

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:
KANSAS ONE-CALL 687-2470
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
AT&T 1-800-246-8464
BLACK HILLS ENERGY (GAS) 1-800-694-8989
CITY OF WICHITA WATER & SEWER 1-316-219-8921
CITY OF WICHITA STORMWATER 1-316-268-4090
CITY OF WICHITA TRAFFIC 1-316-268-4034
COX COMMUNICATIONS 1-888-249-3530
KANSAS GAS SERVICE 1-888-482-4950
EVERGY 1-800-544-4857
- UTILITY SERVICE LINES, POLES, ETC. 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.
- 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 WILL 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 WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- 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 CITY ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJACENT TO THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND DAWNITA REINHARDT AT 650-0740 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION, STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER AT traffic@wichita.gov BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL ELEVATIONS SHOWN ARE NAVD 88.
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
- ANY SIDEWALK, DRIVE APPROACH, CURB, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
- ALL APPLICABLE FEES (TAP, EQUITY, IN LIEU OF & MAIN BENEFIT) MUST BE PAID BEFORE ANY CONNECTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING 316-268-4555.
- CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.
- MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MAINS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES). ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES) AT CROSSINGS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. WATERLINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTIONS SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- THE CONTRACTOR SHALL LAY A TRACER WIRE AND SET TEST STATIONS ALONG ALL WATER PIPE INSTALLED IN ACCORDANCE WITH CITY SPECIFICATIONS AND TRACER WIRE DETAIL ON DETAIL SHEET WL-101. COST IS SUBSIDIARY TO PIPE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE(S) SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS
- REQUESTS FOR SHORT TERM WATER INTERRUPTIONS SHALL BE MADE TO THE CITY WATER DISTRIBUTION DIVISION AND WILL BE SUBJECT TO THEIR APPROVAL. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANTS SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PERFORMED DURING NON-PEAK HOURS.
- THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR COMPLETING WORK FOR CITY APPROVAL AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.
- DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURERS RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE CIMJ LONG SLEEVE OR MULTIPLE JOINTS.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-291-8921.
- ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR "CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT". THE CONTRACTOR SHALL BE FAMILIAR AND COMPLY WITH ALL OF THE REQUIREMENTS, INCLUDING BONDING, INSPECTION, TESTING, NOTIFICATION, PROVIDING AS-BUILT DRAWINGS, PAYING FOR ALL NECESSARY CONNECTIONS, AND/OR STREET REPAIR FEES AND PROVIDING PIPE MATERIAL AND OTHER CERTIFICATIONS.
- DEVELOPER FOR THIS PROJECT IS:
ICT CAPITAL
301 N. MAIN STREET, SUITE 1400
WICHITA, KANSAS 67202
DOUG MALONE
316-440-8311

PRIVATE WATER DISTRIBUTION SYSTEM IMPROVEMENTS

TO SERVE

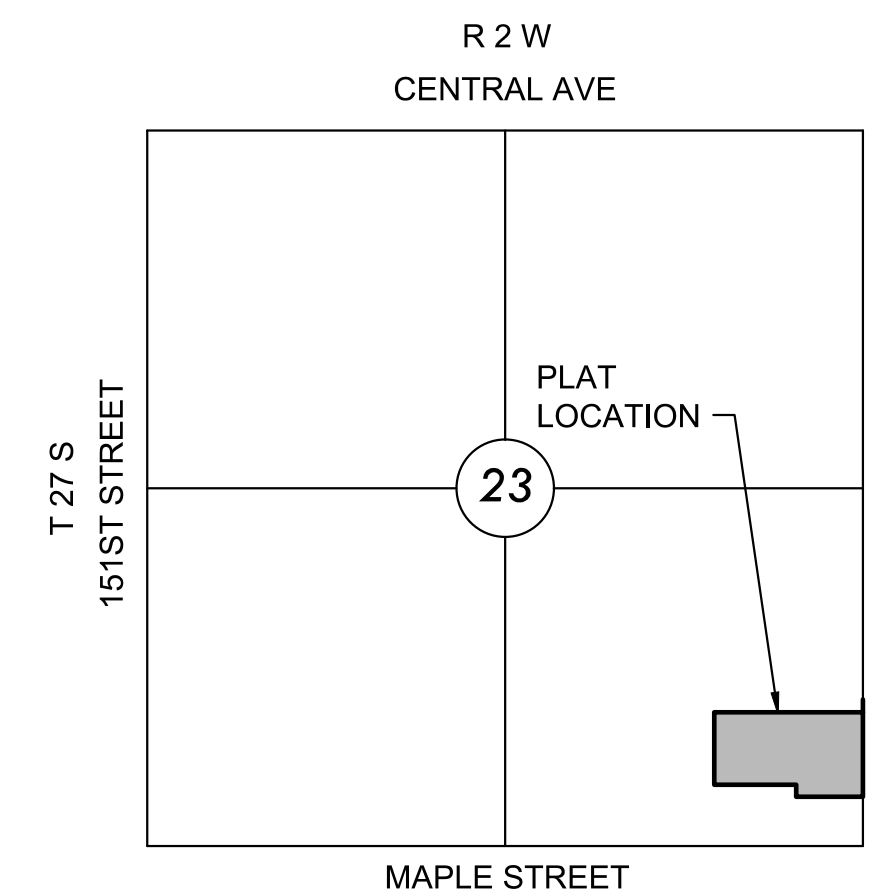
HERITAGE AT AUBURN HILLS ADD.

191 S 135th St W

PROJECT NO. 2021-036502PPW

THE CITY OF WICHITA, KANSAS
GARY JANZEN, P.E. - CITY ENGINEER

ORG CODE 54030980



VICINITY MAP

No Scale

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
01	TITLE SHEET
02-03	CITY WATER DETAILS
04	WATER VAULT DETAIL
05	LINE 1
06	LINE 2
07	BUBBLE MAP
08-12	BMP DETAILS

VAULT RELOCATED PER ENGINEERING

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION
& BY WICHITA FIRE DEPARTMENT

