

# AS BUILT PLANS

Contractor: Dondlinger  
 Inspector: David Vancycle, Baughman Co.  
 pdfs by: KEK, 9/25/15



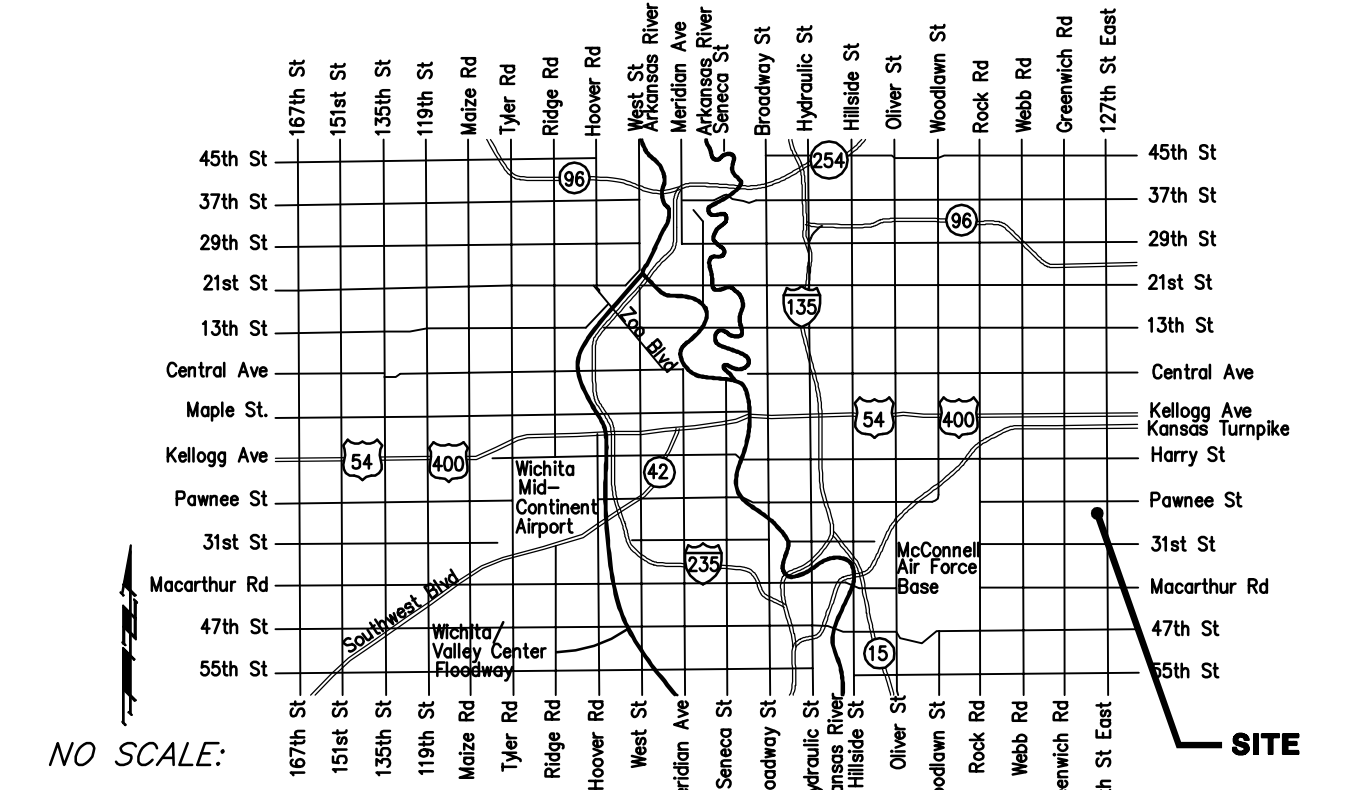
PRIVATE WATER LINE TO SERVE  
**Southeast High School**  
 Lot 1, Block 1, USD 259 4th Addition  
**City of Wichita Private Project Number:  
 1861 PPW (607853)**  
**DECEMBER 2014**  
**Gary Janzen, P.E. - City Engineer**

Scale: 1" = 180'  
 • = Iron

### BENCHMARK

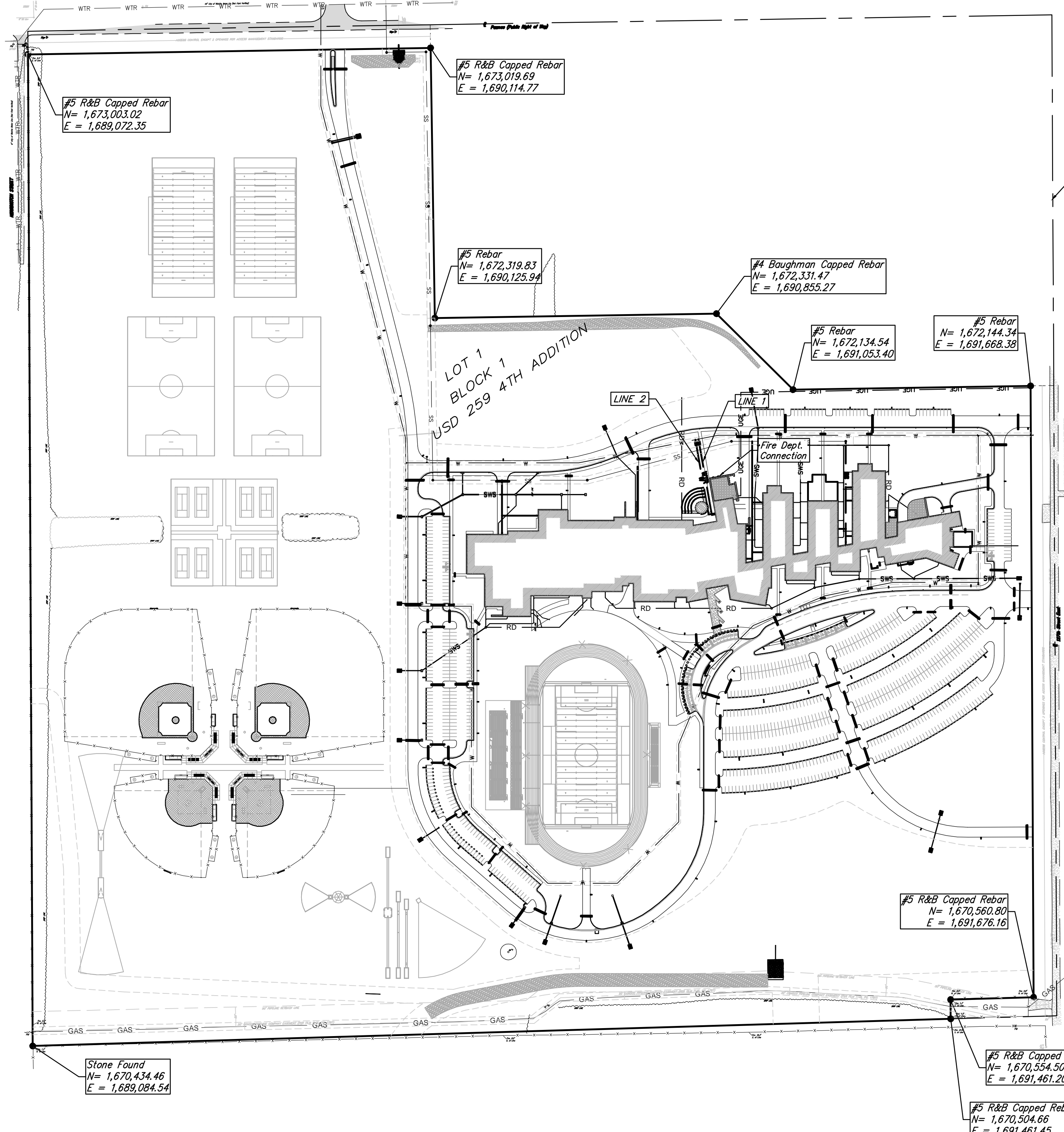
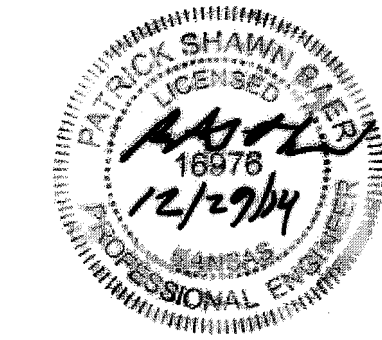
**BENCHMARK #1**  
 Chiseled square on top of median at the entrance of Casa Bella Addition  
 Elevation = 1354.46 (NAVD88)

**BENCHMARK #2**  
 Railroad spike in west face of power pole located approximately 1185± south of the intersection of Pawnee and 127th Street East and approximately 26± east of the centerline of 127th Street East  
 Elevation = 1362.34 (NAVD88)



NO SCALE:

VICINITY MAP



**CONTROL POINT**  
 N = 1,709,988.83  
 E = 1,673,520.16

### Index

- Title Sheet 1
- Water Detail Sheet 2
- Trench Detail Sheet 3
- Vault Detail Sheet 4
- Water Line 1 & 2 5
- Plot Copy 6

Details available at City of Wichita web site at <http://www.wichita.gov/Government/Department/PWU/StandardsConstruction> or by request.

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

Public Works *Rebecca Miel* 12/30/14  
 Water & Sewer *Anna Jolly* 12/31/14  
 Fire *[Signature]* 12/30/14

