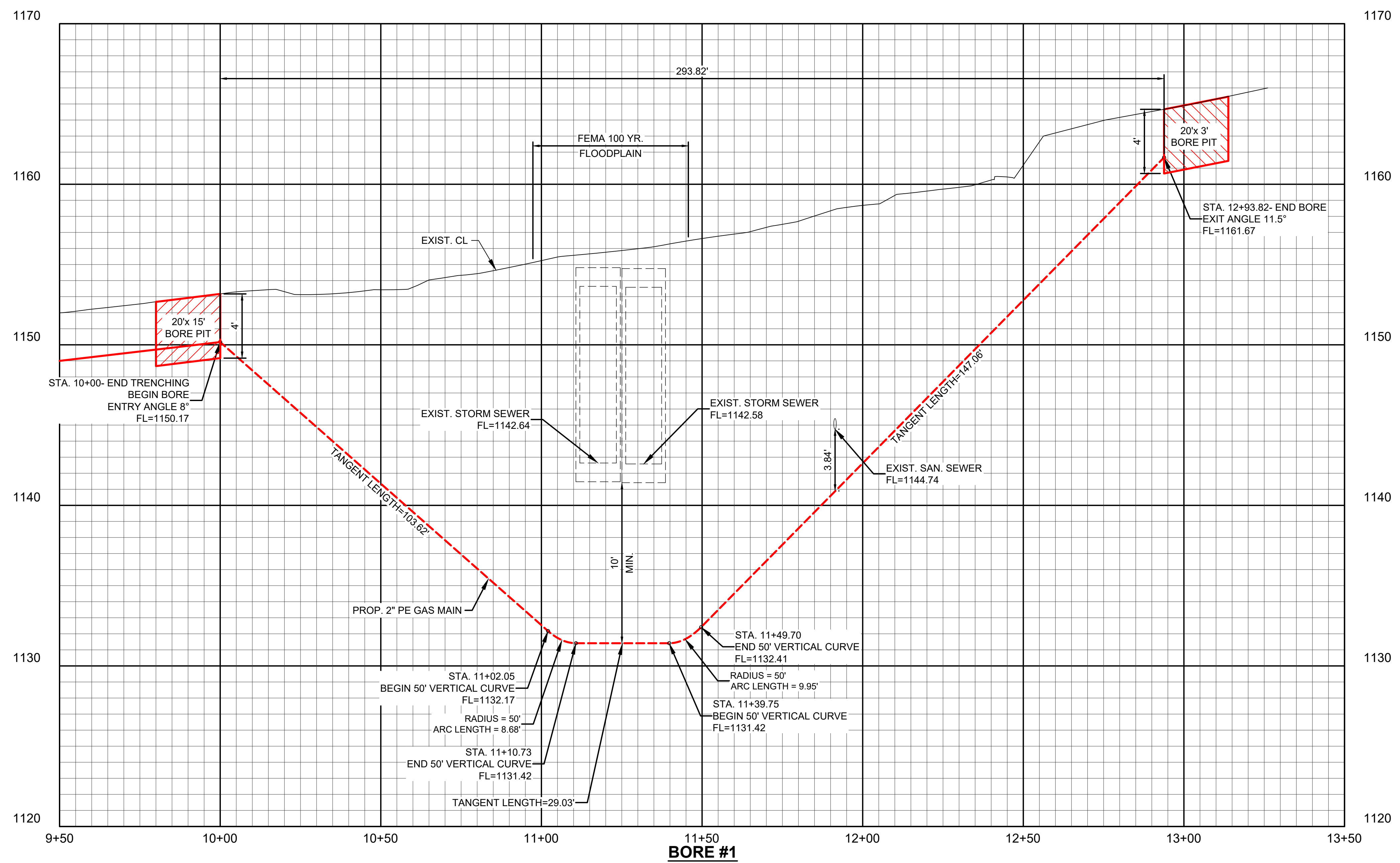
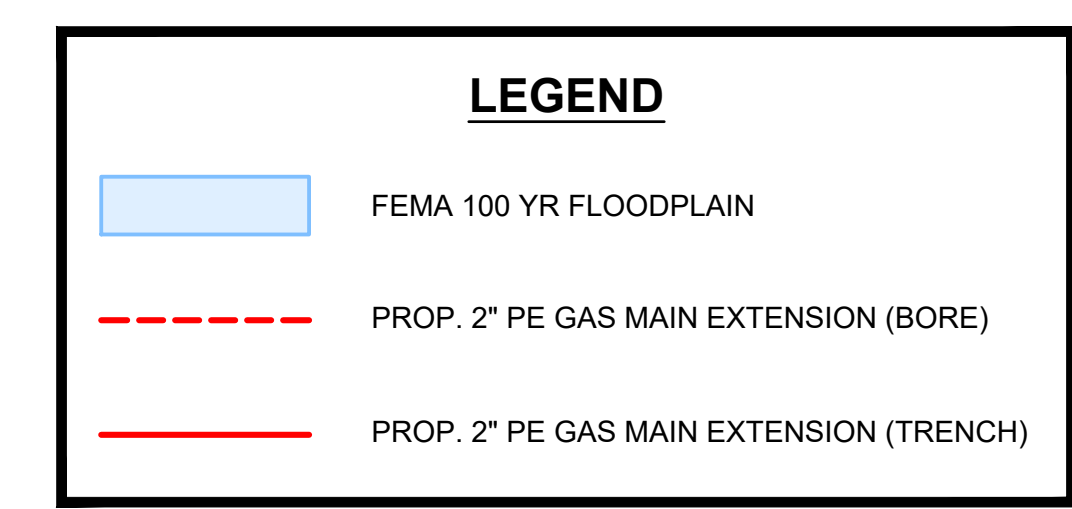
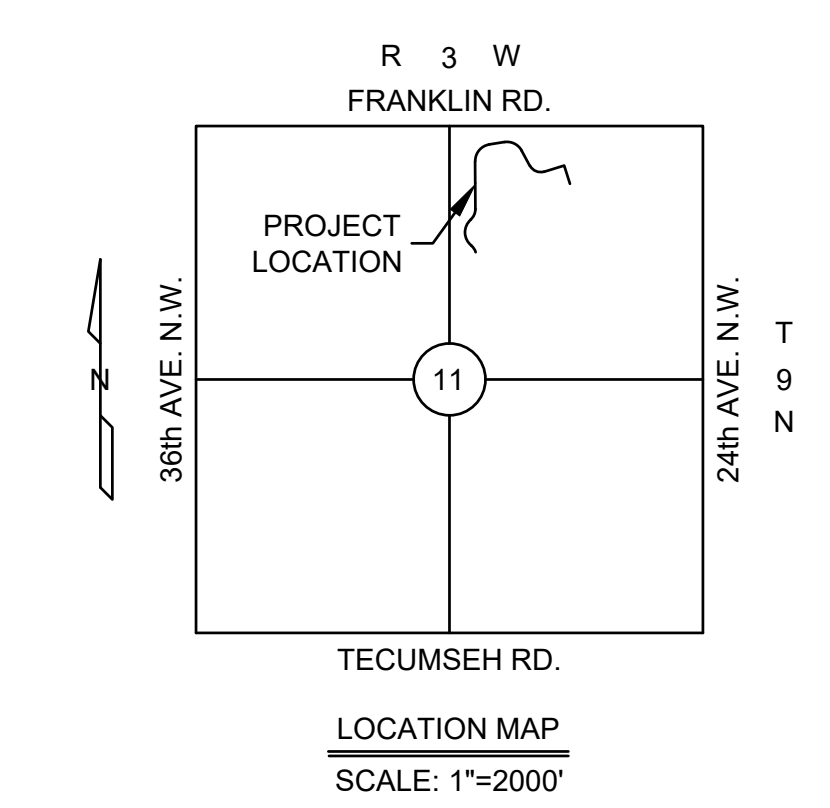
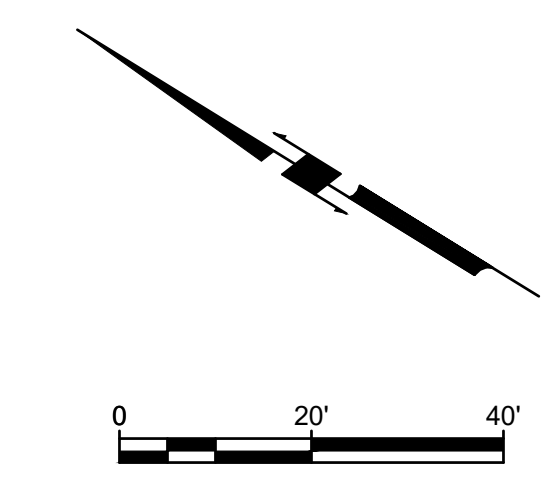
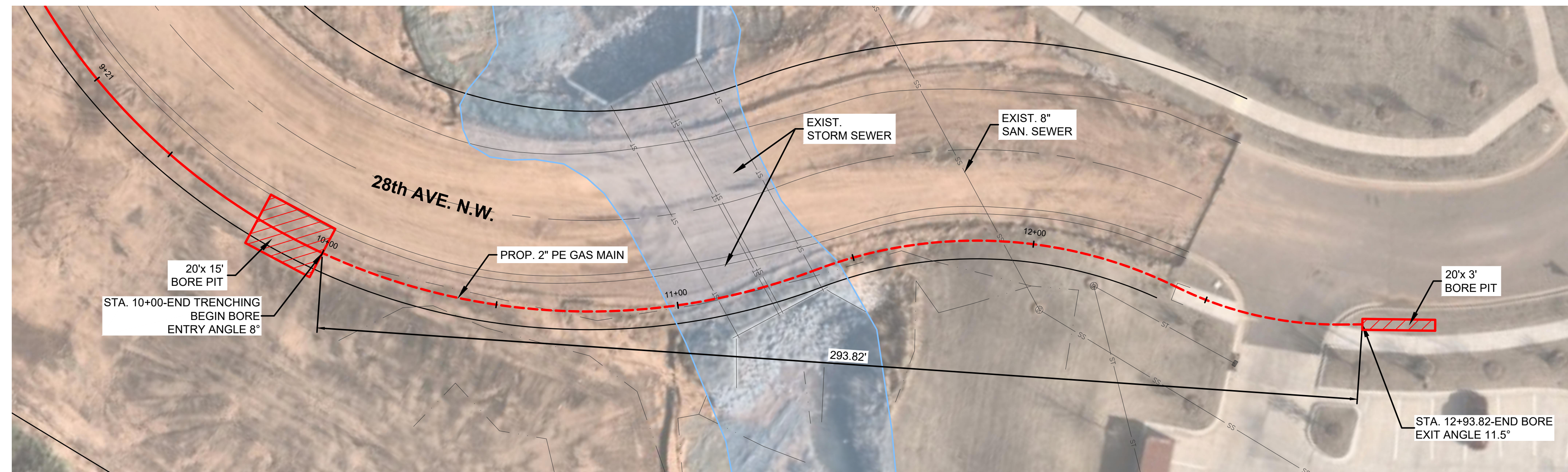