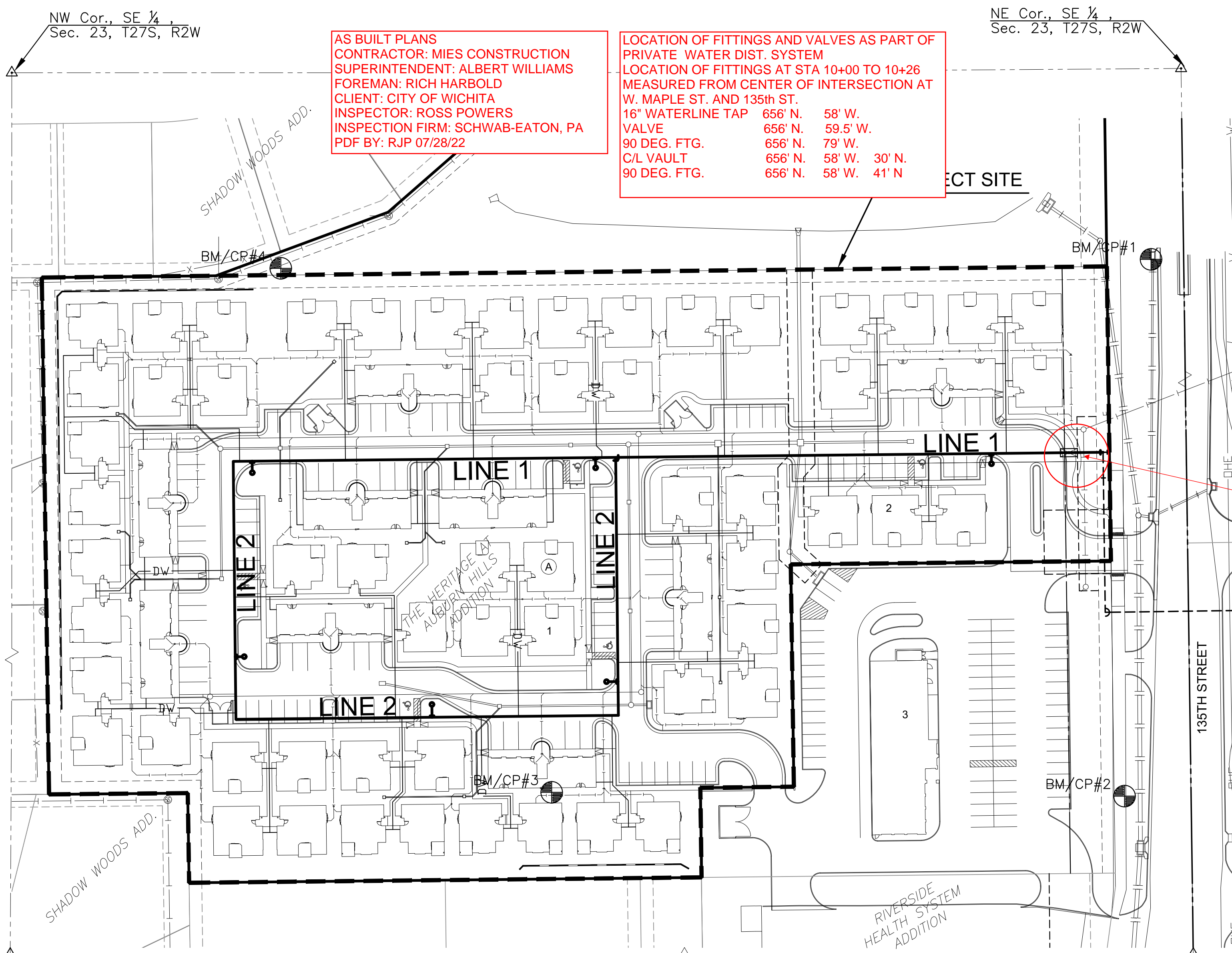
Engineering Approved by Benjamin Freguson on 01/11/22
Utilities Approved by Greg Lolley on 01/11/22
Fire Department Approved by Jose Ocadiz on 01/11/22

NOTE TO CONTRACTORS

Public Property:
Inspection and testing for the water line 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 rights-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 of Wichita Specifications and Standards and Special Provision (on file and available in the City Engineer's office) or on the City's Website.

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.

An approved copy of these plans signed by City staff is required on-site.



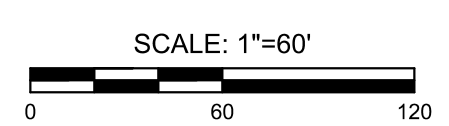
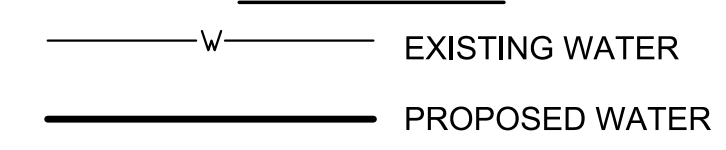
AS BUILT PLANS
CONTRACTOR: MIES CONSTRUCTION
SUPERINTENDENT: ALBERT WILLIAMS
FOREMAN: RICH HARBOLD
CLIENT: CITY OF WICHITA
INSPECTOR: ROSS POWERS
INSPECTION FIRM: SCHWAB-EATON, PA
PDF BY: RJP 07/28/22

LOCATION OF FITTINGS AND VALVES AS PART OF PRIVATE WATER DIST. SYSTEM
LOCATION OF FITTINGS AT STA 10+00 TO 10+26 MEASURED FROM CENTER OF INTERSECTION AT W. MAPLE ST. AND 135th ST.
16" WATERLINE TAP 656' N. 58' W.
VALVE 656' N. 59.5' W.
90 DEG. FTG. 656' N. 79' W.
C/L VAULT 656' N. 58' W. 30' N.
90 DEG. FTG. 656' N. 58' W. 41' N

BENCHMARKS

CP-1 N: 1683430.162 E: 1602273.874 EL: 1342.945 MAG nail / MKEC washer on SW corner of curb inlet near the NE corner of the site.	CP-4 N: 1683423.147 E: 1601594.409 EL: 1353.705 Description of control point Horizontal and Vertical Datum: Horizontal Datum: Kansas Coordinate System 1983 South Zone. (Horizontal coordinates modified to ground using a scale factor of 1.000120014)
CP-2 N: 1683011.253 E: 1602253.179 EL: 1342.07 MAG nail set in "x" cut 60' N & 8' E of the SE corner of the site, on the E edge of sidewalk.	Vertical Datum: NAVD 88
CP-3 N: 1683009.824 E: 1601803.112 EL: 1350.92 3/4"x36" rebar with MKEC Control lid cap set on the W end of Berm, 440' W & 63' N of the SE corner of the site.	

LEGEND



BUILT PER PLAN EXCEPT AS NOTED

NOTE: WATER LINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER INSPECTOR IS ON SITE.

NOTE: ALL LINES TO BE INSTALLED BY OTHERS ARE SUBJECT TO MABCD REVIEW.
NOTE: CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

