

**TULSA
COUNTY
Engineering
Division**

MEMORANDUM

DATE: April 3, 2017

TO: Board of County Commissioners

FROM: Tom Rains, County Engineer



SUBJECT: Utility permit for City of Bixby

We present for your approval a utility permit for the City of Bixby to install an 8" Water Line parallel S 145th E Ave approximately N & S of Hwy 64 & 145th St. Installation will be by open cut within right of way and boring.

TR:bd
Attachments

Original: Michael Willis, County Clerk, for the April 10th, 2017 Agenda

xc: Commissioner John M. Smaligo, Jr.
Commissioner Karen Keith
Commissioner Ron Peters
John Fothergill, Chief Deputy
Vicki Adams, Chief Deputy
Robbie Thompson, District 3
File

TULSA COUNTY
BOARD OF COUNTY COMMISSIONERS

UTILITY PERMIT

NO. _____

TYPE OF INSTALLATION: Waterline

This authority executed in the original and three copies this _____ day of _____, 20 _____

By the Tulsa County Board of Commissioners, hereinafter called the "COUNTY", witnessed:

That the COUNTY does by these presents, grant to:

Applicant City of Bixby / Hopkins Excavating
Mailing Address P.O. Box 70
City Bixby ~~Tulsa~~, Ok. _____ Zip 74008

A permit to erect, construct and maintain a waterline along, upon or across the hereinafter described County Highway (s) for the purpose of transporting, selling, and using that portion of said County Highway (s) being shown on the attached drawing (s) and further described as follows: See attached plans.

To parallel S. 145th E. Ave. approximately _____
Cross or parallel County Highway name or number
miles N & S of the Hwy 64 & 145th and further described as from feet E. 171st St. S going N of the
N.E.S.W. Junction or other definite point N.E.S.W.
along S. 145th E. Ave. corner of Section 27/28, Township 17 N, Range, 14 E, Leonard Tulsa County.

The installation will be made in the following manner: open cut within R/W + bore under 171st
(boring, pushing, cut slab, overhead crossing and other description)

Size of Line: 8" Size of Casing: 12" under hwy & 171st

Exhibit A is a part of this permit.

This permit is granted subject to the following conditions, requirements and covenants, to-wit:

1. Work to be performed on County right-of-way must be under the direction of the Tulsa county Engineer, who must be notified of the time when the work is to begin. Under no circumstances will any work be done on County right-of-way until approval of the Tulsa County Engineer has been obtained.
2. One copy of an approved permit must be kept at the work site for inspection by the Tulsa County Engineer or his representative. Applicant will be required to have an inspector or engineer present at all time during construction to insure that installation is made in accordance with plans.
3. The applicant must agree to hold the COUNTY harmless for any damage (s) or injury (ies) to any person(s) or property (ies) caused by or resulting directly or indirectly from the construction, maintenance, operation or repair of the facilities on, under, or over the County right-of-way and must further agree to reimburse the COUNTY for any repair of any damage to COUNTY facilities caused by the construction and/or operation of the applicant's facility.
4. All work on the County right-of-way is to be done in accordance with the current Standard Specifications for Highway Construction, Oklahoma State Highway Commission, and at the conclusion of such work the right-of-way must be cleaned up and left in a presentable condition. This will include replacing any protective grass cover destroyed by trenching or operation of equipment, and correcting any other damage that may have been caused, as directed by the COUNTY. The applicant shall require the contractor or whoever installs the facilities to deposit with the COUNTY a cashier's check, certified check, cash or bond which is to insure the cost to the COUNTY for restoring the area to its original state, if not restored by the installer. The minimum deposit or bond will be based on fifty cents per lineal foot paralleling the highway, two dollars per lineal foot for boring and five dollars per lineal foot for trenching when trenching is necessary. The measurement to determine the amount of deposit shall be measured along centerline of trench for paralleling roadway, and for boring or trenching the measured centerline of trench from right-of-way line to right-of-way line. After final inspection by the County Engineer's Office, and an additional period of ninety days, the deposit less any amount not used to restore the area shall be returned to the depositor.
5. The applicant must furnish all flagmen, lights, barricades, and warning signs deemed necessary by the COUNTY, during the construction maintenance, or repair of its facilities on the County right-of-way.
6. When notified to do so by the COUNTY, the applicant agrees to make all changes in the facilities on a County right-of-way at the applicant's own expense, unless otherwise provided by law or order of the COUNTY.
7. Clearance above the traffic lanes of the highway at all pole line crossings should comply with applicable safety codes, but will not be less than 20 feet at a temperature of 69 degrees Fahrenheit. All poles, posts, stubs, fixtures, down guys, wires, and other appurtenances must be kept in good repair at all times and must be free from weeds and brush within a 5-foot area no more than 4 feet inside the right-of-way line, unless otherwise approved by the COUNTY.
8. All underground crossing of the right-of-way must be encased from right-of-way line to right-of-way line at a minimum depth of 48 inches below the bottom of the surfacing, but not less than 30 inches below the bottom of the ditches, unless otherwise approved by the COUNTY.

