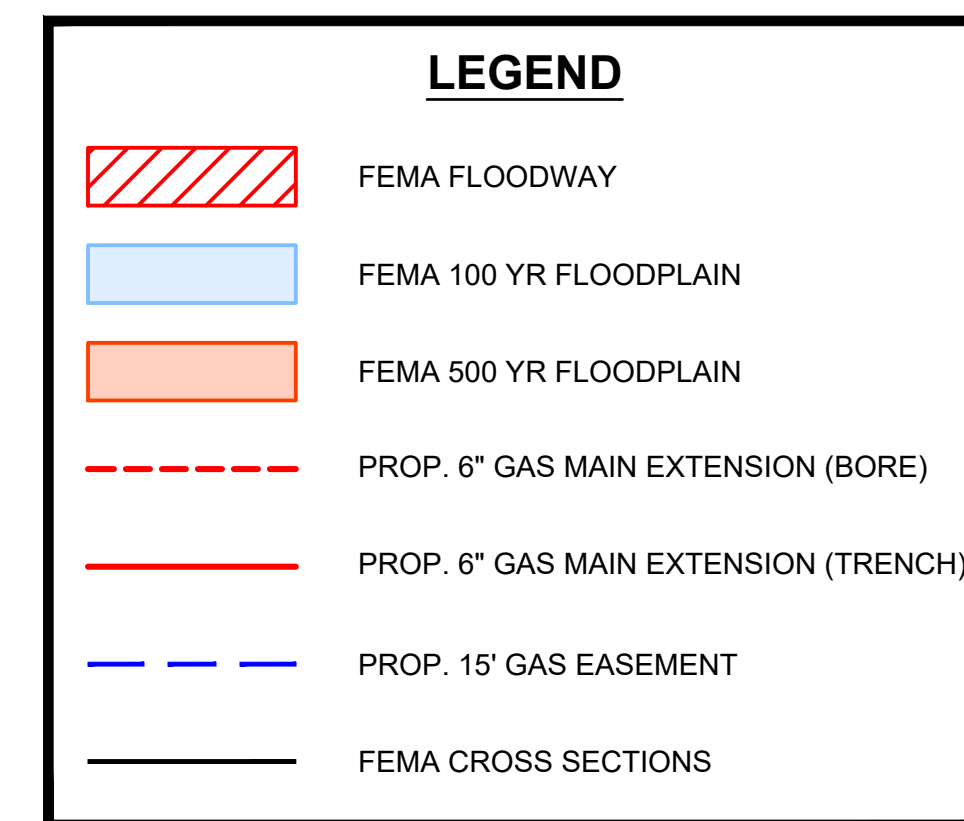


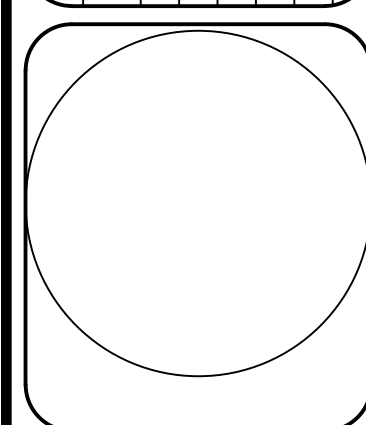
NOTES:

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.

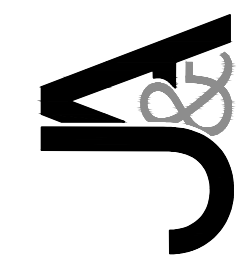


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NO.	REVISIONS DESCRIPTION	DATE



Johnson & Associates
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Certificate of Authorization #1484 Exp. Date: 05-30-2027
• ENGINEERS • SURVEYORS • PLANNERS •



OKLAHOMA NATURAL GAS CO.

