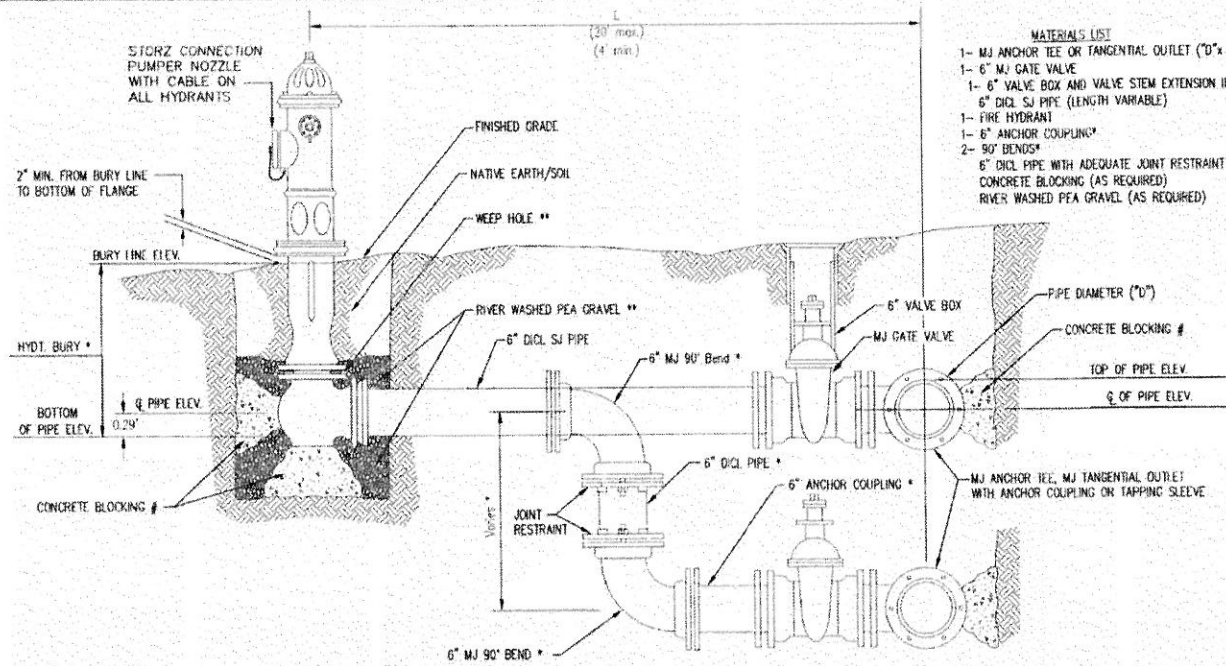




**FIRE HYDRANTS REQUIRED**

STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
WL1. 2+26.34	1365.46	1359.63	6.5'	2'
WL2. 3+00.00	1367.6	1363.77	4.5'	

- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (D"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)

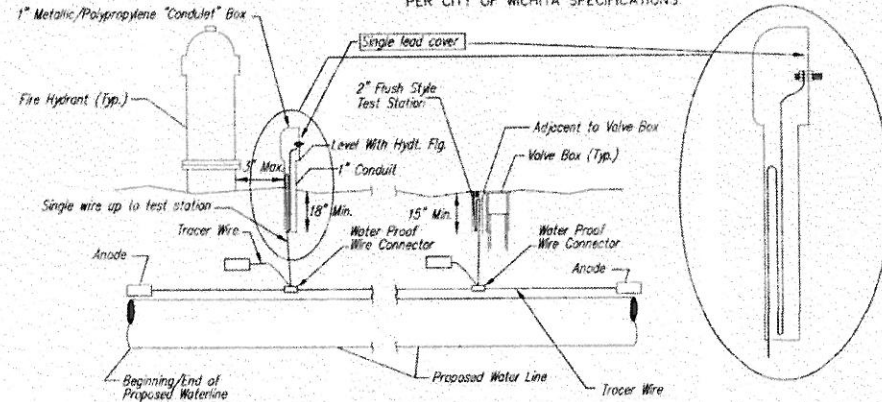


\* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI CL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEAGULGS, 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



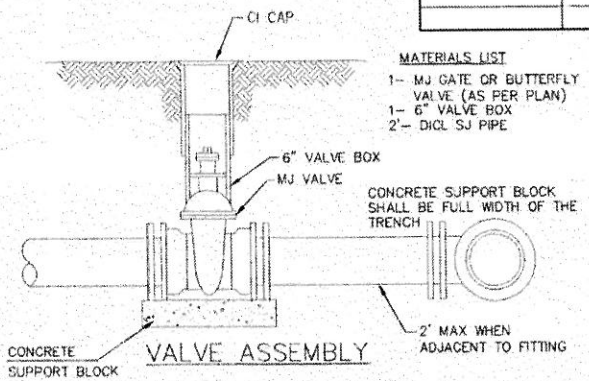
**TRACER WIRE**  
Conductive type pipe locator/tracer wire shall be install to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at [www.wichita.gov](http://www.wichita.gov).

**WIRES**  
The tracer wire shall be blue No. 12 AWG CCS with 45 mil HDPE insulation. 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. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

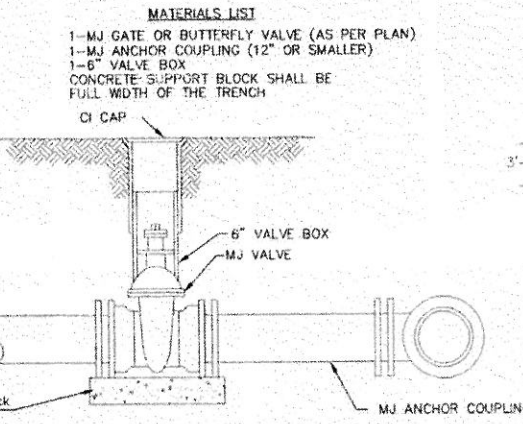
**TEST STATIONS**  
The test station for fire hydrant application shall be a 1" conduit style station as manufactured by AORA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized 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. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # 12PH7B1LP Handley Industries or CD14\*TP SnakePit as manufactured by Copperhead Industries or approved equal. 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 install to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.

**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 12 AWG CCS which shall be extended to the test station.

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

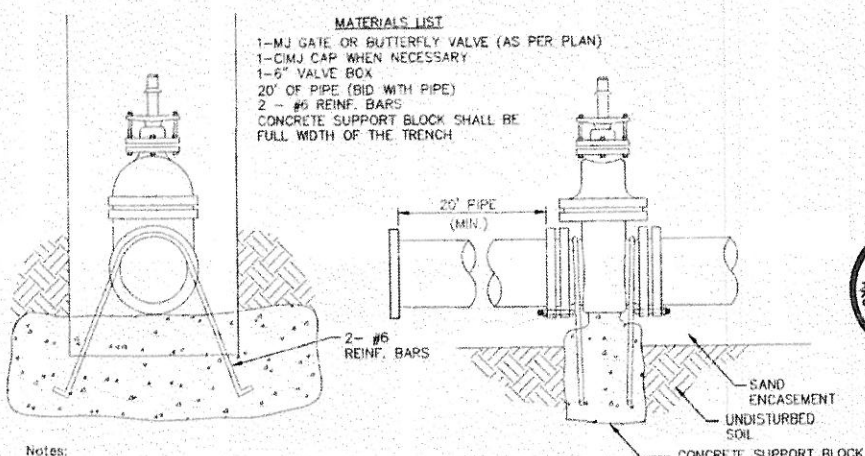


- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- 6" VALVE BOX
  - 2- DI CL SJ PIPE



- 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

**ANCHORED VALVE ASSEMBLY**



- 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

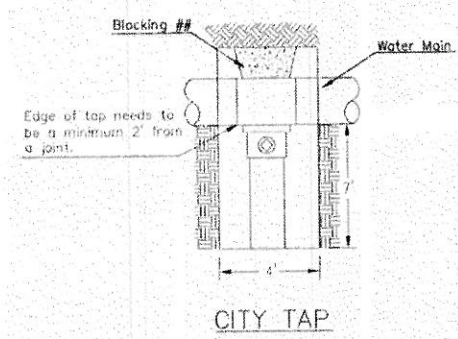
**Notes:**

- 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**

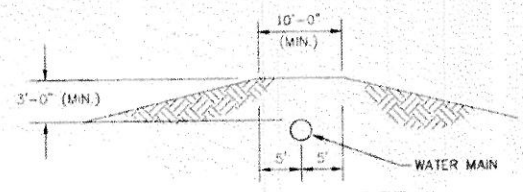
VALVE	THRUST AT 150 #/sq
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

**ANCHORED VALVE ASSEMBLY, SPECIAL**



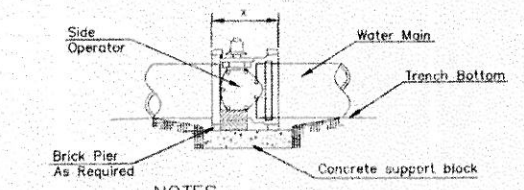
- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- 6" VALVE BOX
  - 2- DI CL SJ PIPE

**CITY TAP**



**PROTECTIVE FILL DETAIL**

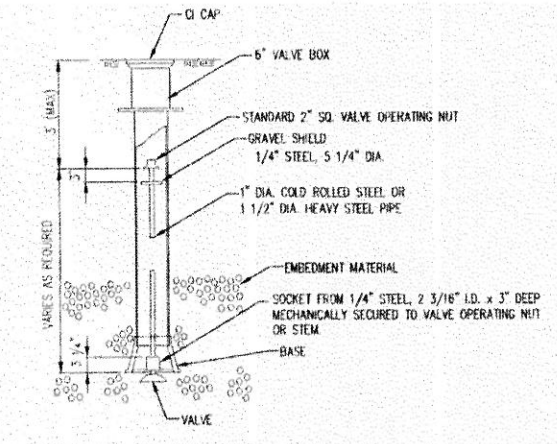
MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3" (COST SUBSIDIARY TO PIPE INSTALLATION)



**NOTES**

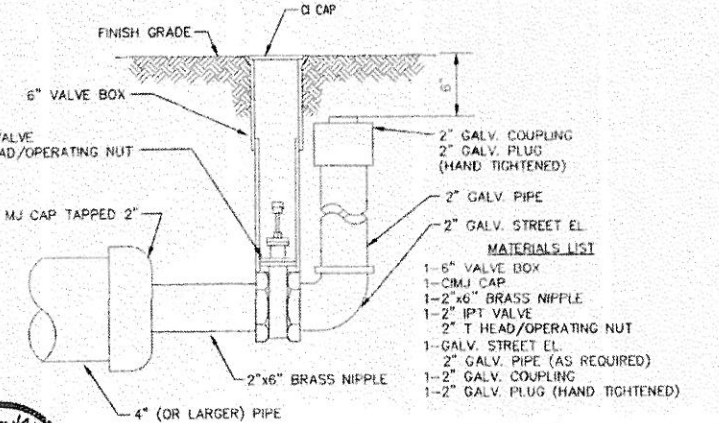
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
- 6" Valve Box and Cover required per City of Wichita Std. Specifications.
- Conc. Support Block to be full width of trench.

**CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION**



**VALVE STEM EXTENSION DETAIL**

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**

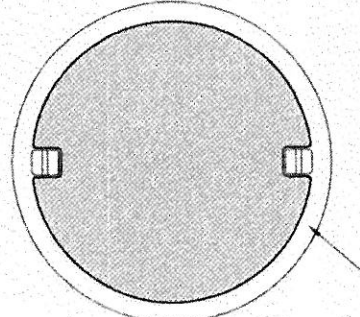
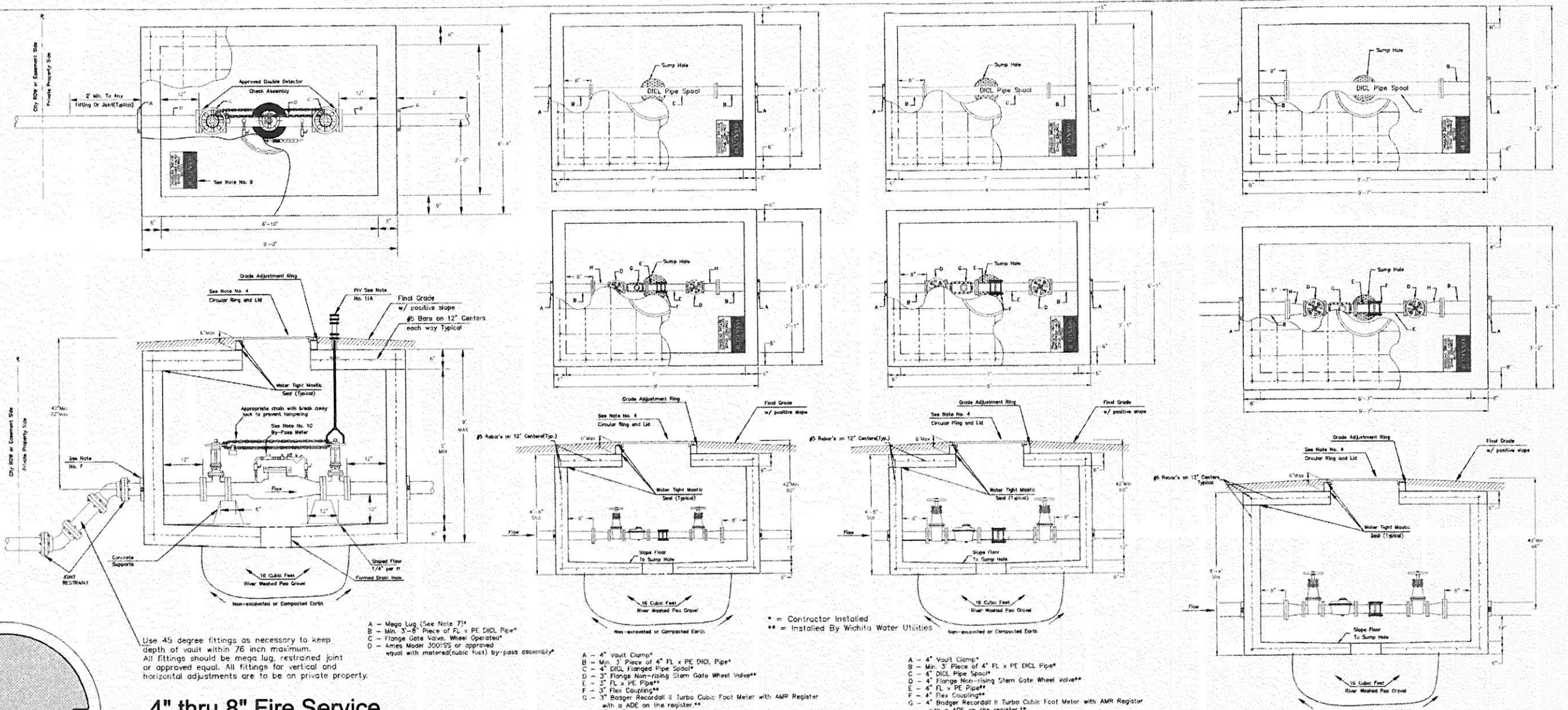
CITY ENGINEER  
**GARY JANZEN, P.E.**

PROJECT NUMBER: 2272 PPW  
OGA NUMBER: 183021  
DATE: [ ]

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

SHEET: C501

REVISED: OCTOBER 2016



**4" thru 8" Fire Service**

Detail A  
Vault Lid

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

**3" Domestic Service**

**4" Domestic Service**

**6" Domestic Service with 4" meter**

- 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 consultant design engineering 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. The intent of these details shall not be limited by drawings or standards of precast structures.
  - Any vault located in pavement must be traffic rated unless it is protected. Traffic rated vaults must be design and approved by Public Works and Utilities.
  - 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) or Deeter 1261 or EJ 1936z1 (with pick hole(s) as shown in Detail A). Where applicable the standard 10" Public Works and Utilities pattern meter reading lid and ring shall be located directly above water meter register. 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.

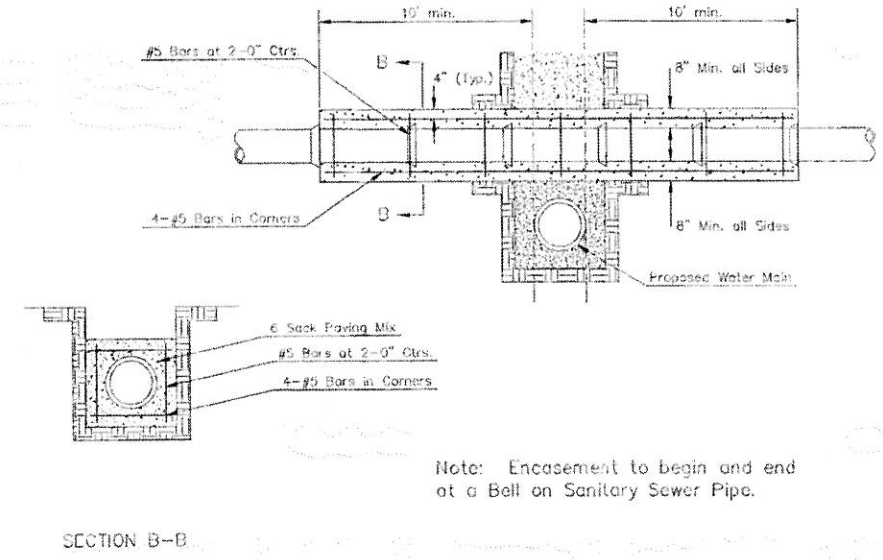
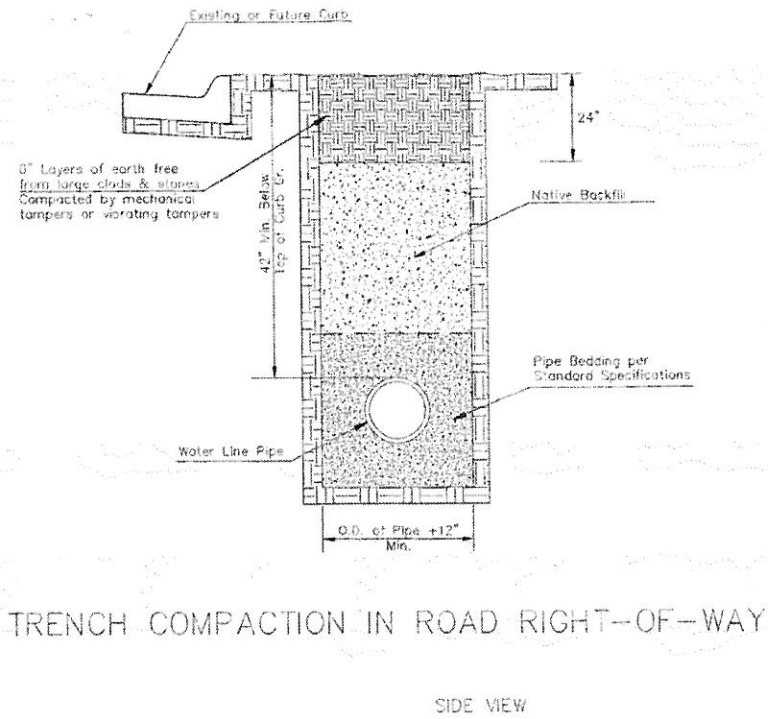
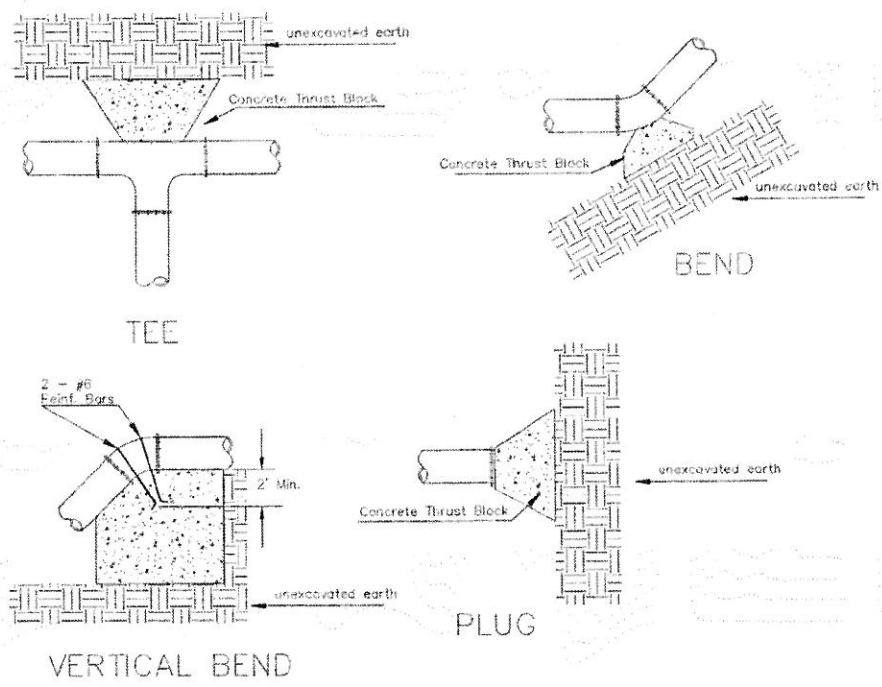
- Any fittings or appurtenances required to achieve proper elevation of pipe through the vault shall be provided by the contractor and appropriately noted on the as-builts submitted by the inspecting engineer. Such fittings shall be a minimum of 2' from the exterior wall of vault.
- For all domestic services larger than 3" the contractor shall provide an outlet flange connection as shown B' 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 and joint no less than 2' from the exterior wall of vault. Flanges of inlet and outlet pipe 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 ASTM A 536-80, heat treated to a minimum hardness of 370 BHN and have a working pressure of a least 250 P.S.I. For a services smaller than 4" the contractor shall install an approved vault clamp on the exterior walls of the vault.
- All valves, meters, assemblies and fitting 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 consideration, the sign may be fastened to the vault lid if it does not impede access to the handle. Acceptable materials: Aluminum 7341SHH, Plastic 73439HH or S.A. Vinyl 73463HH.

- All meters shall have a electronic read register compatible with the current City of Wichita meter reading system. All detector meters shall be on 5/8 cubic foot Bodger meter with AMR register with a ADE on the register and 25' long Iron cord and plug 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. It is not required by the City of Wichita ordinance, it can be requested by the owner and will be allowed at the discretion of the City Engineer.
  - 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 a appropriate automatic sump pump or approved equal, as well as any other appurtenances required to make such system function as intended.



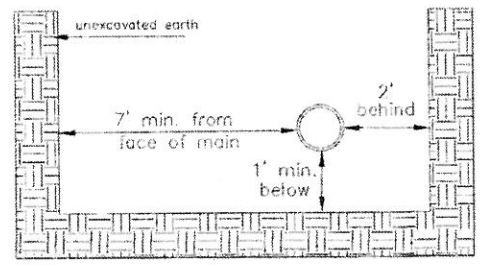
<p><b>CITY OF WICHITA</b> PUBLIC WORKS &amp; UTILITIES ENGINEERING DIVISION</p>	<p><b>STANDARD VAULT DETAILS AND METER ASSEMBLIES</b></p> <p>CITY ENGINEER <b>GARY JANZEN, P.E.</b></p>		
	PROJECT NUMBER <b>2272 PPW</b>	CCA NUMBER <b>183021</b>	DATE
	<p>CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501</p>		SHEET <b>C502</b>

REVISED: OCTOBER 2016

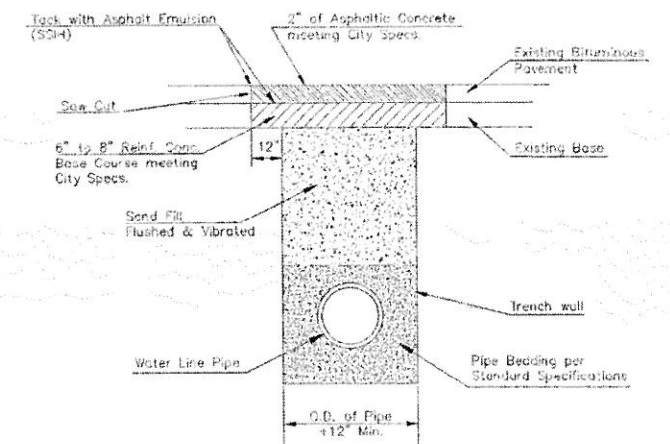
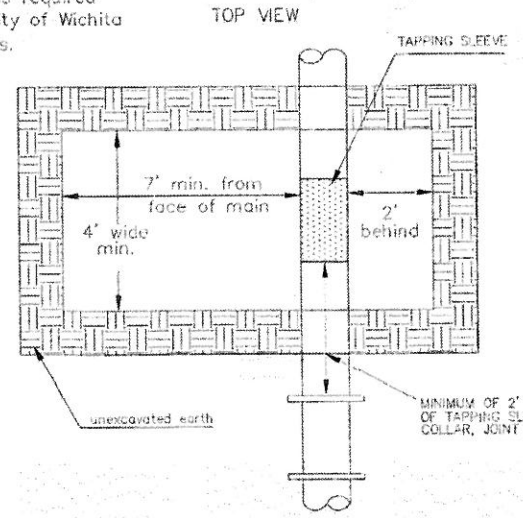