Johnson & Associates
 1 E. Sheridan Ave., Suite 200
 Oklahoma City, OK 73104
 (405) 235-8075 FAX: (405) 235-8078 www.jacac.com
 Certificate of Authorization #1484 Exp. Date: 05-31-2027
 ENGINEERS SURVEYORS PLANNERS

OKLAHOMA NATURAL GAS CO.
 NORMAN, CLEVELAND COUNTY, OKLAHOMA
GENERAL LAYOUT

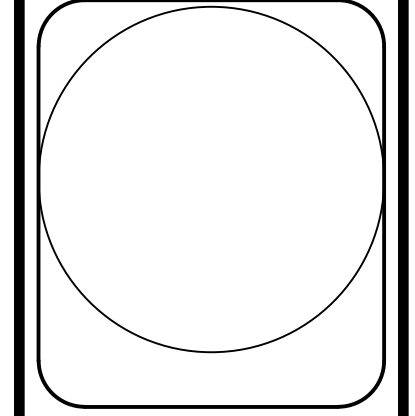
Proj. No.:	04-08-26
Date:	11-10-07
Scale:	1"=100'
Checked By:	
Approved By:	

SHEET NUMBER
EX1



- NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING FIELD CONDITIONS AND THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK.
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 5. THE GAS MAIN CONDUIT USED IS AT LEAST ONE GRADE HIGHER THAN WHAT IS REQUIRED FOR THIS LINE TYPE. THE WALL THICKNESS IS 0.216" AND IS THE LATEST INDUSTRY STANDARD FOR PRESSURE GAS MAINS.

NO.	REVISIONS DESCRIPTION	DATE



Johnson & Associates
 1 E. Sheridan Ave., Suite 200
 Oklahoma City, OK 73104
 (405) 232-8075 FAX: (405) 232-8078 www.jacac.com
 Certificate of Authorization #1464 Exp. Date: 05-31-2027