All encased crossings must be sealed at both ends and vented outside of right-of-way line. The vents should be sized to allowed proper release of carrier pipe contents in case of failure. The minimum pipe size for vents is 2-inch nominal, and the vent must extend a minimum of 36 inches above natural ground level. The owner must install identification markers at each right-of-way line directly above the facility. Such markers may be attached to vents or to a right-of-way fence. The markers may be in the owner's standard design, but must identify the owner and size of the facility, and must be erected at a location plainly visible from within the highway right-of-way.

The casing must be designed to sustain roadway loadings, contain and divert from the roadway the contents of the carrier pipe, and to have a life expectancy equal to or greater than the carrier pipe.

Encasement for underground telephone and power lines, or similar facilities, should comply with the above except for the installation of vents, end seals, and the ability to contain and divert.

Steel pipelines crossing the right-of-way may be installed without encasement if the installation is in accordance with "Special Provisions for the Installation of Underground Pipelines...". This Special Provision stipulates in part that carrier pipe material within the right-of-way must be superior to the carrier pipe material outside the right-of-way by being of steel at least one grade better, or a minimum of one wall width thicker and the same alloy. Pipe must be 48 inches below the flow line of drainage ditches and all other highway drainage facilities, and must be properly protected from corrosion.

Nonpressurized facilities, such as sanitary sewer lines, crossing the highway right-of-way may be approved without the use of encasement, if cast iron or material of equal or better quality is used, with the understanding that maintenance will be performed by a method that will not disturb the through lanes or interfere with traffic.

All underground crossings must be installed by boring or pushing or other approved methods. The method and equipment for the installation must be approved by the COUNTY. Wet boring or jetting will not be permitted unless special approval is obtained from the COUNTY. If considered necessary, pressure grouting of the voids will be required. This will generally be required when the diameter of the bore exceeds the outside diameter of the pipe by two inches or more. In the interest of safety, trenching and the parking of equipment should be performed as far as possible from traffic lanes. In unusual cases where trenching is necessary, a special plan with specifications will be developed by the owner with assistance from the COUNTY, setting out the method for controlling the traffic, placement of the facility, and proper restoration of the roadway. This method must bear the recommendation of the COUNTY.

Parallel facilities must be installed no more than 4 feet inside the right-of-way line and buried a minimum depth of 30 inches below the ditch flow line. The ditch must be backfilled to a density equal to the adjacent soil, and approved by the COUNTY.

- 9. The applicant must agree to refrain from disturbing trees, shrubbery or any part of the landscape without approval of the COUNTY. If it becomes necessary to disturb trees or shrubbery, applicant intentions must be plainly stated in the application, which will include size and kind of trees and shrubs, and disposition during installation.
- 10. Blasting will not be permitted within the highway right-of-way except in unusual cases and only with special approval from the County Engineer.
- 11. The applicant must agree to hold the COUNTY harmless for any and all damage that the utility facilities might sustain while occupying County right-of-way.
- 12. Applicant assures that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1973,33 V.S.C. 1334.

13. Contractor for this project Hopkins Excavating, address P.O. Box 519 Glenpool, OK 74033

This permit may be revoked for noncompliance.

Accepted this _____ day of _____, 20_____.

City of Bixby
 Owner of Utility

J. C. Mohler
 Authorized Representative of Company

Development Services Director
 Title

Jason C. Mohler (918) 366-0444
 Contact Person & Phone #

Attest: _____
Secretary

Accepted this _____ day of _____, 20_____.

BOARD OF COUNTY COMMISSIONERS
TULSA COUNTY, OKLAHOMA

Chairman

Attest: _____
County Clerk

CONSTRUCTION PLANS FOR Leonard Waterline Extension Project No. W 30-1501

CITY OF BIXBY ENGINEERING DEPARTMENT

INDEX TO DRAWINGS

COVER SHEET 1
WATERLINE PLAN & PROFILE (1-4) 2-5

TECHNICAL SPECIFICATIONS

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CITY OF BIXBY STANDARD SPECIFICATIONS AND DETAILS FOR INFRASTRUCTURE PROJECTS.