**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.

### GENERAL NOTES:

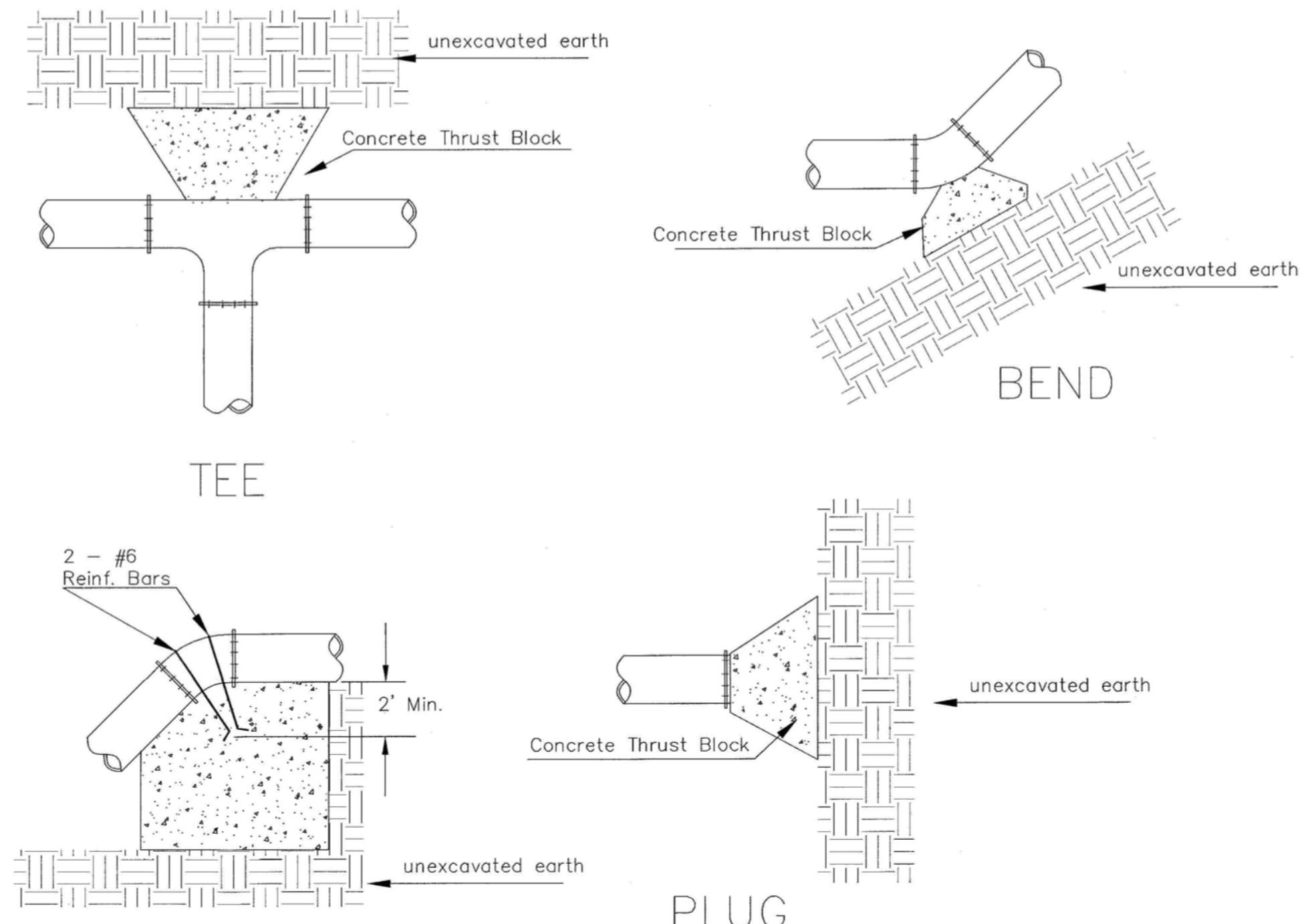
1. Contractor will be required to provide notice to utility companies a minimum of forty-eight (48) hours prior to any excavation, as follows:  
 Kansas One-Call 687-2470  
 The Contractor must notify the following in case of an emergency:  
 Cox Communications 262-4270  
 Kansas Gas Service 1-888-482-4950  
 Westar Energy 383-8650  
 Black Hills Energy (Gas) 1-800-303-0357  
 ATT 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
2. 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.
3. 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 "patted" with forks or punched into soil to reduce loss due to wind.
4. 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.
5. Contractor to obtain pavement cut permit prior to pavement removal. Pavement replacement will be completed by City Contractor with cost of replacement to be reimbursed by Utility Contractor. 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.
6. 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.
7. 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.
8. All water lines and appurtenances shall be installed in accordance with the most recent edition of City of Wichita, Kansas Standard Specifications for the Construction of City Projects.
9. 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.
10. Contractor to use extreme caution when excavating near utility lines. Contractor to hand dig to expose all utility lines prior to construction. verify depth to determine conflict if any.
11. Contractor shall follow all applicable best management practices (BMP) for erosion control. Details available at City of Wichita web site at <http://www.wichita.gov/Government/Departments/PWU/StandardsConstruction/> or by request.
12. The Water line 1 & 2 of this project are private water lines. The owner is responsible for the maintenance and repair of the private lines.



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

F:\Projects\USD 259 SE High School Site (14-06-E086)\Engineering\SE\_BASE PH2 PPW.dwg

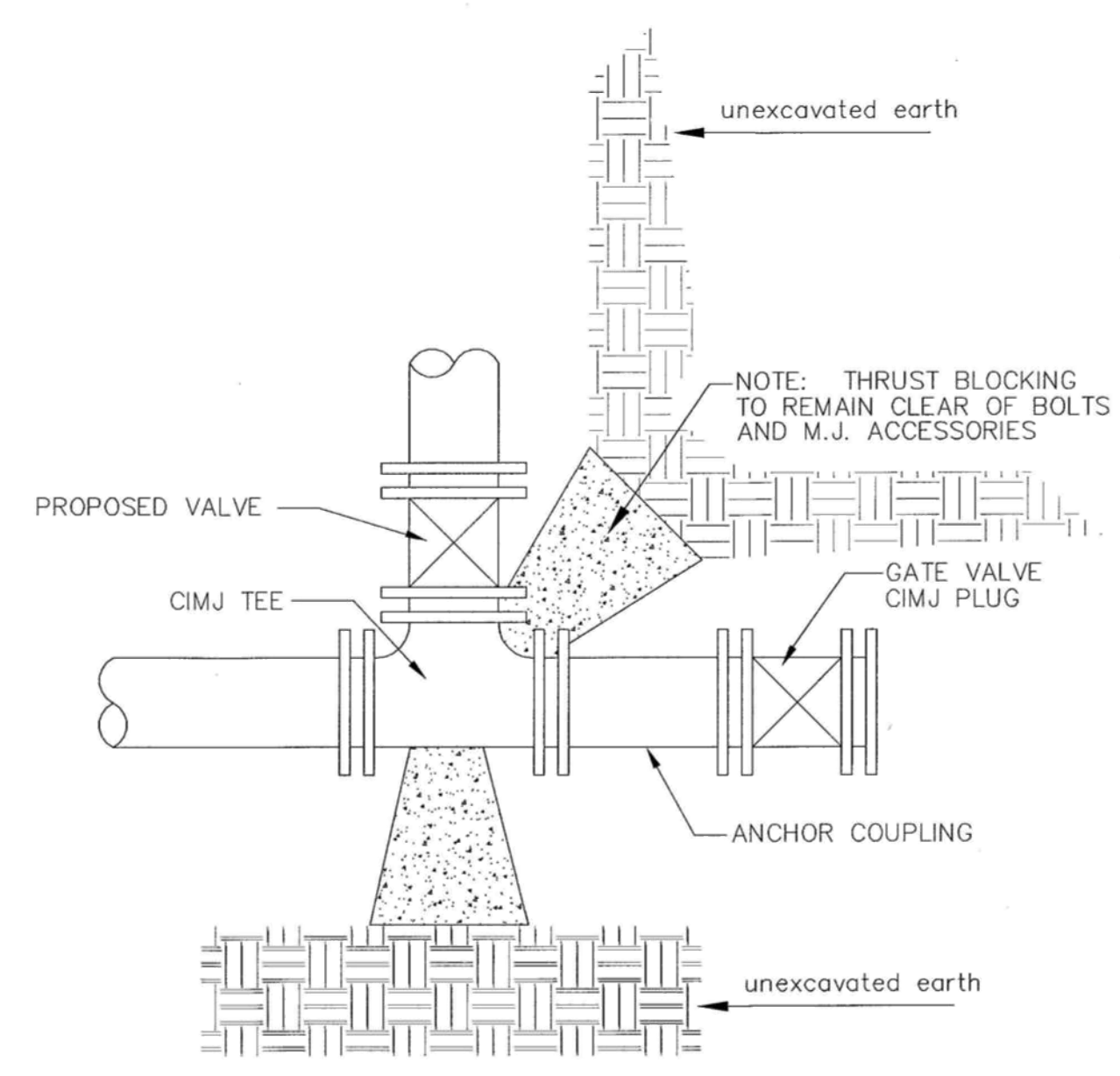




VERTICAL BEND

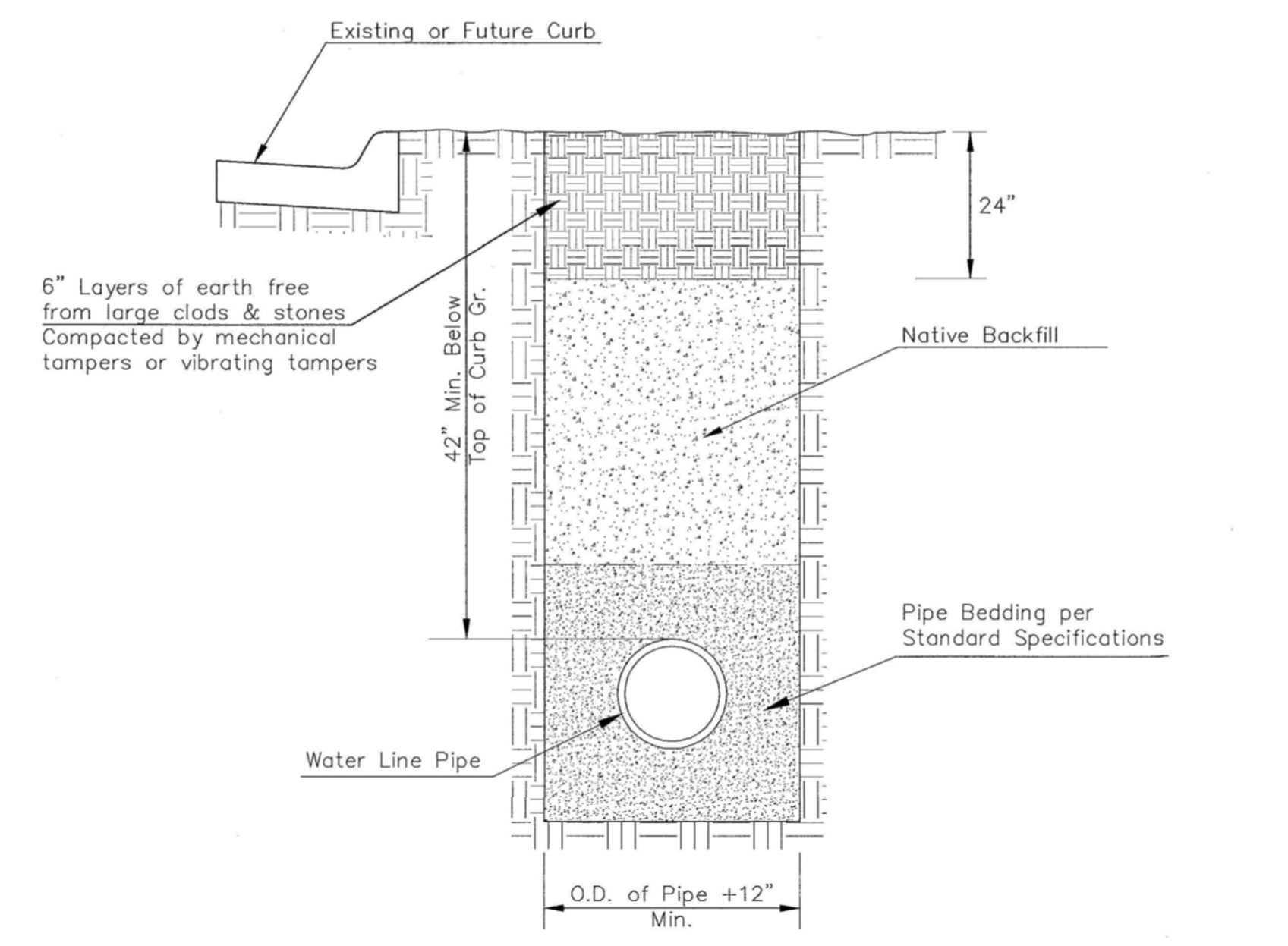
PIPE SIZE	THRUST AT FITTINGS IN TONS-AT 150#/IN <sup>2</sup> P					
	PLUG	90°	45°	22 1/2'	11 1/4'	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS

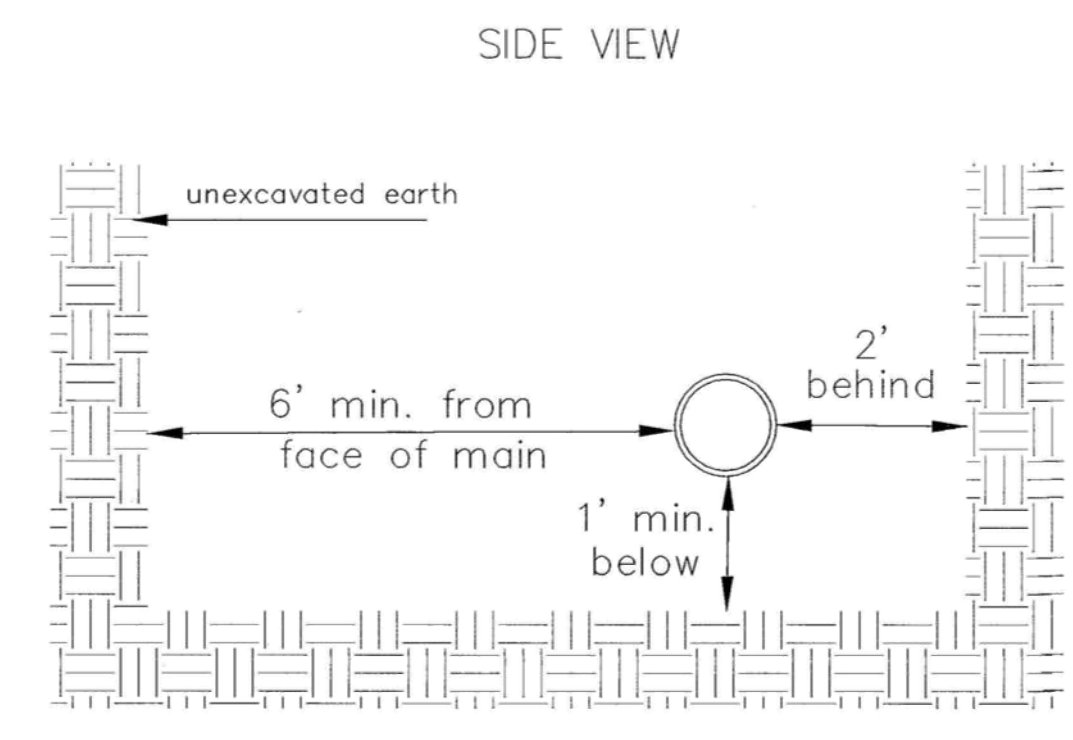


KEY BLOCK DETAIL

\* PLANS GOVERN  
UNLESS OTHERWISE NOTED ON PLANS

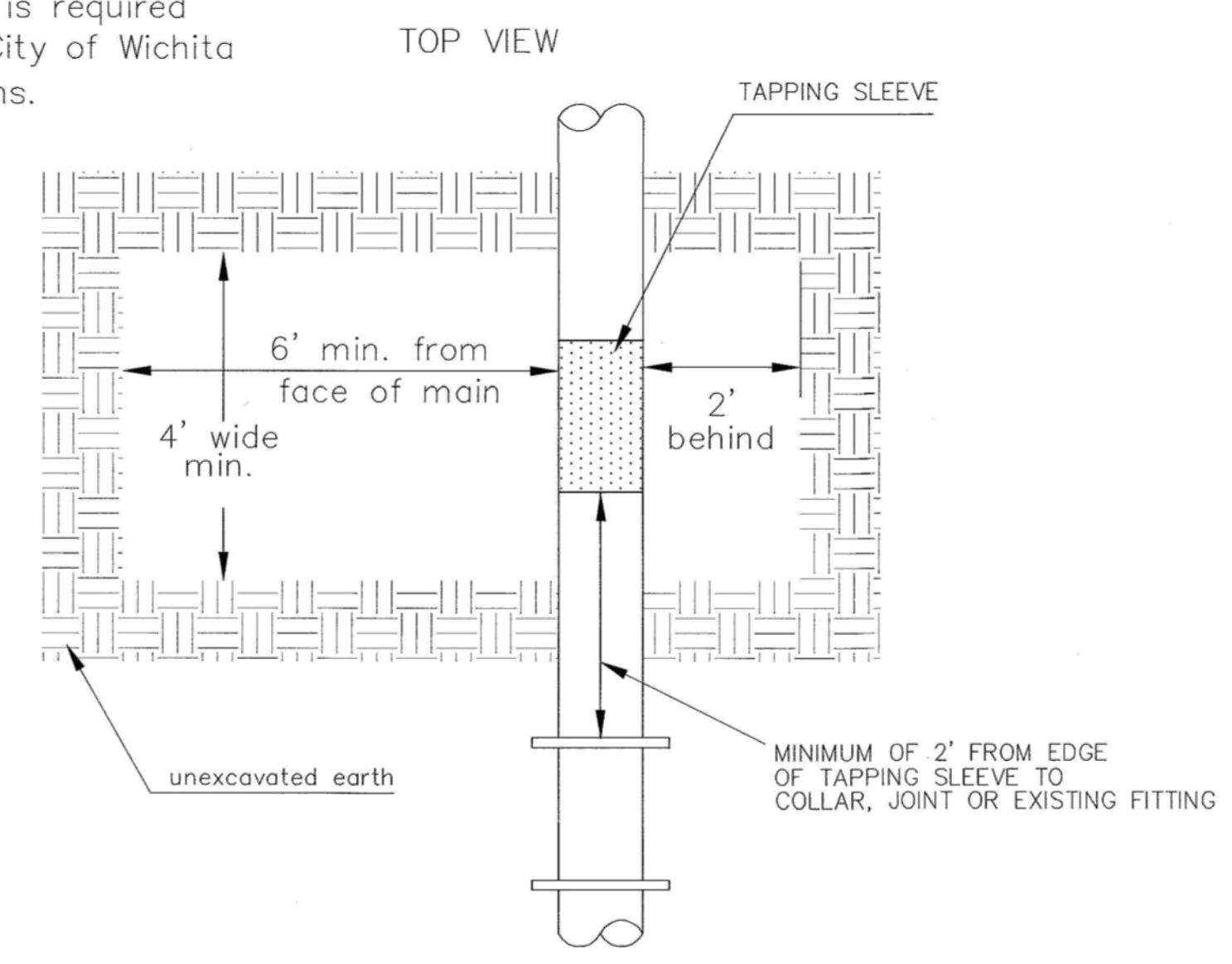


TRENCH COMPACTION IN ROAD RIGHT-OF-WAY

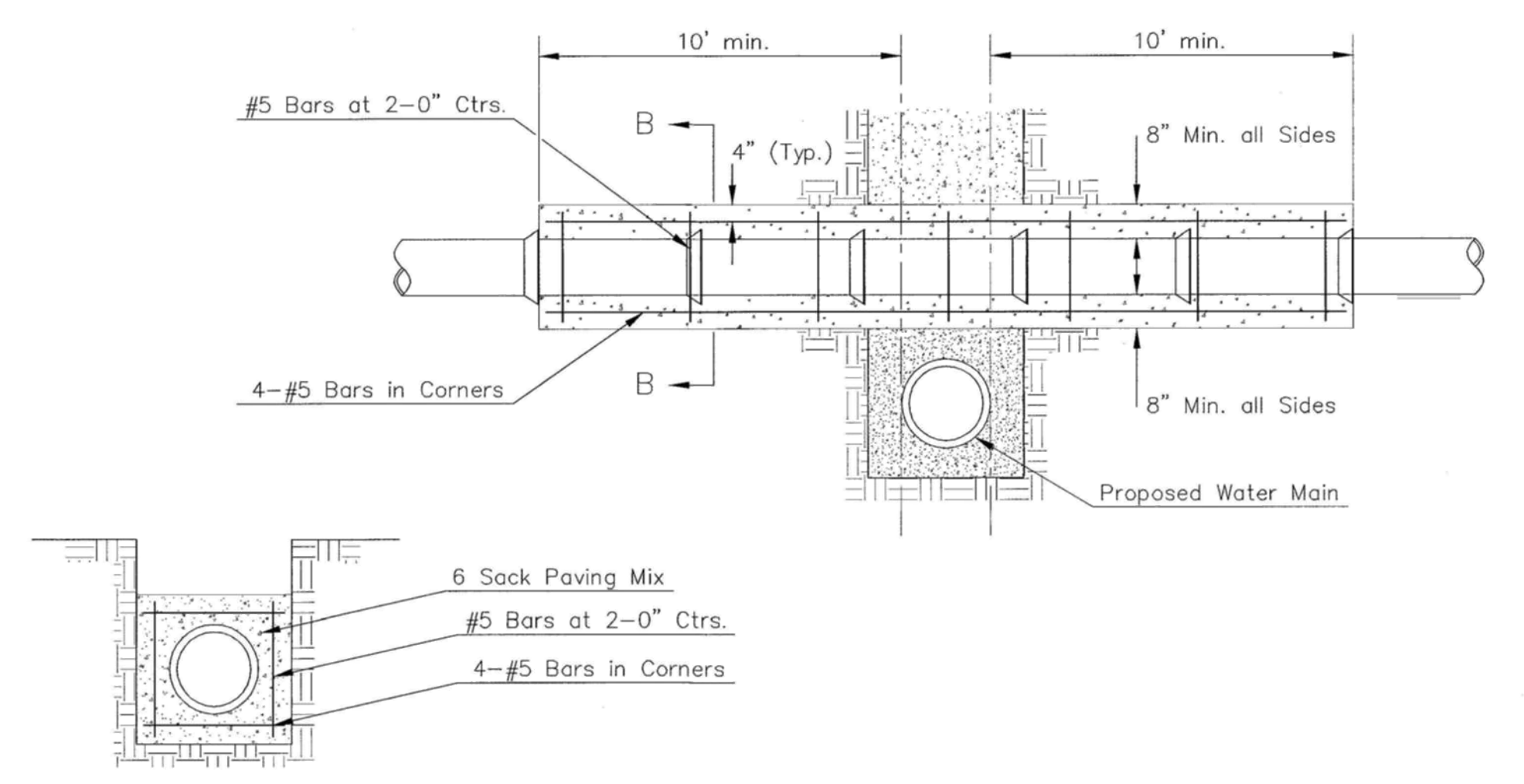


SIDE VIEW

Note: When shoring is required it is to be per The City of Wichita Standard Specifications.