PIPE SIZE	THRUST AT FITTINGS IN TONS-AT 150#/in <sup>2</sup> P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.0	6.95	3.75	1.90	.96	4.0
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	26.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

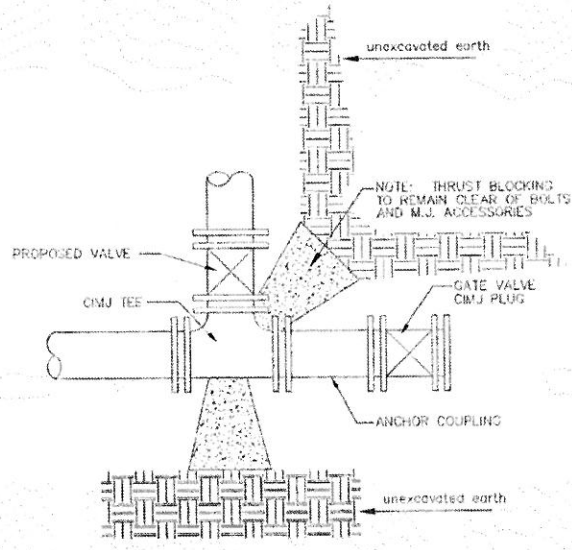
TYPICAL THRUST BLOCKS



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

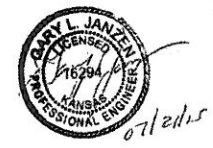


PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS



KEY BLOCK DETAIL

\* PLANS GOVERN UNLESS OTHERWISE NOTED ON PLANS

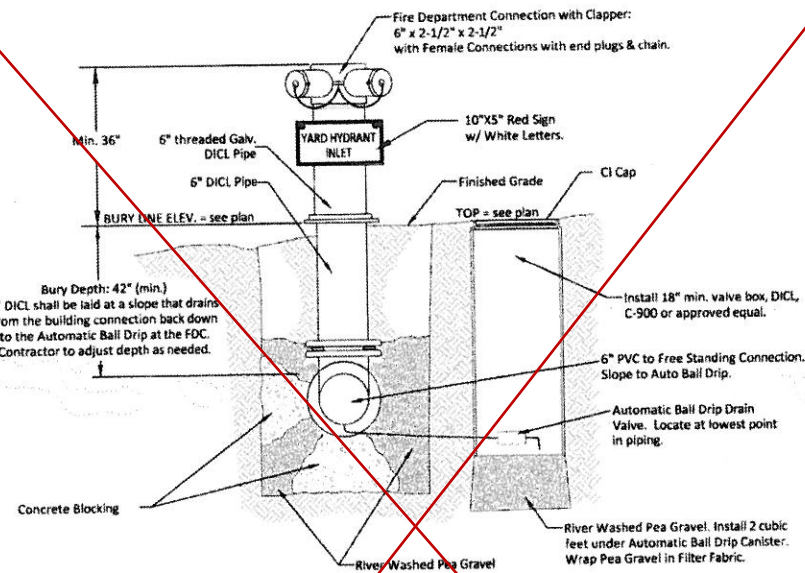


**CITY OF WICHITA**  
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

MISCELLANEOUS WATER DETAILS		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER 2272 PPW	DCA NUMBER 183021	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET <b>C503</b>

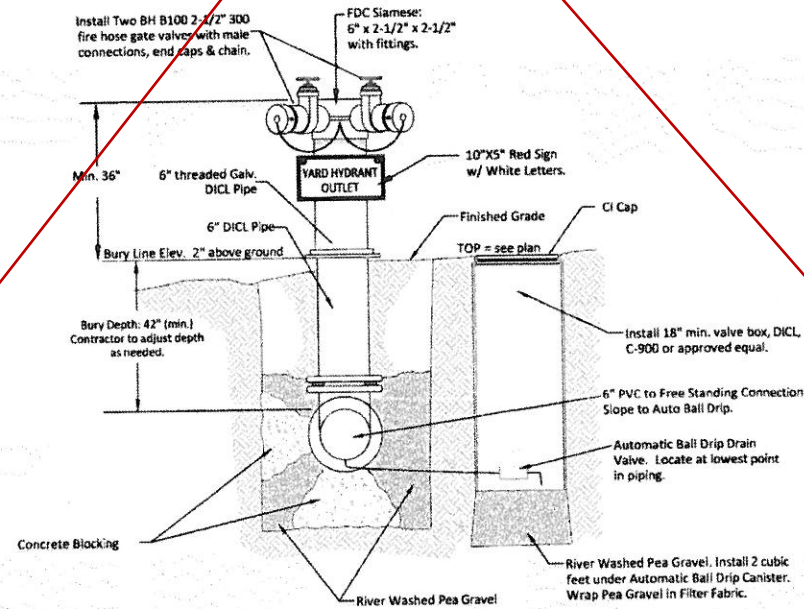
## FREE STANDING YARD HYDRANT (also called Dry Fire Line)

Inlet and Outlet to be used together to provide fire hydrant coverage on the far side of a building.



**1 FREE STANDING YARD HYDRANT INLET**  
NOT TO SCALE

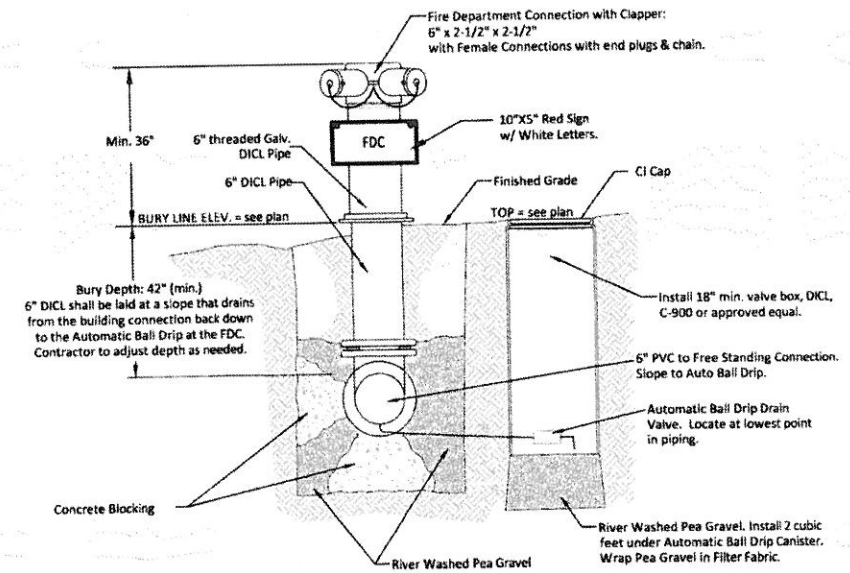
To be located within 150' of a Fire Hydrant



**2 FREE STANDING YARD HYDRANT OUTLET**  
NOT TO SCALE

## REMOTE FIRE DEPARTMENT CONNECTION

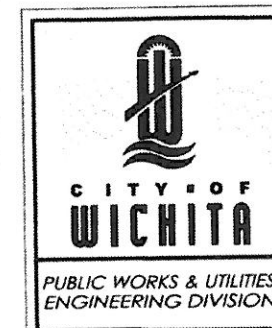
Same construction as Free Standing Yard Hydrant Inlet, with different sign. Used to boost interior sprinkler systems.



**REMOTE FIRE DEPARTMENT CONNECTION**  
NOT TO SCALE

To be located within 150' of a Fire Hydrant

Sheet 10-31-2019 3:41:08 PM PZ SD  
 P:\Projects\11-31-01-2019 9:11:40 AM by EG  
 U:\Projects\6-1-2017\171321\1001\Plans\Drawings\PLANS\171321-03-C504-FREE STANDING YRD HYDRANT



**FREE STANDING YARD HYDRANT AND REMOTE FDC DETAIL**

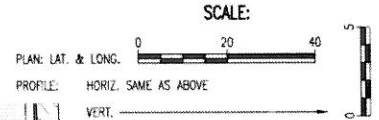
CITY ENGINEER  
**GARY JANZEN, P.E.**

PROJECT NUMBER 2272 PPW	OCA NUMBER 183021	DATE SEPTEMBER 2019
----------------------------	----------------------	------------------------

CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501	SHEET <b>C504</b>
--	----------------------

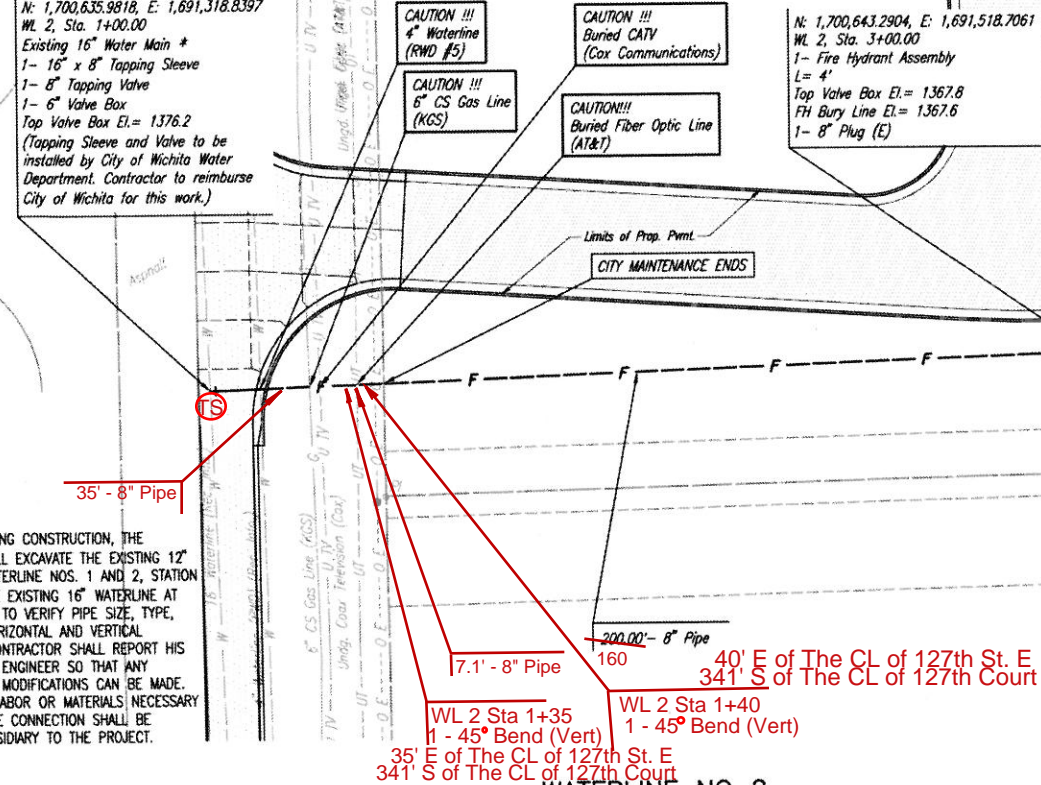
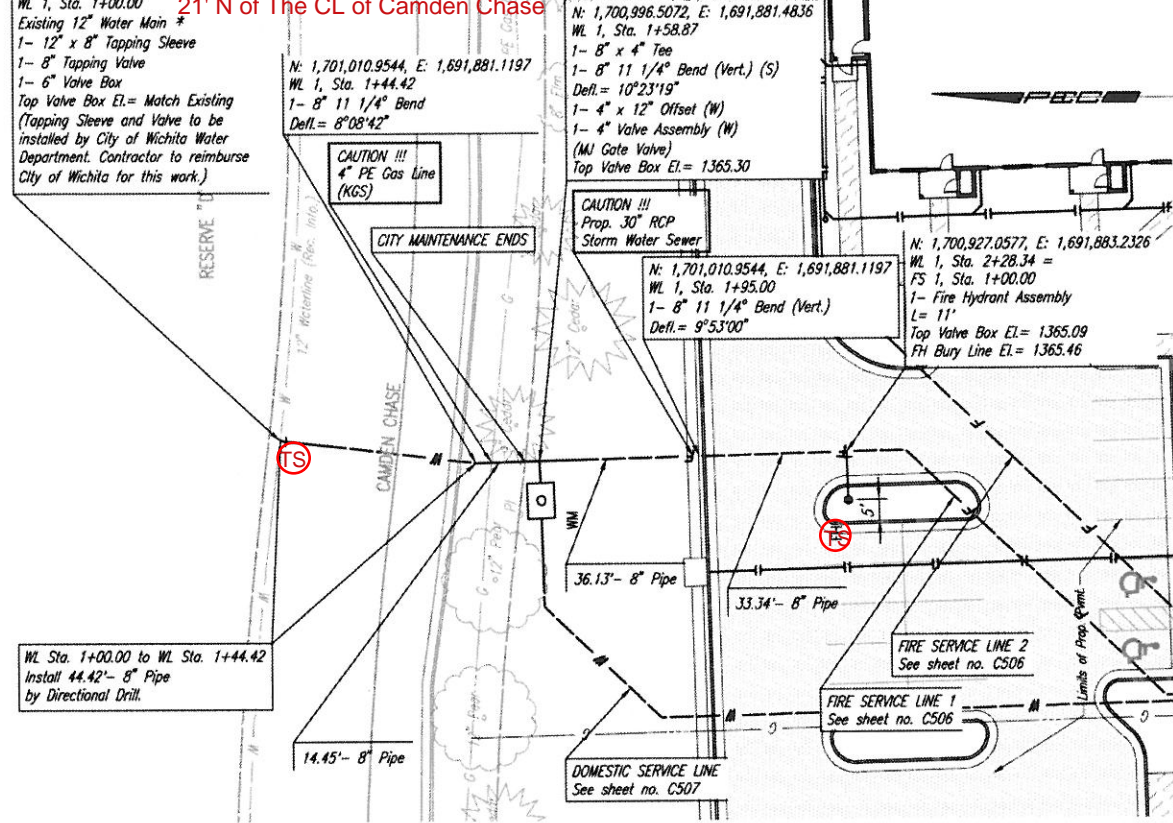
Tee is 146' W of The CL of Peckham St  
 23' N of The CL of Camden Chase  
 Valve is 146' W of The CL of Peckham St  
 21' N of The CL of Camden Chase