SURVEY CONTROL DATA

HORIZONTAL CONTROL

A. OKLAHOMA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE. (NAD83)

B. ACCURACY - 3RD ORDER OR BETTER.

BEARINGS

THE BEARINGS SHOWN HEREIN ARE GRID BEARINGS DERIVED FROM THE OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL.

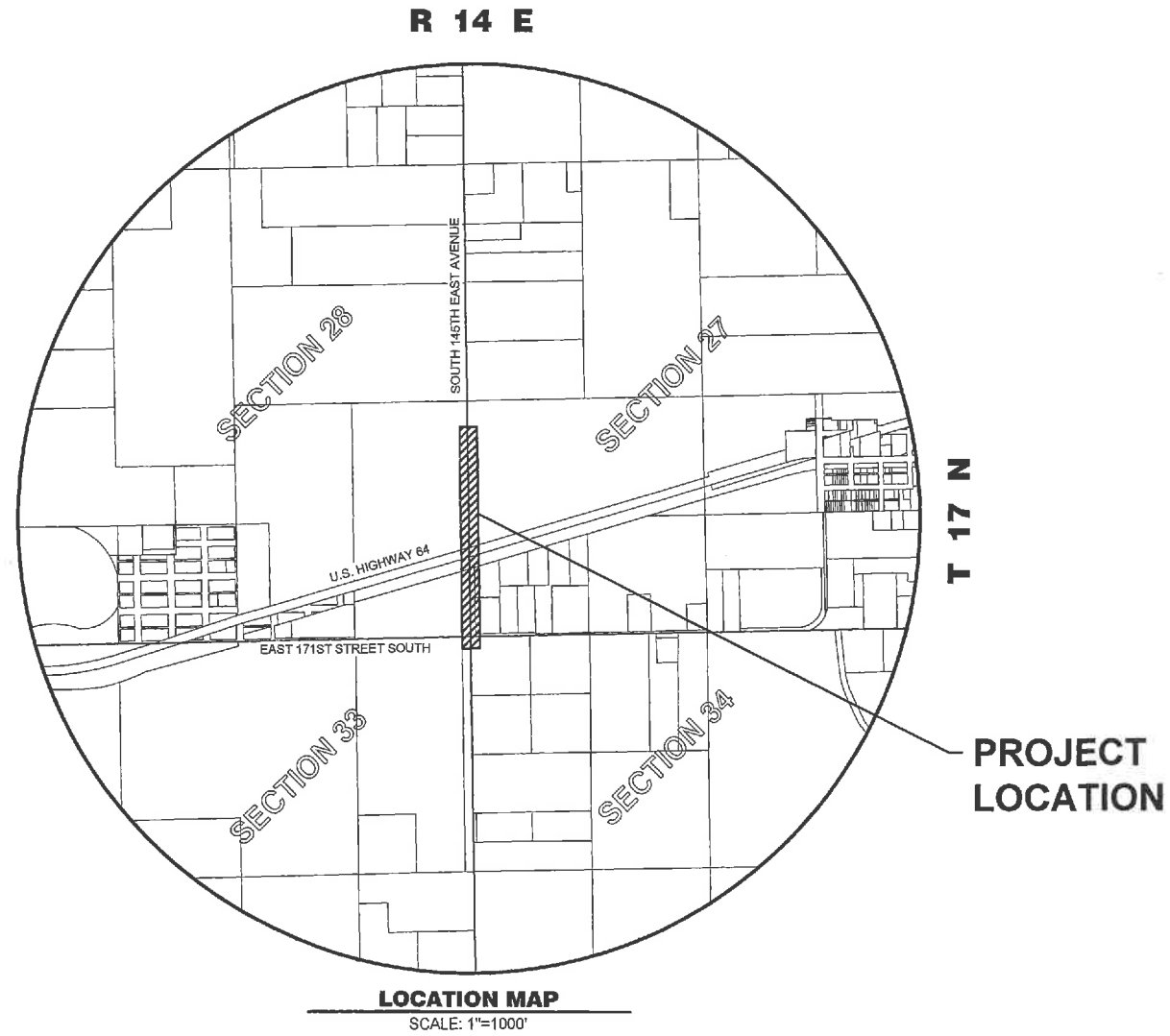
VERTICAL CONTROL

A. LEVEL DATUM IS NAVD 1988

B. ACCURACY - 3RD ORDER OR BETTER.

SYMBOL LEGEND

⊗ CPED	CABLE / TV / DATA BOX	⊙	DECIDUOUS TREE (ALL TYPES)