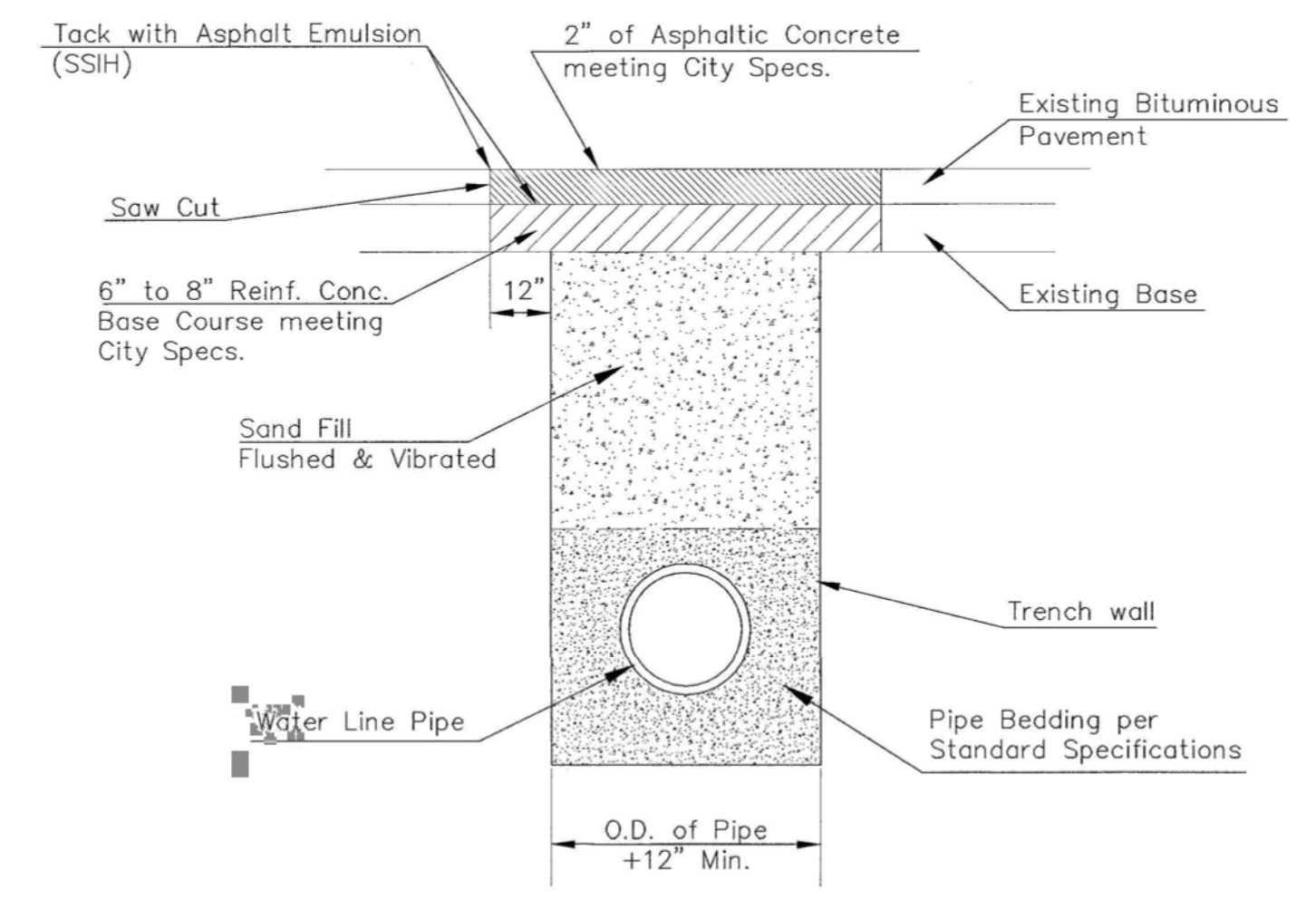
EXCAVATION FOR WET TAP



SECTION B-B

Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.

REINFORCED CONCRETE ENCASUREMENT OF SANITARY SEWER



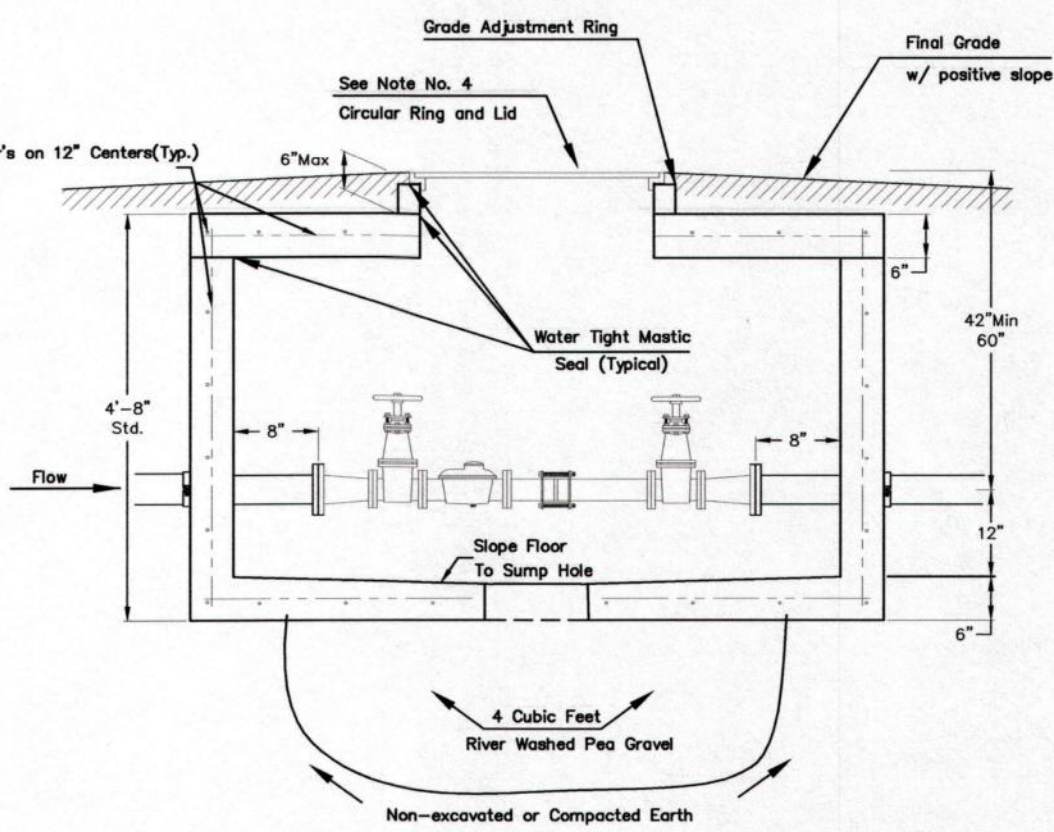
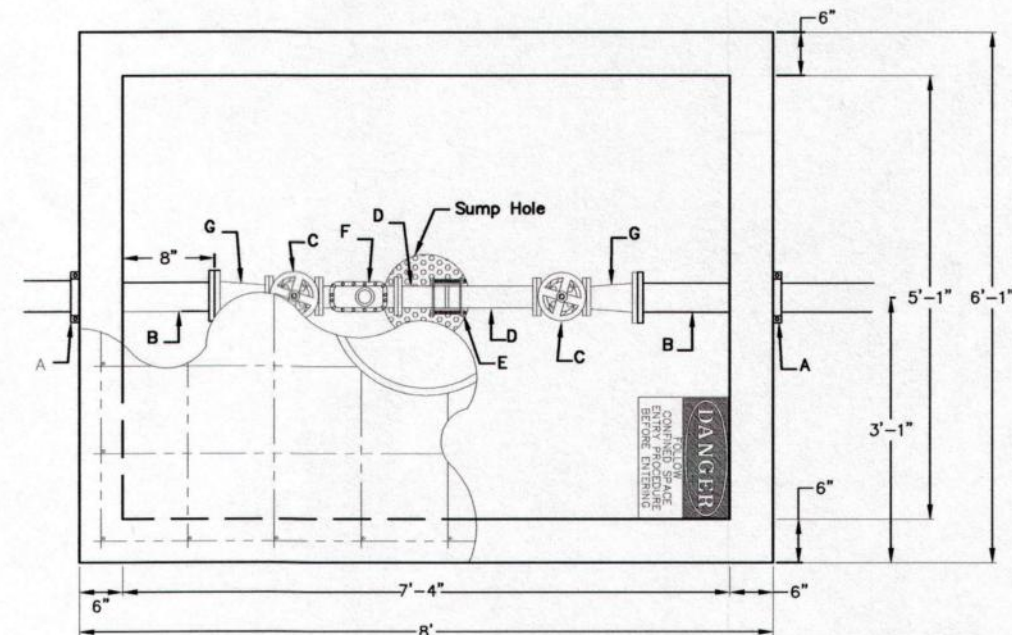
PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS



MISCELLANEOUS WATER DETAILS		
CITY ENGINEER		
GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
1861 PPW	(607853)	04/2014
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		3 of 6

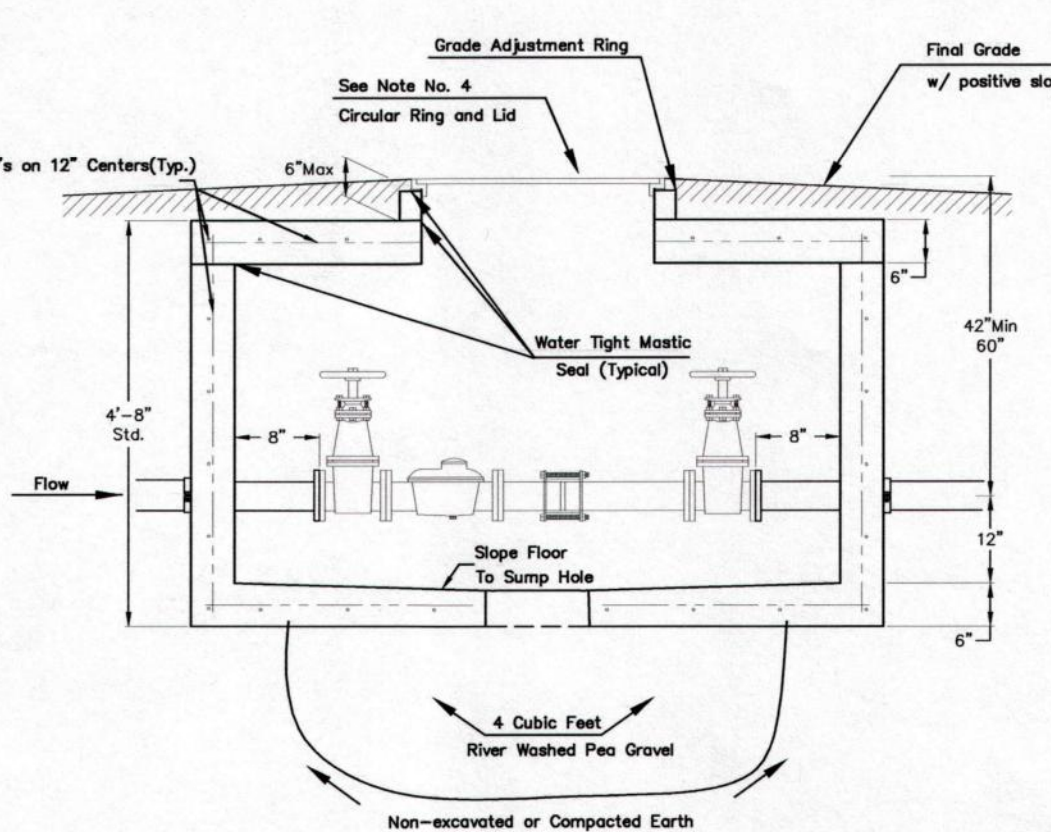
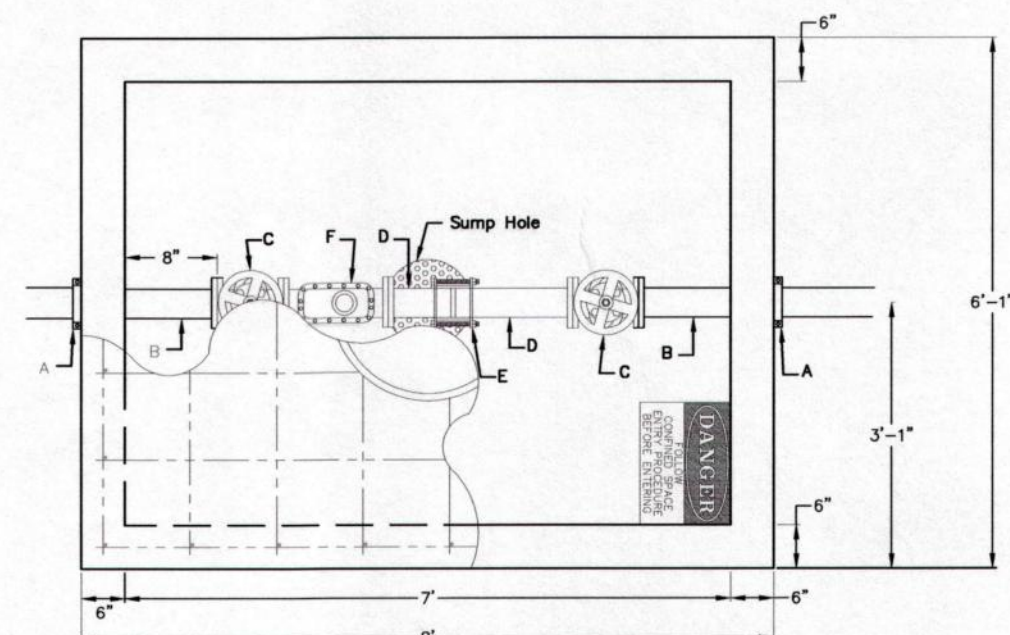
Notes For All Services - 3" thru 12":