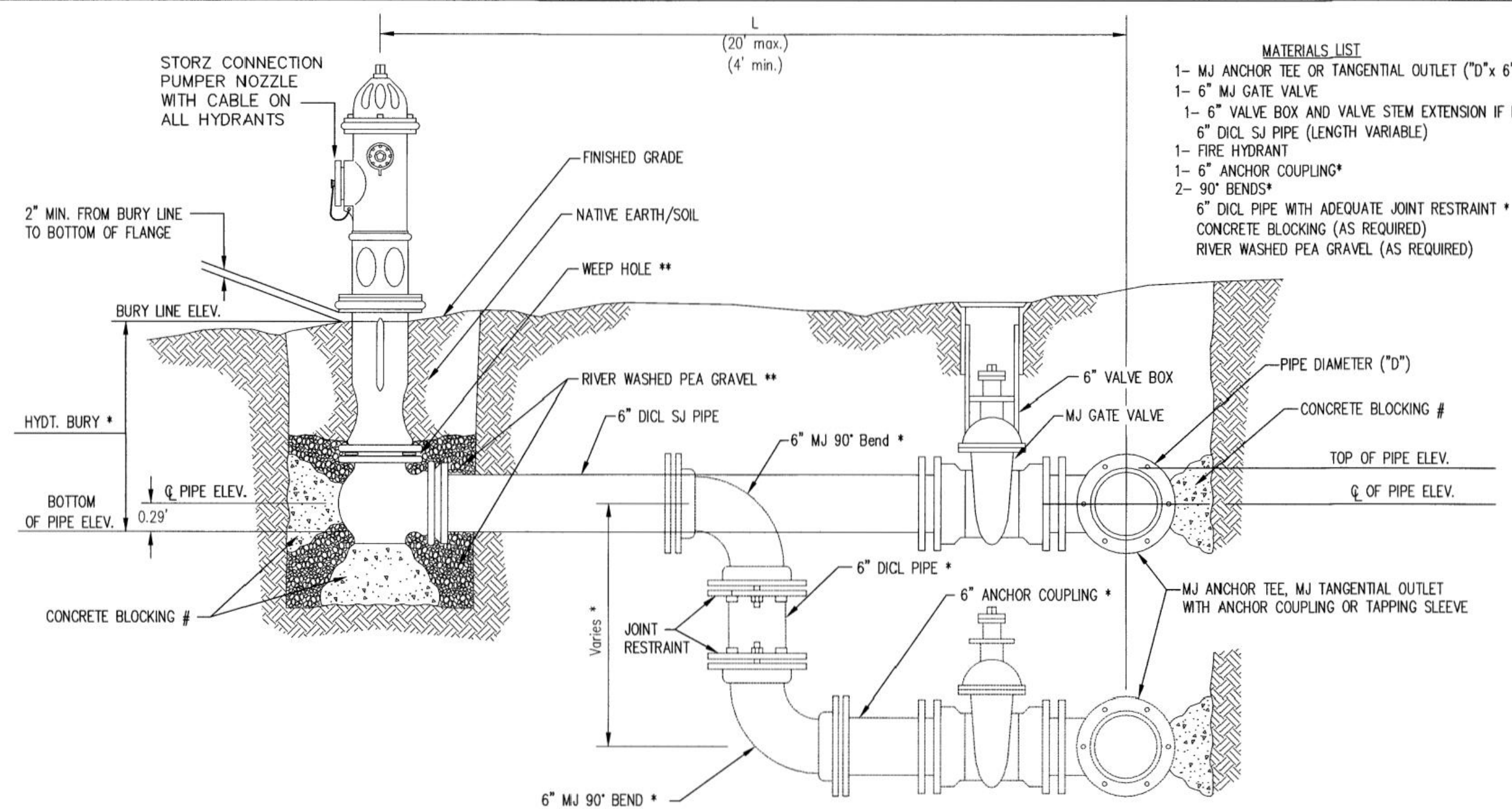


PRIVATE WATER DISTRIBUTION PLANS FOR
HERITAGE AT AUBURN HILLS ADD.
WICHITA, KANSAS

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TITLE SHEET

PROJECT NO.	2021-036502PPW	
DATE	JAN 2022	
SCALE	1"=60'	
DESIGNED	DRAWN	CHECKED
MKB	C-JL	KPG
NO.	REVISION	DATE
SHEET NO.	01 OF 12	

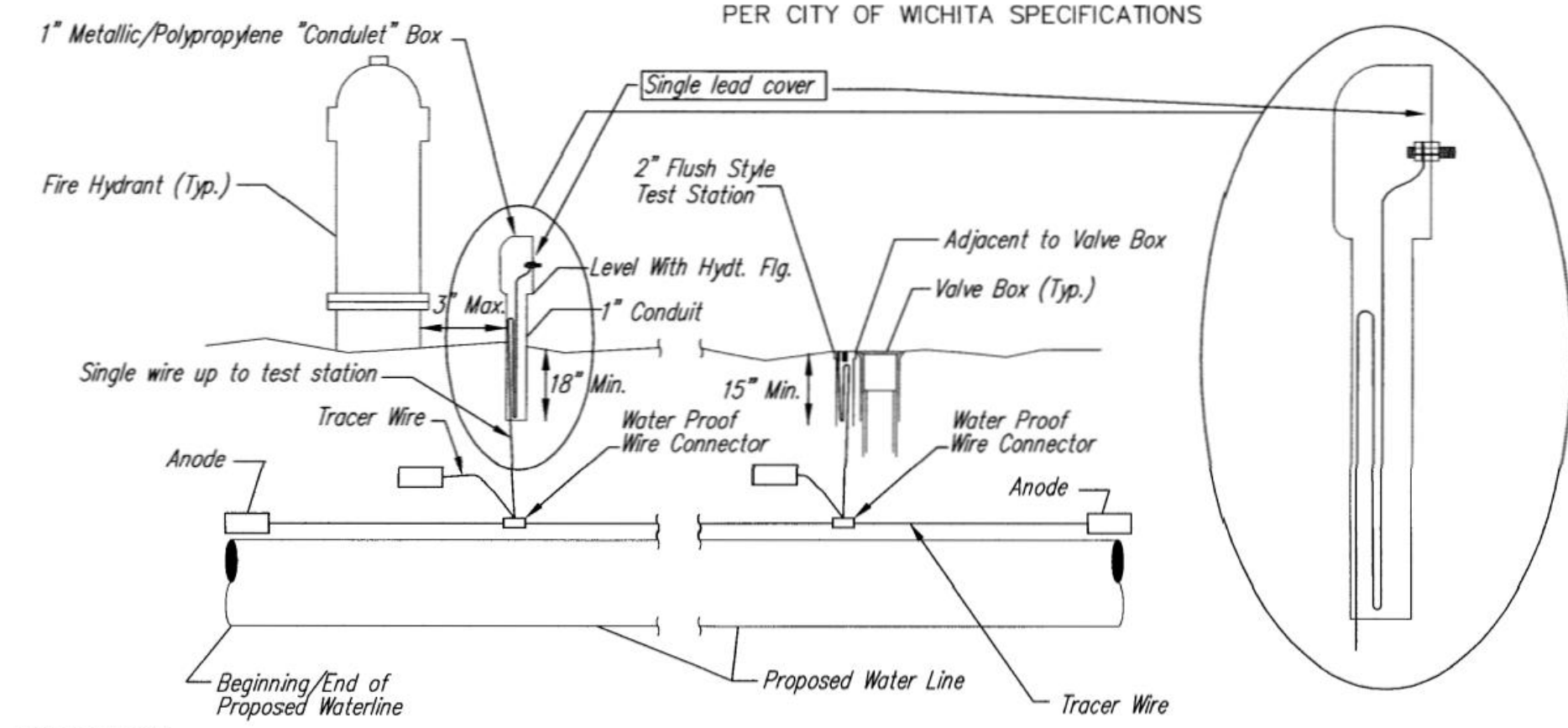


* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI CL PIPE AS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