⊠ EM	ELECTRIC METER	⊙	CONIFEROUS TREE (ALL TYPES)
⊠ EPED	ELECTRIC BOX	—X—X—	FENCE LINE (ALL TYPES)
⊠ XFMR	ELECTRIC TRANSFORMER	---SS---	STORM SEWER
⊙ FH	FIRE HYDRANT	---SS---	SANITARY SEWER
⊙ FP	FLAGPOLE	---W---	WATERLINE
⊙ GM	GAS METER	---OE---	OVERHEAD ELECTRIC
⊙ GV	GAS VALVE	---OT---	OVERHEAD TELEPHONE
⊙ GUY	GUY ANCHOR	---UG---	NATURAL GAS LINE
⊠ ICV	IRRIGATION CONTROL VALVE	---UT---	UNDERGROUND TELEPHONE
⊙ LP	LIGHT POLE	---UE---	UNDERGROUND ELECTRIC
⊠ MB	MAILBOX	---UC---	UNDERGROUND CABLE
⊙ PP	POWER POLE	---EM---	EXISTING MINOR CONTOUR
⊙ TS	TRAFFIC SIGN	---EM---	EXISTING MAJOR CONTOUR
⊙ SSCO	SANITARY SEWER CLEANOUT	⊙	BORE LOCATION
⊙ SSMH	SANITARY SEWER MANHOLE	⊙	SITE BENCHMARK
⊙ SSMH	STORM WATER MANHOLE	⊙	
⊙ SPHD	SPRINKLER HEAD	⊙	
⊙ TPED	TELEPHONE PEDESTAL	⊙	
⊙ WM	WATER METER	⊙	
⊙ WV	WATER VALVE	⊙	



Approved By:
CITY OF BIXBY

Jared Wade Cottle
CITY ENGINEER

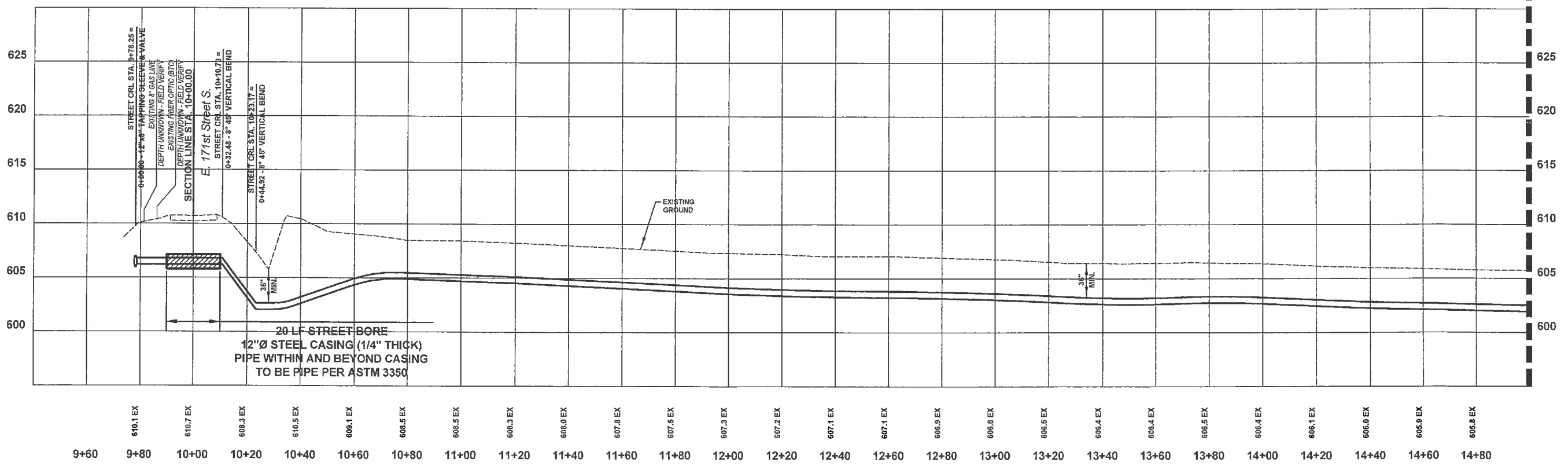
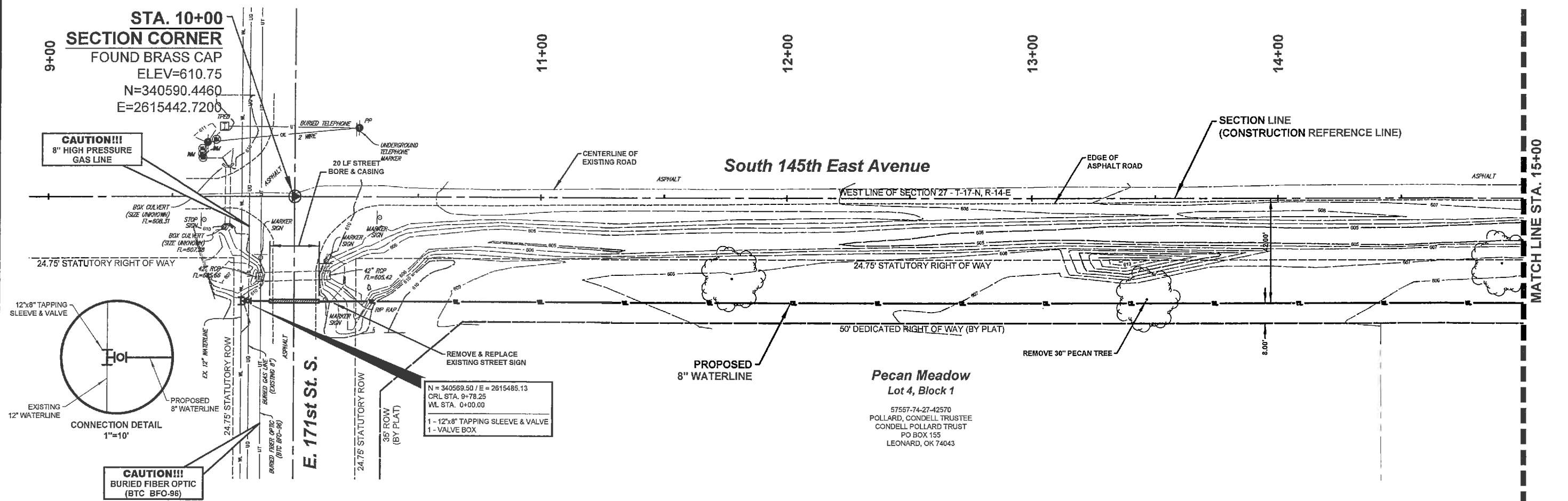
ADVERTISEMENT DATE