Tee is 19' E of The CL of 127th St. E  
 341' S of The CL of 127th Court  
 Valve is 21' E of The CL of 127th St. E  
 341' S of The CL of 127th Court

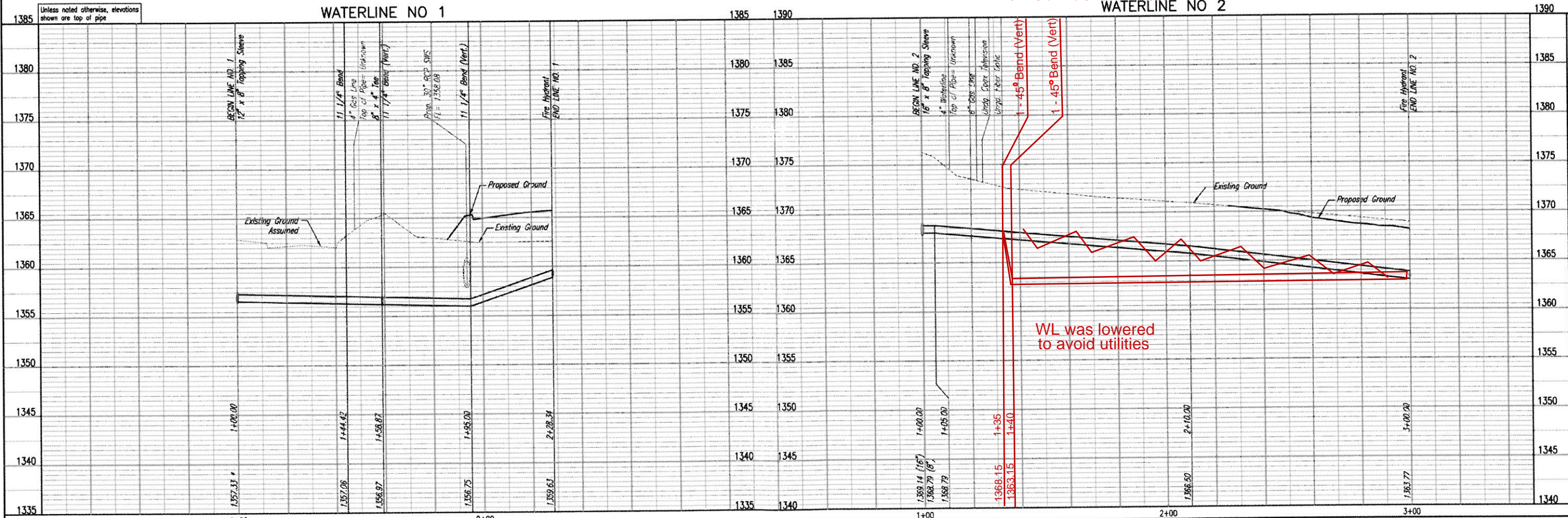


DATE	
BY	
CHECKED	
PLAN	

DATE	
BY	
CHECKED	
PROFILE	



\* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 12" WATERLINE AT WATERLINE NOS. 1 AND 2, STATION 1+00.00 AND THE EXISTING 16" WATERLINE AT STATION 1+00.00 TO VERIFY PIPE SIZE, TYPE, FITTINGS, AND HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

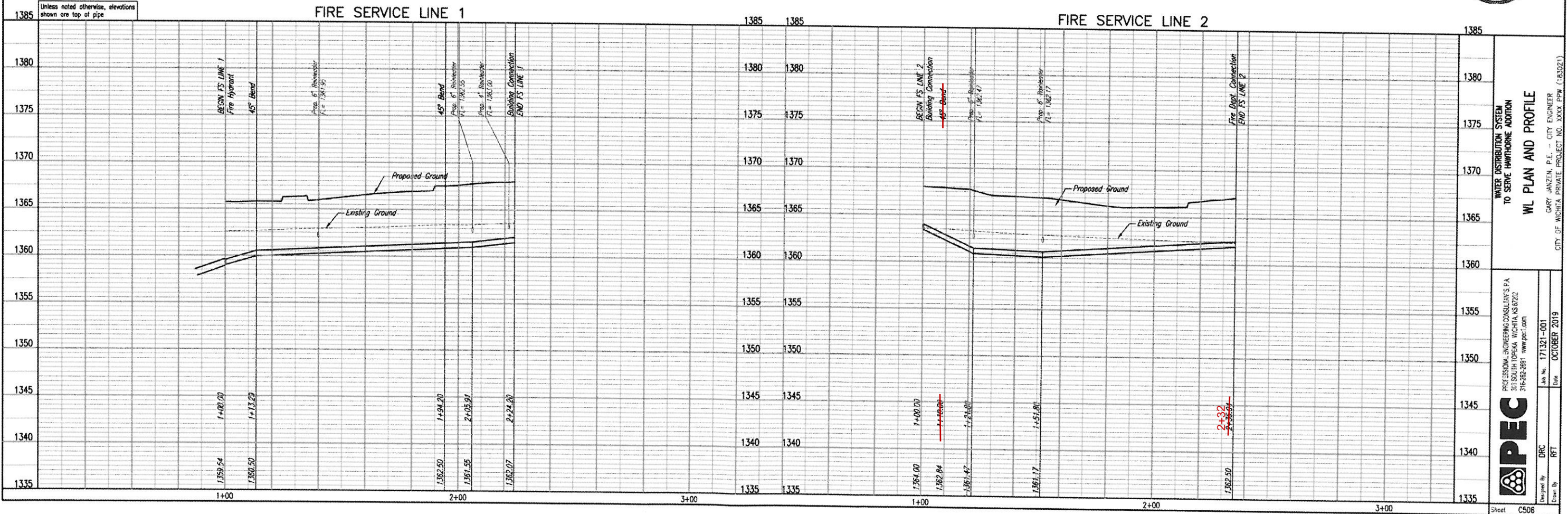
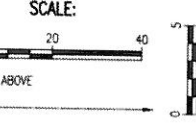
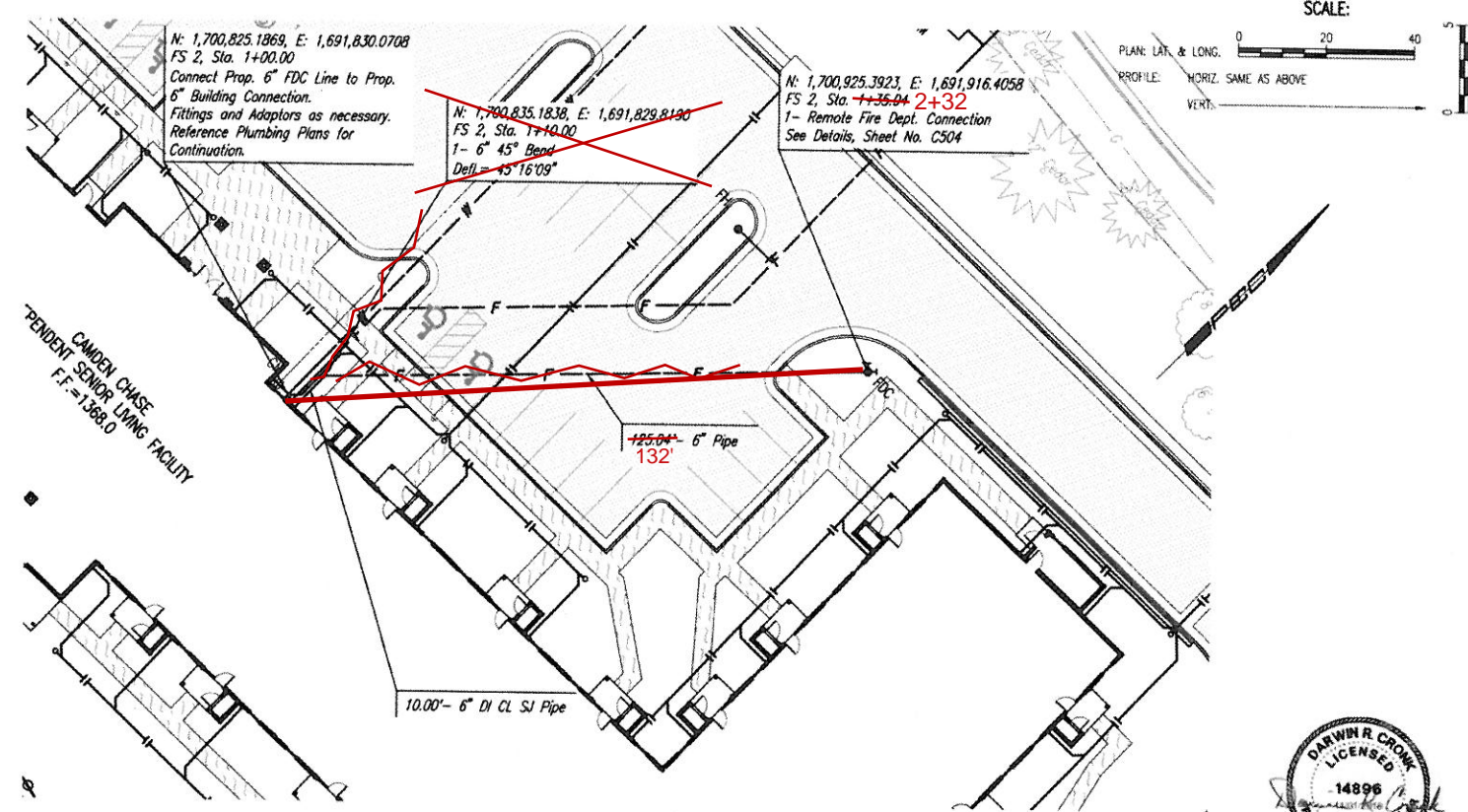
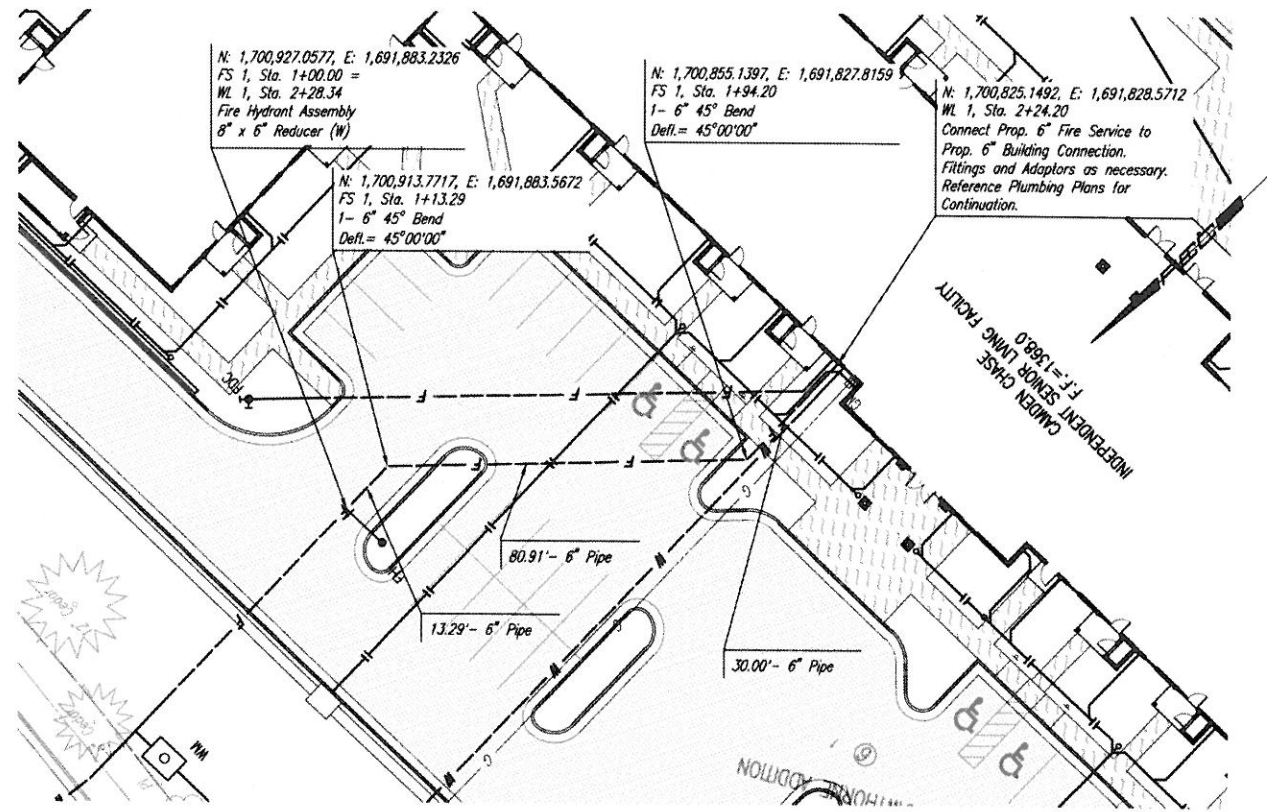