NORMAN, CLEVELAND COUNTY, OKLAHOMA

BORE PROFILE

Proj. No.:
Date: 08-07-25
Scale: (Horiz.) 1"=40'
(Vert.) 1"= 4'
Checked By:
Approved By:

SHEET NUMBER

EX2

Location

Latitude: 35.1801869133584

Longitude: -97.4315498544041

Address: DEWEY OK

Zipcode: 73072

USGS Map Grid

Grid Name: 17_8N_2W_8

Lot: 1

Block: 1

Sections

MTR: 17 8.0N 2.0W

Q-SEC: SE S08 T08N R02W IN

SEC: 8

Tax District

District Name:

SD Code: 141029

SD Name: Norman

Joint County:

AV Tax Code:

AV School District Tax Code: 119

Ad Valorem Ref Num: 14/119/17

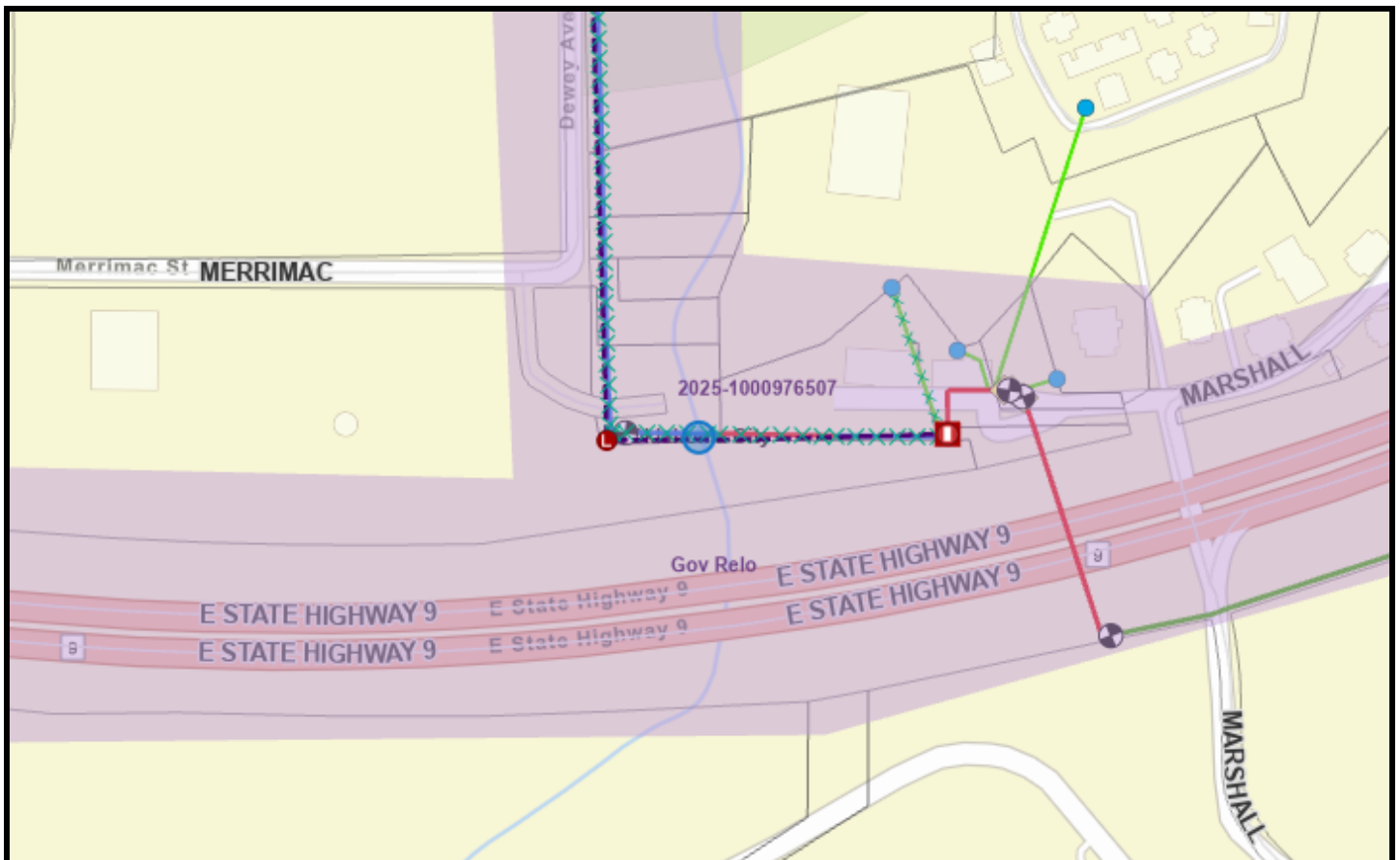
Vtech Code: 17

City: Norman

County: Cleveland

State: OK

Legal Desc:



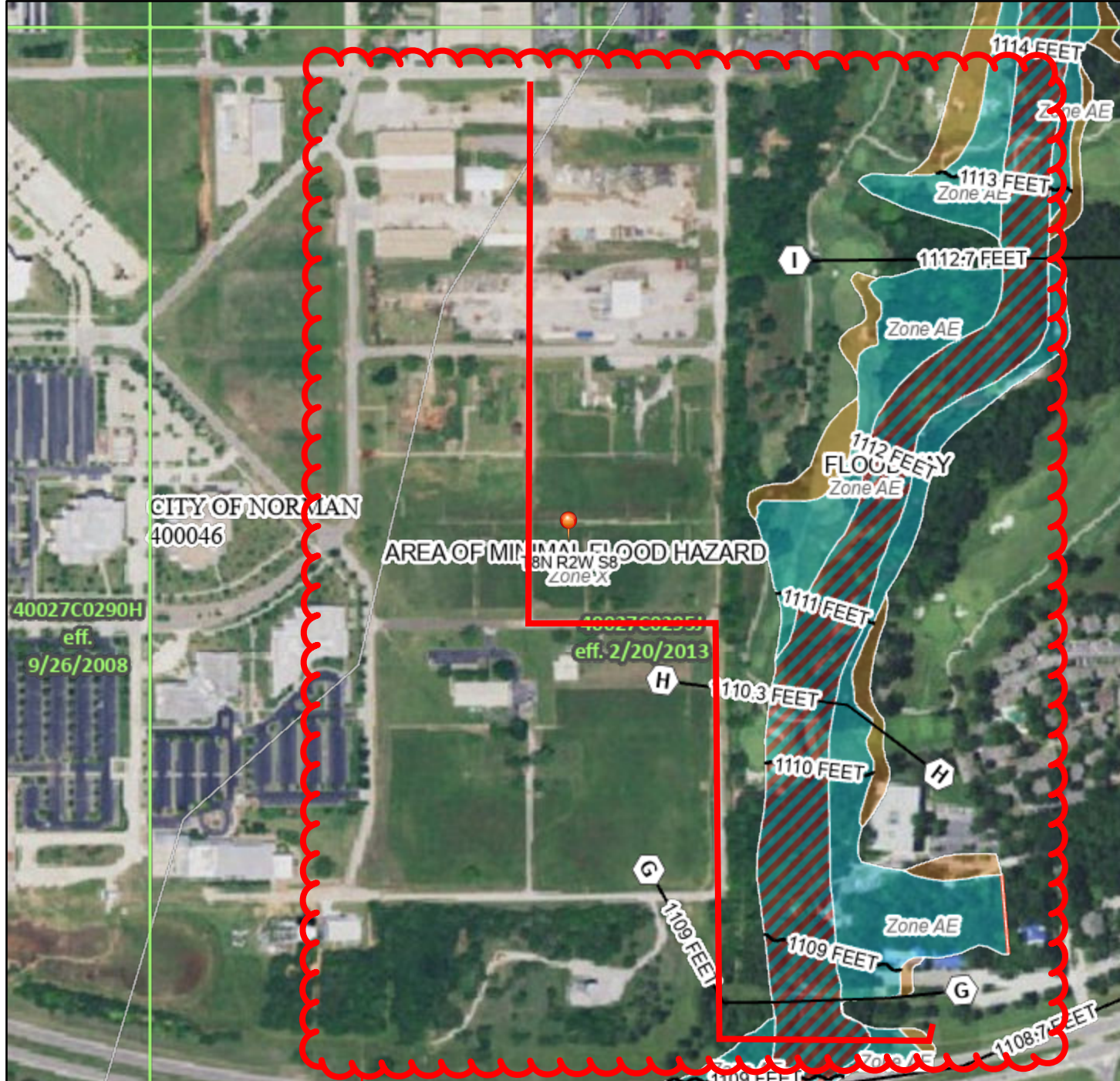
Created By: Teagan Moore(OKE23009@onegas.com)

Scale: 1:4514

National Flood Hazard Layer FIRMMette



97°26'20"W 35°11'16"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Approx. Project Location

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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		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
		Profile Baseline
		Hydrographic Feature
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 7/25/2025 at 2:21 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 unmoderated areas cannot be used for regulatory purposes.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** 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 MSC website.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Oklahoma State Plane South zone (FIPSZONE 3502). The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Geo Information Systems department of the University of Oklahoma and by the City of Norman, GIS Division.

This map may reflect more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distance that differ from what is shown on this map.