STA. 10+00
SECTION CORNER
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 N=340590.4460
 E=2615442.7200

CAUTION!!!
 8" HIGH PRESSURE
 GAS LINE

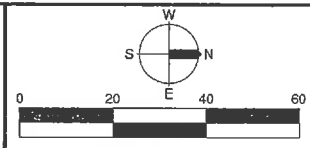
CAUTION!!!
 BURIED FIBER OPTIC
 (BTC BFO-98)



DATE	REVISIONS



CITY OF BIXBY, OKLAHOMA
 ENGINEERING DEPARTMENT



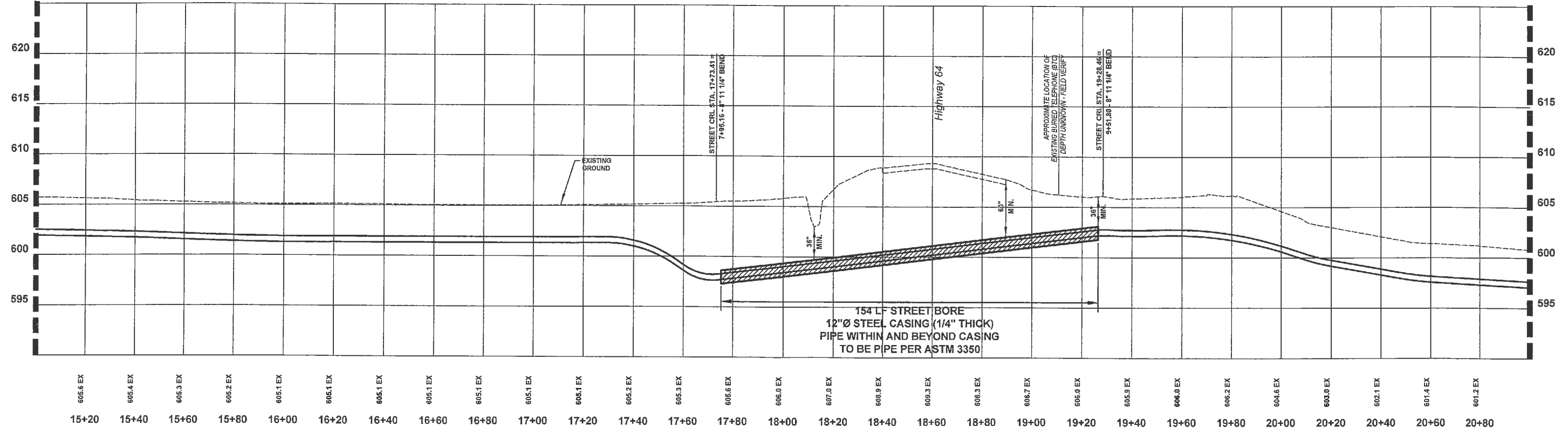
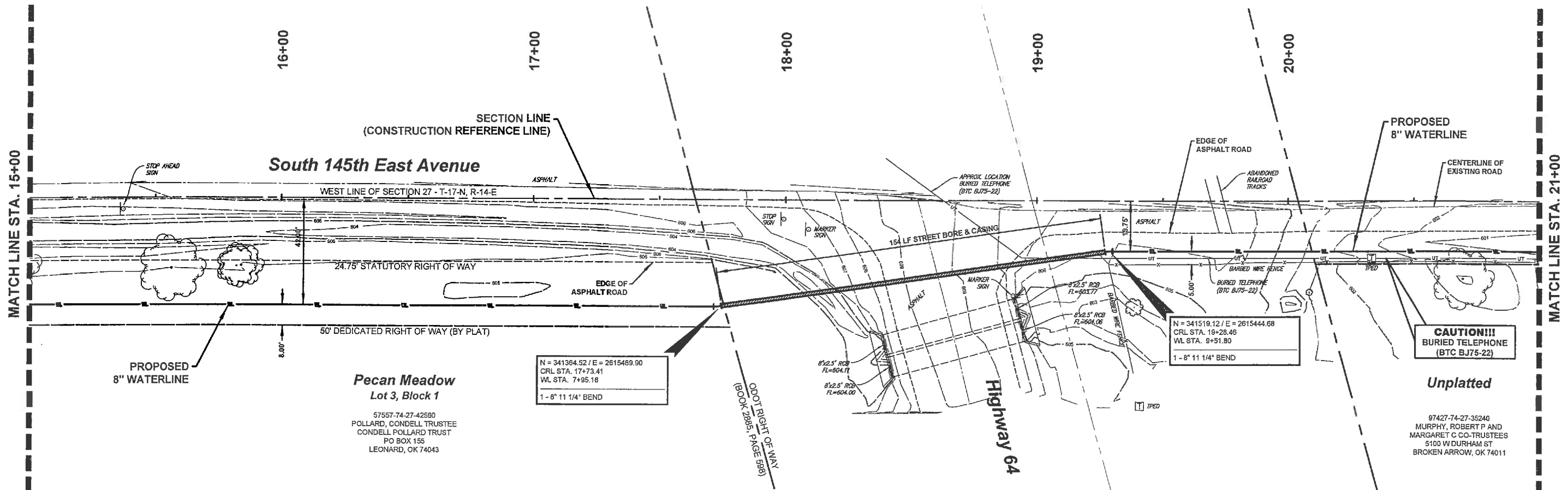
Waterline Plan & Profile
 (Sta. 10+00 to 15+00)

LEONARD WATERLINE EXTENSION

SHEET:

2

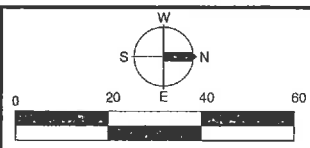
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DATE	REVISIONS