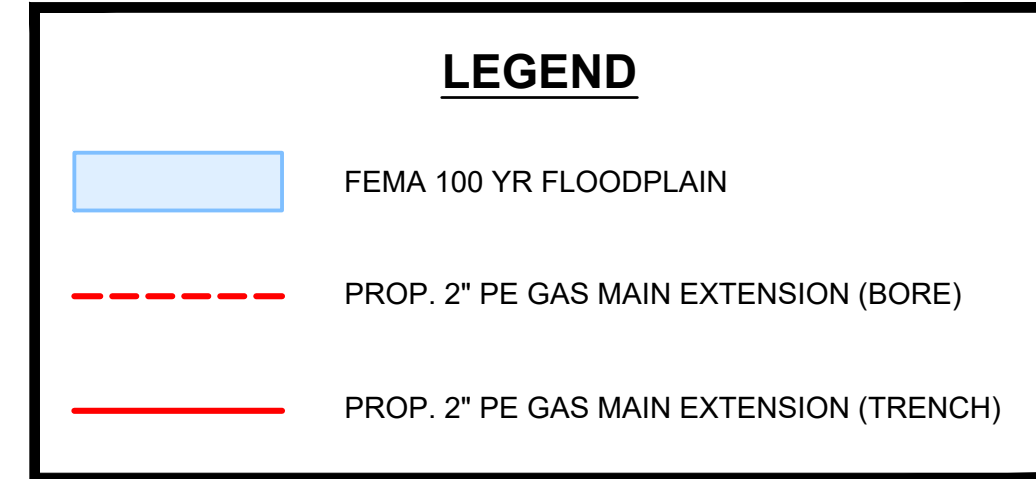
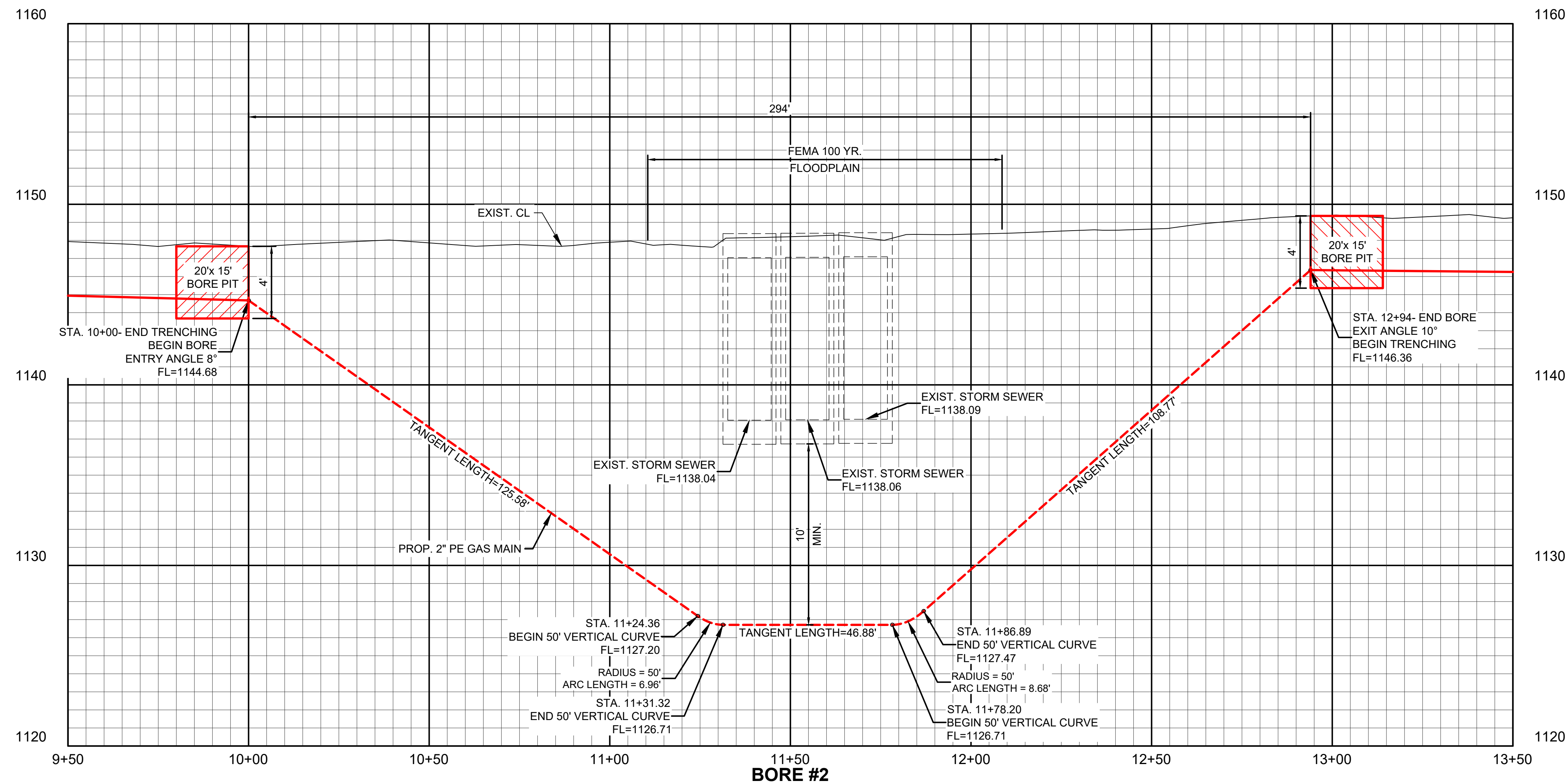
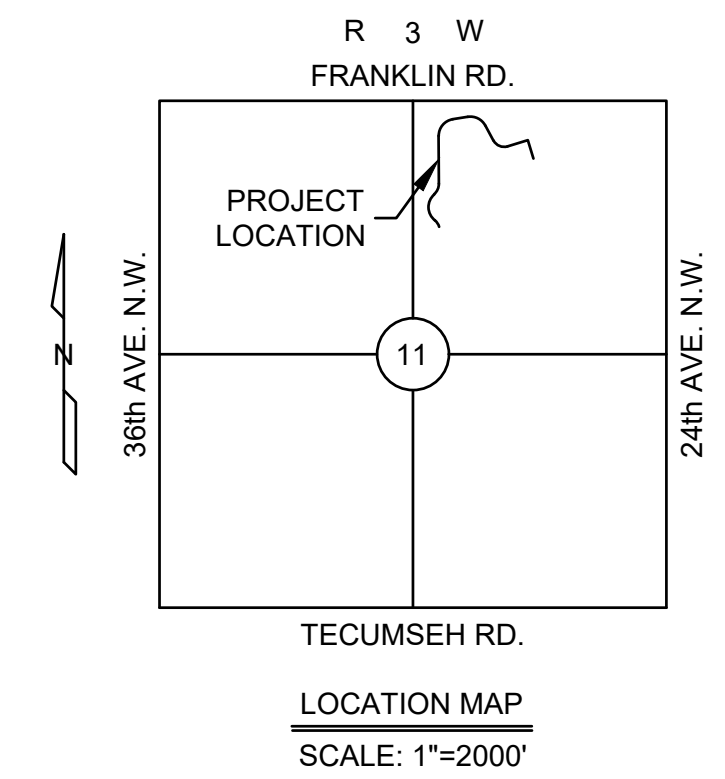