WL was lowered to avoid utilities

**PEC**  
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 305 SOUTH TOPKAWA WICHITA, KS 67222  
 316-262-2681 www.pec1.com  
 Drawn By: DRC  
 Checked By: RFT  
 Date: OCTOBER 2019  
 Job No.: 171321-001  
 City of Wichita Private Project No. XXXX EPW (183021)  
**WATER DISTRIBUTION SYSTEM TO SERVE HAWTHORNE ADDITION**  
**WL PLAN AND PROFILE**  
 GARY JANZEN, P.E. - CITY ENGINEER  
 Sheet C505

PLAN	CHECKED	DATE
	CHECKED	

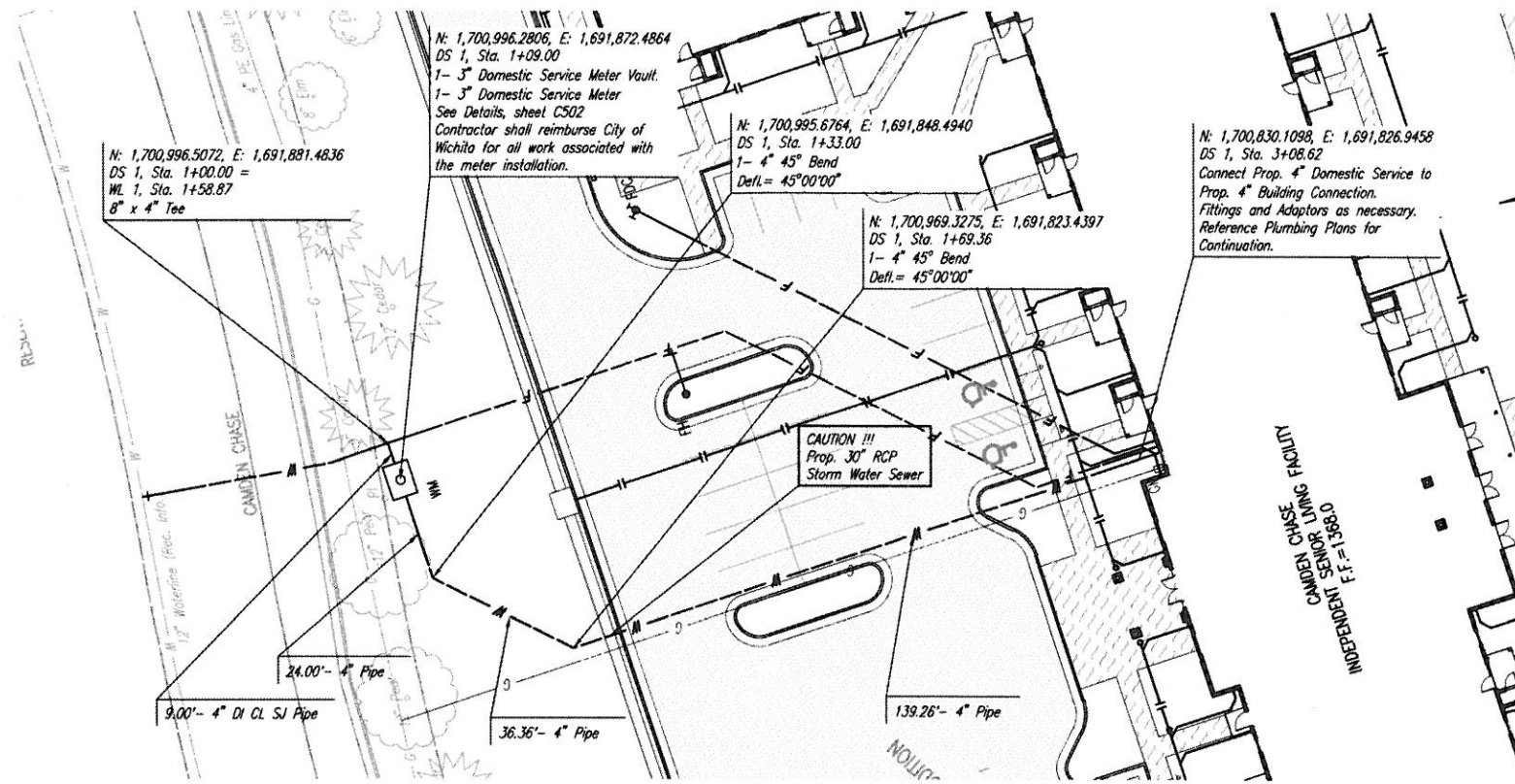
PROFILE	CHECKED	DATE
	CHECKED	



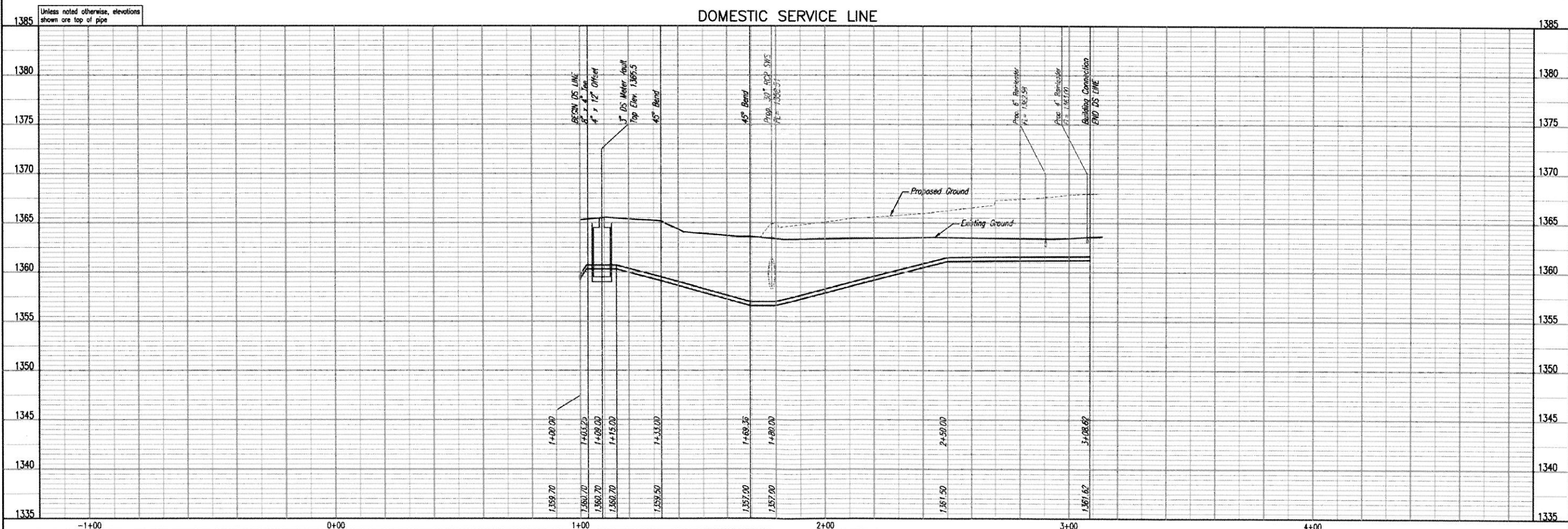
**WATER DISTRIBUTION SYSTEM TO SERVE HAWTHORNE ADDITION**  
**WL PLAN AND PROFILE**  
 GARY JANZEN, P.E. - CITY ENGINEER  
 CITY OF WICHITA PRIVATE PROJECT NO. XXXX PPM (180321)  
 DESIGNED BY: DRG  
 DRAWN BY: RT  
 Job No. 171321-001  
 Date: OCTOBER 2019  
 SHEET C506

PLAN	CHECKED	DATE
	CHECKED	

PROFILE	CHECKED	DATE
	CHECKED	



**DOMESTIC SERVICE LINE**



**WATER DISTRIBUTION SYSTEM TO SERVE HAWTHORNE ADDITION**

**WL PLAN AND PROFILE**

CARY JANZEN, P.E. - CITY ENGINEER  
 CITY OF WICHITA, PRIVATE PROJECT NO. XXXX-PPW (183021)

PROFESSIONAL ENGINEERING CONSULTANTS P.A.  
 303 SOUTH DOCKA WICHITA, KS 67222  
 316-262-2891 www.pec1.com

Designed By: **DRC**  
 Drawn By: **RRT**

Job No. 171321-001  
 Date: OCTOBER 2019

Sheet C507

**NOTES**

THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED MINIMUM STANDARDS. WHENEVER SEDIMENT ENTERS STREETS, STORM SEWERS, DITCHES, OR PONDS, THE CONTRACTOR WILL INSTALL ADDITIONAL DEVICES AS NEEDED TO CORRECT THE PROBLEM.

THE EROSION CONTROL DEVICES SHOWN HEREON MUST BE IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL SUCH TIME AS THE SITE IS REESTABLISHED WITH PAVING OR GRASS. THE CONTRACTOR SHALL INSTALL TEMPORARY OR PERMANENT SEED IN ACCORDANCE WITH ATTACHMENT "A" OF THE KDHE NOTICE OF INTENT PERMIT.

THE CONTRACTOR SHALL CLEAN UP ANY MUD INADVERTENTLY TRACKED ONTO ANY STREET AT THE END OF EACH DAY'S WORK.

THE EROSION CONTROL PLAN IS CONSIDERED A DYNAMIC PLAN. THE CONTRACTOR MAY MAKE CHANGES AS NECESSARY TO MEET PERMIT REQUIREMENTS. ANY CHANGES OR DELETION SHALL BE RECORDED AND KEPT ON SITE AT ALL TIMES.

