

# Water Line Improvements

to serve

## Lot 1, Block 1, Redburn 2nd Addition

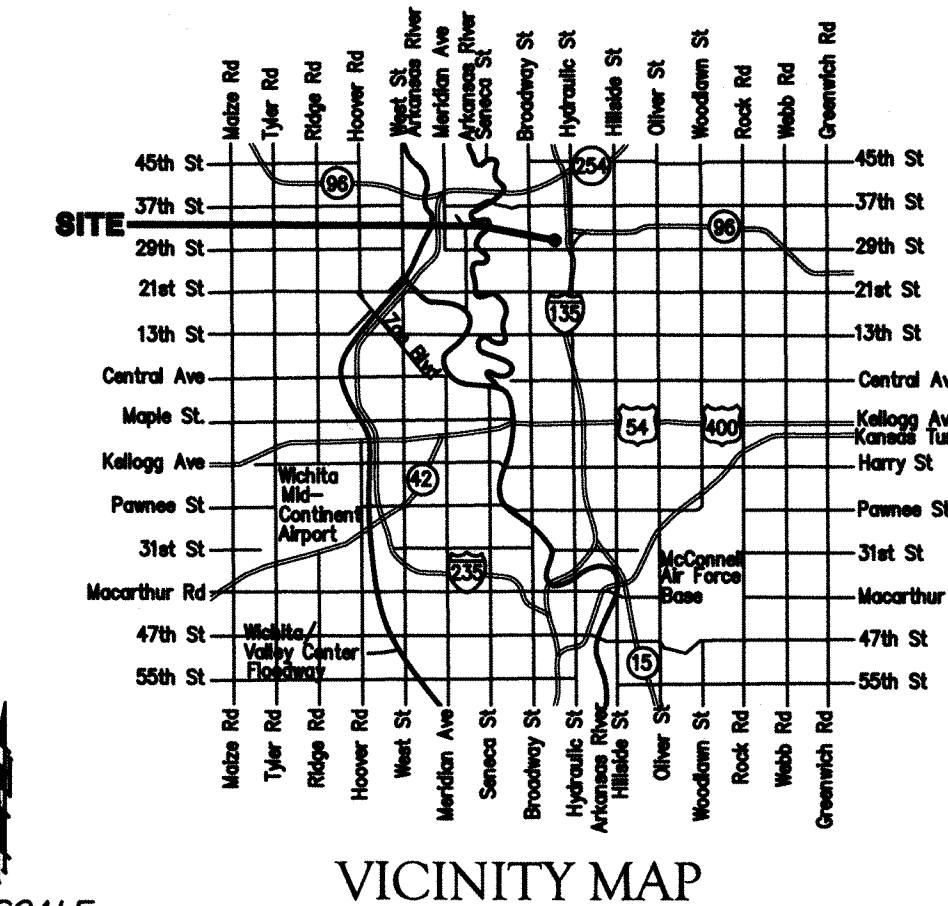
## Private Project: 1842 PPW (607853)

# CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer

AUGUST 2014

**AS-BUILT PLANS**  
**CONTRACTOR: MIES CONSTRUCTION**  
**SUPERINTENDENT: ALBERT WILLIAMS**  
**FOREMAN: GARY CASTLE**  
**COMPANY: CITY OF WICHITA**  
**INSPECTOR: CALEB WILSON, SCHWAB-EATON, PA**  
**PDF BY: CFW 10/13/2014**



### GENERAL NOTES:

- Contractor will be required to provide notice to utility companies a minimum of forty-eight (48) hours prior to any excavation, as follows:  

Kansas One-Call	687-2470
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The Contractor must notify the following in case of an emergency:

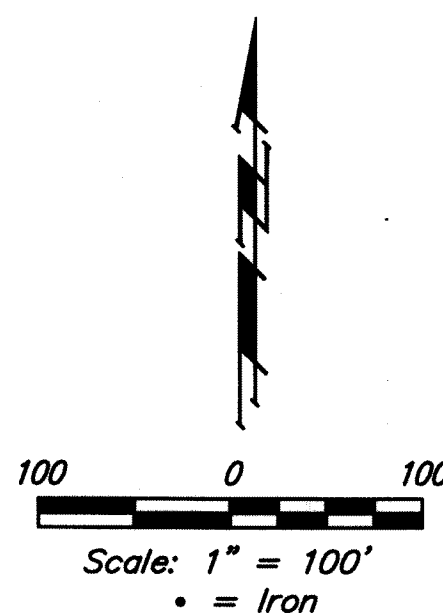
Cox Communications	262-4270
Kansas Gas Service	1-888-482-4950
Westar Energy	383-8650
Aquila Energy	1-800-303-0357
AT&T	268-2245
City of Wichita Water Dept.	268-4563
City of Wichita Sewer Maint.	268-4024
City of Wichita Storm Sewer Maint.	268-4090
City of Wichita Traffic Maint.	268-4034
Conoco Phillips Pipeline Co.	1-877-267-2290
Southern Star Pipeline Co.	529-6600
Kinder-Morgan Pipeline Co.	1-888-844-5658
- Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- All disturbed R/W areas not intended for pavement or sidewalk construction shall be seeded with Kansas Premium Fescue Blend at a rate of 8 lb./1000 Sq. Ft., fertilized with a 16-20-6 ratio at a rate of 4 lb./1000 Sq. Ft., and mulched with Prairie Hay at a rate of 92 lb./1000 Sq. Ft. Mulch shall be "dotted" with forks or punched into soil to reduce loss due to wind.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
- Contractor to remove concrete sidewalk to the nearest construction joint if within 3' of joint. Saw cut if over 3' from joint. Removal and replacement of pavement shall not be paid for directly, but shall be considered incidental to other items in the project.
- Contractor shall furnish the inspector with a copy of the manufacturer's certification for any pipe used on this project after completion of pipe installation. The engineer will not certify the project to the city until pipe certification has been received.
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- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- All water lines and appurtenances shall be installed in accordance with the most recent edition of City of Wichita, Kansas Standard Specifications and Special Provisions.
- Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Contractor shall not start on the project until all necessary bonds and permits have been obtained. Bonds may include but are not limited to Statutory, Performance & Maintenance Any work done without inspection will be required to be uncovered for inspection.
- The Baseline for this project is the  $\ominus$  of Ohio Ave. with the intersection of 29th ST N = Station 0+00.

### BENCHMARK

"□" cut top of curb adjacent to the southwest corner of Lot 1, Block 1, Redburn 2nd Addition.  
 Elevation = 1315.40 NAVD88

### SHEET INDEX

Title Sheet	1
Standard Water Details	2
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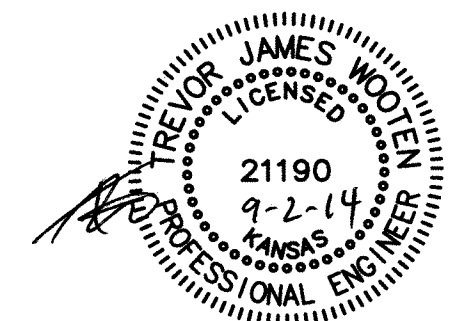
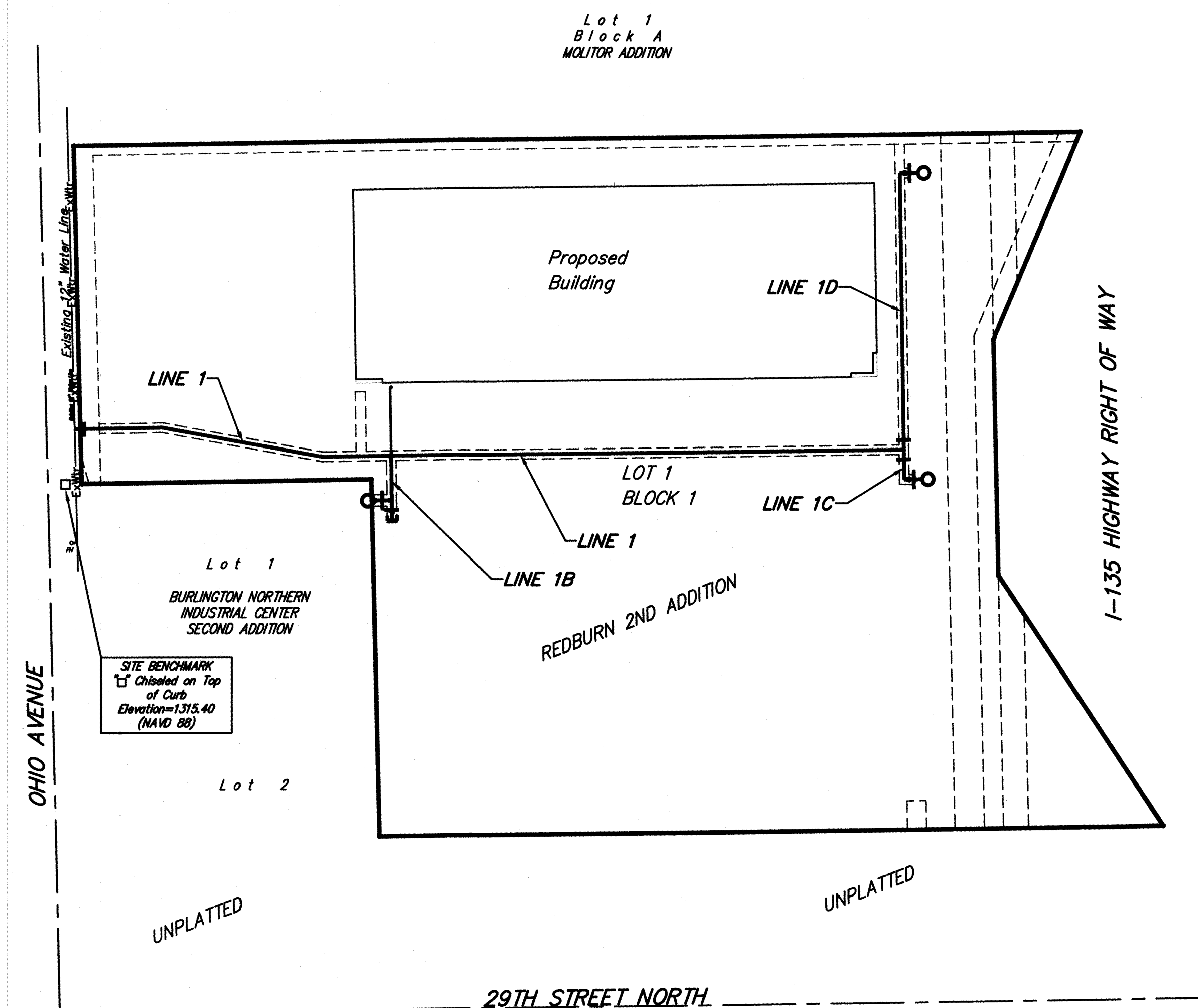