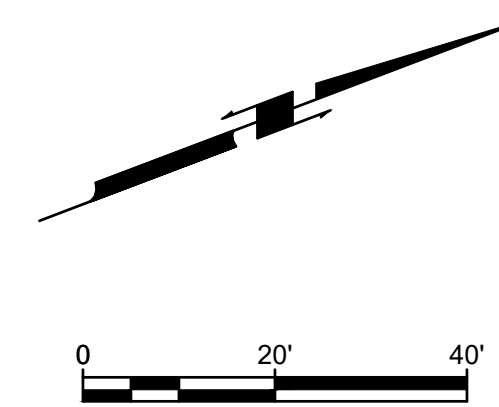
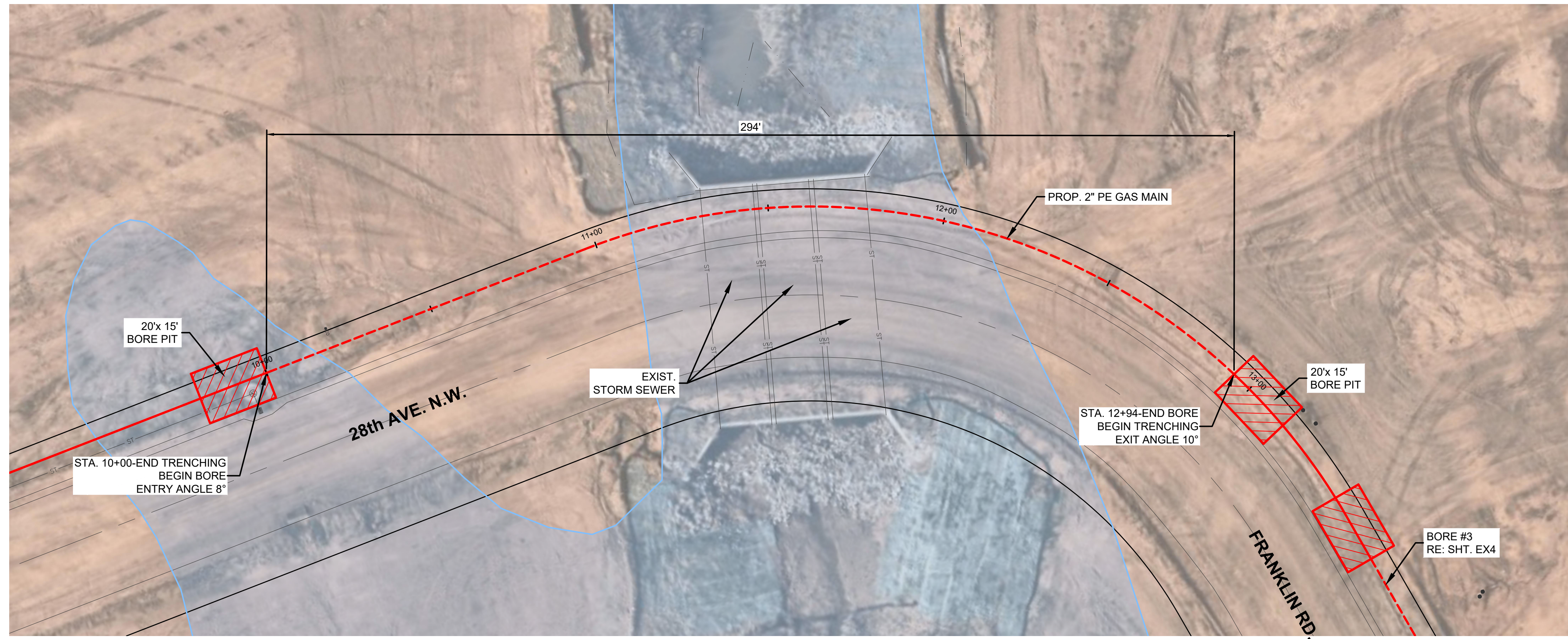
• ENGINEERS • SURVEYORS • PLANNERS •