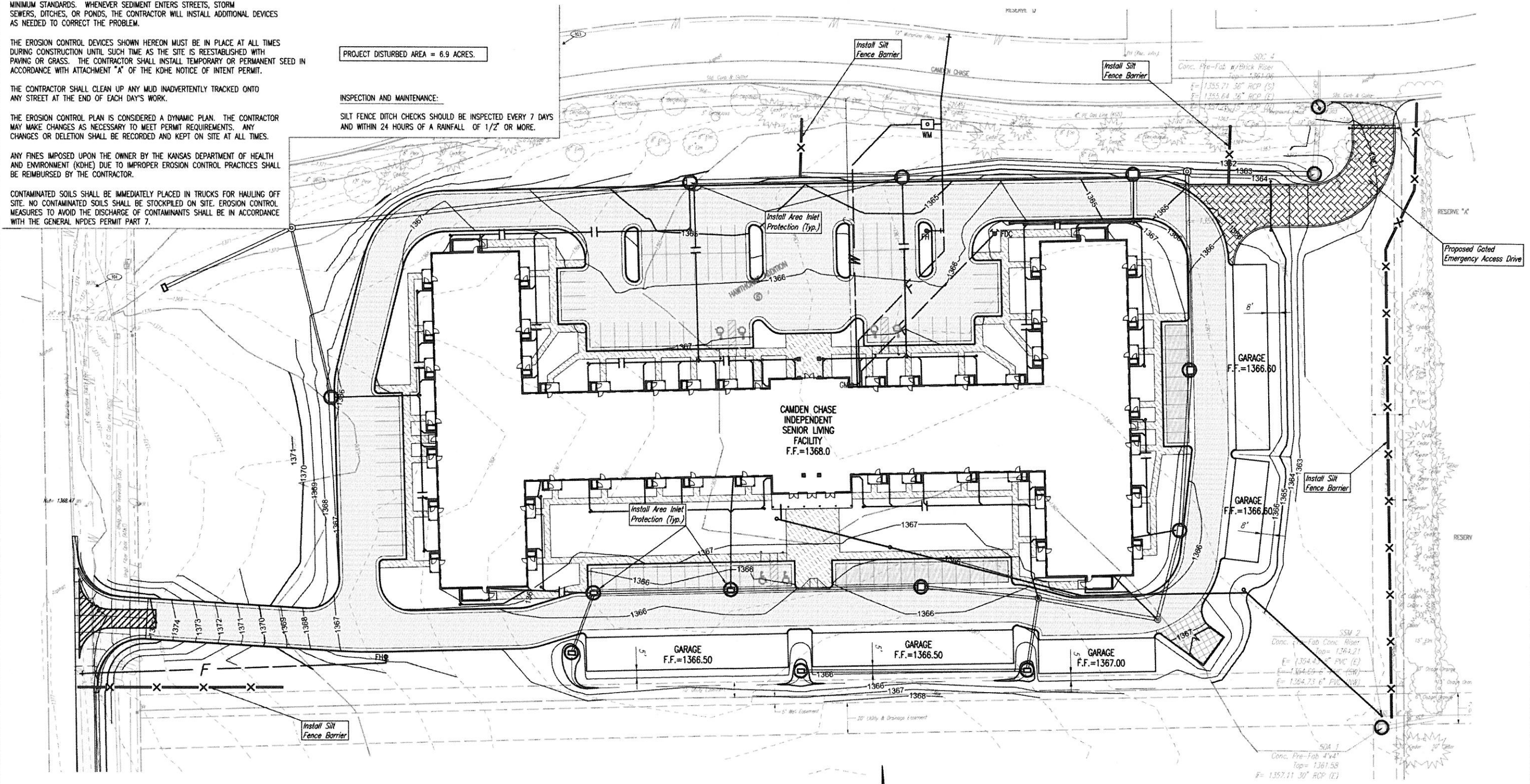
ANY FINES IMPOSED UPON THE OWNER BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT (KDHE) DUE TO IMPROPER EROSION CONTROL PRACTICES SHALL BE REIMBURSED BY THE CONTRACTOR.

CONTAMINATED SOILS SHALL BE IMMEDIATELY PLACED IN TRUCKS FOR HAULING OFF SITE. NO CONTAMINATED SOILS SHALL BE STOCKPILED ON SITE. EROSION CONTROL MEASURES TO AVOID THE DISCHARGE OF CONTAMINANTS SHALL BE IN ACCORDANCE WITH THE GENERAL NPDES PERMIT PART 7.

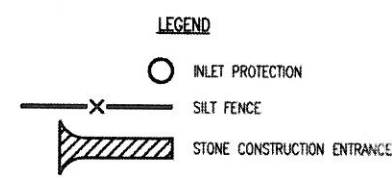
PROJECT DISTURBED AREA = 6.9 ACRES.

**INSPECTION AND MAINTENANCE:**

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE.

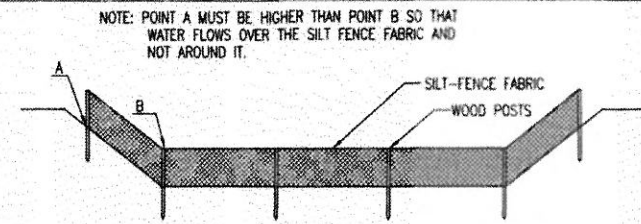


Saved: 10-31-2019 4:24:45 PM by SJD  
 Plot Scale: 1" = 11'-0" (2019 9:19:05 AM by SJD)  
 U:\Wichita-File\171321\171321-001\Main\2019\KANSAS\171321-001-0000-EROSION CONTROL.PLAN



	No. _____ Revision _____ By _____ Date _____	
	STORM WATER SEWER IMPROVEMENTS TO SERVE HAWTHORNE ADDITION <b>EROSION CONTROL PLAN</b> GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PRIVATE PROJECT NO. 607 PPD (1.331.19)	
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2891 www.pec1.com
Designed by DRC Drawn by RFT	Job No. 171321-001 Date OCTOBER 2019	Sh. C600





**ELEVATION**  
**SILT FENCE DITCH CHECKS**  
(STREAM PROTECTION)

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSTREAM EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

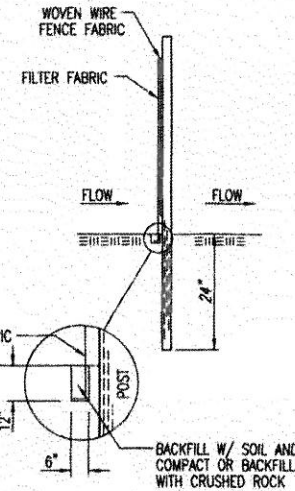
**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK—NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM. DO NOT PLACE SILT FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW. FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS. DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE. DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

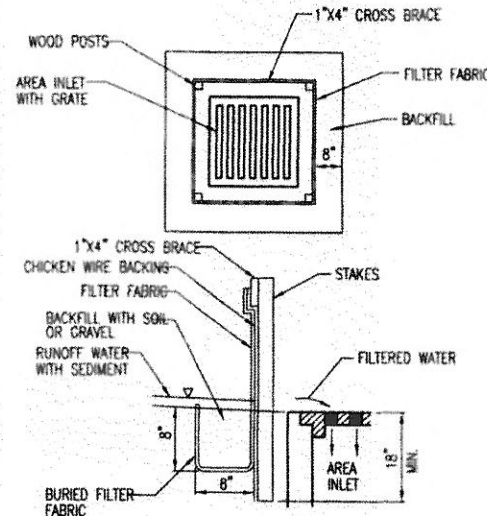
**INSPECTION AND MAINTENANCE:**

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE DITCH CHECK?
- DOES WATER FLOW UNDER THE DITCH CHECK?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



**ANCHOR TRENCH DETAIL**



**SILT FENCE BARRIERS FOR AREA INLETS**  
(INLET PROTECTION)

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS. SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

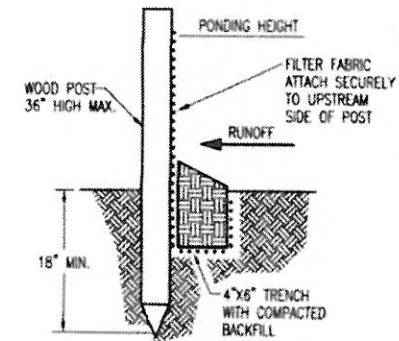
**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET—NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

**INSPECTION AND MAINTENANCE:**

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW UNDER THE SILT FENCE?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



**SILT FENCE BARRIERS**

**MATERIAL SPECIFICATION:**

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**PLACEMENT:**

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

**PROPER INSTALLATION METHOD:**

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

**LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:**

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND—SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

**INSPECTION AND MAINTENANCE:**

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DO THE SILT FENCES SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2015



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

**SILT FENCE DITCH CHECK AND BARRIER DETAILS**

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

PROJECT NUMBER: OCA NUMBER: DATE:

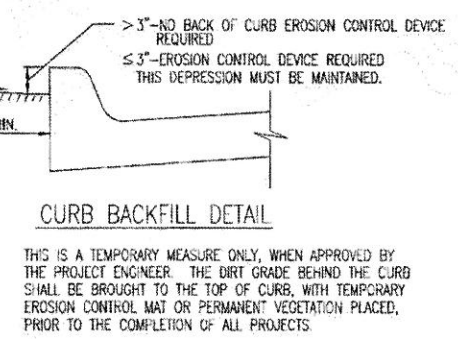
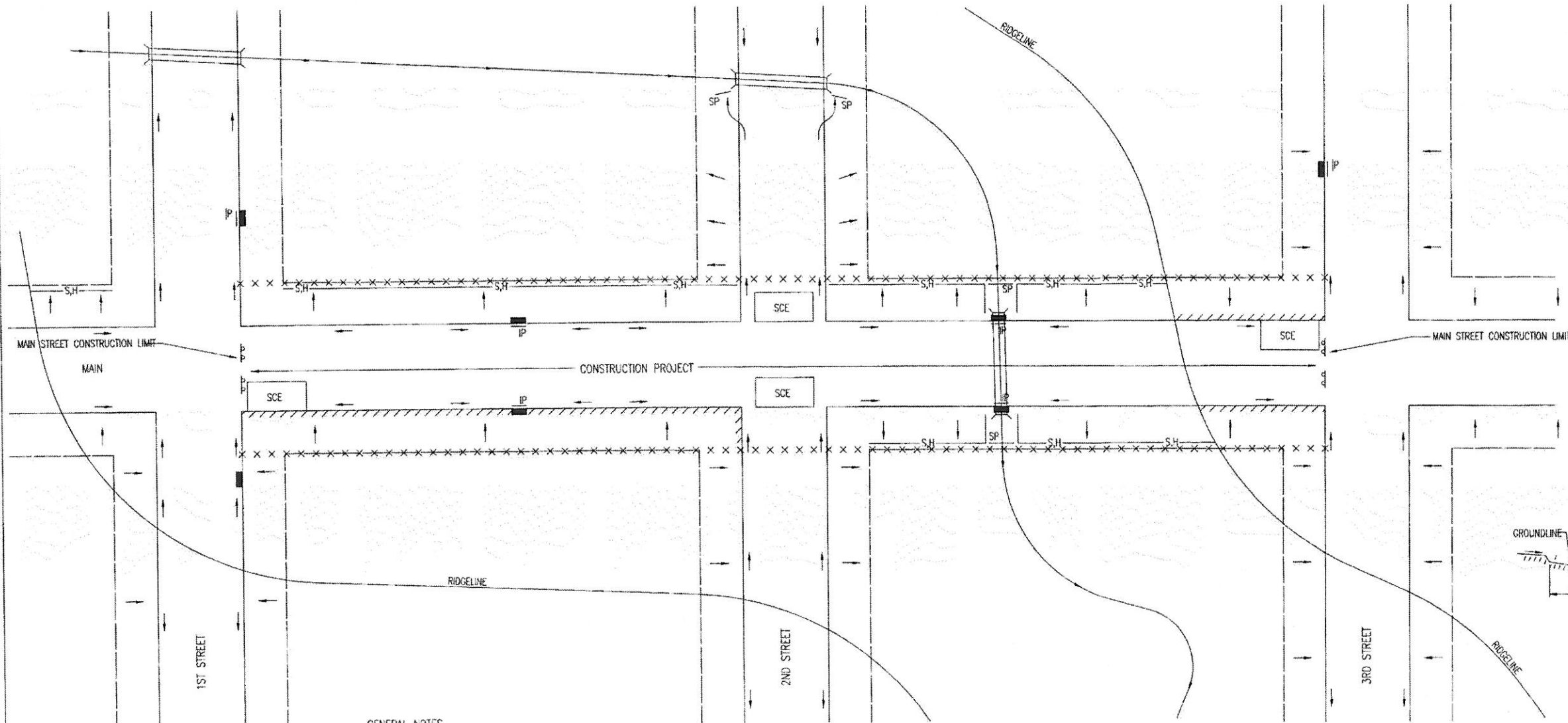
CITY ENGINEER'S OFFICE  
CITY HALL, SEVENTH FLOOR  
455 NORTH MAIN STREET  
WICHITA, KANSAS 67202-1620  
(316) 268-4501

SHEET  
**C602**



**GENERAL NOTES**

1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.



**LEGEND**

- R-O-W LIMITS
- DRAINAGE FLOW PATH
- × × × × R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP INLET PROTECTION
- S.H.— SILT FENCE OR HAY BALE BARRIER
- SP STREAM PROTECTION
- SCE STABILIZED CONSTRUCTION ENTRANCE
- //// BACK OF CURB PROTECTION

**GENERAL NOTES**

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
8. THE CONTRACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
  - A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs - BACK OF CURB SEDIMENT BARRIER DETAILS)
  - B. THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL.) OTHER BMPs MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
  - C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
  - D. SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL.)