APPROVED AS NOTED  
 BY CITY ENGINEER OF WICHITA,  
 BY WICHITA WATER & SEWER DEPARTMENT,  
 & BY WICHITA FIRE DEPARTMENT

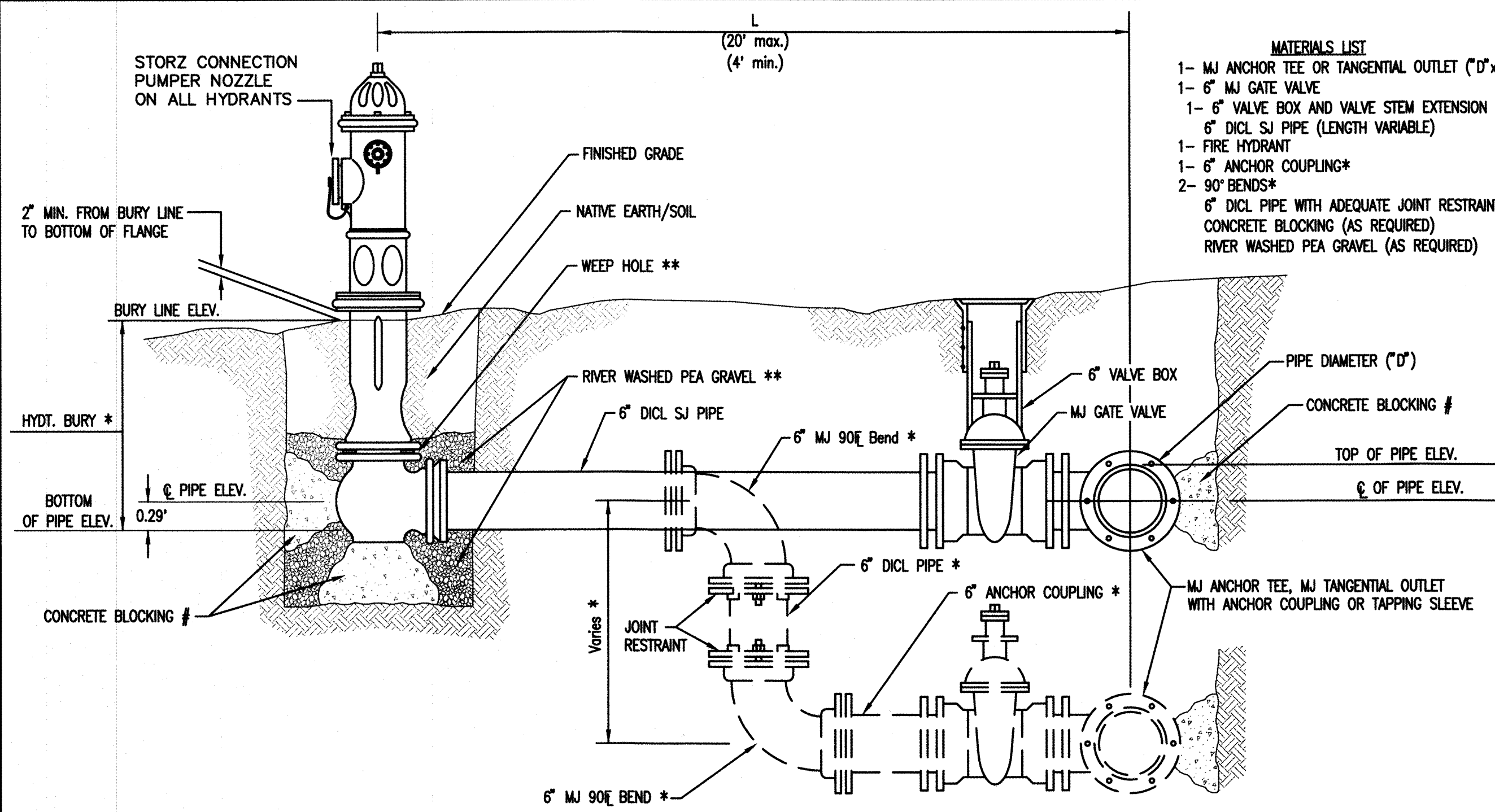
Public Works *Rebecca Gail* 9/2/2014  
 Water & Sewer *Dana Jones* 9-2-14  
 Fire *AMO* 9-2-14

NOTE TO CONTRACTORS  
 Public Property:  
 Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Professional Engineer Licensed in the state of Kansas. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City or Wichita Specifications and Standards (on file and available in the City Engineer's Office).

Private Property:  
 Installation and testing for the fire protection line is to be performed by a City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All material and construction practices for the fire protection line shall comply with the fire codes as adopted by the City of Wichita (available from the City of Wichita Fire Department). The Contractor shall not commence work without notification and approval of the Wichita Fire Department. Inspection of the fire protection line is to be provided by a licensed Engineering Firm under contract with the Owner/Developer and the Fire Department. The contractor shall not start work until the project inspector is assigned to the project and present on the site. Any work done without inspection will be required to be uncovered for inspection.



Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149  
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE



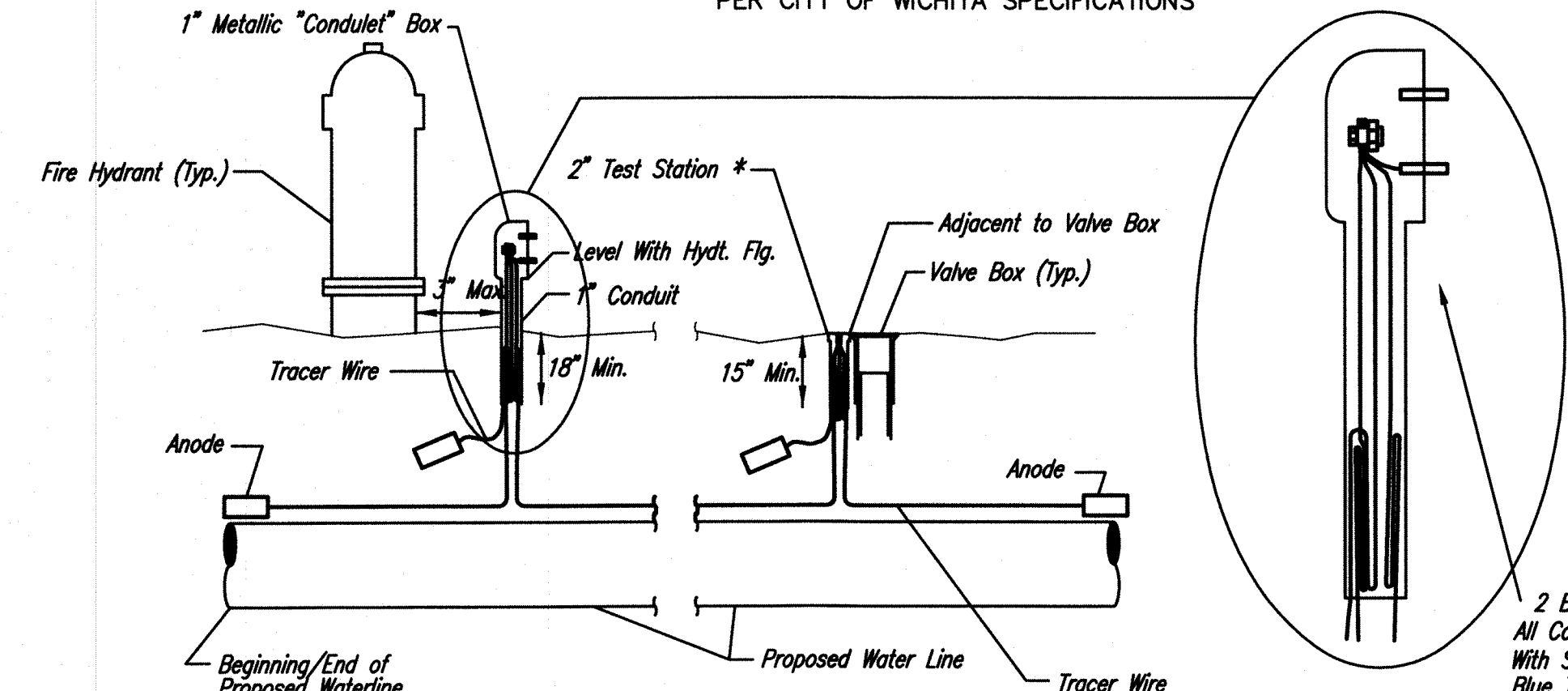
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (6" x 6")
  - 1- 6" MJ GATE VALVE
  - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED \*
  - 6" DI CL SJ PIPE (LENGTH VARIABLE)
  - 1- FIRE HYDRANT
  - 1- 6" ANCHOR COUPLING\*
  - 2- 90° BENDS\*
  - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT \*
  - CONCRETE BLOCKING (AS REQUIRED)
  - RIVER WASHED PEA GRAVEL (AS REQUIRED)

\* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI CL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

\*\* CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

# CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

**FIRE HYDRANT ASSEMBLY**  
PER CITY OF WICHITA SPECIFICATIONS



**TRACER WIRE**  
Conductive type pipe locator/tracer wire shall be installed to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. Split-bolt connectors shall be used at splice locations. Electrical tape shall cover all splices so no bare wire is exposed. Test stations shall be installed adjacent to all fire hydrants along the waterline and at blowoffs or valves near the ends of the waterlines. Any exceptions to the location of test stations shall be approved by the engineer. At each test station, the tracer wire shall be connected to a 3 lb. Zinc or magnesium anode. Anodes shall also be attached to the tracer wire at both the beginning and the end of the proposed waterline. A typical layout of the tracer wire and test station is provided in the above figure.