OKLAHOMA NATURAL GAS CO.
 NORMAN, CLEVELAND COUNTY, OKLAHOMA

BORE #1 PLAN & PROFILE

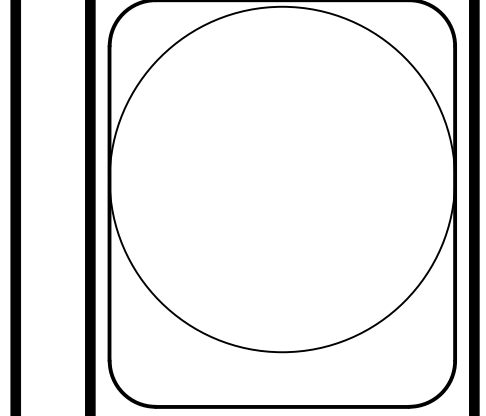
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 Date: 04-08-26
 Scale: (Horiz.) 1"=20'
 (Vert.) 1"=4'
 Checked By: _____
 Approved By: _____

SHEET NUMBER
EX2

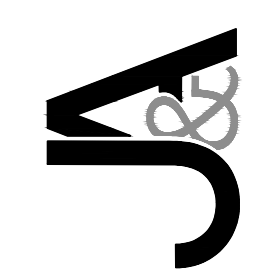


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NO.	REVISIONS DESCRIPTION	DATE