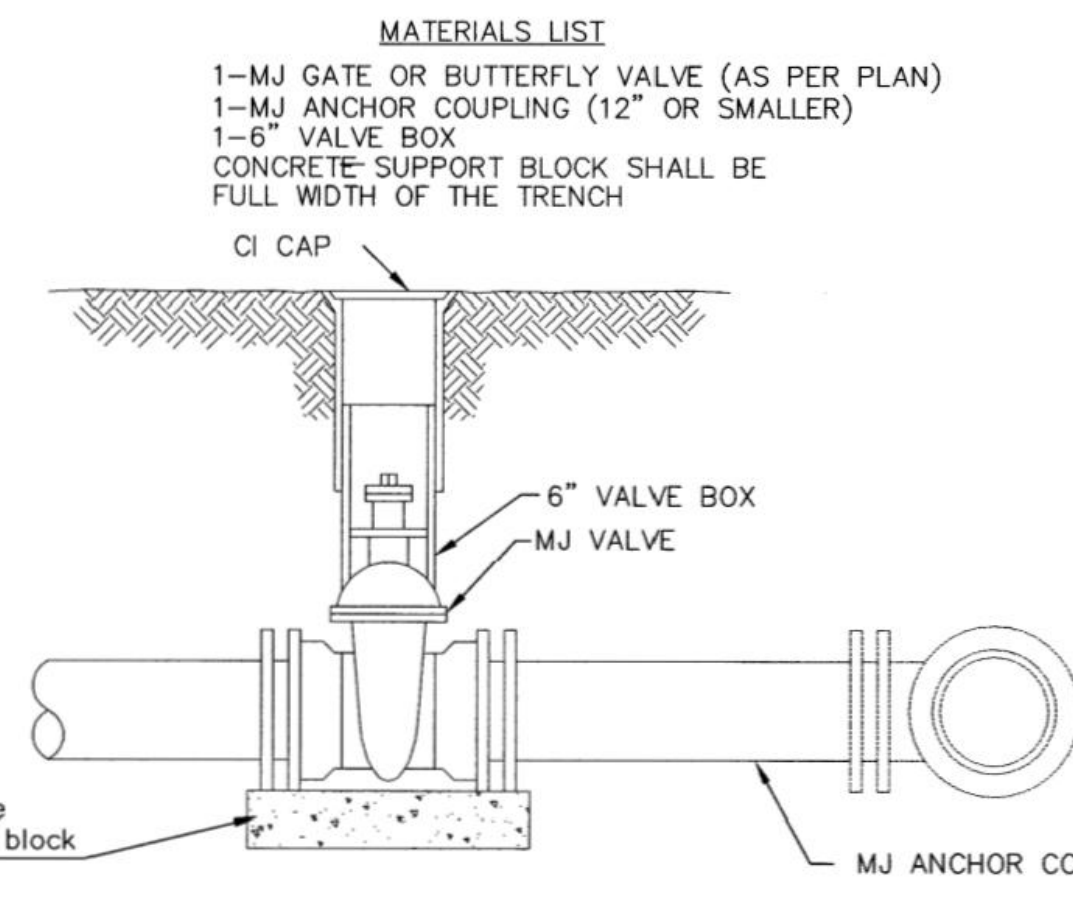
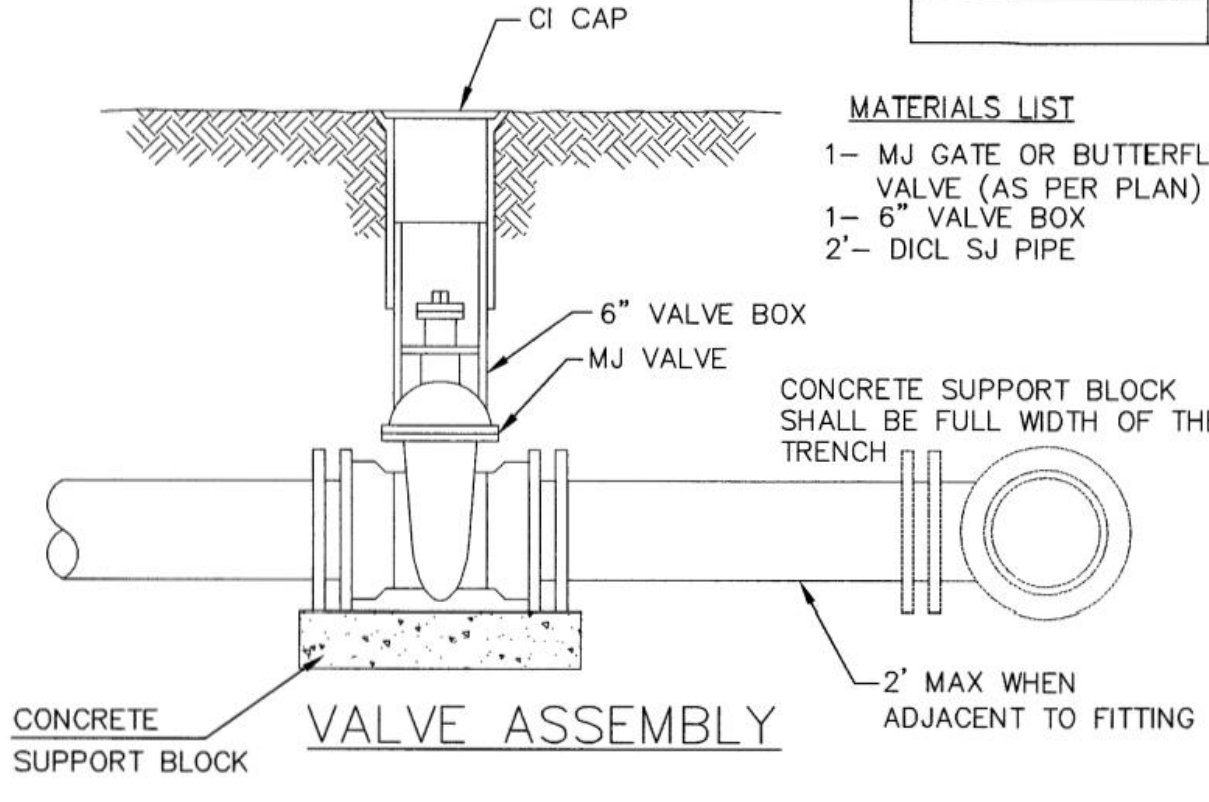
FIRE HYDRANT ASSEMBLY
PER CITY OF WICHITA SPECIFICATIONS