Scale: 09-24-2019 2:44:38 PM by GJE  
 Plot Scale: 1" = 11'-0" (2019) 11-27-2019 11:27:58 AM by GJE  
 J:\Weather-Data\2017\11\2017\11-27-2019\11-27-2019-604-EROSION CONTROL DETAILS



**CITY OF WICHITA**

**PUBLIC WORKS & UTILITIES ENGINEERING DIVISION**

<b>STREET IMPROVEMENT PROJECTS</b>		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1420 (316) 268-4501		SHEET <b>C604</b>

REVISION: JUNE 2015

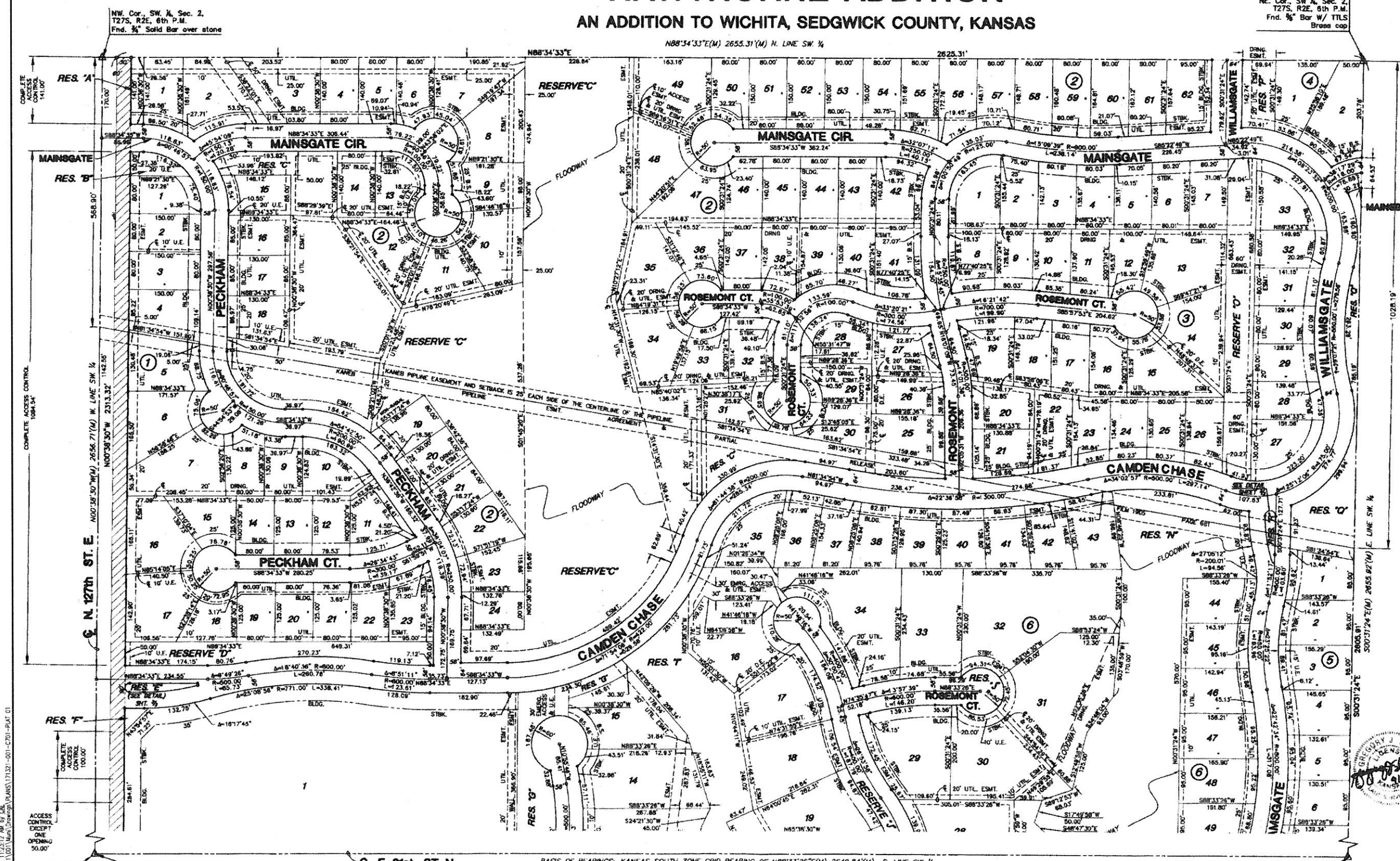


# FINAL PLAT HAWTHORNE ADDITION

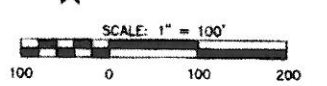
AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

NE. Cor., SW. ¼, Sec. 2,  
T27S, R2E, 6th P.M.  
Fnd. ¾" Bar w/ TILS  
Bross cap

MINIMUM PAD ELEVATIONS (LOWEST OPENINGS)			
LOT	BLOCK	ELEVATION (CITY DATUM)	ELEVATION (USGS)
2	2	181.6	1369.0
3	2	181.6	1369.0
8	2	175.1	1362.5
9	2	174.7	1362.1
10	2	175.1	1362.5
11	2	178.1	1365.5
12	2	178.6	1366.0
14	2	180.1	1367.5
15	2	180.1	1367.5
16	2	179.6	1367.0
17	2	179.1	1366.5
18	2	179.1	1366.5
19	2	178.1	1365.5
20	2	178.1	1365.5
21	2	175.6	1363.0
22	2	174.6	1362.0
23	2	173.6	1361.0
24	2	173.6	1361.0
25	2	173.6	1361.0
30	2	173.6	1361.0
31	2	173.6	1361.0
32	2	173.6	1361.0
33	2	173.6	1361.0
34	2	173.6	1361.0
35	2	174.1	1361.5
48	2	174.7	1362.1
49	2	175.9	1363.3
62	2	180.9	1368.3
7	3	178.6	1366.0
13	3	178.6	1366.0
14	3	178.1	1365.5
26	3	178.1	1365.5
27	3	178.1	1365.5
28	3	178.1	1365.5
29	3	178.1	1365.5
30	3	178.1	1365.5
31	3	178.6	1366.0
32	3	178.6	1366.0
33	3	178.6	1366.0
1	4	180.9	1368.3
14	6	170.3	1357.7
15	6	170.9	1358.3
16	6	170.9	1358.3
17	6	170.3	1357.7
18	6	170.3	1357.7
19	6	170.3	1357.7
28	6	174.1	1361.5
30	6	174.1	1361.5
31	6	174.1	1361.5
32	6	176.1	1363.5
43	6	177.6	1365.0
44	6	176.1	1363.5
45	6	175.1	1362.5
46	6	174.1	1361.5
47	6	174.1	1361.5
48	6	174.1	1361.5
49	6	174.1	1361.5



- LEGEND**
- △ = SECTION CORNER MONUMENT FOUND
  - = FOUND PROPERTY CORNER REBAR
  - = SET 5/8" REBAR w/ MKEC CLS #30 CAP
  - B.S. = BUILDING SETBACK
  - U.E. = UTILITY EASEMENT
  - (M) = MEASURED DIMENSION
  - ▭ = STREET DEDICATION



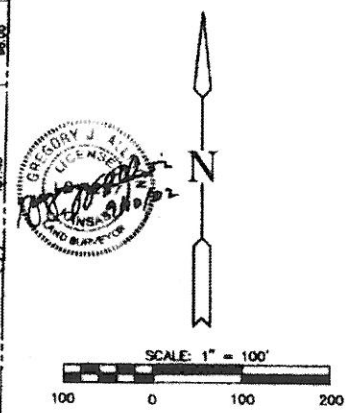
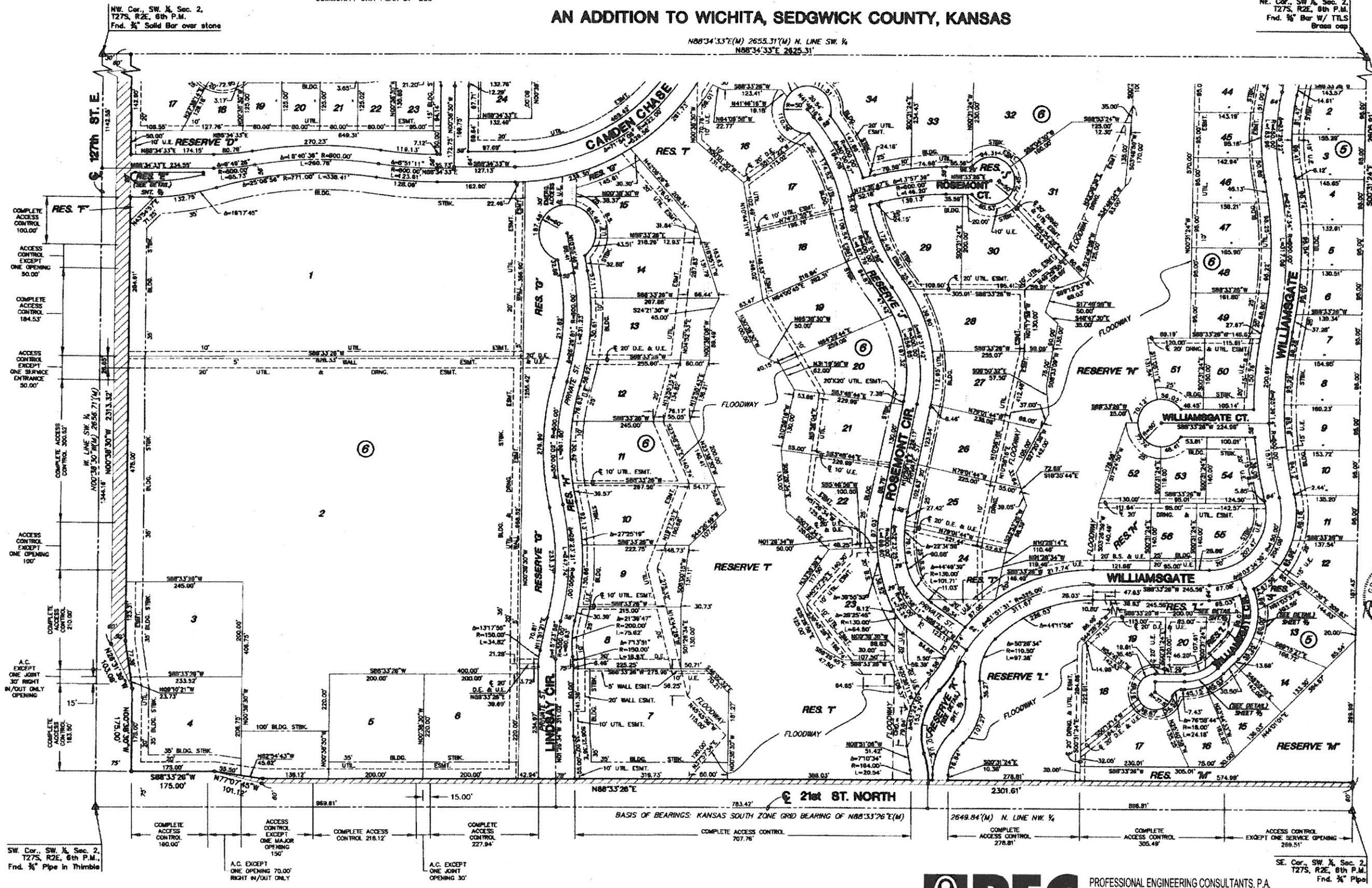
Drawn 09-24-2019 2:46:17 PM by CJE  
 Plat Scale 1" = 110'-0" 2019 11:23:12 AM by CJE  
 U:\Projects\2019\20191123\20191123\Drawings\PLATS\17132-001-C701-PLAT.C

**PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 303 SOUTH TOPEKA WICHITA, KS 67202  
 316-262-2691 www.pec1.com

**FINAL PLAT**  
**HAWTHORNE ADDITION**  
 AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

**NOTE**  
 LOTS 1,2,3,4,5 AND 6 BLOCK 6 OF THIS  
 PLAT ARE SUBJECT TO THE CONDITIONS OF  
 COMMUNITY UNIT PLAN DP-238

MINIMUM PAD ELEVATIONS (LOWEST ELEVATIONS)			
LOT	BLOCK	ELEVATION (CITY DATUM)	ELEVATION (USGS)
24	2	173.6	1361.0
13	5	173.1	1360.5
14	5	171.9	1359.3
15	5	170.1	1357.5
18	5	168.3	1355.7
17	5	166.6	1354.0
18	5	167.1	1354.5
19	5	168.1	1355.5
7	6	167.8	1355.2
8	6	170.3	1357.7
9	6	170.3	1357.7
10	6	170.3	1357.7
11	6	170.3	1357.7
12	6	170.3	1357.7
13	6	170.3	1357.7
14	6	170.3	1357.7
15	6	170.9	1358.3
16	6	170.9	1358.3
17	6	170.3	1357.7
18	6	170.3	1357.7
19	6	170.3	1357.7
20	6	170.3	1357.7
21	6	170.3	1357.7
22	6	170.3	1357.7
23	6	170.3	1357.7
24	6	169.7	1357.1
25	6	169.7	1357.1
26	6	169.7	1357.1
27	6	169.7	1357.1
28	6	174.1	1361.5
30	6	174.1	1361.5
31	6	174.1	1361.5
32	6	178.1	1363.5
44	6	176.1	1363.5
45	6	175.1	1362.5
46	6	174.1	1361.5
47	6	174.1	1361.5
48	6	174.1	1361.5
49	6	174.1	1361.5
51	6	174.1	1361.5
52	6	169.7	1357.1
56	6	169.7	1357.1