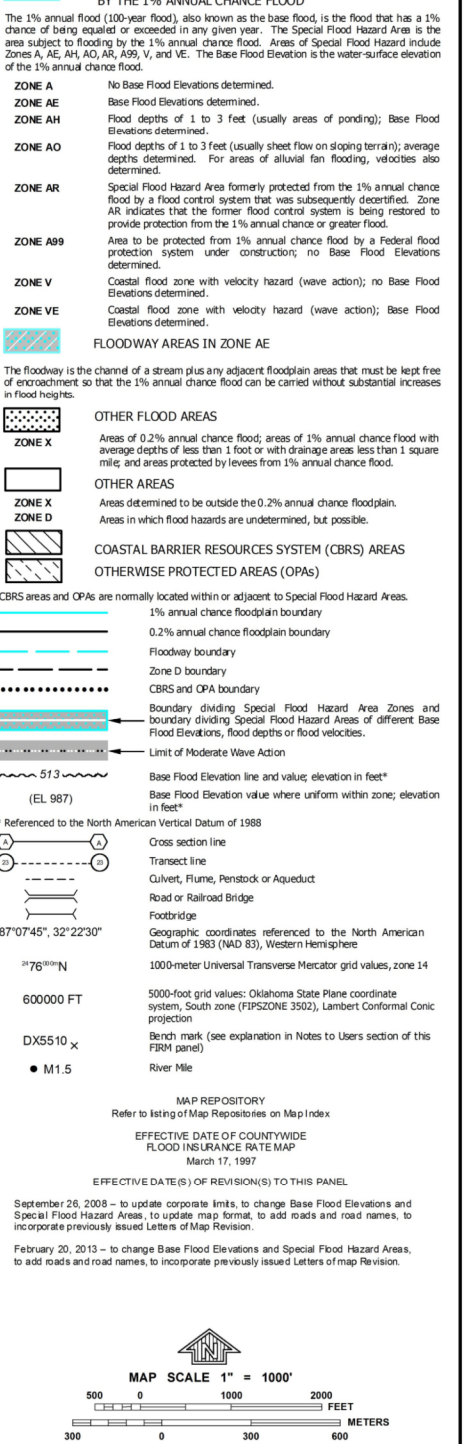
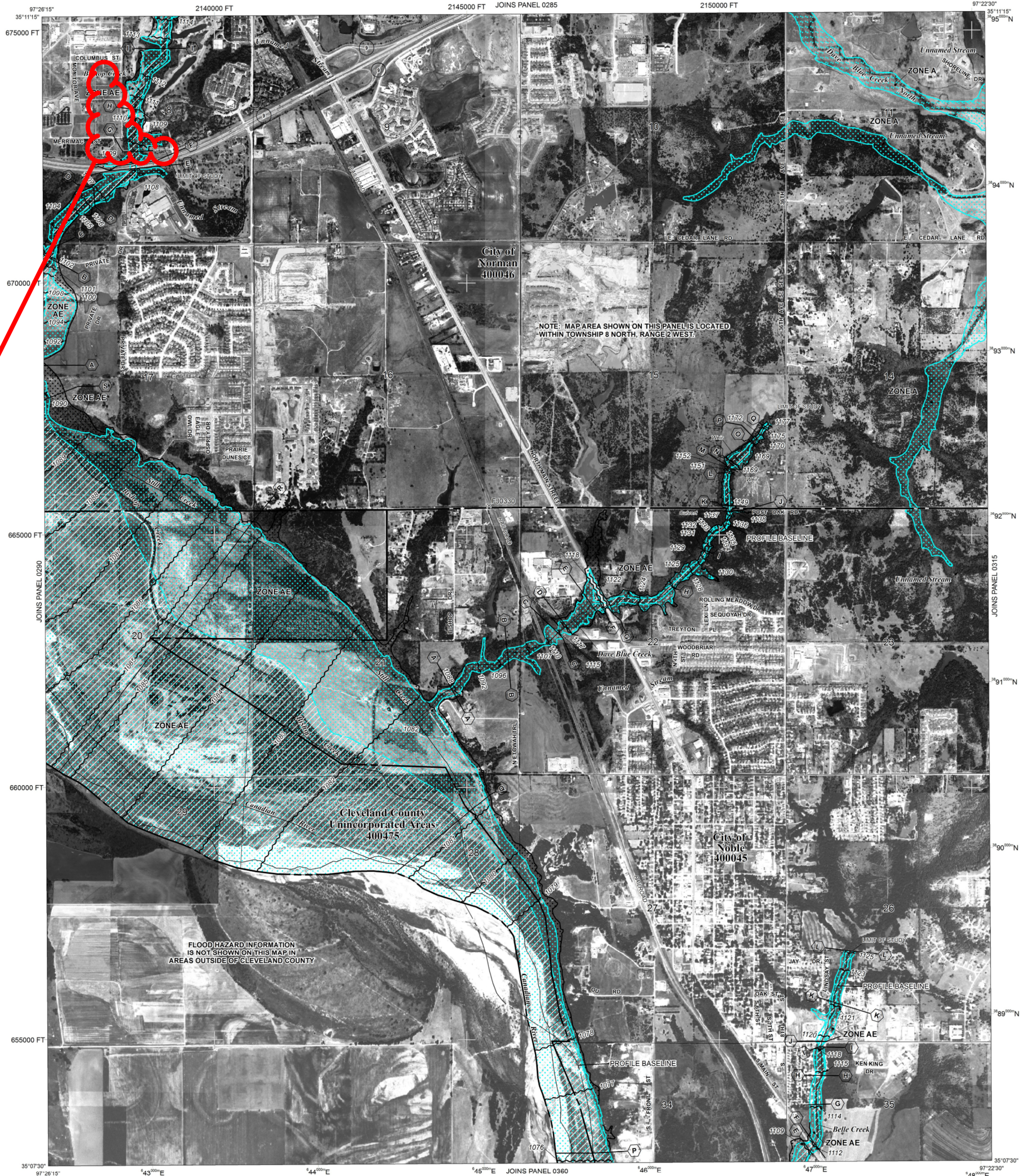
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels of which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** 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 MSC website.