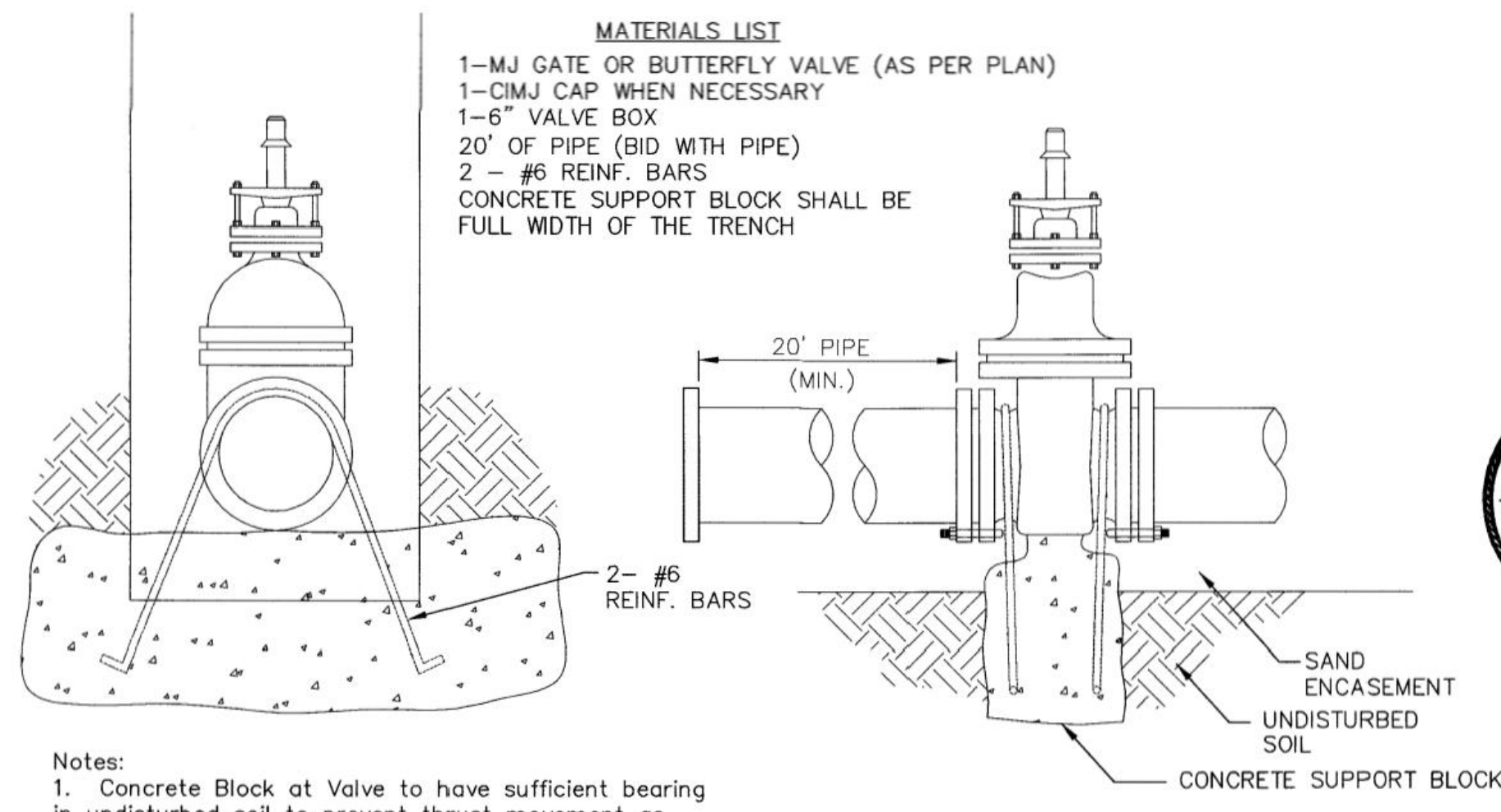
TRACER WIRE DETAIL
COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED

STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
10+87.22, LINE 1	1347.24	1341.91	5.0'	N/A
13+96.30, LINE 1	1348.73	1343.90	5.0'	N/A
16+64.33, LINE 1	1352.81	1347.98	5.0'	N/A
11+74.94, LINE 2	1350.56	1345.73	5.0'	N/A
13+46.81, LINE 2	1353.72	1348.89	5.0'	N/A
15+48.76, LINE 2	1354.95	1350.62	5.0'	N/A



ANCHORED VALVE ASSEMBLY



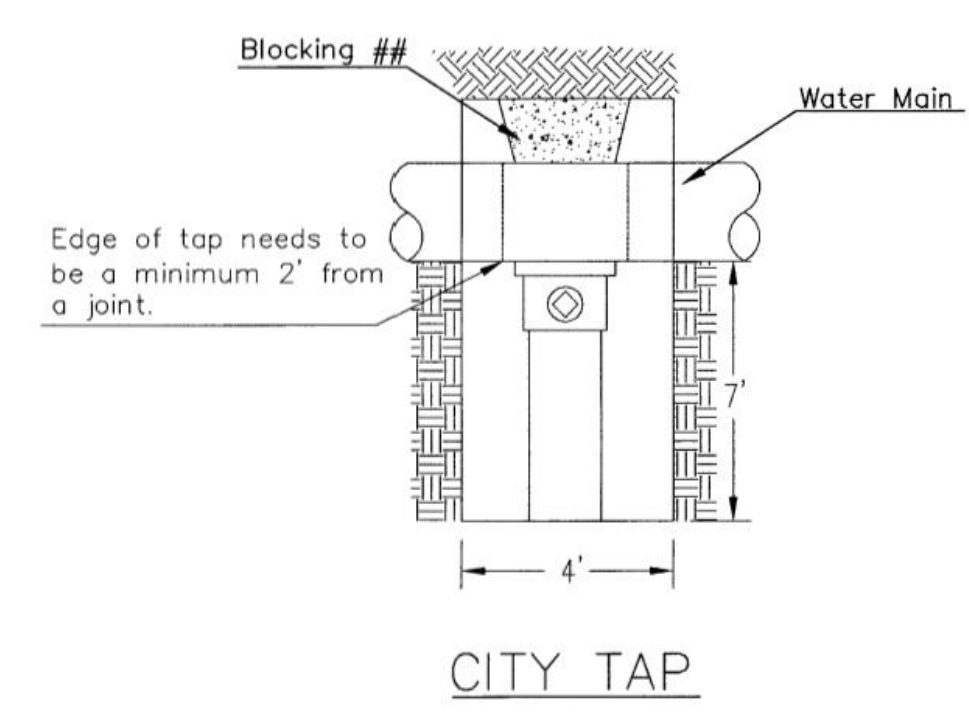
Notes:

- 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

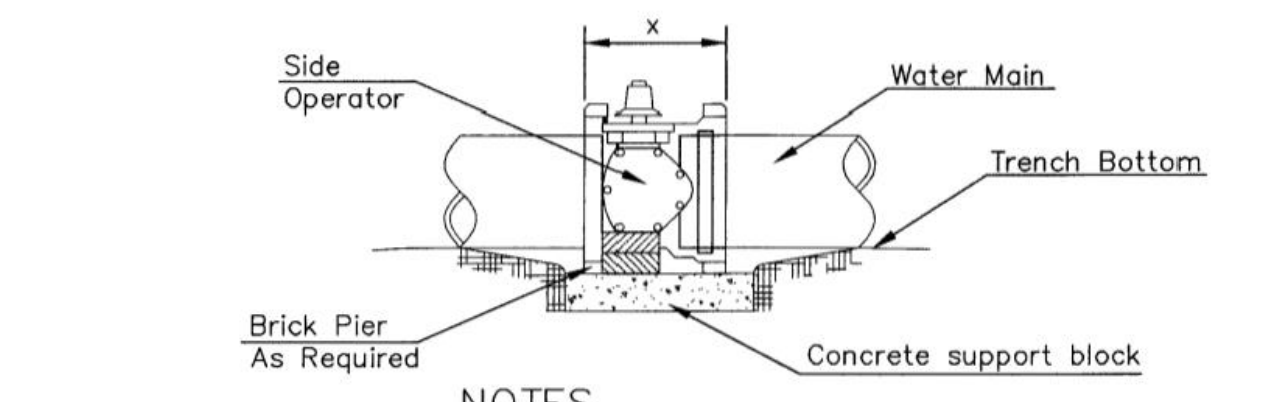
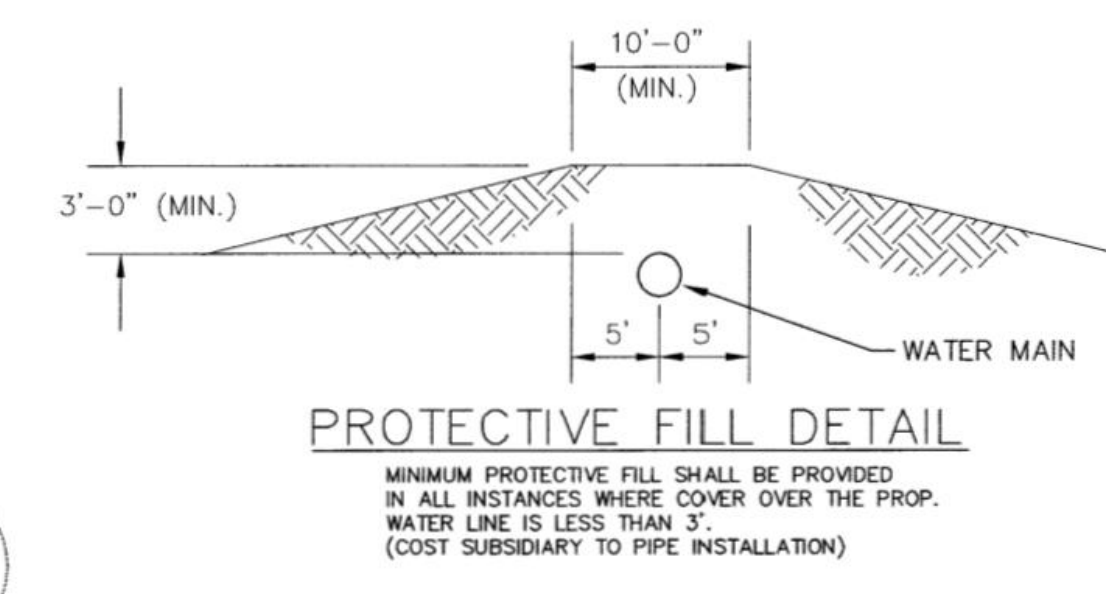
VALVE	THRUST AT 150 #/sq
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