**WIRE**  
The tracer wire shall be Blue No. 12 THHN annealed soft copper wire with thermal plastic insulation or Blue No. 12 AWG CCS with 30 mil HDPE insulation. The insulation shall be heat, oil, and gasoline resistant as manufactured by Temple Electric or approved equal. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. The insulation sheathing shall be removed such that 1" bare copper wire is at all points of connection. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

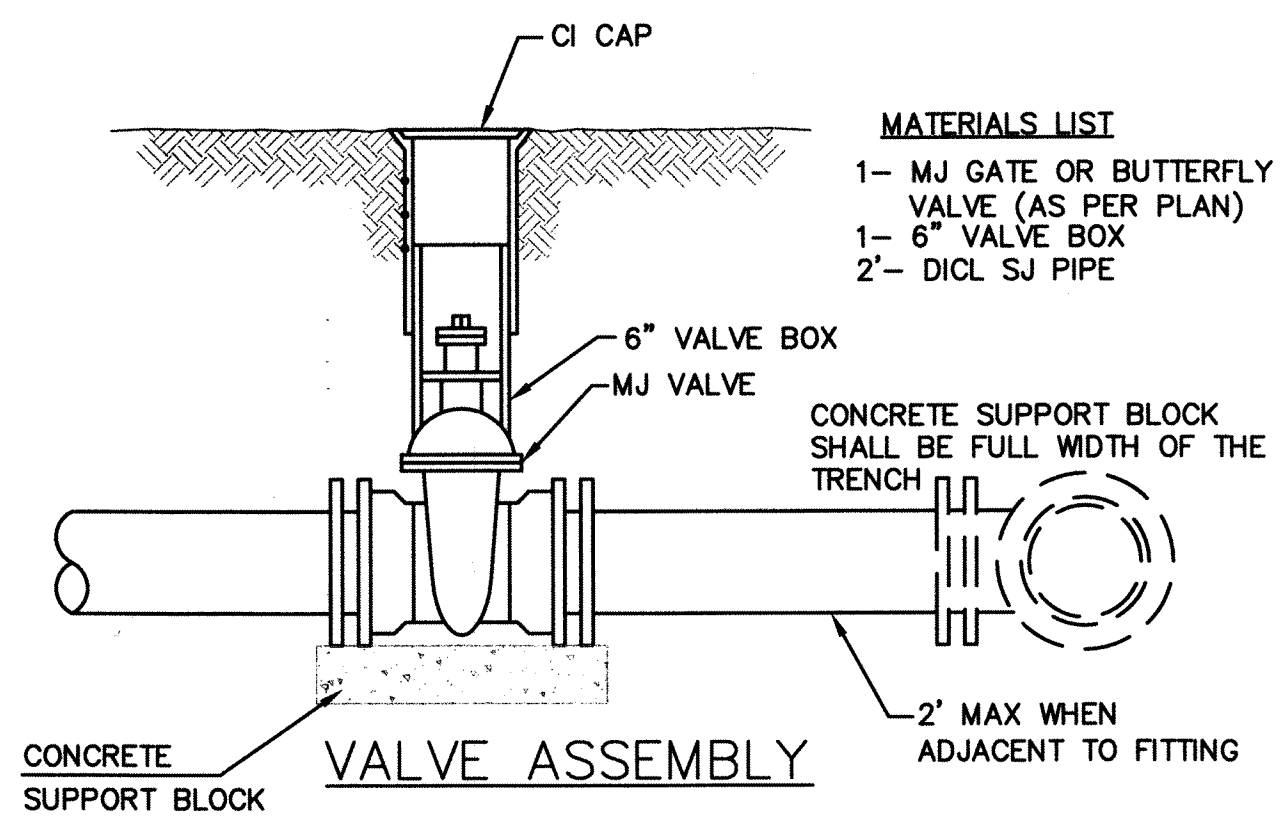
**TEST STATIONS**  
The test station for fire hydrant applications shall be a 1 inch galvanized "conduit" style test station as manufactured by AGRA Industries with a removable solid cover having two leads extending from the face or approved equal. The test station for valve applications shall be 2 inch flush style test station T2PS3B as manufactured by HANDLEY Industries or approved equal. The "conduit" style test station shall be attached to a 1 inch rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be installed to allow 10 inches of wire within the test station. In concrete environments such as sidewalks or in the downtown area the contractor shall use the flush style test station. The location of all test stations shall be approved by the engineer, recorded, and shown in the as-built drawings.

**ANODES**  
The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to Black No. 12 THHN annealed soft copper wire which shall be extended to the test station.

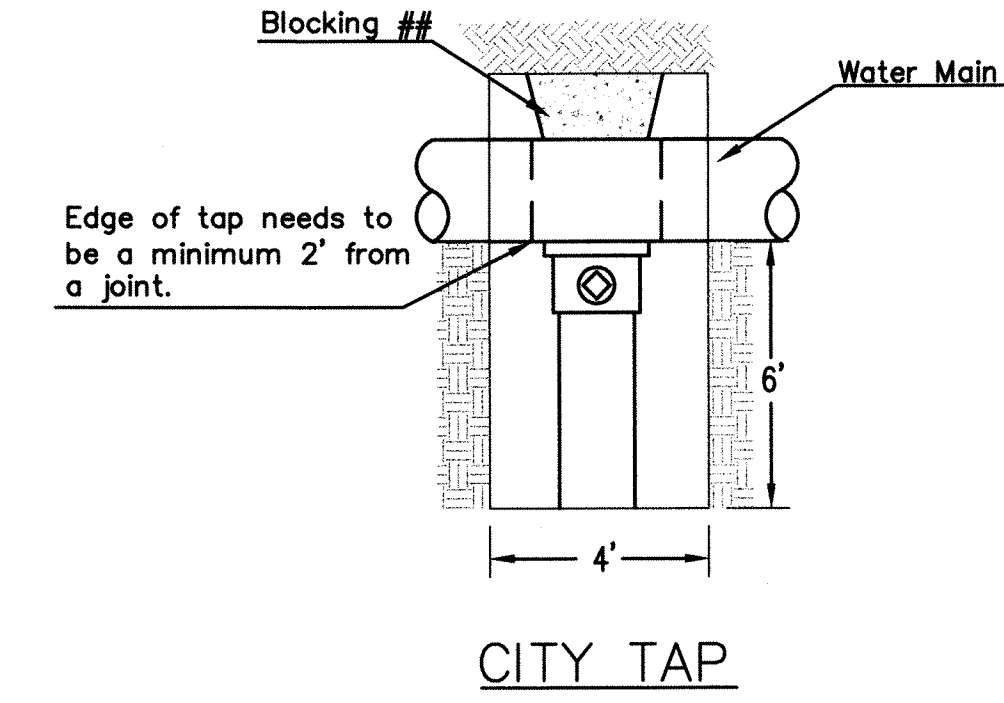
**TRACER WIRE DETAIL**  
COST IS SUBSIDIARY TO PIPE INSTALLATION

**FIRE HYDRANTS REQUIRED**

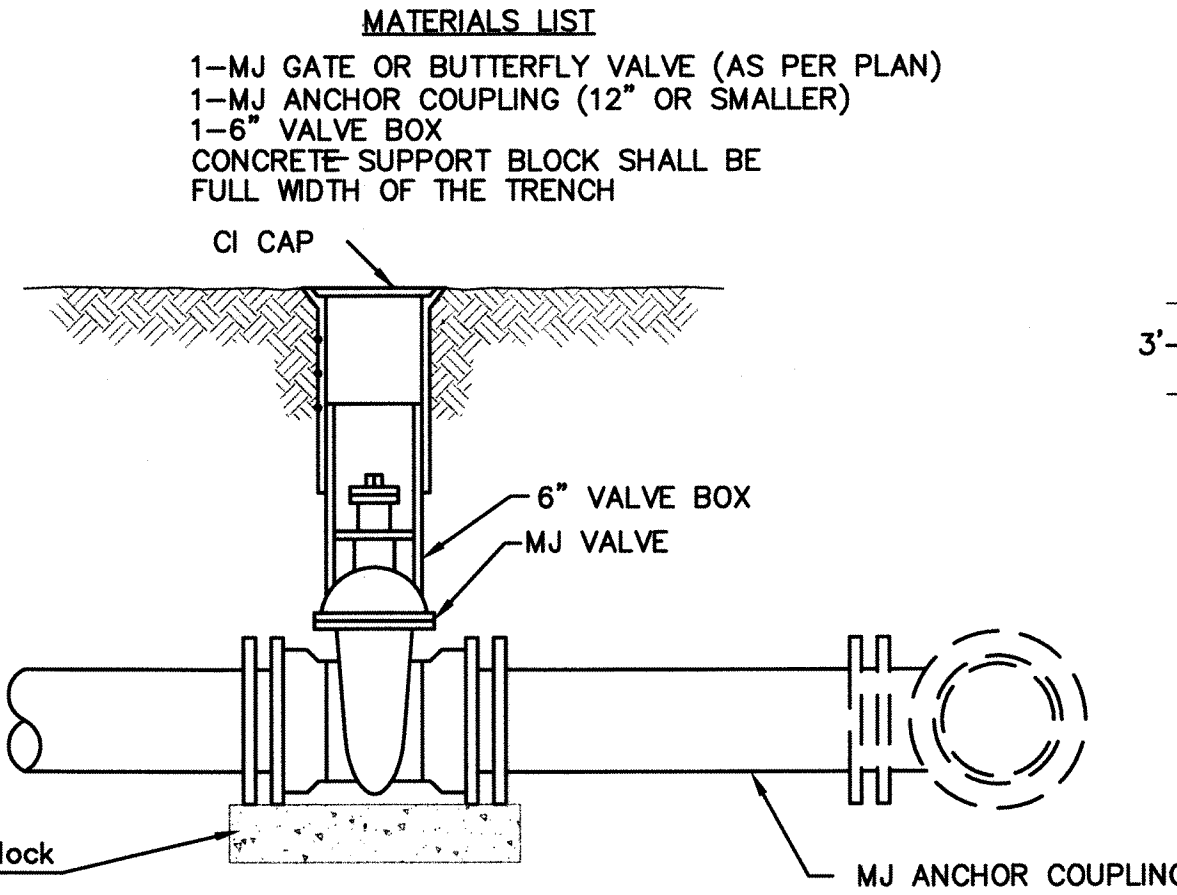
LINE	STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
1B	0+45.88	1317.00	1311.85	6.0'	
1C	0+30.71	1318.40	1311.55	5.0'	2.5'
1D	2+86.29	1318.30	1313.95	5.0'	



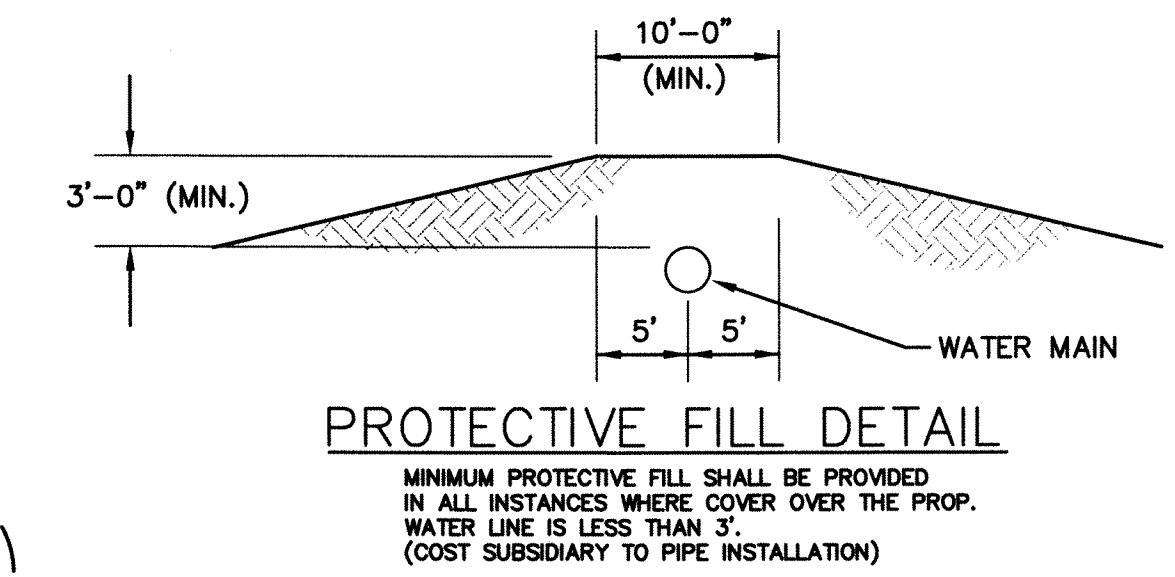
- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- 6" VALVE BOX
  - 2- 6" DI CL SJ PIPE