CITY OF BIXBY, OKLAHOMA
ENGINEERING DEPARTMENT

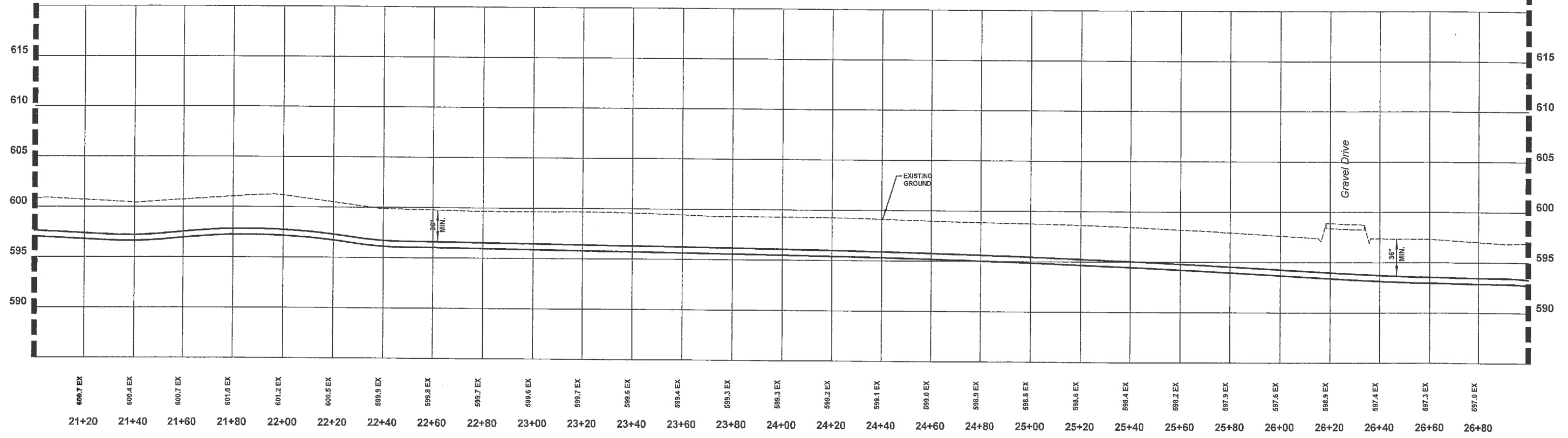
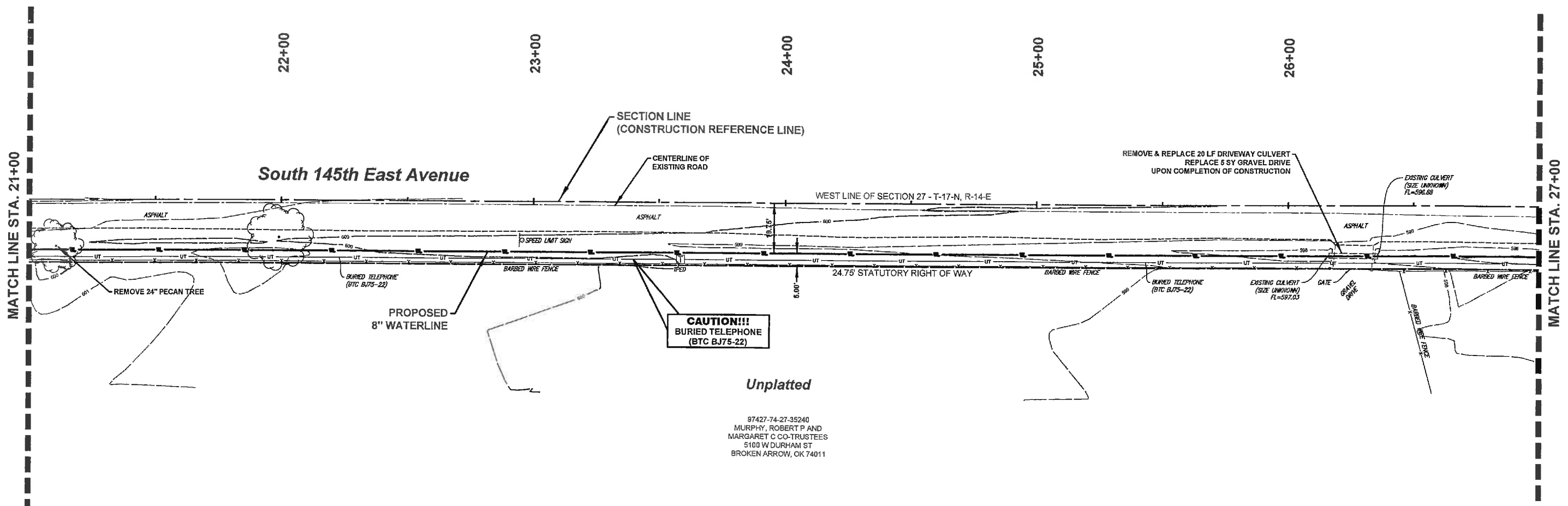


Waterline Plan & Profile
(Sta. 15+00 to 21+00)