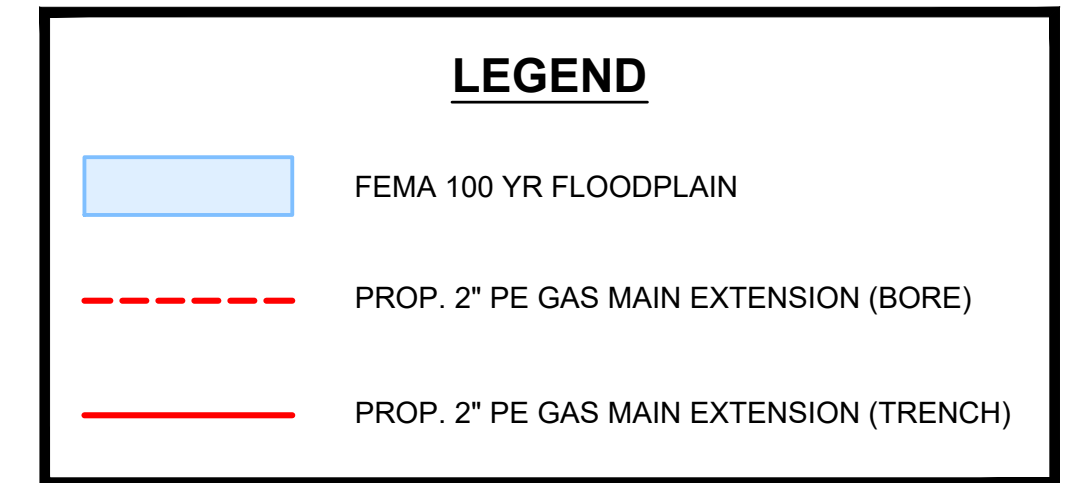
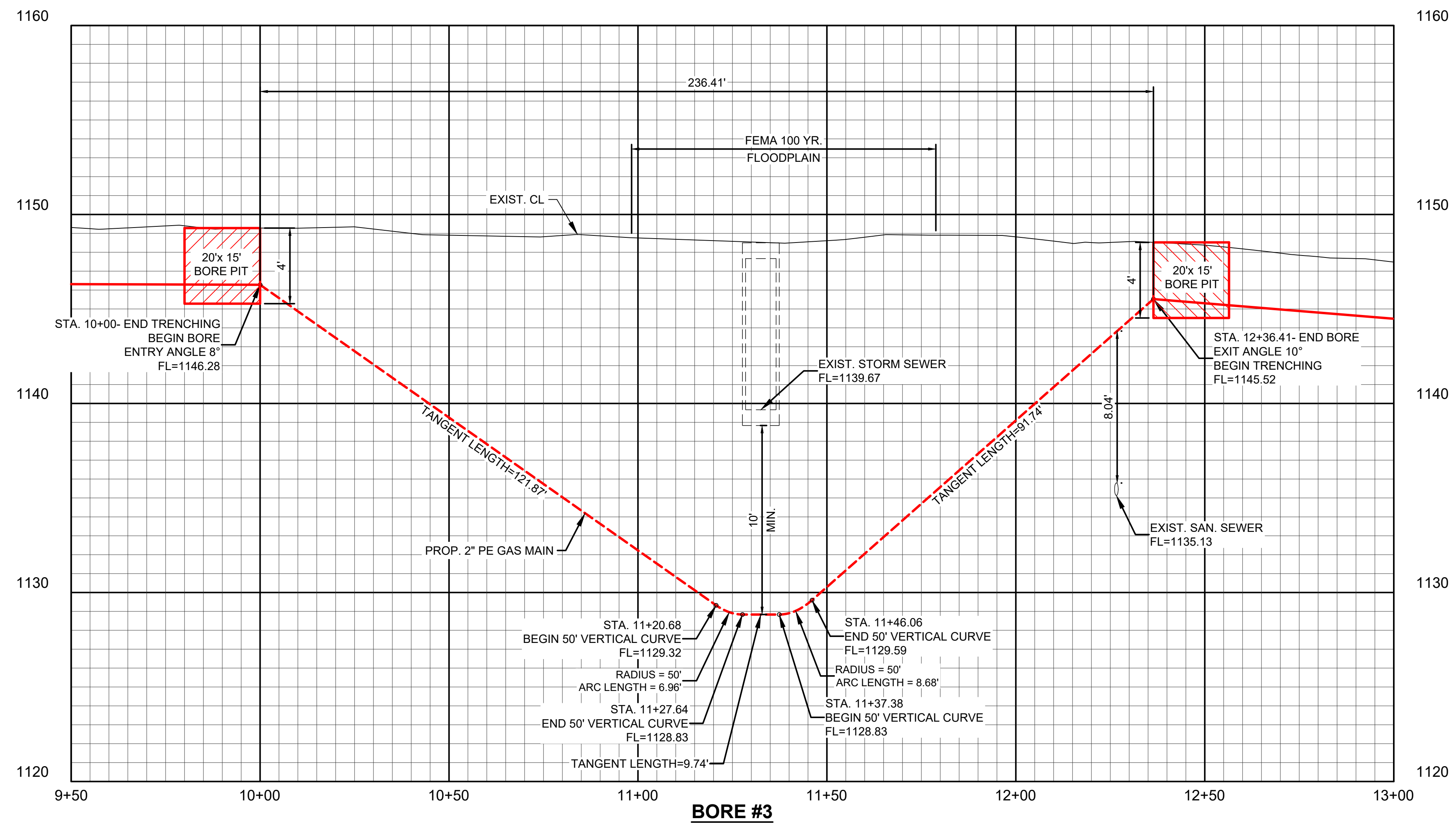
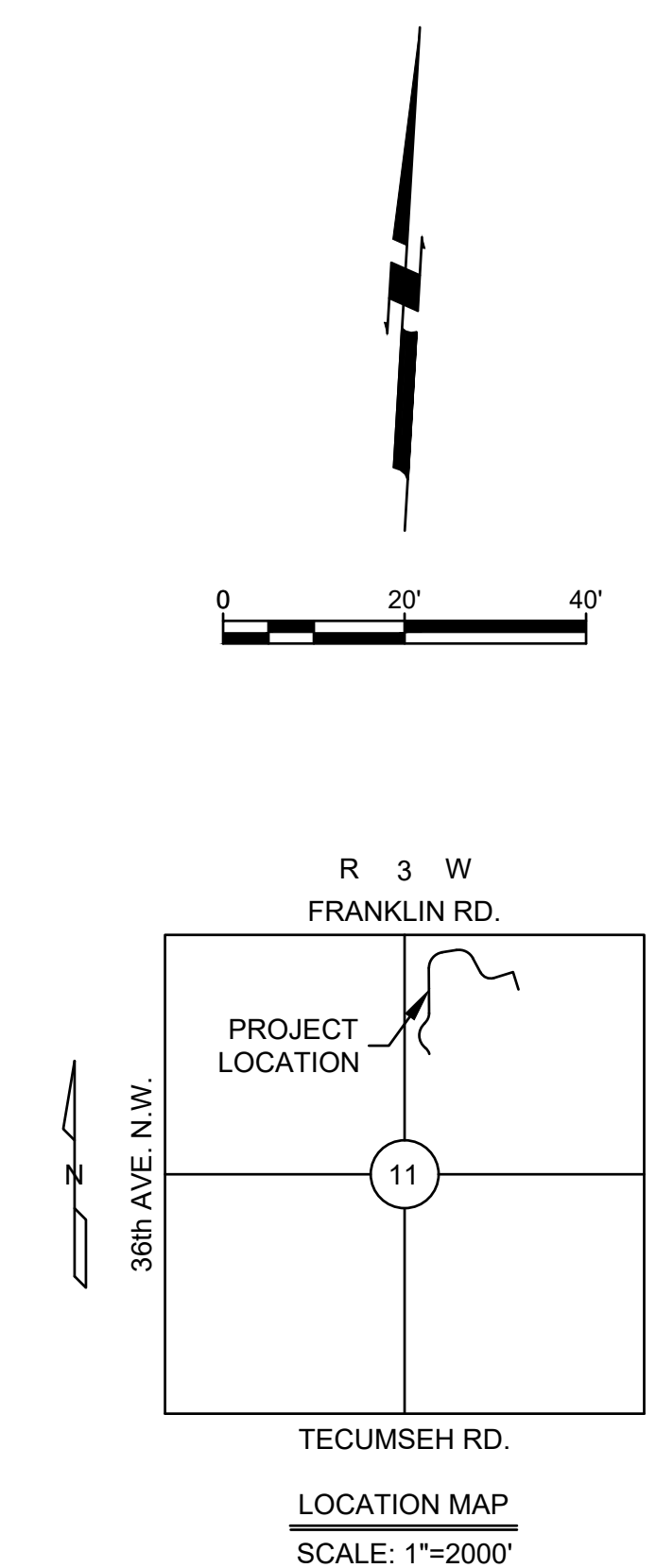
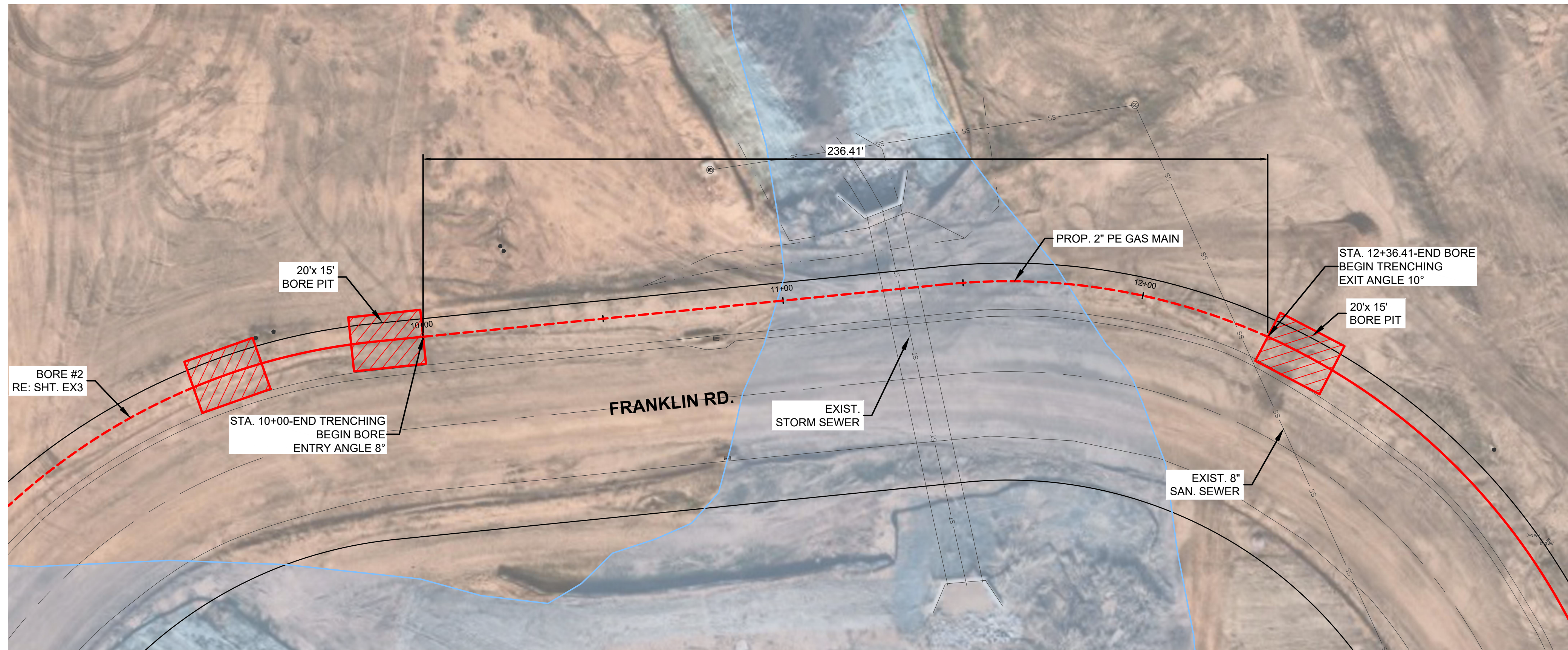
Johnson & Associates
 1 E. Sheridan Ave., Suite 200
 Oklahoma City, OK 73104
 (405) 235-8075 FAX: (405) 235-8078 www.jacac.com
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 ENGINEERS SURVEYORS PLANNERS