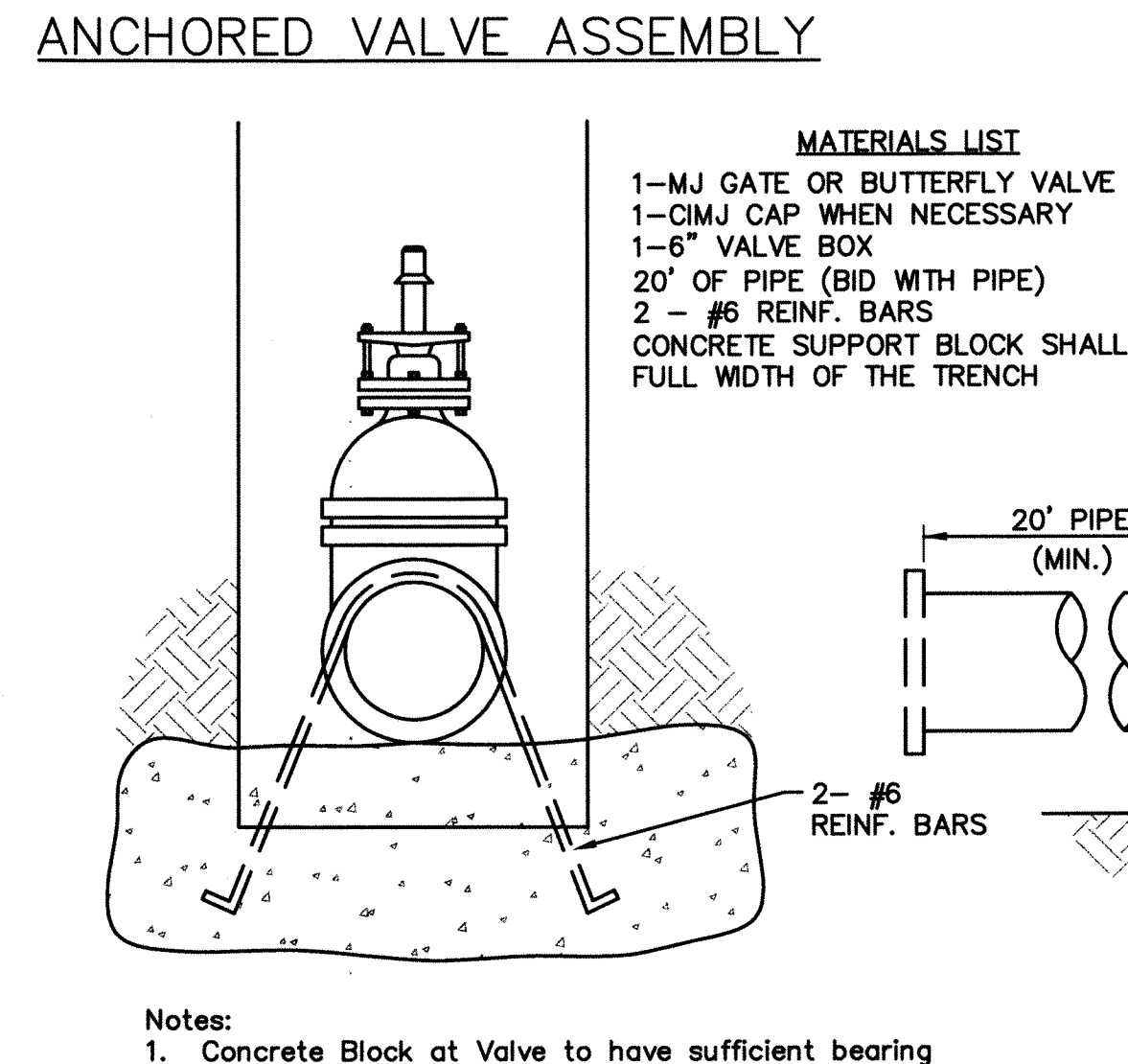
## When the City of Wichita makes tap, blocking is to be done by Contractor



- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- MJ ANCHOR COUPLING (12" OR SMALLER)
  - 1- 6" VALVE BOX
  - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3". (COST SUBSIDIARY TO PIPE INSTALLATION)

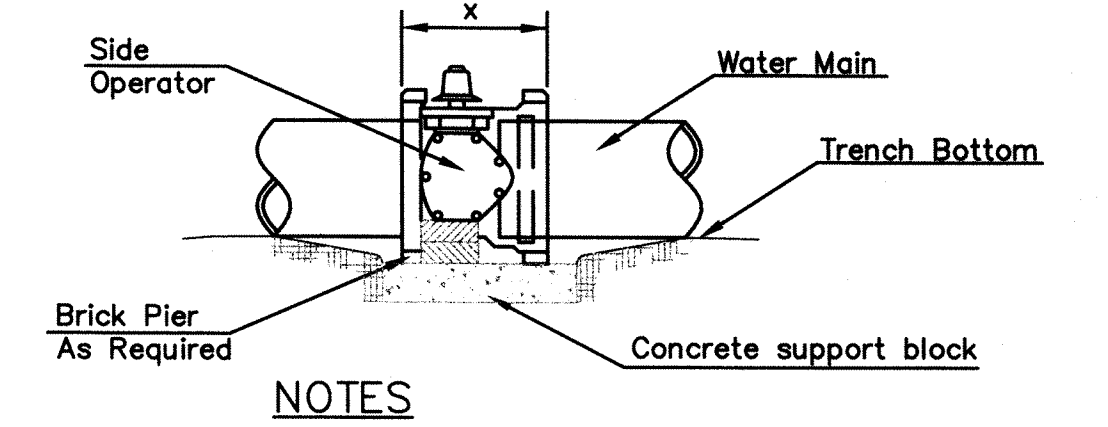


- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- CIMJ CAP WHEN NECESSARY
  - 1- 6" VALVE BOX
  - 20' OF PIPE (BID WITH PIPE)
  - 2 - #6 REINF. BARS
  - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
  - The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
  - All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

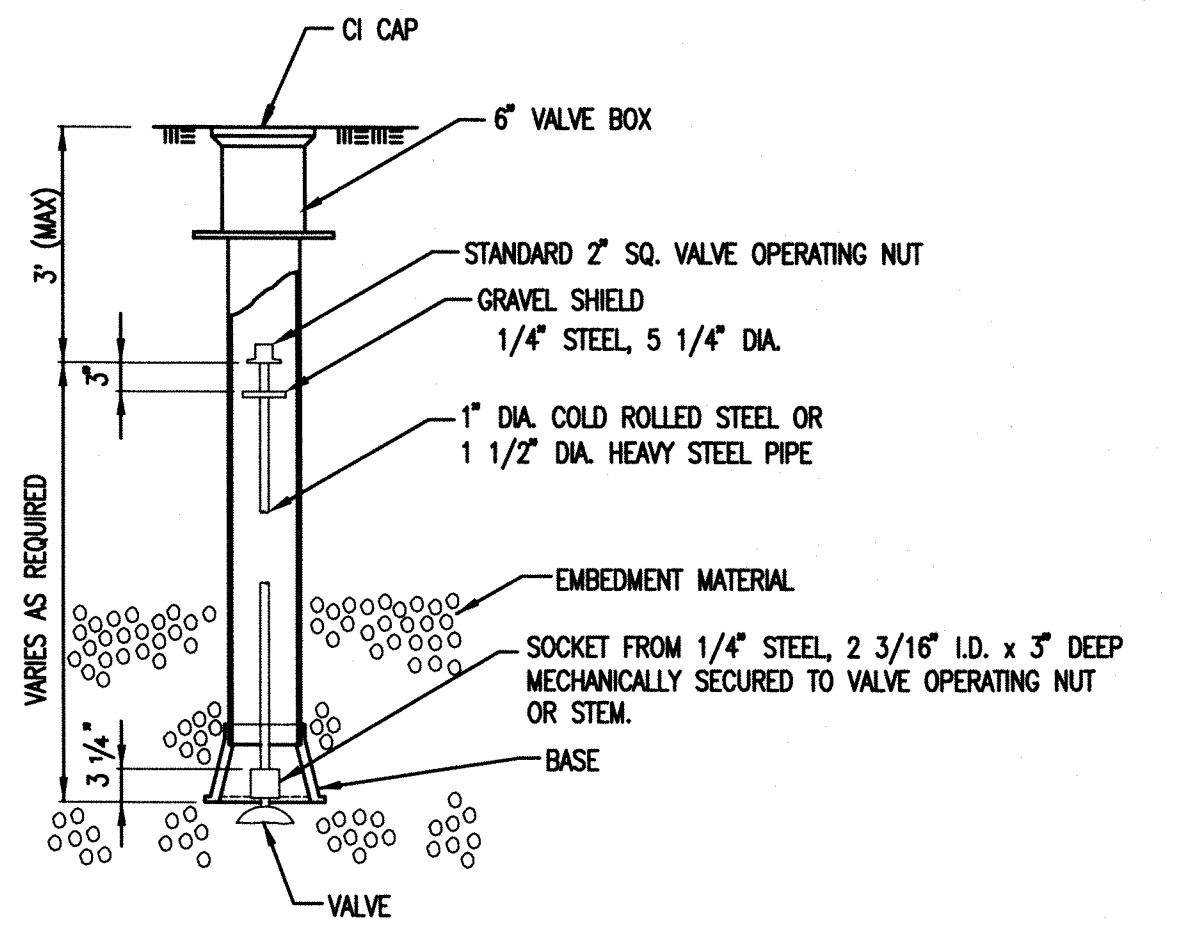
**THRUST AT VALVES**

VALVE	THRUST AT 150 #/sq ft
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