- When the standard vault dimensions are not applicable, such as when additional space is required for special pipe, fittings, additional meters, etc. the design engineer shall design a vault with the required dimensions for Public Works and Utilities approval.
- The vault shall be poured concrete, cement blocks (voids to be completely filled with 2500 P.S.I. concrete), or approved precast structure (such as Clutter Inc. vaults approved 8/1/2000). The intent of these details shall not be limited by drawings or standards of precast structures.
- Vault location to be determined by Public Works and Utilities prior to construction and approved by Department's field supervisor prior to installation. A final inspection will be required for acceptance. Vault location standards include but not limited to: not to be located where subjected to vehicular loads, not to be located in any right-of-way or utility easement, and must be located on the property being served.
- The manhole ring and lid shall be Neenah R-6034 Frame with Type "C" Solid Lid and Drop Down Handle or US Foundry APS-30x30 (Aluminum). Where applicable the standard 10" Public Works and Utilities pattern meter reading lid and ring shall be located directly above water meter register. All meter registers shall have an approved lid directly vertical above. All joints of concrete to concrete or metal to concrete in the construction of the vault shall have an approved water tight mastic joint seal.
- Any fittings or appurtenances required to achieve proper elevation of pipe through the vault shall be provided by the contractor and appropriately noted on as-builts submitted by the inspecting engineer. Such fittings shall be a minimum of 2' from the exterior wall of vault.
- For all domestic services larger than 3" the contractor shall provide an outlet flange connection as shown 8" from the inside wall. Inlet and outlet wall sleeves shall be provided and installed by the contractor and shall be in alignment with one another. The inlet and outlet pipe shall be ductile iron pipe, cement lined, Class 150 per Standard Specifications and shall be continuous through vault wall and joint no less than 2' from the exterior wall of vault. Flanges of inlet and outlet pipes shall be in proper alignment and bolt pattern shall be rotated in such a way that valves and other fittings shall be in their proper vertical alignment when installed.
- For all services 4" and larger the contractor shall install a mega lug, restrained joint, or approved equal on the exterior walls of the vault, which shall be manufactured of ductile iron conforming to ASTM A 536-80, heat treated to a minimum hardness of 370 BHN and have a working pressure of at least 250 P.S.I. For all services smaller than 4" the contractor shall install an approved vault clamp on the exterior walls of the vault.
- All valves, meters, assemblies, and fittings shall be provided with sufficient concrete or other approved supports to the vault floor.
- The "Confined Space Warning" sign shall be fastened to the top of all vaults. If necessary for landscaping or site considerations, the sign may be fastened to the vault lid if it does not impede access to the handle. Acceptable materials: Aluminum 73415HH, Plastic 73439HH, or S.A. Vinyl 73463HH.
- All meters shall have an electronic read register compatible with the current City of Wichita meter reading system. All detector meters shall be an 5/8 cubic foot Badger meter with ERT register or approved equal. Gallon meters shall not be accepted.
- Additional Notes For Fire Services:
  - A post indicator valve (PIV) is an option for the outlet valve and may be requested by the architect or owner. The PIV is not required by City of Wichita ordinance.
  - When Siamese connections are required by the Wichita Fire Department, refer to the current City Code Section 15.
  - If due to any reason the completed vault retains ground or drainage water in excess of 4" in depth from the floor of the vault, the property owner shall be responsible for providing and installing an appropriate automatic sump pump or approved equal, as well as any other appurtenances required to make such system function as intended.
  - The property owner is responsible for completing an "Application for Private Fire Protection" prior to final acceptance of the project.



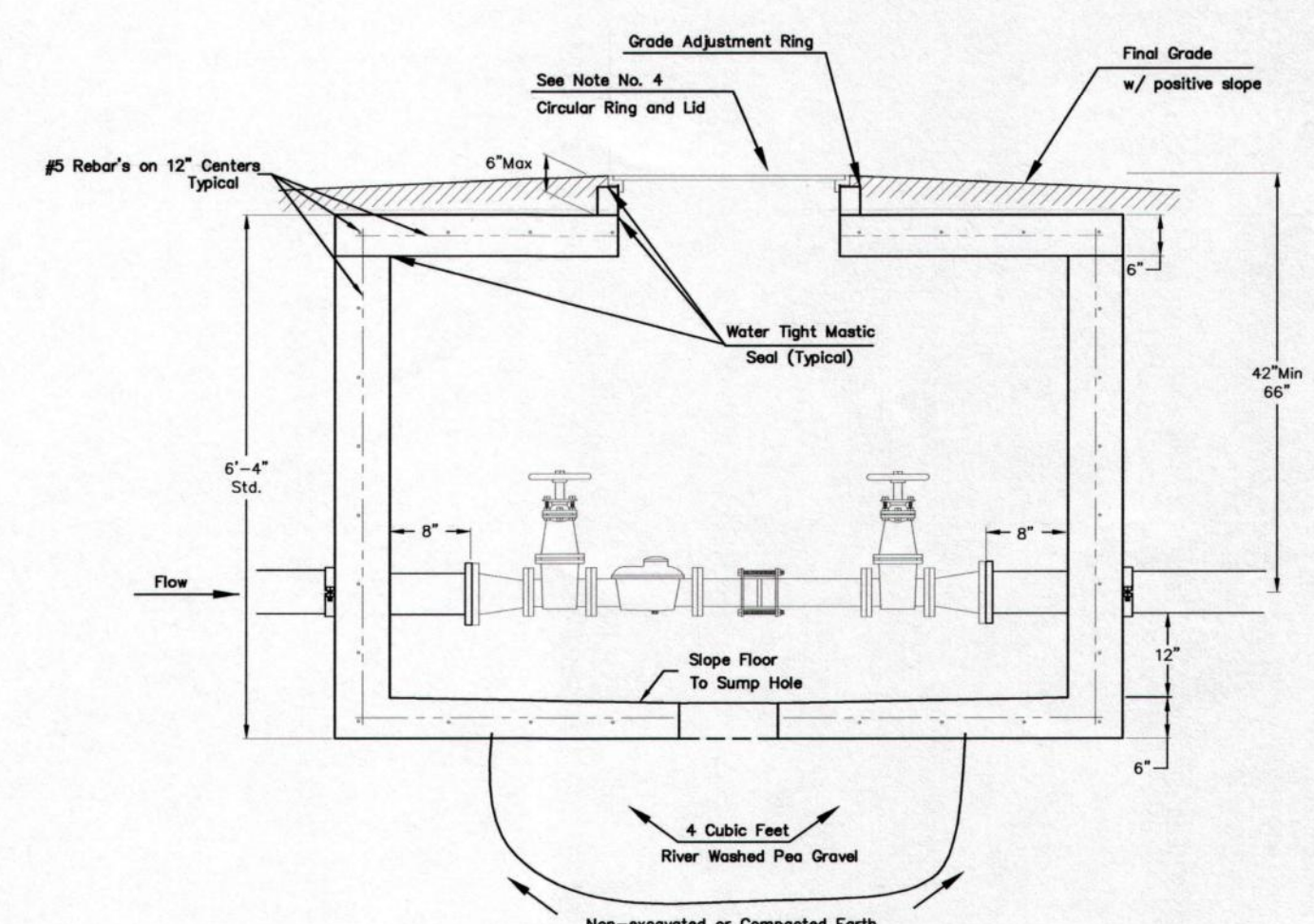
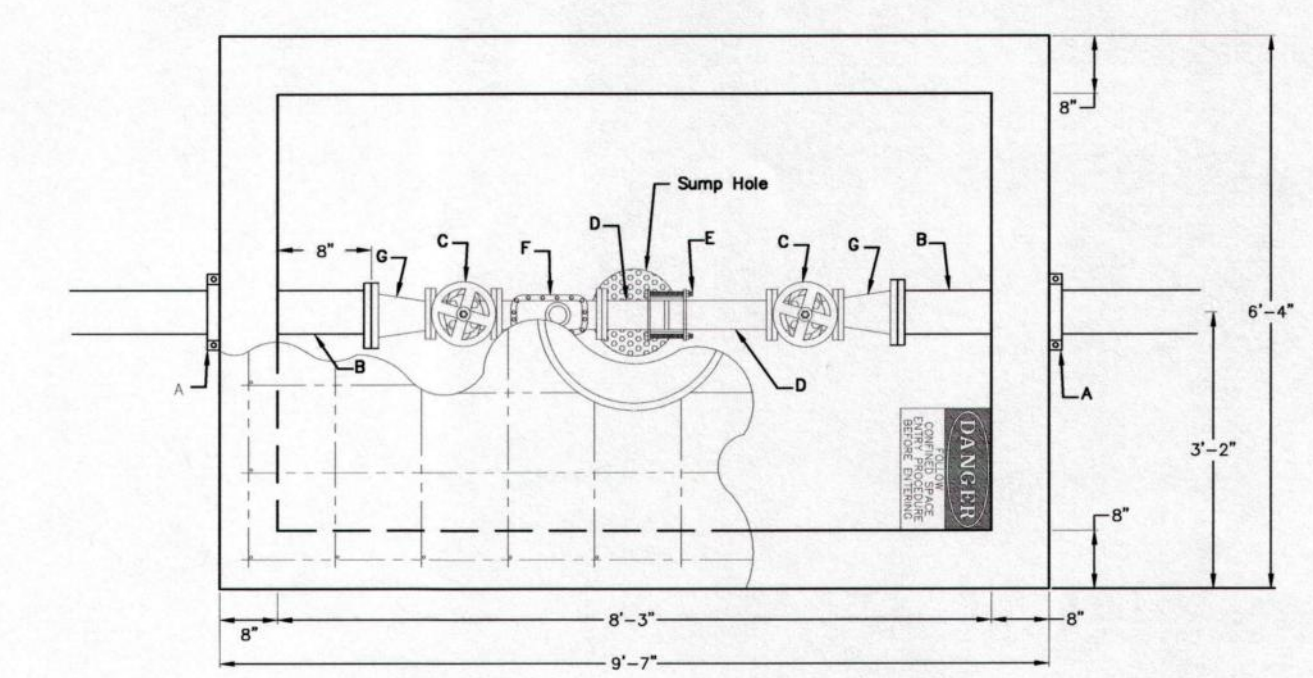
- A - 4" Vault Clamp
- B - Min. 3' Piece of 4" FL x PE DI CL Pipe
- C - 3" Flange Non-rising Stem Gate Wheel Valve
- D - 3" FL x PE Pipe
- E - 3" Flex Coupling
- F - 3" Badger Recordall II Turbo Cubic Foot Meter with ERT Register or Sensus W-3500R Cubic Foot Meter with AMR Register.
- G - 3" x 4" FL Reducer

### 3" Domestic Service



- A - 4" Vault Clamp
- B - Min. 3' Piece of 4" FL x PE DI CL Pipe
- C - 4" Flange Non-rising Stem Gate Wheel Valve
- D - 4" FL x PE Pipe
- E - 4" Flex Coupling
- F - 4" Badger Recordall II Turbo Cubic Foot Meter with ERT Register or Sensus W-10000R Cubic Foot Meter with AMR Register.