- LEGEND**
- △ = SECTION CORNER MONUMENT FOUND
  - = FOUND PROPERTY CORNER REBAR
  - = SET 5/8" REBAR W/ MKEC CLS #39 CAP
  - B.S. = BUILDING SETBACK
  - U.E. = UTILITY EASEMENT
  - (M) = MEASURED DIMENSION
  - ▭ = STREET DEDICATION

Drawn 10-26-2018 9:25:12 AM by RT  
 Plot Scale 1:11-01-2019 11:23:19 AM by RT  
 C:\Wichita-City\3037\31321\001\Main\Drawings\PLANS\171321-001-C702-PLAT.DWG

**PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 303 SOUTH TOPEKA WICHITA, KS 67202  
 316-262-2691 www.pec1.com

# FINAL PLAT

## HAWTHORNE ADDITION

### AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

I, Gregory J. Allison, a Registered Land Surveyor in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "HAWTHORNE ADDITION," an addition to Wichita, Sedgwick County, Kansas, into Lots, Blocks, Streets, and Reserves, the same being accurately set forth in the accompanying plat and described herein:

The Southwest Quarter of Section 2, Township 27 South, Range 2 East, of the 6th Principal Meridian, Sedgwick County, Kansas, EXCEPT that portion dedicated for street.

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 12<sup>th</sup> day of September 2002.



Gregory J. Allison, PE, LS #1257  
MKEC Engineering Consultants, Inc.  
411 North Webb Road  
Wichita, Kansas 67206

Know all men by these presents that we the undersigned property owners of the land above set forth in the Registered Land Surveyor's Certificate, have caused the same to be surveyed and platted into Lots, Blocks, Streets, and Reserves, the same to be known as "HAWTHORNE ADDITION," an addition to Wichita, Sedgwick County, Kansas.

The streets are hereby dedicated to and for the use of the public; except for private streets Lindsay Circle and Rosemont Circle. Easements for the construction and maintenance of public utilities, and drainage, as indicated on the accompanying plat are hereby granted to the appropriate governing body. The Emergency Access easements located in Reserves G and I are hereby dedicated to and for the use of the public and shall not be encumbered in any way except for a gate or other improvements as required by and approved by the City of Wichita Fire Department.

Reserves A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, and T are platted for monuments, landscaping, irrigation, berming and open space. Reserve A and B are also platted for drainage. Reserves C, I, L, and N are also platted for lakes, floodways, and drainage - all in designated locations. Reserve C is also platted for sidewalks and for recreational uses. Reserves H and J are also platted for private streets, gates, drainage, and utilities. Reserve N is also platted for sidewalks, pool and associated uses, clubhouse, and recreational uses. Reserves G, P, and O are platted for drainage, landscaping, irrigation, berming, open space, and sidewalks. The reserves shall be owned and maintained by the homeowners association.

The Wall Easement is platted for the construction and maintenance of a private wall, utilities may cross the Wall Easement.

A drainage plan has been developed for this plat and all drainage easements, right-of-way, or reserves shall remain at established grades or as modified with the approval of the applicable City or County Engineer, and unobstructed to allow for the conveyance of storm water.

All abutters right of access to or from 21st Street North over and across the South line of "HAWTHORNE ADDITION," are hereby granted to the appropriate governing body, provided however Lots 2, 4, 5, and 6, Block 6 shall have access to 21st Street North as indicated on the face of the plat. All abutters right of access to or from 127th Street East over and across the West line of "HAWTHORNE ADDITION," are hereby granted to the appropriate governing body, provided however, Lots 1, 2, 3, and 4, Block 6 shall have access to 127th Street East as indicated on the face of the plat. (Note: said Lots 1, 2, 3, 4, 5, 6, Block 6, are subject to the conditions of the Community Unit Plan DP-238.)

The roadway, as indicated, shall be the responsibility of the owners until such time as the appropriate governing body exercising jurisdiction elects to assume the responsibility for the maintenance and improvements of the drainage, provided further, that no structure shall be constructed on or within said roadway, nor shall any fill, change of grade, creation of a channel or any other work on be carried out without the permission of the City Engineer.

**NOTE**  
LOTS 1,2,3,4,5 AND 6 BLOCK 6 OF THIS PLAT ARE SUBJECT TO THE CONDITIONS OF COMMUNITY UNIT PLAN DP-238

TWENTY-FIRST GROWTH, L.L.C., a Kansas limited liability company

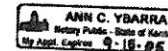
Managing Member  
Tim Buchanan, Managing Member

STATE OF KANSAS)  
SE:  
SEDGWICK COUNTY)

BE IT REMEMBERED, that on this 9<sup>th</sup> day of Sept., 2002, before me the undersigned, a Notary Public in and for the County and State aforesaid, came Tim Buchanan, Managing Member of Twenty-First Growth L.L.C. a Kansas Limited Liability Company, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year last above written.

Notary Public, Ann C. Ybarra, Notary Public  
My appointment expires: 7-15-05



This plat of "HAWTHORNE ADDITION," has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.  
Dated this 22<sup>nd</sup> day of August, 2002.

WICHITA-SEDGWICK COUNTY METROPOLITAN PLANNING COMMISSION

J. P. Michaels, Chair

Michael E. Lindabak, Secretary



This plat approved and all dedications shown thereon, if any, accepted by the City Council of the City of Wichita, Kansas, this 22<sup>nd</sup> day of OCTOBER, 2002.

At the direction of the City Council.

Chris Charlock, City Manager

Pat Burnett, City Clerk

Entered on transfer record this 12<sup>th</sup> day of December, 2002.

Don Brace, County Clerk



STATE OF KANSAS)  
SE:  
SEDGWICK COUNTY)

This is to certify that this instrument was filed for record in the Register of Deeds office this 12<sup>th</sup> day of December, 2002 at 12:06 o'clock PM; and is duly recorded.

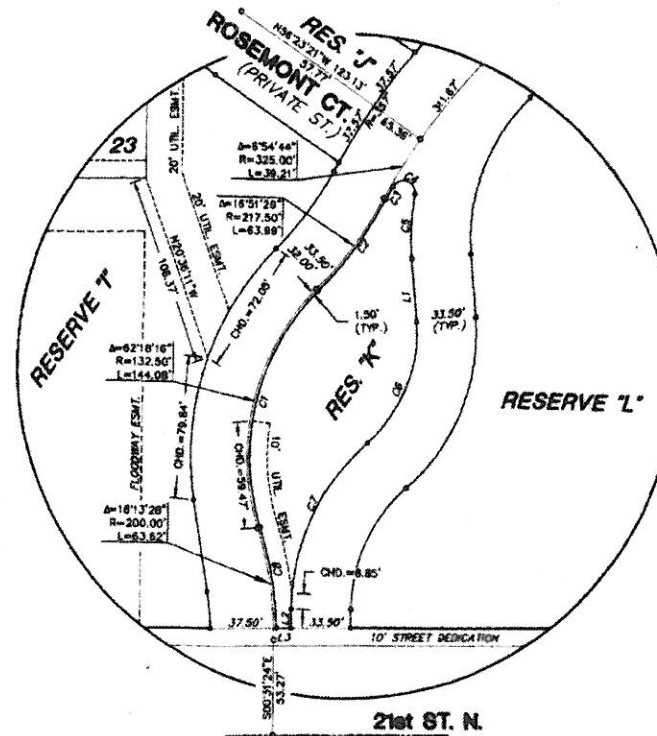
Bill Meek, Register of Deeds

Linda Kizire, Deputy #2153107



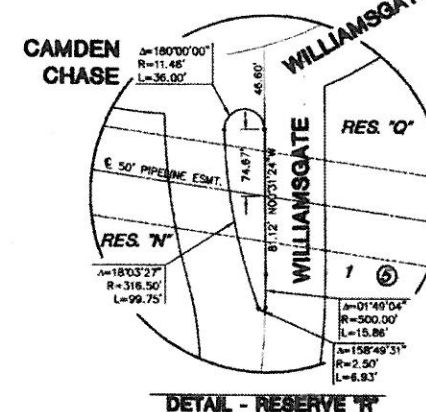
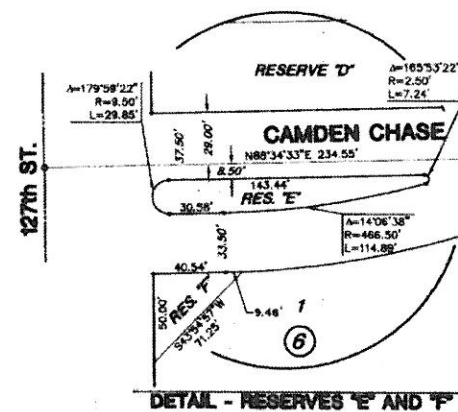
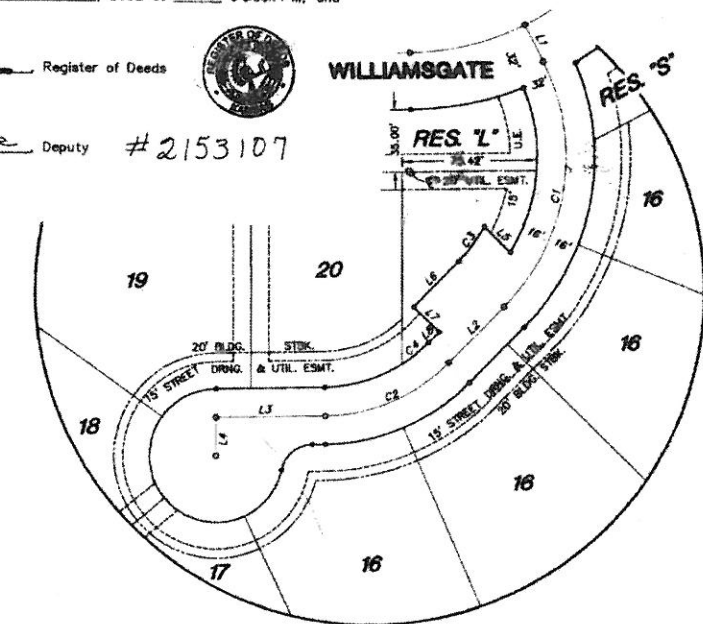
Line	Bearing	Length
L1	S27°03'58"E	22.83'
L2	S44°01'01"W	44.18'
L3	S88°33'26"W	81.18'
L4	S00°31'24"E	21.50'
L5	S45°38'59"E	20.71'
L6	N44°01'01"E	35.71'
L7	S45°38'59"E	20.00'
L8	N44°01'01"E	8.47'

Curve	Delta	Radius	Length
C1	Δ=71°04'59"	120.00'	148.85'
C2	Δ=44°32'26"	100.00'	77.74'
C3	Δ=18°48'23"	84.00'	24.64'
C4	Δ=13°01'36"	84.00'	19.10'



Line	Bearing	Length
L1	S06°09'05"E	35.27'
L2	S00°31'24"E	10.92'
L3	S88°33'26"W	8.11'

Curve	Delta	Radius	Length
C1	Δ=62°18'16"	131.00'	142.45'
C2	Δ=16°31'29"	218.00'	64.44'
C3	Δ=1°31'12"	323.50'	8.58'
C4	Δ=160°18'05"	6.50'	18.19'
C5	Δ=14°36'18"	144.00'	36.71'
C6	Δ=3°40'38"	81.00'	75.88'
C7	Δ=48°06'37"	125.00'	104.97'
C8	Δ=18°18'06"	201.50'	57.33'



DETAIL - RESERVE "K"

DETAIL - WILLIAMS CIR.

DETAIL - RESERVES "E" AND "F"

DETAIL - RESERVE "R"

**PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 SOUTH TOPEKA WICHITA, KS 67202  
316-262-2691 www.pec1.com

Sent: 10-26-2018 9:25:26 AM by BET  
 Plat Date: 11-11-2019 11:23:26 AM by BET  
 U:\Wichita-Civil\2017\171321\001\Map\Drawings\PLANS\171321-001-C703-PLAT.C3