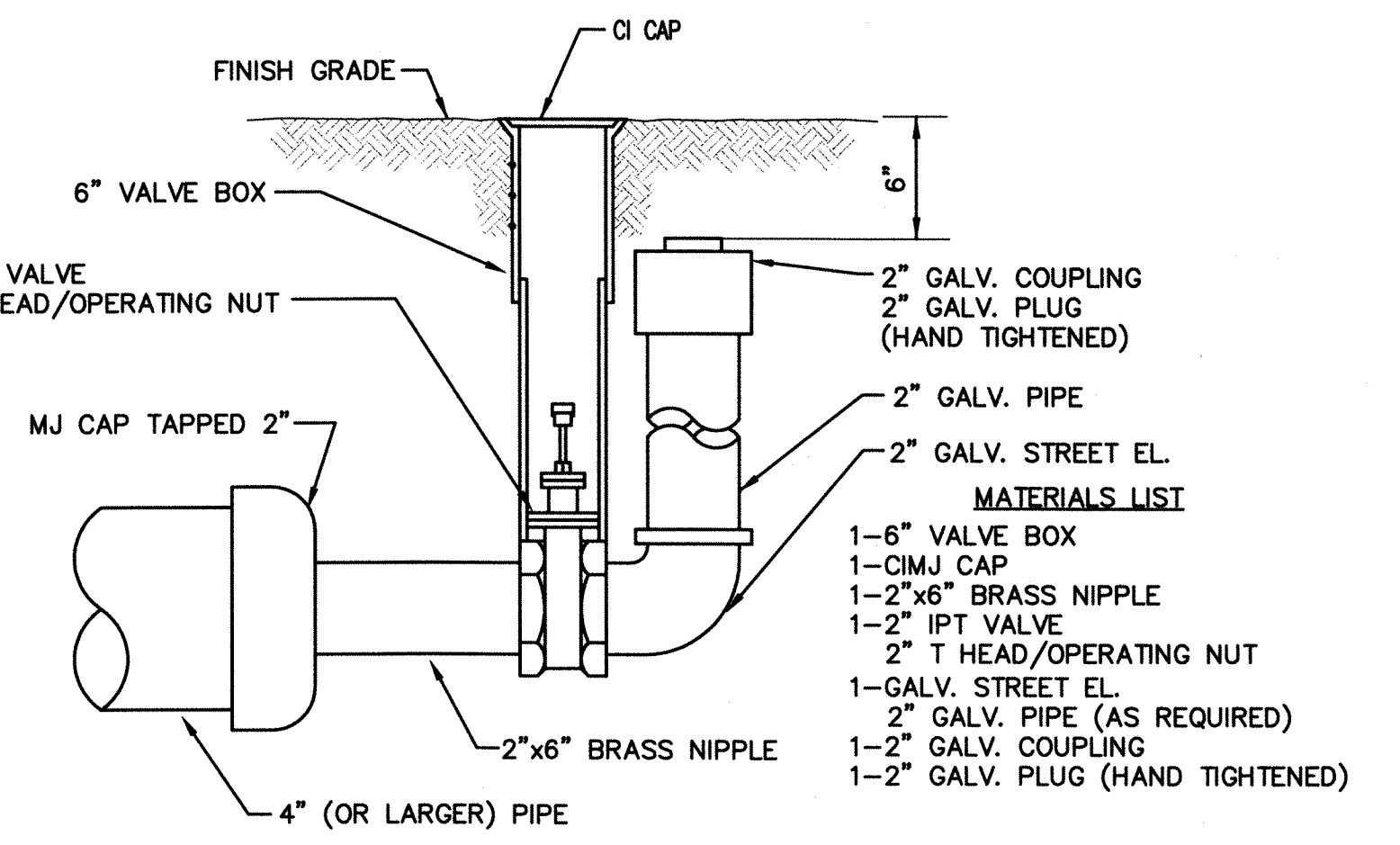


- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
  - 6" Valve Box and Cover required per City of Wichita Std. Specifications.
  - Conc. Support Block to be full width of trench.

**CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION**



NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



**2" BLOWOFF ASSEMBLY**

**CITY OF WICHITA**  
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

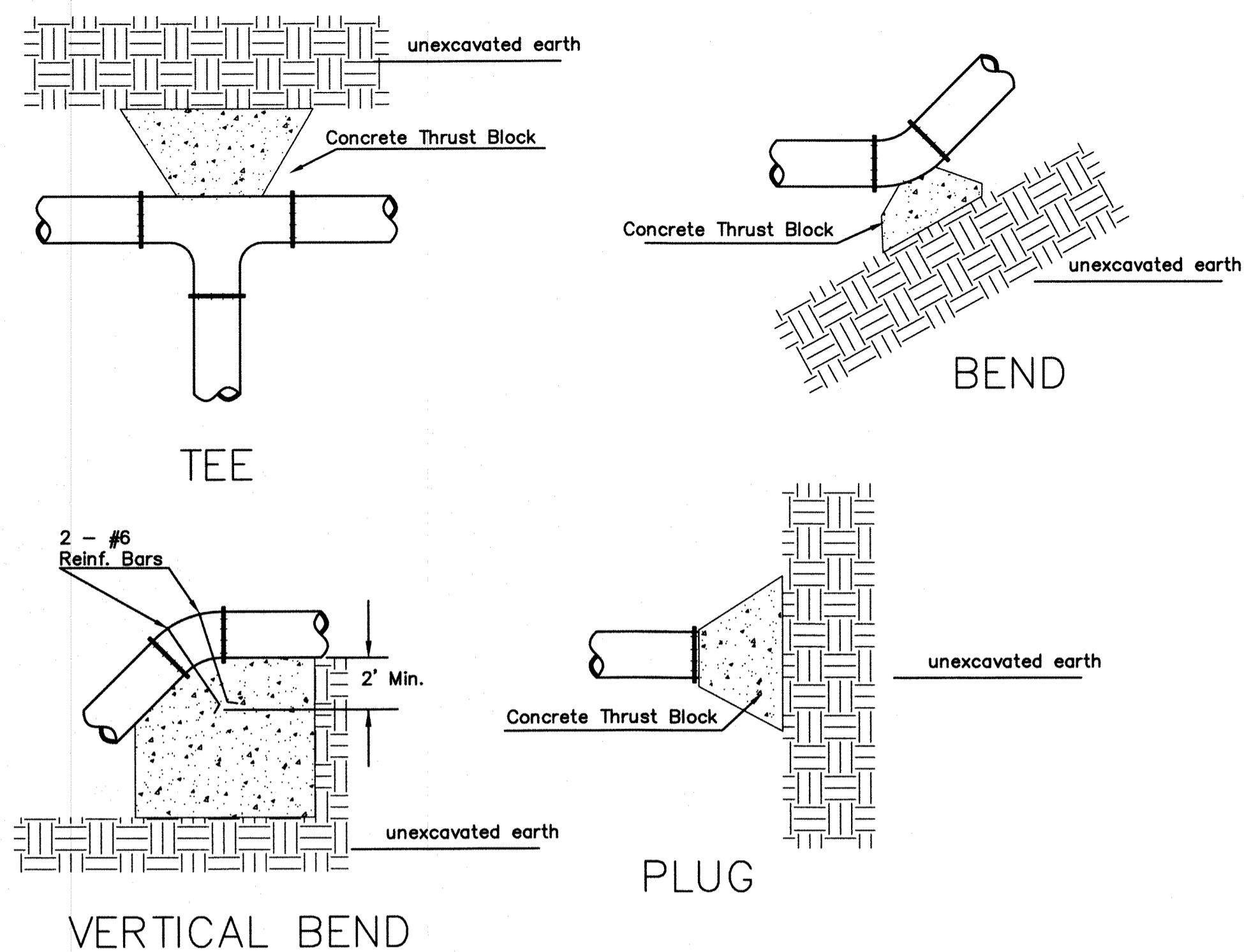
**STANDARD WATER ASSEMBLY DETAIL**

CITY ENGINEER  
**GARY JANZEN, P.E.**

PROJECT NUMBER: OCA NUMBER: DATE:

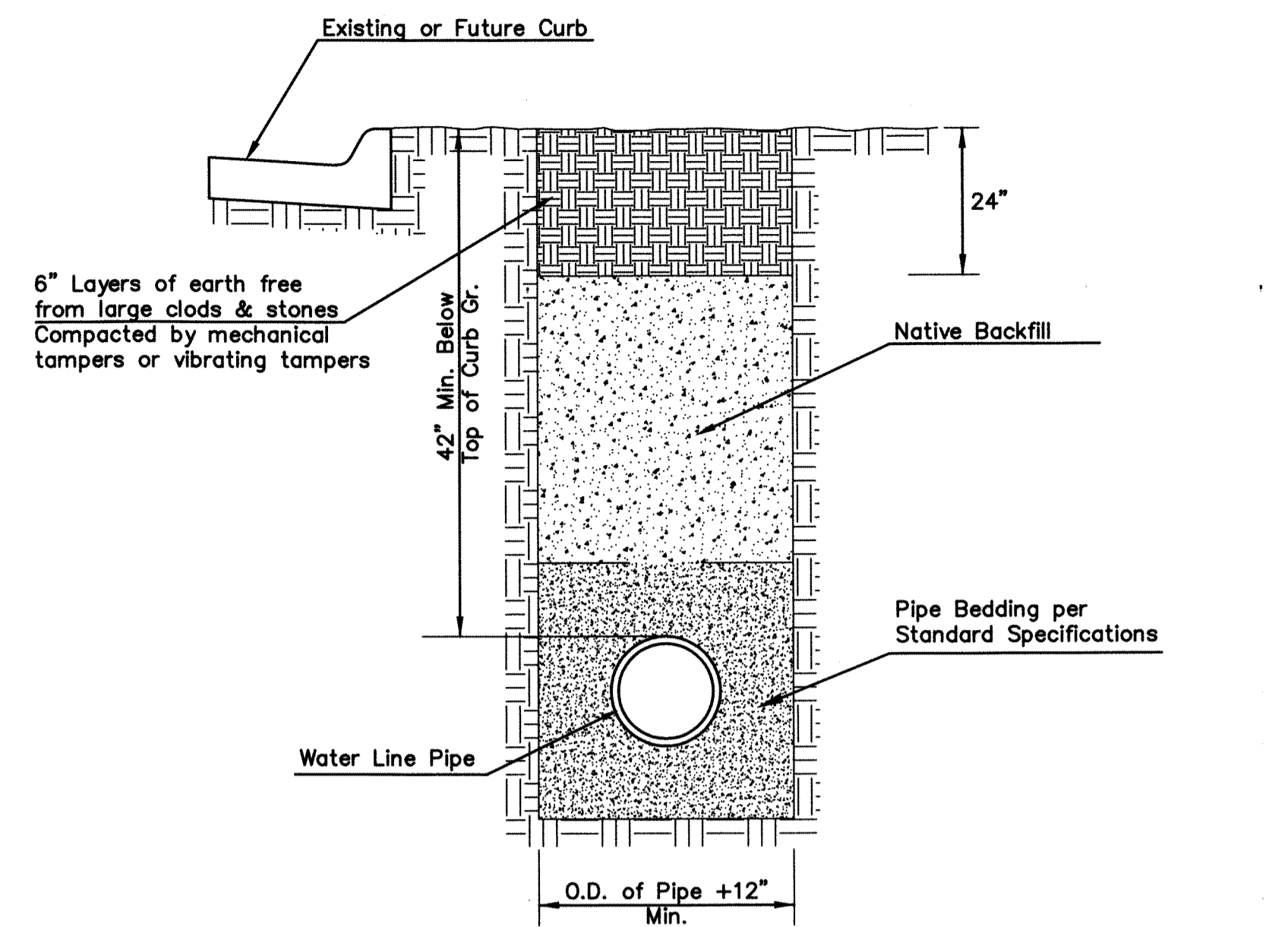
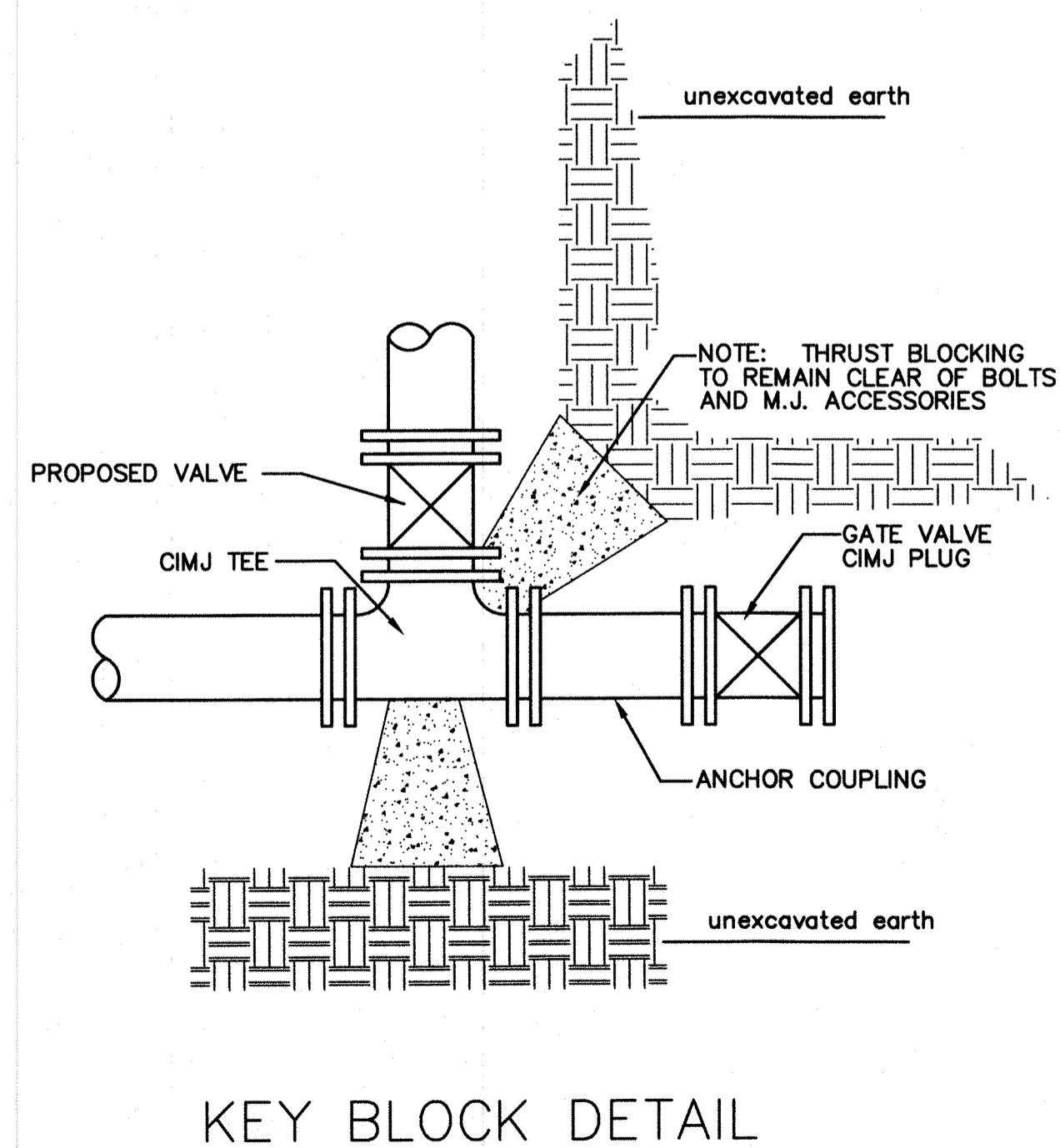
CITY ENGINEER'S OFFICE  
CITY HALL - SEVENTH FLOOR  
435 NORTH MAIN STREET  
WICHITA, KANSAS 67202-1620  
(316) 268-4501

SHEET  
**2 of 7**

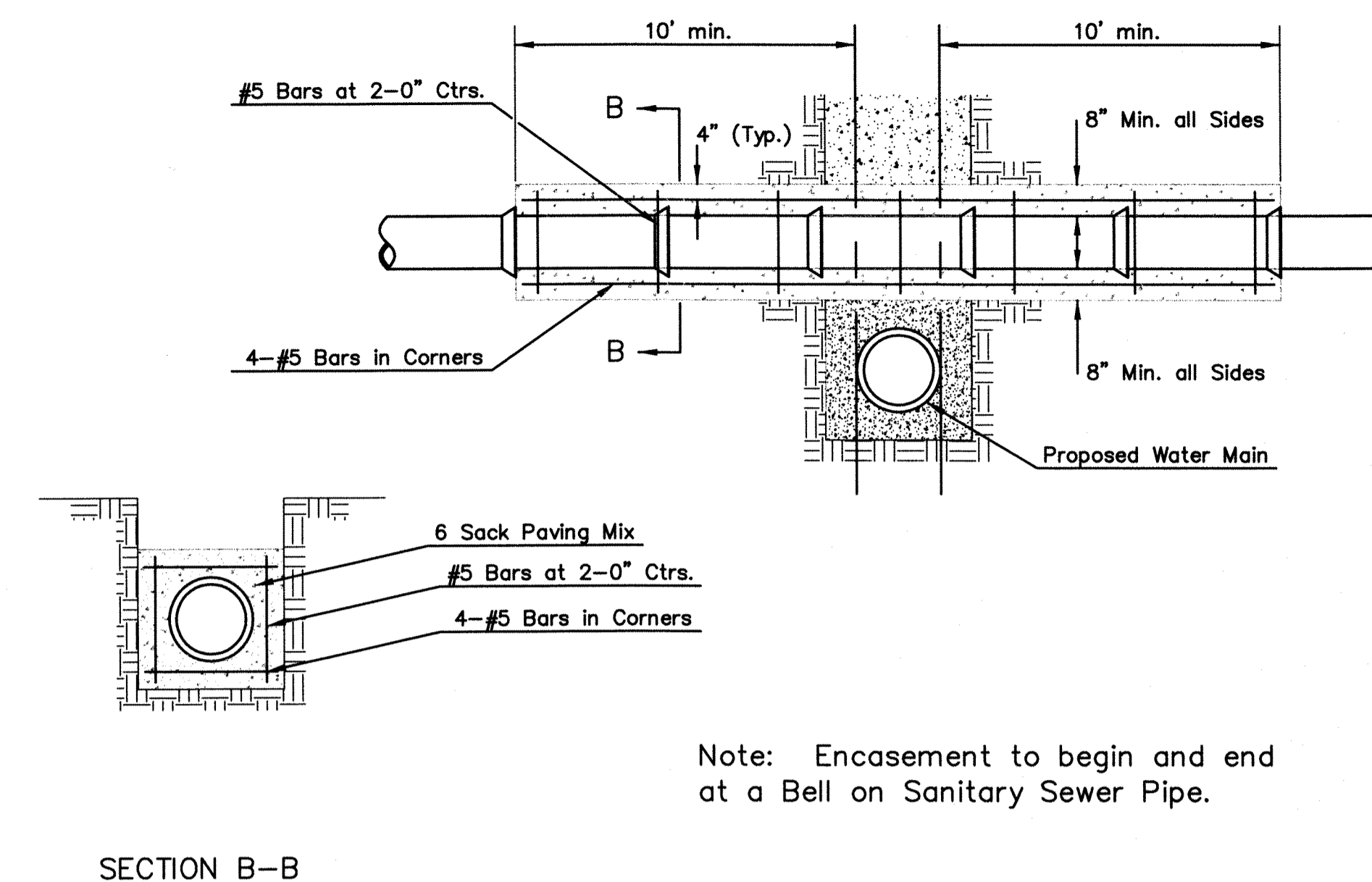


PIPE SIZE	THRUST AT FITTINGS IN TONS - AT 150#/IN <sup>2</sup> P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