OKLAHOMA NATURAL GAS CO.
 NORMAN, CLEVELAND COUNTY, OKLAHOMA
BORE #2 PLAN & PROFILE

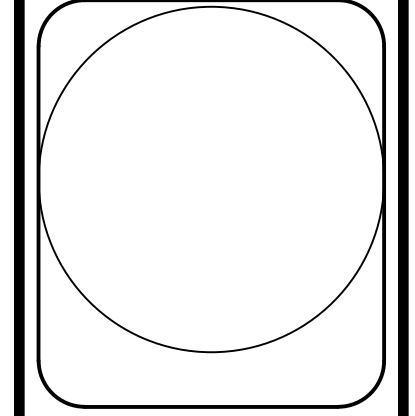
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 Date: 04-08-26
 Scale: (Horiz.) 1"=20'
 (Vert.) 1"=4'
 Checked By:
 Approved By:

SHEET NUMBER
EX3



- NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING FIELD CONDITIONS AND THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK.
 2. WHILE REASONABLE EFFORTS HAVE BEEN MADE TO DEPICT EXISTING UTILITIES AND CONDITIONS BASED ON AVAILABLE RECORDS AND FIELD INVESTIGATIONS, THE PREPARER OF THESE PLANS MAKES NO GUARANTEES, WARRANTIES, OR REPRESENTATIONS AS TO THE COMPLETENESS, ACCURACY, OR EXACT LOCATION OF SUCH ITEMS.
 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES OR CONFLICTS IN THE FIELD AND SHALL NOT PROCEED WITH AFFECTED WORK UNTIL FURTHER DIRECTION IS PROVIDED.
 4. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO PRE-PROJECT CONDITIONS, INCLUDING ORIGINAL ELEVATIONS, GRADES, CONTOURS, AND VEGETATION, IN ACCORDANCE WITH LOCAL FLOODPLAIN DEVELOPMENT REGULATIONS, FEMA NATIONAL FLOOD INSURANCE PROGRAM REQUIREMENTS (44 CFR PART 60), AND THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) CONSTRUCTION GENERAL PERMIT OKR10 ADMINISTERED BY THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ)
 4. THE GAS MAIN CONDUIT USED IS AT LEAST ONE GRADE HIGHER THAN WHAT IS REQUIRED FOR THIS LINE TYPE. THE WALL THICKNESS IS 0.216" AND IS THE LATEST INDUSTRY STANDARD FOR PRESSURE GAS MAINS.

NO.	REVISIONS DESCRIPTION	DATE



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OKLAHOMA NATURAL GAS CO.
 NORMAN, CLEVELAND COUNTY, OKLAHOMA

BORE #3 PLAN & PROFILE

Proj. No.: _____
 Date: 04-08-26
 Scale: (Horiz.) 1"=20'
 (Vert.) 1"=4'
 Checked By: _____
 Approved By: _____

SHEET NUMBER
EX4