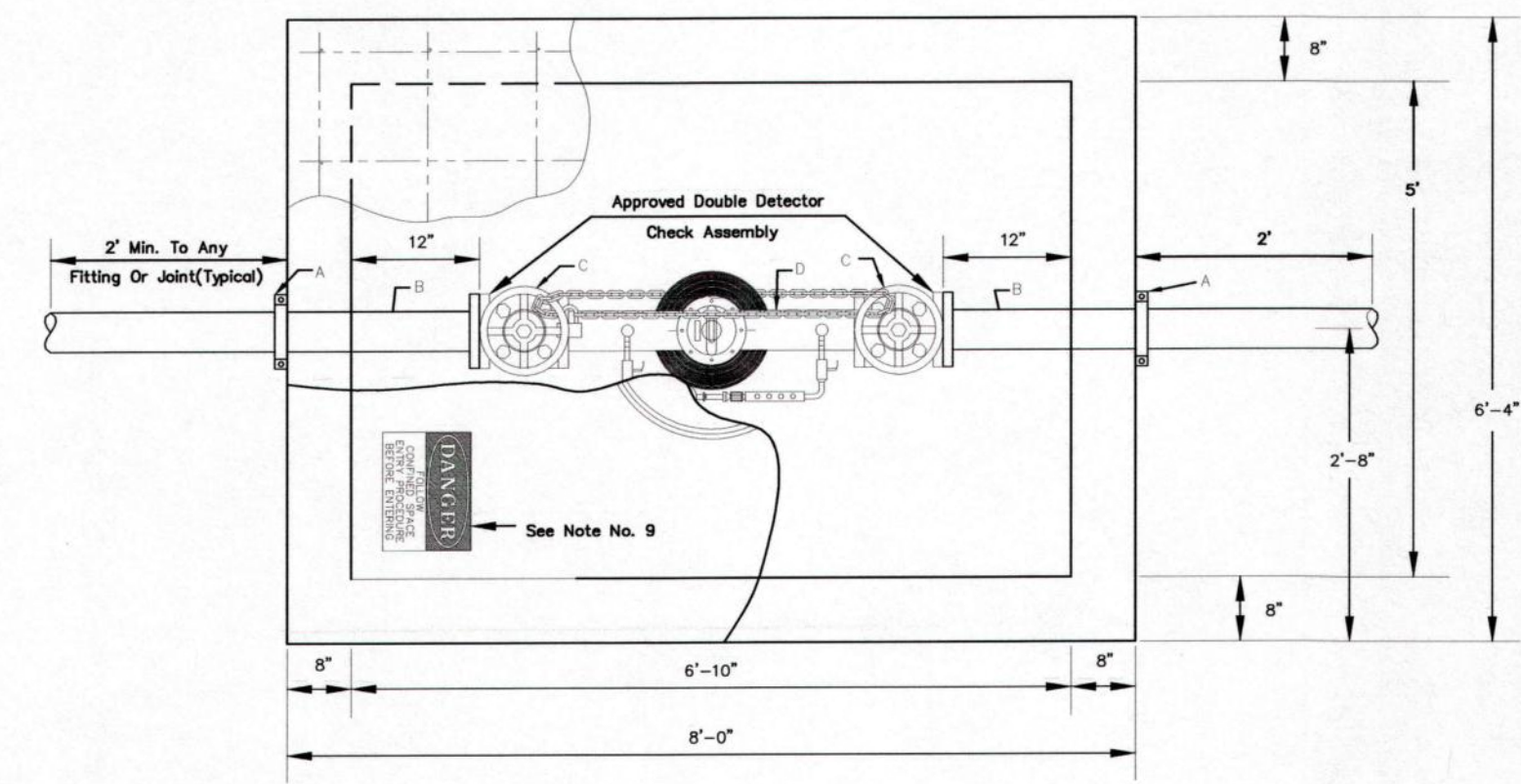
### 4" Domestic Service



- A - 6" Mega Lug (See Note 7)
- B - Min. 3' Piece of 6" FL x PE DI CL Pipe
- C - 4" Flange Non-rising Stem Gate Wheel Valve
- D - 4" FL x PE Pipe
- E - 4" Flex Coupling
- F - 4" Badger Recordall II Turbo Cubic Foot Meter with ERT Register or Sensus W-10000R Cubic Foot Meter with AMR Register.
- G - 6" x 4" Flange Reducer

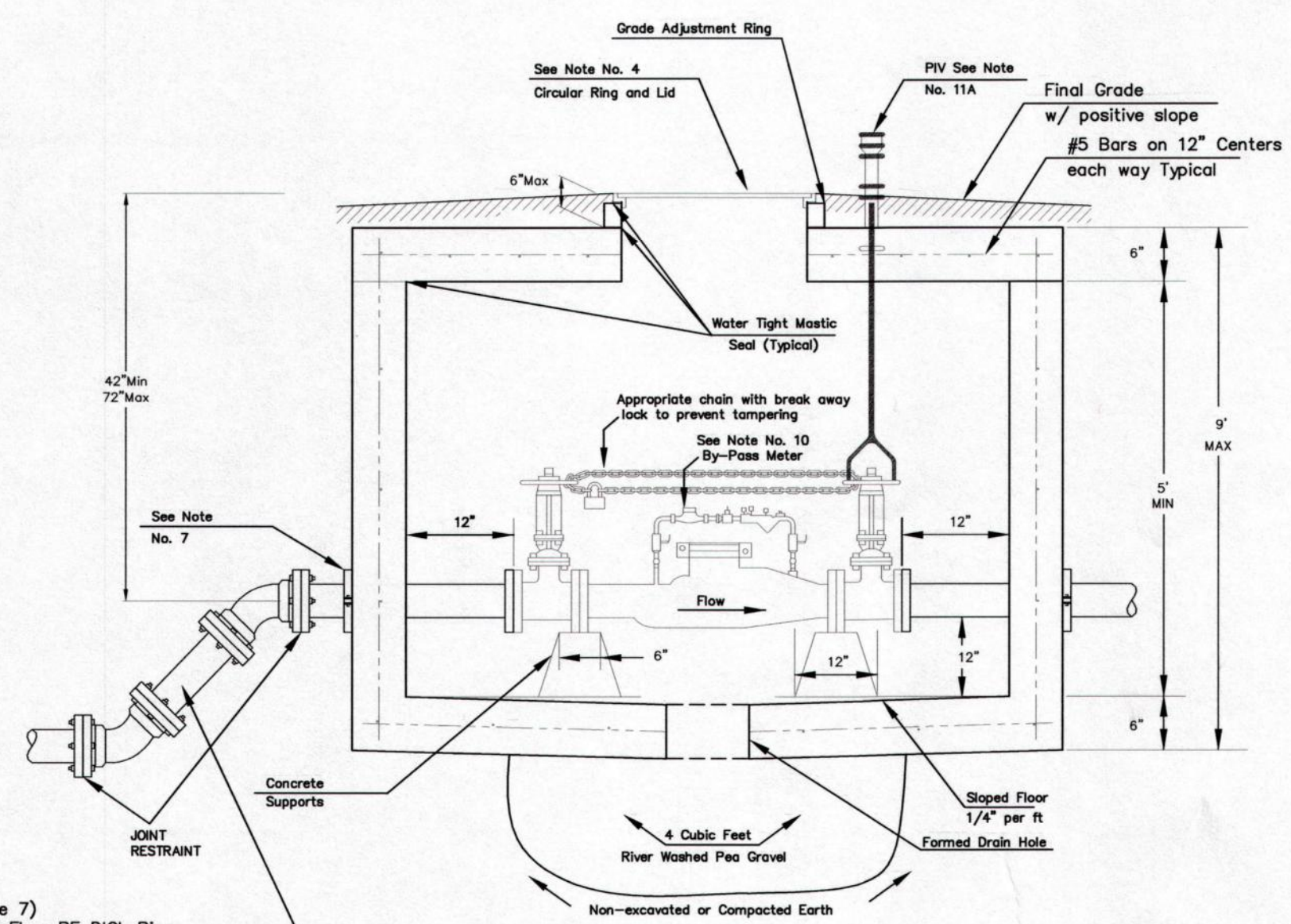
### 6" Domestic Service with 4" meter

NOTE:  
INSPECTOR FROM PUBLIC WORKS AND UTILITIES TO BE CONTACTED 24 HOURS PRIOR TO INSTALLATION TO SET VAULT.  
CONTACT: 316-219-8928 OR 316-219-8929



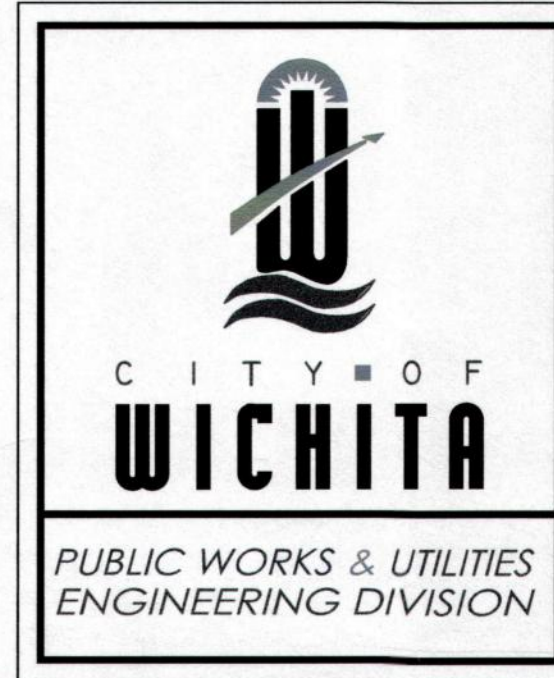
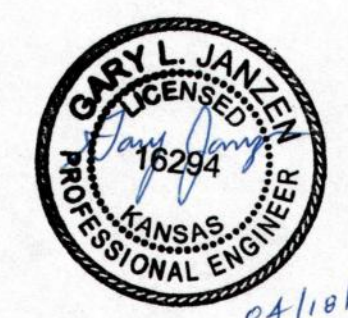
NOTE:  
Domestic Services larger than 6" shall be custom designed by Engineer.