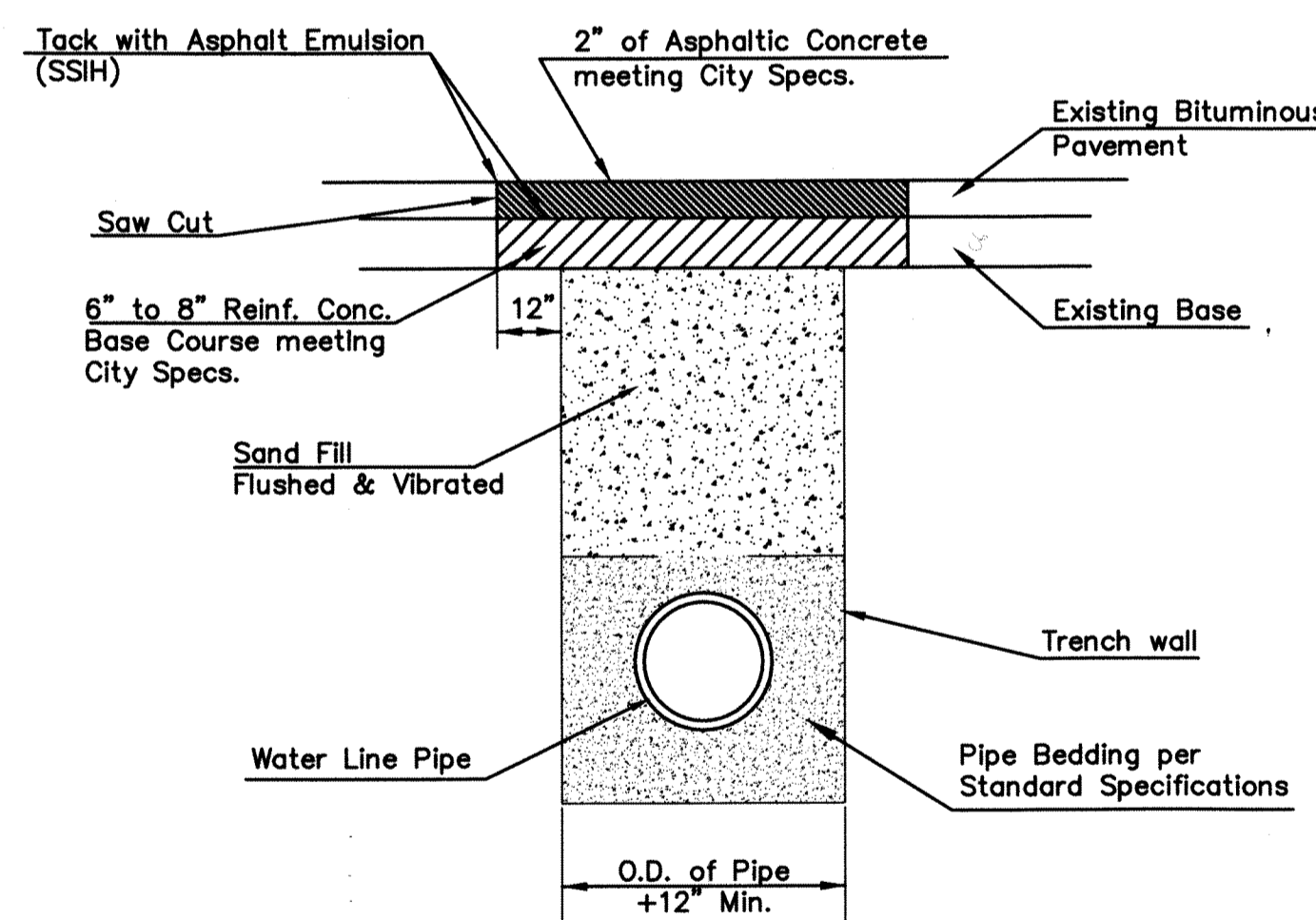
TYPICAL THRUST BLOCKS



TRENCH COMPACTION IN ROAD RIGHT-OF-WAY



REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS

\* PLANS GOVERN UNLESS OTHERWISE NOTED ON PLANS



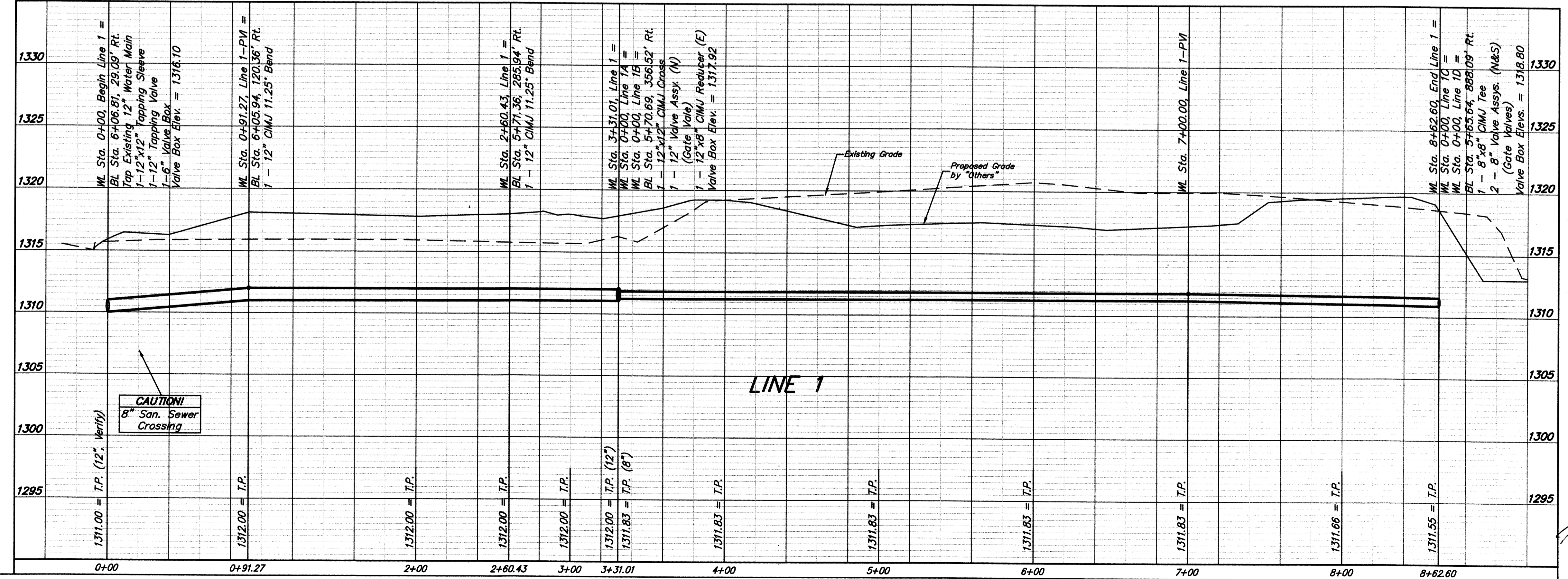
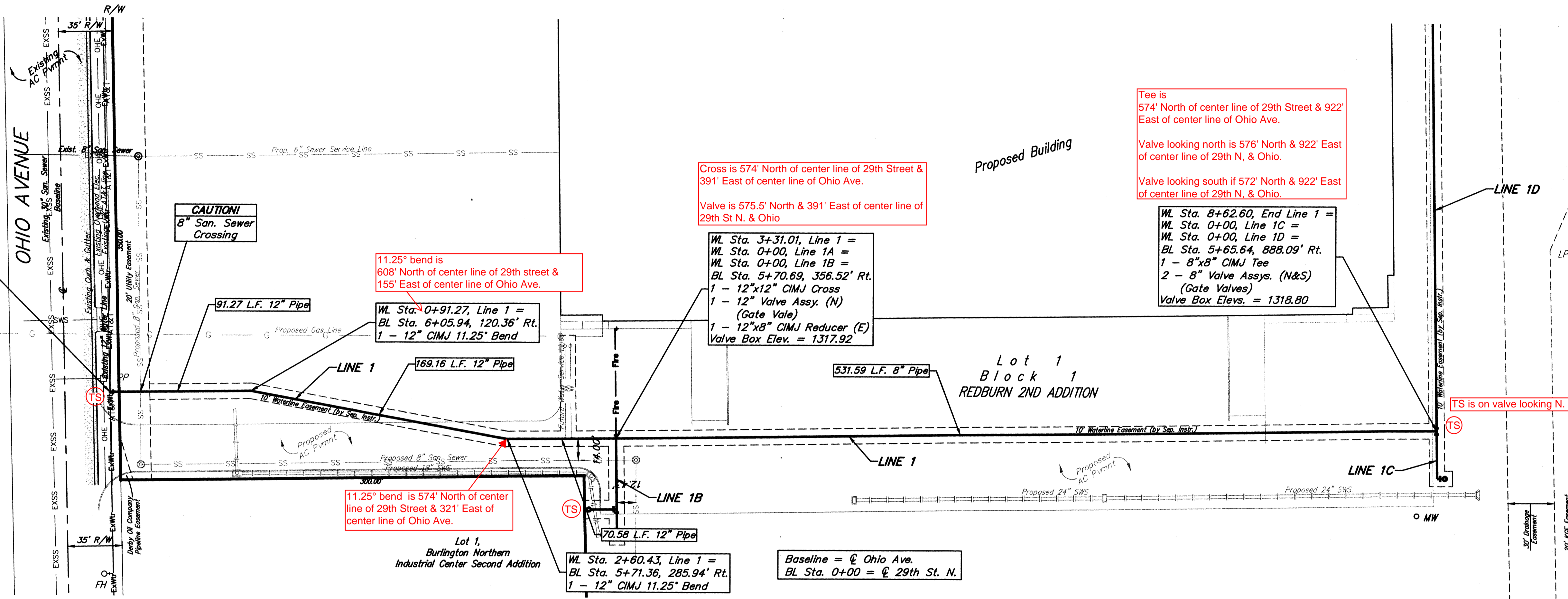
<p>CITY OF WICHITA</p> <p>PUBLIC WORKS &amp; UTILITIES ENGINEERING DIVISION</p>			<p>MISCELLANEOUS WATER DETAILS</p> <p>CITY ENGINEER</p> <p>GARY JANZEN, P.E.</p>		
			PROJECT NUMBER	OCA NUMBER	DATE
<p>CITY ENGINEER'S OFFICE</p> <p>CITY HALL - SEVENTH FLOOR</p> <p>455 NORTH MAIN STREET</p> <p>WICHITA, KANSAS 67202-1620</p> <p>(316) 268-4501</p>			<p>3 of 7</p>		

**BENCHMARK**

"□" cut top of curb adjacent to the southwest corner of Lot 1, Block 1, Redburn 2nd Addition.  
Elevation = 1315.40 NAVD88

WL Sta. 0+00, Begin Line 1 =  
BL Sta. 6+06.81, 29.09' Rt.  
Tap Existing 12" Water Main  
1-12"x12" Tapping Sleeve  
1-12" Tapping Valve  
1-6" Valve Box  
Valve Box Elev. = 1316.10  
Contractor to verify depth & location of existing 12" water line prior to construction.  
Tapping saddle, tapping valve & valve box to be furnished and installed by the City of Wichita Water Dept. Contractor to reimburse the City \$ for tap.

608' North of center line of 29th street & 30' East of center line of Ohio Ave.



Tee is 574' North of center line of 29th Street & 922' East of center line of Ohio Ave.  
Valve looking north is 576' North & 922' East of center line of 29th N. & Ohio.  
Valve looking south is 572' North & 922' East of center line of 29th N. & Ohio.

Cross is 574' North of center line of 29th Street & 391' East of center line of Ohio Ave.  
Valve is 575.5' North & 391' East of center line of 29th St N. & Ohio

WL Sta. 3+31.01, Line 1 =  
WL Sta. 0+00, Line 1A =  
WL Sta. 0+00, Line 1B =  
BL Sta. 5+70.69, 356.52' Rt.  
1 - 12"x12" CIMJ Cross  
1 - 12" Valve Assy. (N)  
(Gate Valve)  
1 - 12"x8" CIMJ Reducer (E)  
Valve Box Elev. = 1317.92

WL Sta. 8+62.60, End Line 1 =  
WL Sta. 0+00, Line 1C =  
WL Sta. 0+00, Line 1D =  
BL Sta. 5+65.64, 888.09' Rt.  
1 - 8"x8" CIMJ Tee  
2 - 8" Valve Assys. (N&S)  
(Gate Valves)  
Valve Box Elevs. = 1318.80

11.25° bend is 608' North of center line of 29th street & 155' East of center line of Ohio Ave.

11.25° bend is 574' North of center line of 29th Street & 321' East of center line of Ohio Ave.