If you have **questions about this map**, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-MAP (1-877-336-6627) or visit the FEMA website at <http://www.fema.gov/business/nfip>.

Approx. Project Location



NFIP **PANEL 0295J**

FIRM
FLOOD INSURANCE RATE MAP

CLEVELAND COUNTY, OKLAHOMA AND INCORPORATED AREAS

PANEL 295 OF 475
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
CLEVELAND COUNTY	400475	0295	J
NOBLE CITY OF	400045	0295	J
NORMAN CITY OF	400046	0295	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
40027C0295J

MAP REVISED

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE
Bishop Creek								
A	12,000	1,143	4,353	2.2	1,090.8	1,090.8	1,091.8	1.0
B	14,120	227	1,593	6.1	1,101.9	1,101.9	1,102.2	0.3
C	14,460	129	1,262	7.3	1,102.9	1,102.9	1,103.1	0.2
D	15,720	156	1,797	5.2	1,106.5	1,106.7	1,106.9	0.2
E	16,780	112	1,342	6.9	1,108.1	1,108.1	1,108.3	0.2
F	16,900	120	1,676	5.5	1,108.7	1,108.7	1,109.0	0.3
G	17,100	173	1,721	5.4	1,109.0	1,109.0	1,109.3	0.3
H	18,000	152	1,303	6.4	1,110.3	1,110.3	1,110.5	0.2
I	19,540	102	1,146	7.3	1,112.7	1,112.7	1,113.5	0.8
J	21,580	275	2,030	4.1	1,116.6	1,116.6	1,117.1	0.5
K	22,860	296	1,141	4.2	1,119.7	1,119.7	1,120.1	0.4
L	23,010	160	1,022	4.7	1,119.9	1,119.9	1,120.3	0.4
M	24,840	151	1,095	4.4	1,124.3	1,124.3	1,124.4	0.1
N	25,340	54	3,044	3.7	1,126.4	1,126.4	1,126.6	0.2
O	26,807	21	264	11.0	1,129.9	1,129.9	1,129.9	0.0
P	28,508	109	954	3.0	1,135.5	1,135.5	1,135.7	0.2
Q	29,388	32	314	9.3	1,136.5	1,136.5	1,136.9	0.4
R	29,460	32	354	8.2	1,137.7	1,137.7	1,138.1	0.4
S	30,400	130	922	2.1	1,143.4	1,143.4	1,143.4	0.0
T	32,079	87	512	3.7	1,148.2	1,148.2	1,148.2	0.0
U	33,280	12	75	7.9	1,156.7	1,156.7	1,156.9	0.2