### 4" thru 8" Fire Service

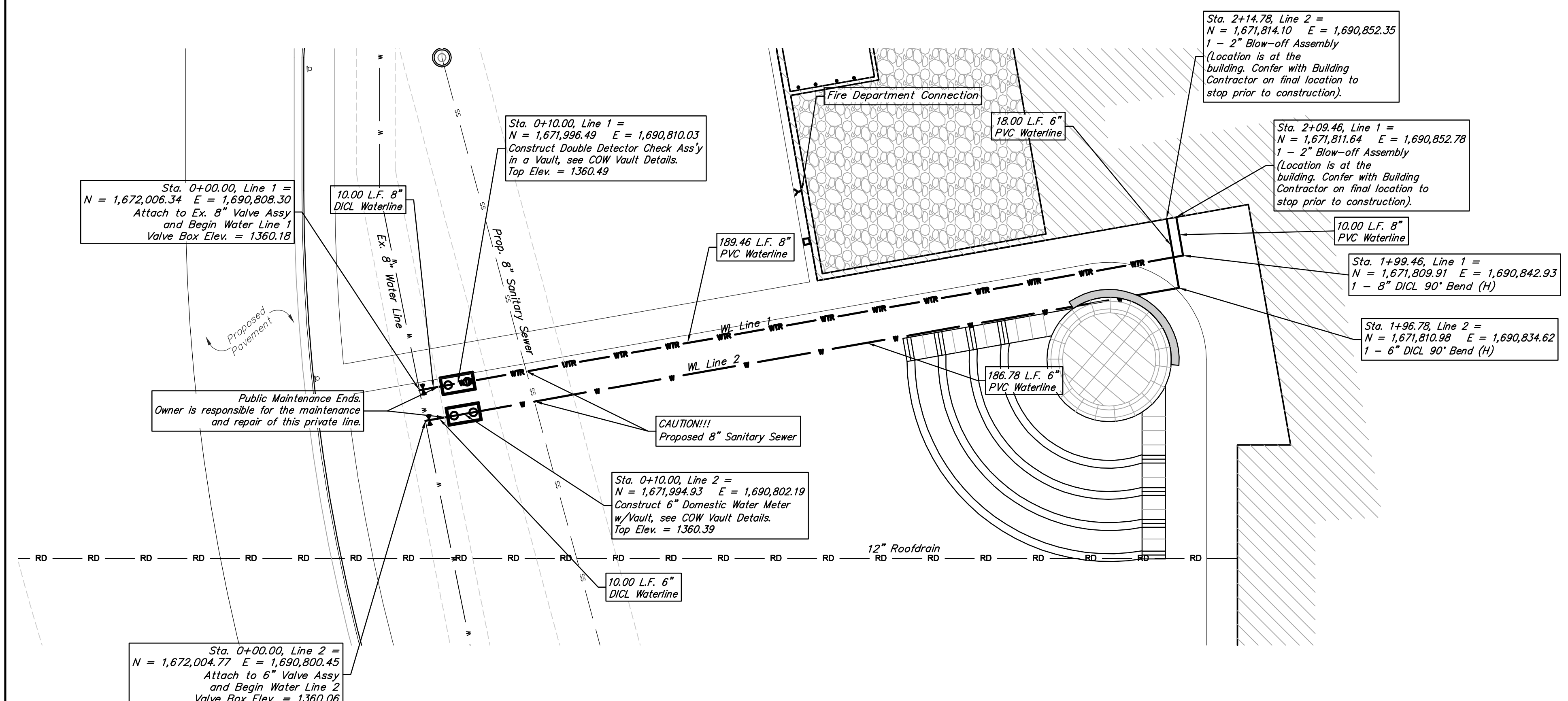


- A - Mega Lug (See Note 7)
- B - Min. 3'-8" Piece of FL x PE DI CL Pipe
- C - Flange Gate Valve, Wheel Operated
- D - Ames Model 3001SS or approved equal with metered (cubic foot) by-pass assembly

Use 45 degree fittings as necessary to keep depth of vault within 76 inch maximum. All fittings should be mega lug, restrained joint or approved equal.



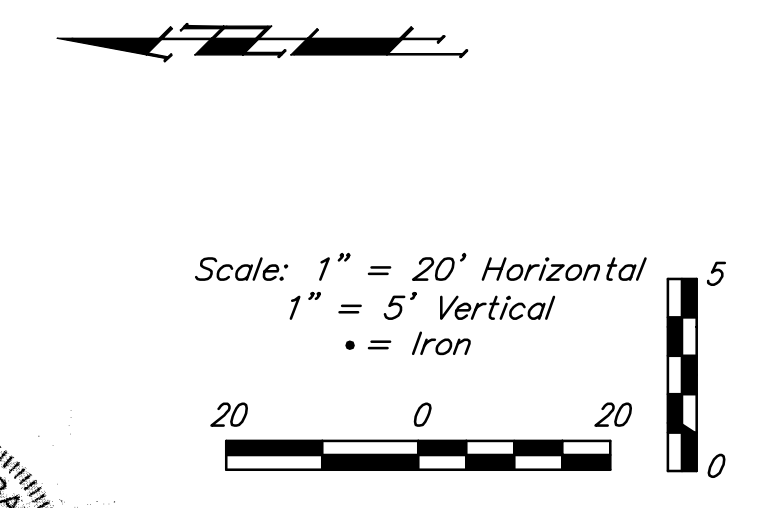
STANDARD VAULT DETAILS AND METER ASSEMBLIES		
CITY ENGINEER		
GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
1861 PPW	(607853)	12/2011
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		4 of 6



**BENCHMARKS**

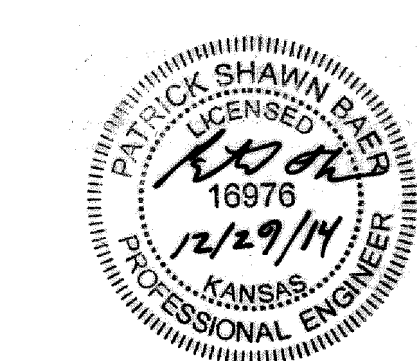
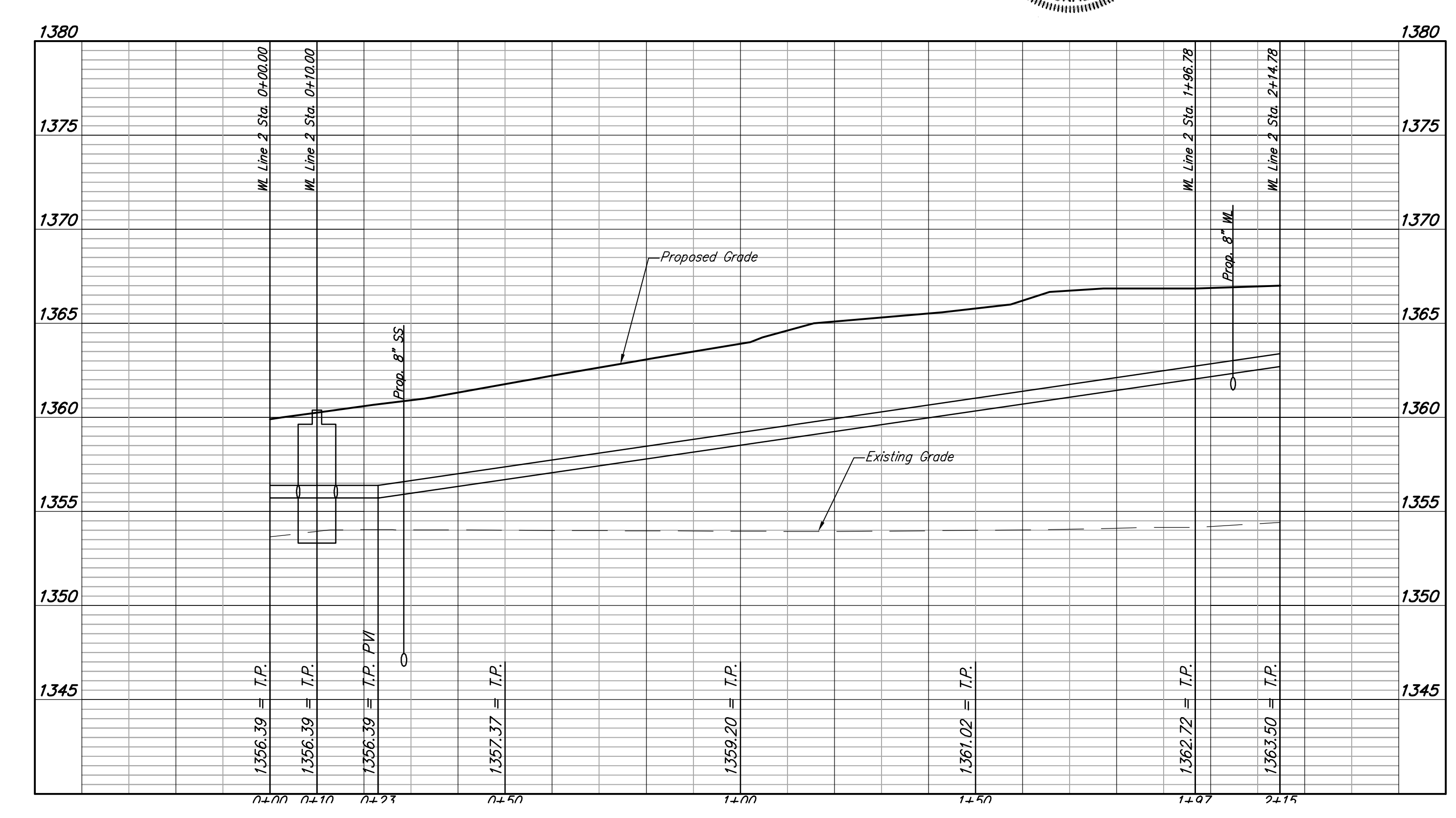
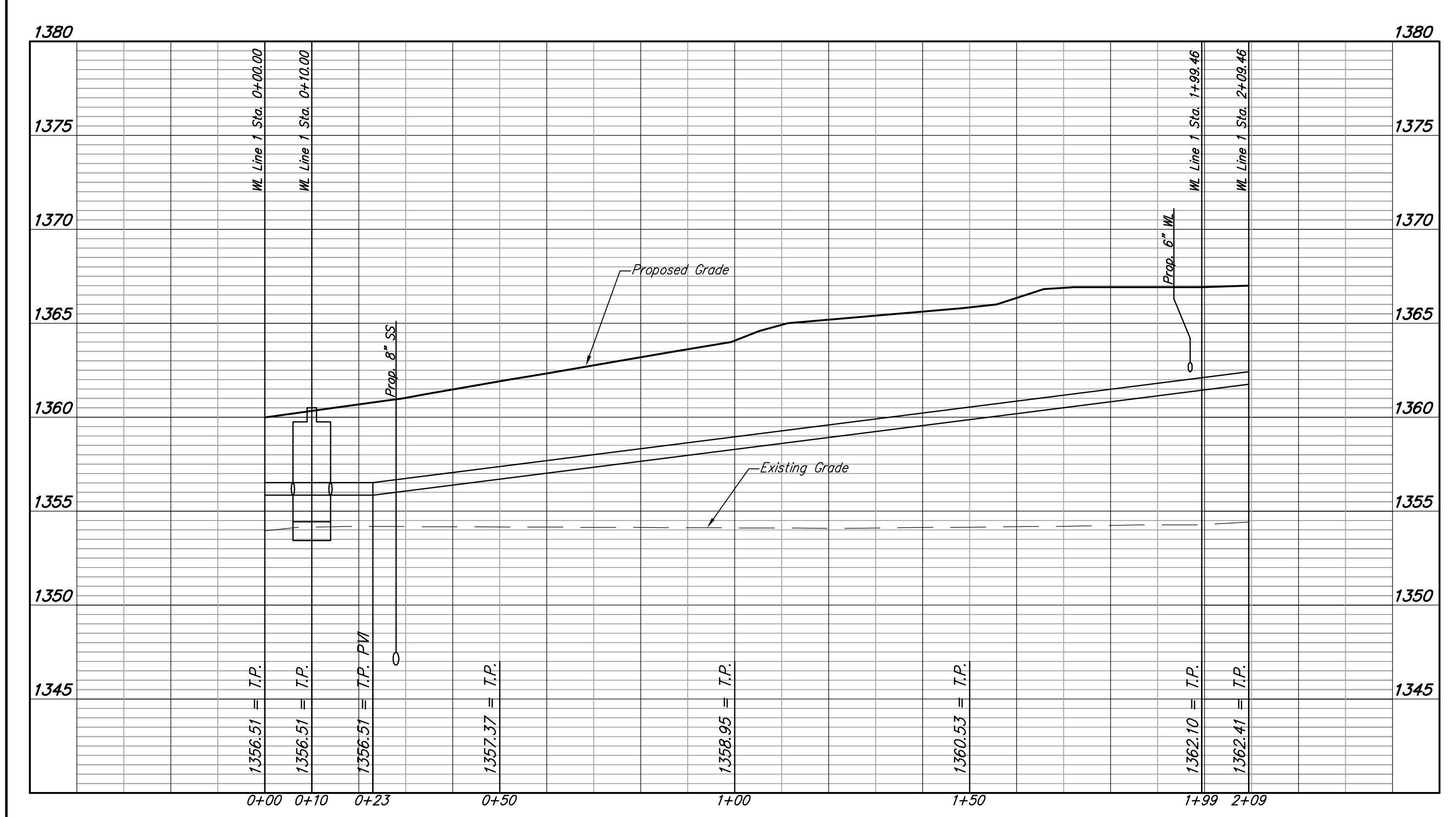
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Chiseled square on top of median at the entrance of Casa Bella Addition  
Elevation=1354.46 (NAVD 88)