Baseline =  $\phi$  Ohio Ave.  
BL Sta. 0+00 =  $\phi$  29th St. N.

**Baughman Company, P.A.**  
Professional Engineer  
21190  
02-14  
KANSAS  
PROFESSIONAL ENGINEER

Redburn 2nd Addition  
**LINE 1**  
Sanitary Sewer Improvements

**BUILT TO PLAN**





# REDBURN 2ND ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

STATE OF KANSAS }  
COUNTY OF SEDGWICK } SS

I, JAMES P. MOORE, A REGISTERED LAND SURVEYOR IN AFORESAID STATE AND COUNTY DO HEREBY CERTIFY THAT ON THIS 22<sup>nd</sup> DAY OF October 1997. I HAVE CAUSED TO BE SURVEYED AND PLATTED REDBURN 2ND ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS, INTO A LOT AND A BLOCK THE SAME BEING DESCRIBED AS FOLLOWS:

A TRACT OF LAND IN THE SOUTHEAST QUARTER OF SECTION 33, TOWNSHIP 26 SOUTH, RANGE 1 EAST OF THE SIXTH PRINCIPAL MERIDIAN, SEDGWICK COUNTY, KANSAS, DESCRIBED AS BEGINNING AT A POINT ON THE EAST LINE OF OHIO STREET AS PLATTED IN BURLINGTON NORTHERN INDUSTRIAL CENTER, SAID POINT ALSO BEING THE N.W. CORNER OF LOT 1, BURLINGTON NORTHERN INDUSTRIAL CENTER SECOND ADDITION; THENCE NORTH ALONG THE EAST LINE OF SAID OHIO STREET, 350.00 FEET; THENCE EAST PARALLEL WITH THE SOUTH LINE OF SAID SOUTHEAST QUARTER, TO THE WESTERLY RIGHT OF WAY LINE OF INTERSTATE HIGHWAY 135; THENCE SOUTHERLY ALONG SAID RIGHT OF WAY TO A POINT 180.00 FEET NORTH OF THE SOUTH LINE OF SAID QUARTER SECTION; THENCE WEST PARALLEL WITH AND 180.00 FEET NORTH OF THE SOUTH LINE OF SAID QUARTER SECTION TO THE SOUTHEAST CORNER OF LOT 2, BURLINGTON NORTHERN INDUSTRIAL CENTER SECOND ADDITION; THENCE NORTH ALONG THE EAST LINE OF SAID ADDITION, 370.00 FEET TO THE NORTHEAST CORNER OF LOT 1, IN SAID ADDITION; THENCE WEST ALONG THE NORTH LINE OF SAID LOT 1, 300.00 FEET TO THE POINT OF BEGINNING.

*James P. Moore*  
JAMES P. MOORE, R.L.S. NO. 829  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

KNOW ALL MEN BY THESE PRESENTS THAT WE, THE UNDERSIGNED PROPERTY OWNERS OF THE LAND AS ABOVE SET FORTH IN THE SURVEYOR'S CERTIFICATE, HAVE CAUSED THE LAND TO BE SURVEYED AND PLATTED INTO A LOT AND A BLOCK, THE SAME TO BE KNOWN AS REDBURN 2ND ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS.

EASEMENTS FOR CONSTRUCTION AND MAINTENANCE OF PUBLIC UTILITIES ARE HEREBY GRANTED.

ALL ABUTTER'S RIGHTS OF ACCESS TO AND FROM I-135 HIGHWAY ALONG THE EAST LINE OF BLOCK 1, IS HEREBY GRANTED TO THE CITY OF WICHITA, KANSAS.

MINIMUM PAD ELEVATION (LOWEST OPENING) FOR LOT 1, BLOCK 1 SHALL BE ELEV.=128.5 CITY DATUM  
ELEV.=1315.9 M.S.L.

OWNER: CENTRAL DETROIT DIESEL - ALLISON, INC.

By: *Jon S. Hayes*  
JON S. HAYES, VICE PRESIDENT

STATE OF KANSAS }  
COUNTY OF SEDGWICK }

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE THIS 26<sup>th</sup> DAY OF October, 1997, BY JON S. HAYES, VICE PRESIDENT OF CENTRAL DETROIT DIESEL - ALLISON, INC.

*Gary L. Wiley*  
GARY L. WILEY, NOTARY PUBLIC



MY APPOINTMENT EXPIRES: 1-15-2001

THIS PLAT HAS BEEN SUBMITTED TO AND APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS. DATED THIS 11<sup>th</sup> OF September, 1997.

*John C. Frye* CHAIRMAN

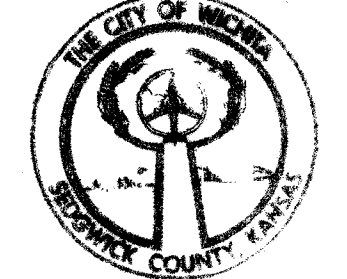
*Marvin S. Krout* SECRETARY



THIS PLAT APPROVED AND ALL DEDICATIONS SHOWN HEREON ARE ACCEPTED BY THE CITY COUNCIL OF THE CITY OF WICHITA, KANSAS. DATED THIS 18<sup>th</sup> DAY OF November, 1997.

*Bob Knight* MAYOR

*Pat Burnett* CITY CLERK



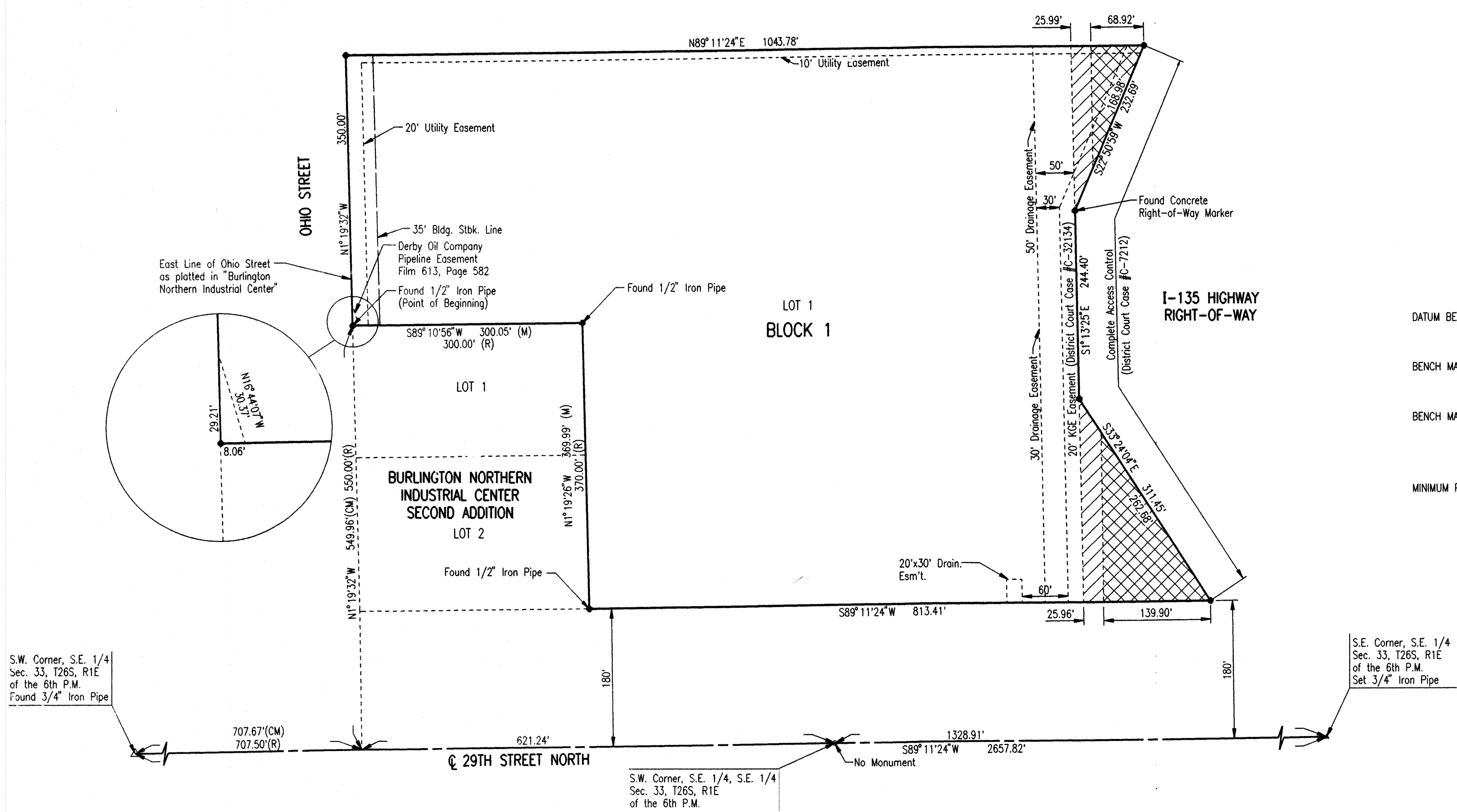
ENTERED ON TRANSFER RECORD THIS 14<sup>th</sup> DAY OF January, 1998.

*James Alford* COUNTY CLERK

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT Wichita, ON THIS 19 DAY OF January, 1998.

*Larry Consolver* REGISTER OF DEEDS

*Michael D. Hurtt* DEPUTY



SCALE: 1"=100'  
● = 3/4" IRON SET (EXCEPT AS NOTED)  
M = MEASURED  
R = RECORD  
CM = CALCULATED FROM MEASURED

DATUM BENCH MARK: RAILROAD SPIKE EMBEDDED IN CONCRETE HUBGUARD, S.W. CORNER RCBC UNDER OHIO ST. 75± NORTH OF :29TH STREET NORTH. ELEV.=129.61

BENCH MARK 1: CHISELED "d" IN TOP @ HEADWALL OF OUTFALL OF AREA INLET, EAST OF S.W. PROPERTY CORNER. ELEV.=128.89

BENCH MARK 2: CHISELED "d" IN TOP OF PIPE OF OUTFALL OF AREA INLET, WEST OF S.F. PROPERTY CORNER. ELEV.=124.73

MINIMUM PAD ELEVATION (LOWEST OPENING) FOR LOT 1, BLOCK 1 SHALL BE ELEV.=128.5 CITY DATUM  
ELEV.=1315.9 M.S.L.

**LEGEND**

Blanket Gas Service Co. Easement Misc. Book 377, Page 176

Blanket Phillips Pipeline Easement Misc. Book 98, Page 211 and Blanket Gas Service Co. Easement Misc. Book 377, Page 176

#1659674



DSMR: JEN OPER: DEP SCALE: 1"=100.00  
G:\1997\19719\FINAL 10-09-1997 1:40:19 pm

20.00 CK

PC 82-3