¹ Feet above confluence with the Canadian River

Proposed bore is approximately 50' downstream of cross
section G: BFE = 1108.9'

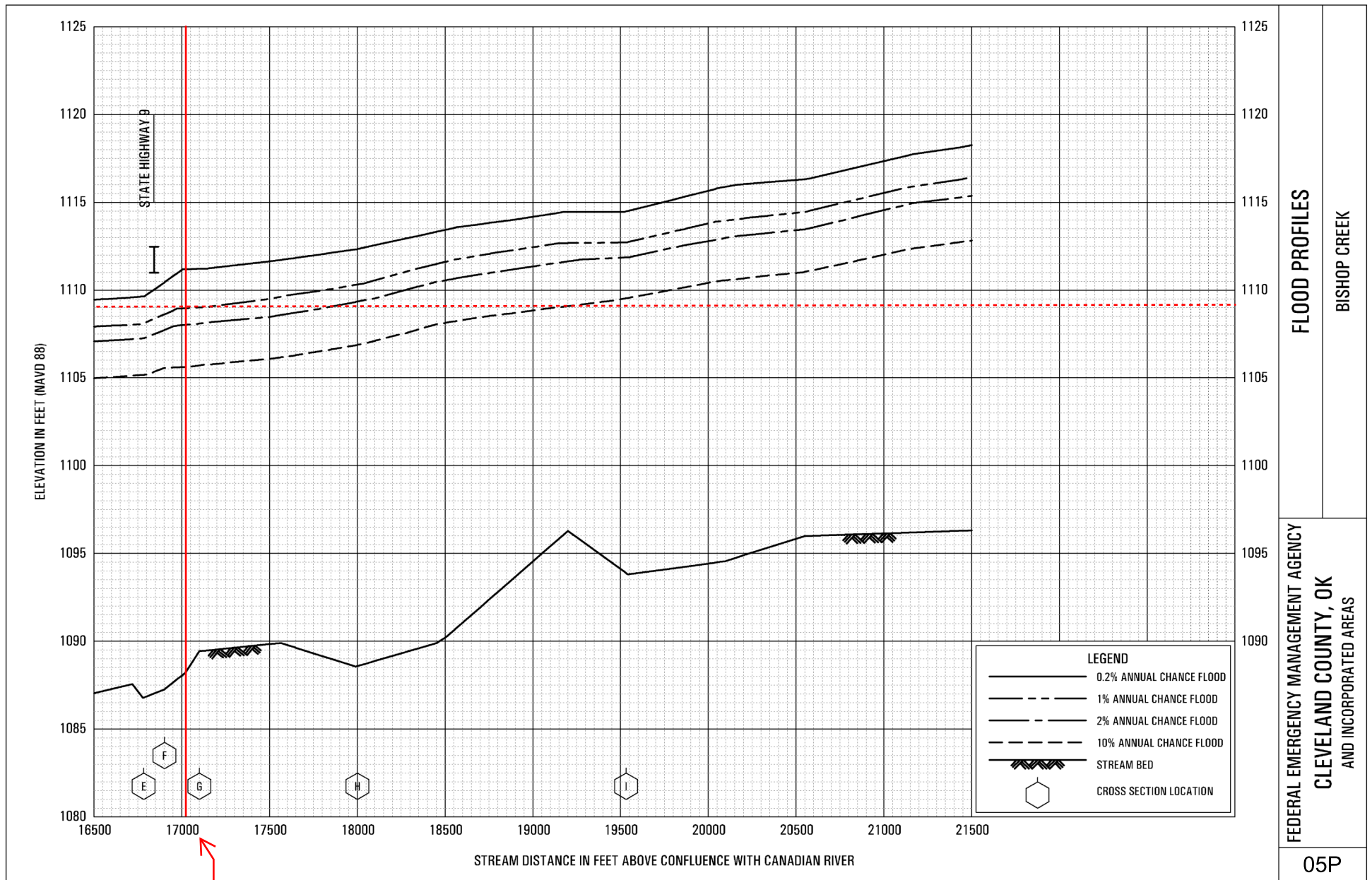
TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY
CLEVELAND COUNTY, OK
AND INCORPORATED AREAS

FLOODWAY DATA

BISHOP CREEK

BFE (---) = 1108.9'



Approximate bore crossing location