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Railroad spike in west face of power pole located approximately 1185± south of the intersection of Pawnee and 127th Street East and approximately 26± east of the centerline of 127th Street East  
Elevation=1362.34 (NAVD88)



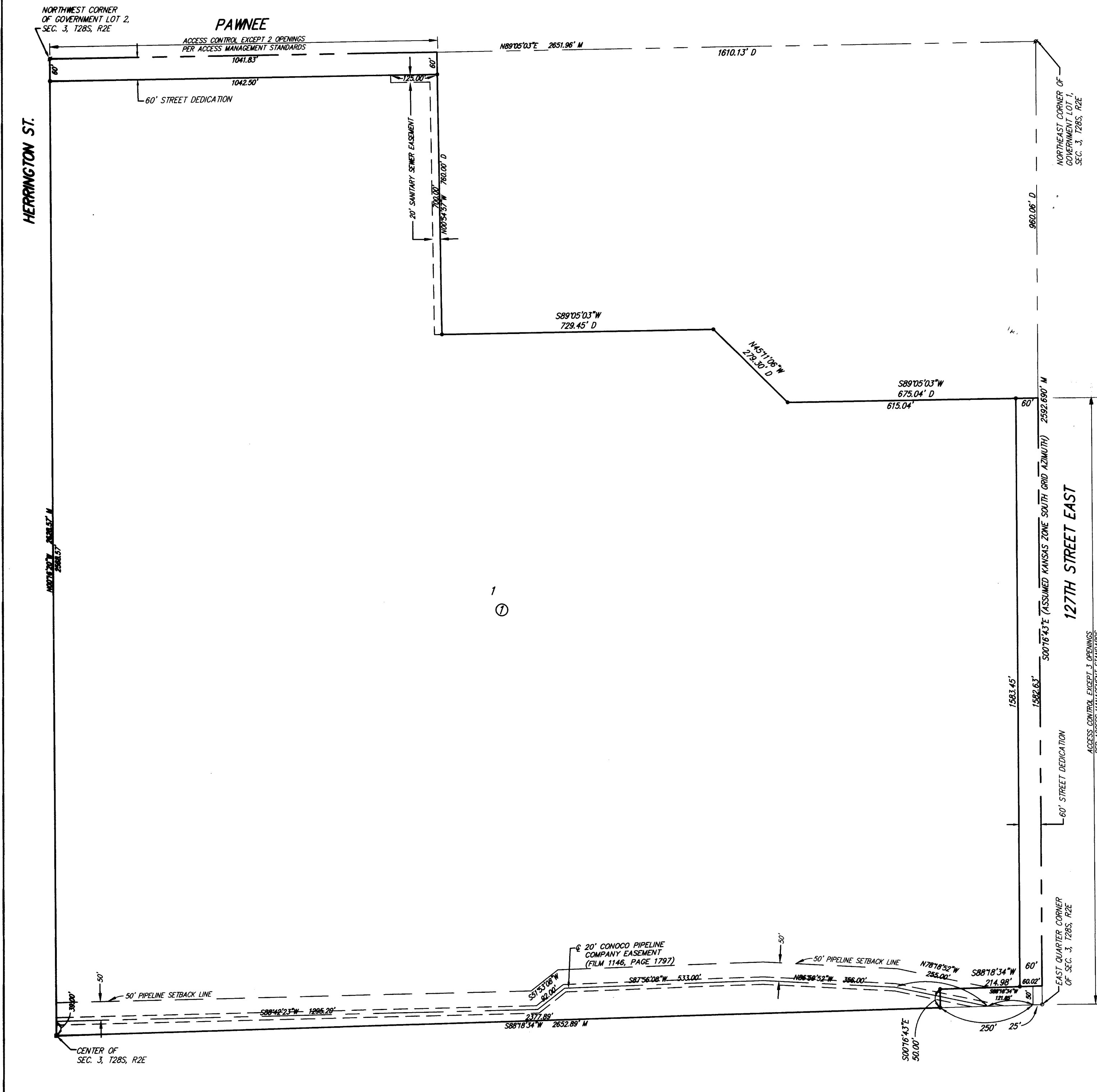
**LINE 1**

**LINE 2**



# USD 259 4TH ADDITION

Wichita, Sedgwick County, Kansas



State of Kansas)  
Sedgwick County) SS

We, Ruggles & Bohm, P.A., Land Surveyors in aforesaid county and state, do hereby certify that, under the supervision of the undersigned, we have surveyed and platted "USD 259 4TH ADDITION", Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows:

The NE1/4 of Sec. 3, T28S, R2E of the 6th P.M., Sedgwick County, Kansas, EXCEPT a tract of land lying in a portion of Government Lots 1 and 2, Section 3, Township 28 South, Range 2 East, of the 6th Principal Meridian, Wichita, Sedgwick County, Kansas; said tract being more particularly described as follows: BEGINNING at the northeast corner of said Northeast Quarter, thence along the east line of said Quarter on a Kansas coordinate system of 1983 south zone grid bearing of S00°16'43"E, 960.06 feet; thence parallel with and 960.00 feet south of the north line of said Quarter, S89°05'03"W, 675.04 feet; thence N45°11'06"W, 279.30 feet to a point lying 760.00 feet south of said north line; thence S89°05'03"W, 729.45 feet; thence N00°54'57"W, 760.00 feet to said north line; thence along said north line, N89°05'03"E, 1610.13 feet to the point of beginning, AND EXCEPT that described as beginning at the southeast corner of said NE1/4, thence S88°16'17"W, along the south line of said NE1/4, 275.00 feet; thence N00°52'40"W, parallel with the east line of said NE1/4, 50.00 feet; thence N88°16'17"E, parallel with said south line, 275.00 feet to the east line of said NE1/4; thence S00°52'40"E, along said east line, 50.00 feet to the point of beginning.

All public easements and dedications are hereby vacated by virtue of K.S.A. 12-512(b).

Ruggles & Bohm, P.A.

William K. Clevenger  
Land Surveyor

Know all men by these presents that we, the undersigned, have caused the land described in the surveyor's certificate to be platted into a Lot, a Block and Streets, to be known as "USD 259 4TH ADDITION", Wichita, Sedgwick County, Kansas. Access Controls as indicated are hereby granted to the appropriate governing body. The streets are hereby dedicated to and for the use of the public. The Sanitary Sewer Easement is hereby granted to the public for the construction and maintenance of a sanitary sewer. A drainage plan has been developed for this plat and all drainage easements shall remain at established grades, or as modified with the approval of the City Engineer, and unobstructed to allow for the conveyance of storm water.

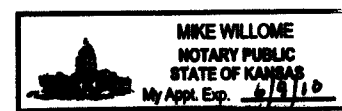
Unified School District 259  
 Connie Dietz, President

State of Kansas)  
Sedgwick County) SS

The foregoing instrument acknowledged before me, this 27<sup>th</sup> day of August, 2010, by Connie Dietz, President, on behalf of the Board of Unified School District 259.

Mike Wilton  
Notary Public

My appointment expires 6/9/2011



Ruggles & Bohm, P.A.  
Register of Deeds  
DOC #/FLH-PG: 29186139  
Rec'd # 1788705  
Date Recorded: 12/2/2010 10:30:52 AM

This plat of "USD 259 4TH ADDITION", Wichita, Sedgwick County, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 2nd day of June, 2010.

Wichita-Sedgwick County Metropolitan Area Planning Commission  
 Chair  
G. Nelson Van Fleet  
Secretary  
John L. Schlegel

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 9<sup>th</sup> day of Nov., 2010.

At the Direction of the City Council  
 Mayor  
Card Brumby  
 Karen Sublett  
Clerk

Reviewed in accordance with K.S.A. 58-2005 on this 27<sup>th</sup> day of August, 2010.

Thelma R. Robello, LS #1246  
Deputy County Surveyor  
Sedgwick County Kansas

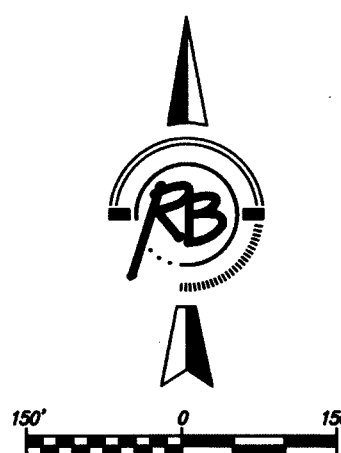
Entered on transfer record this 24 day of November, 2010.  
 Kelly B. Arnold  
City Clerk

State of Kansas)  
Sedgwick County) SS

This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 2nd day of December, 2010, at 10:30:52 o'clock A. M., and is duly recorded.

Bill Meek  
Register of Deeds  
 Tonya Buckingham  
Deputy

M = Measured  
D = Described  
**SURVEY MARKER LEGEND**  
□ STONE W/PLUS  
○ 1/2" REBAR W/CAP (FOUND - ORIGIN UNKNOWN)  
⊙ 5/8" REBAR W/CAP (FOUND - ORIGIN UNKNOWN)  
● 5/8" REBAR W/RUGGLES & BOHM CAP (SET)



BENCH MARK: CHISELED SQUARE ON THE TOP OF CURB AT THE SOUTH END OF THE ISLAND AT THE ENTRANCE OF CASA BELLA ADDITION AT THE INTERSECTION OF TARA FALLS AND PAWNEE ELEVATION = 1354.46 (NAVD83)

Ruggles & Bohm, P.A.  
Engineering, Surveying, Land Planning  
924 North Main (316) 264-8008  
Wichita, Kansas 67203 (316) 264-4621 fax  
www.rbkansas.com E-mail: info@rbkansas.com

DWG FILE: SURVEY BASE  
PROJECT NO.: 5012P  
AUGUST 25, 2010