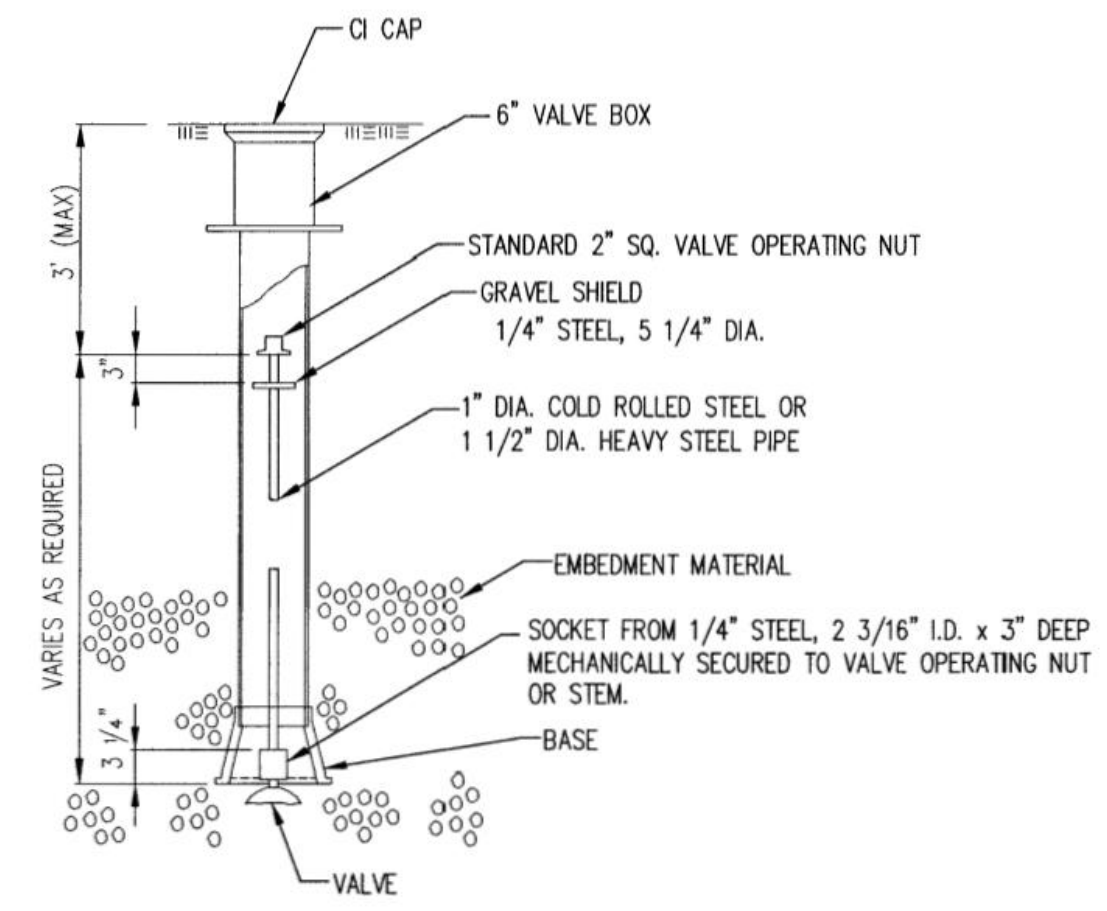


CITY TAP

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



CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



10/27/16

CITY OF WICHITA

PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

REVISED: OCTOBER 2016

STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER 2021-036502PPW	OCA NUMBER 54030980	DATE JAN 2022
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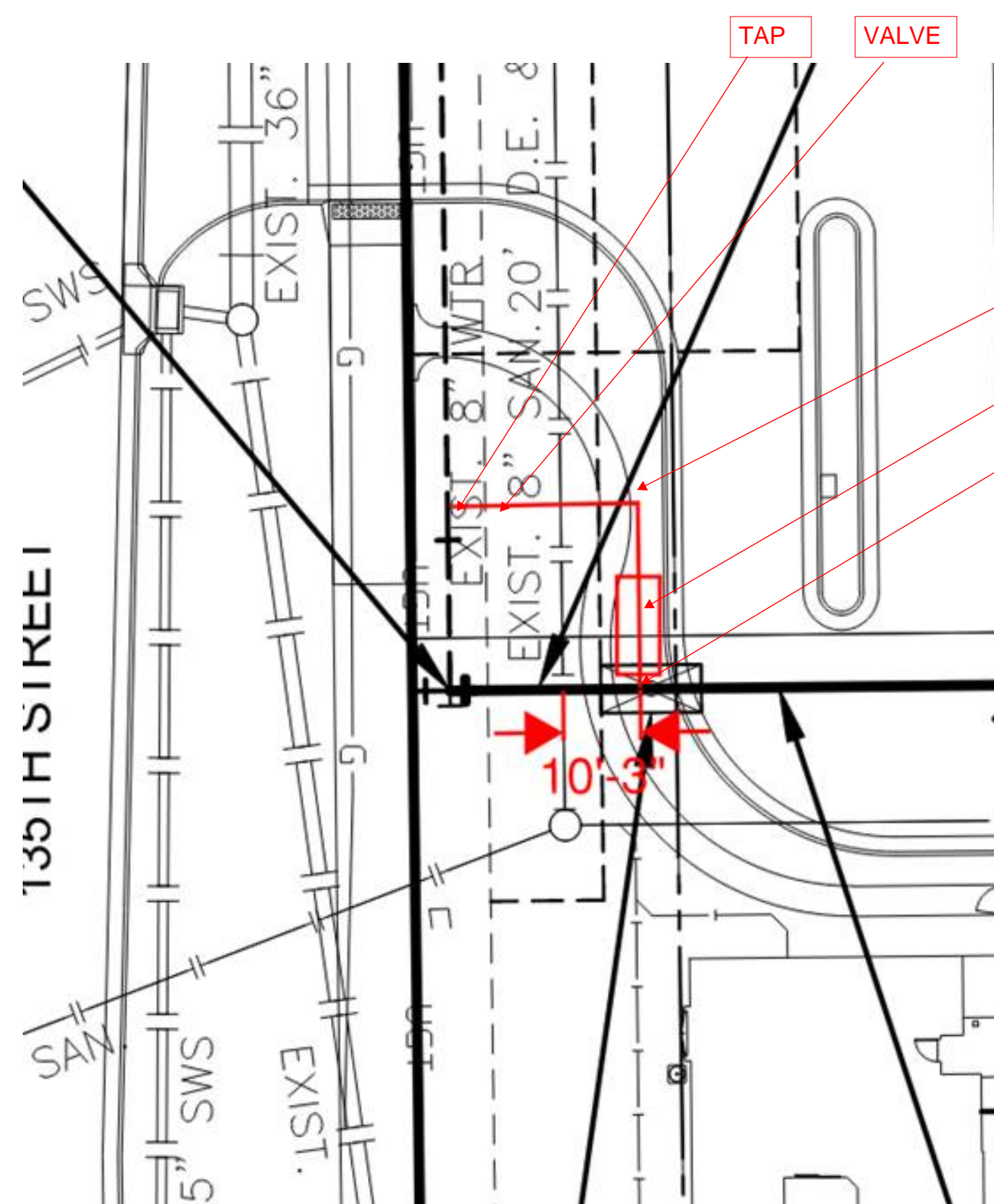
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
02 OF 12

PRIVATE WATER DISTRIBUTION PLANS FOR
HERITAGE AT AUBURN HILLS ADD.
WICHITA, KANSAS

NOTES

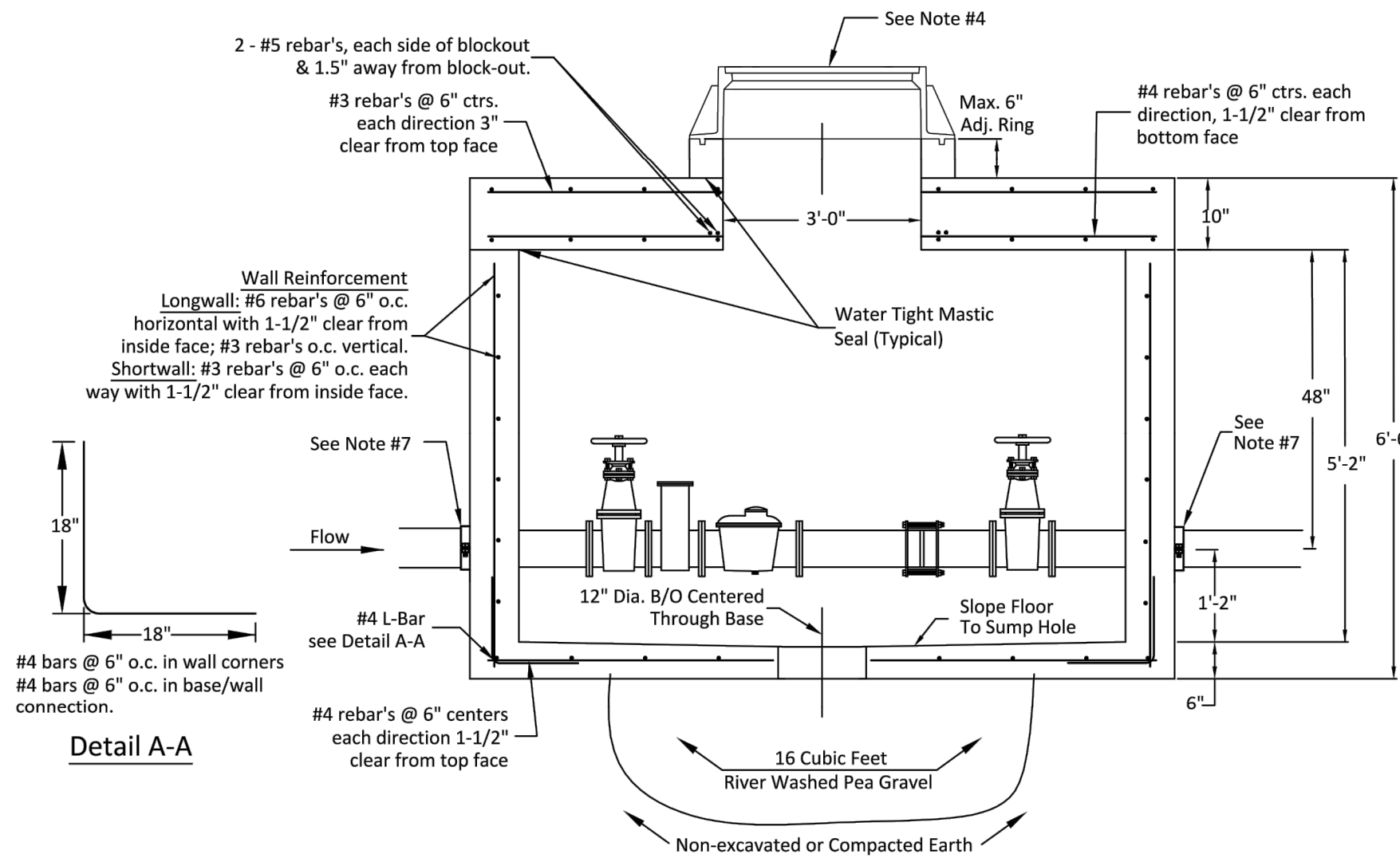
- INSPECTOR FROM PUBLIC WORKS AND UTILITIES TO BE CONTACTED 24 PRIOR TO INSTALLATION OF VAULT.
- ANY FITTINGS OR APPURTENANCES REQUIRED TO ACHIEVE PROPER ELEVATION OF PIPE THROUGH THE VAULT SHALL BE PROVIDED BY THE CONTRACTOR AND APPROPRIATELY NOTED ON THE AS-BUILTS SUBMITTED BY THE INSPECTING ENGINEER. SUCH FITTINGS SHALL BE A MINIMUM OF 2' FROM THE EXTERIOR WALL OF VAULT.
- 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 350 PER CITY OF WICHITA 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 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.
- THE MANHOLE LID AND RING SHALL BE EJ 1040A/1581E/1581Z ASSEMBLY, WHERE APPLICABLE. THE STANDARD 10" PUBLIC WORKS AND UTILITIES PATTERN READING METER 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.
- 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.
- FOR SERVICE PIPE, THE CONTRACTOR SHALL INSTALL A MEGALUG, RESTRAINED JOINT, OR APPROVED EQUAL, ON THE EXTERIOR WALLS OF THE VAULT, WHICH SHALL BE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A536-80, HEAT-TREATED TO A MINIMUM HARDNESS OF 370 BHN AND HAVE A WORKING PRESSURE OF AT LEAST 250 PSI.
- ALL METERS SHALL BE AN ELECTRIC READ REGISTER COMPATIBLE WITH THE CURRENT CITY OF WICHITA METER READING SYSTEM. ALL DETECTOR METERS SHALL BE ON 5/8" CUBIC FOOT BADGER METER WITH ADE REGISTER AND 25' LONG ITRON CORD AND PLUG, OR APPROVED EQUAL. GALLON METERS SHALL NOT BE ACCEPTED.