LEONARD WATERLINE EXTENSION

SHEET:
3

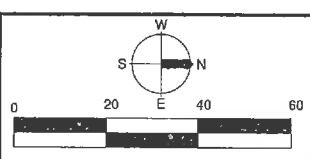
PROJECT NO.: W-30-1501



DATE	REVISIONS



CITY OF BIXBY, OKLAHOMA
ENGINEERING DEPARTMENT

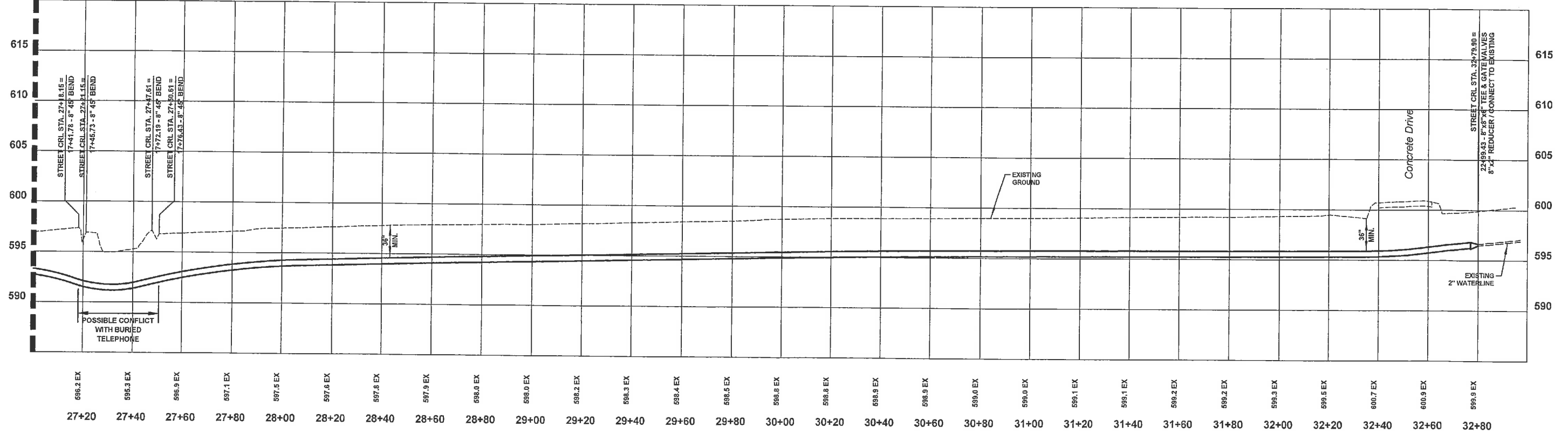
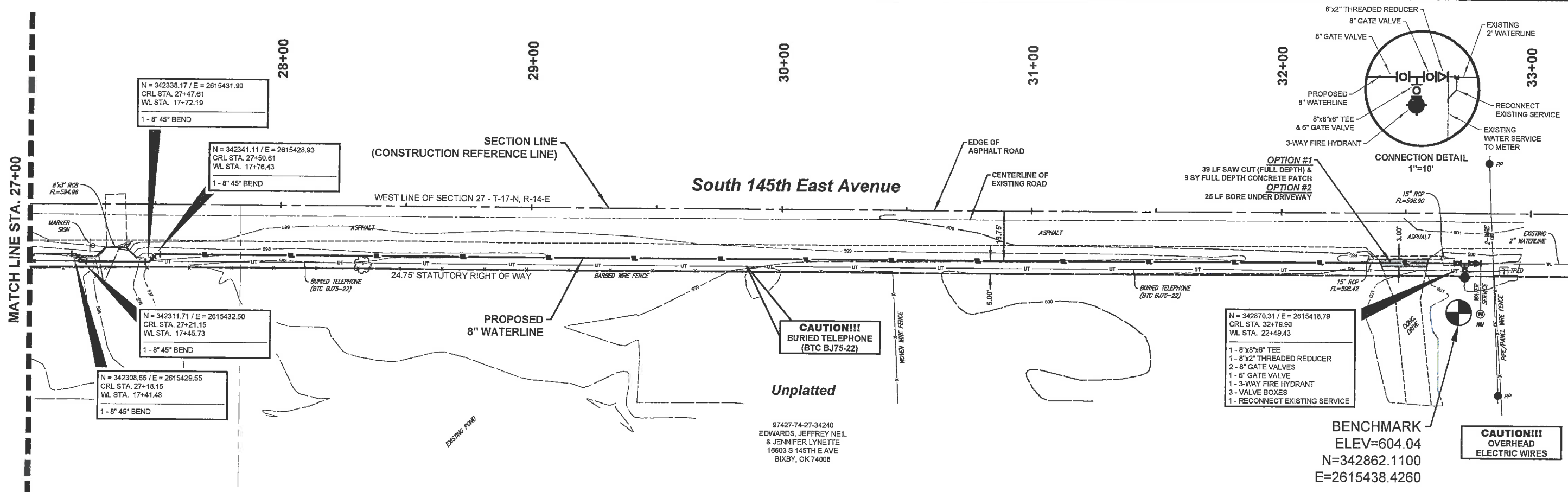


Waterline Plan & Profile
(Sta. 21+00 to 27+00)

LEONARD WATERLINE EXTENSION

SHEET:
4

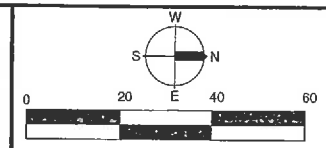
PROJECT NO.: W 30-1501



DATE	REVISIONS



CITY OF BIXBY, OKLAHOMA
ENGINEERING DEPARTMENT



Waterline Plan & Profile
(Sta. 27+00 to 33+00)

LEONARD WATERLINE EXTENSION

SHEET:
5

PROJECT NO.: W 30-1501