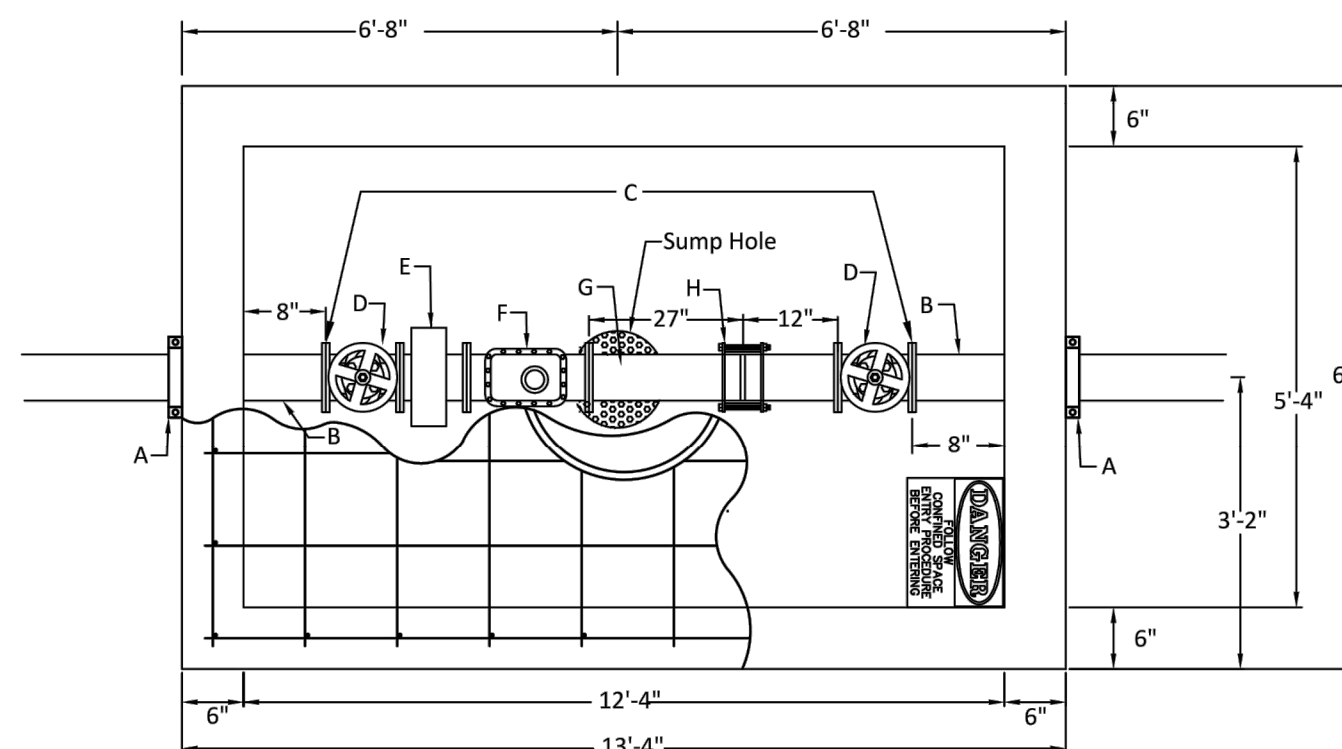
90 DEG FTG.
CL OF VAULT
90 DEG FTG.

VAULT RELOCATED PER ENGINEERING.
LOCATED PER SUBCONTRACTED
SURVEYOR. SEE SHEET 5 OF THIS PLAN
SET FOR EMAIL REFERENCE.

LOCATION OF FITTINGS AND VALVES AS PART OF
PRIVATE WATER DIST. SYSTEM
LOCATION OF FITTINGS AT STA 10+00 TO 10+26
MEASURED FROM CENTER OF INTERSECTION AT
W. MAPLE ST. AND 135th ST.
16" WATERLINE TAP 656' N. 58' W.
VALVE 656' N. 59.5' W.
90 DEG. FTG. 656' N. 79' W.
C/L VAULT 656' N. 58' W. 30' N.
90 DEG. FTG. 656' N. 58' W. 41' N



Detail A-A



LEGEND

- A. 8" MEGA LUG (SEE NOTE 7) *
 - B. MIN. 3' PIECE OF 8" FLXPE DICL PIPE *
 - C. 8" DICL PIPE SPOOL *
 - PRIOR TO PARTS INSTALLED BY CITY OF WICHITA UTILITIES
 - D. 8" FLANGE NON-RISING STEM GATE WHEEL VALVE **
 - E. SCREEN FILTER **
 - F. 8" OCTAVE METER WITH AMR REGISTER **
 - G. 8" FLXPE PIPE **
 - H. 8" FLEX COUPLING **
- * = INSTALLED BY CONTRACTOR
** = INSTALLED BY WICHITA WATER UTILITIES



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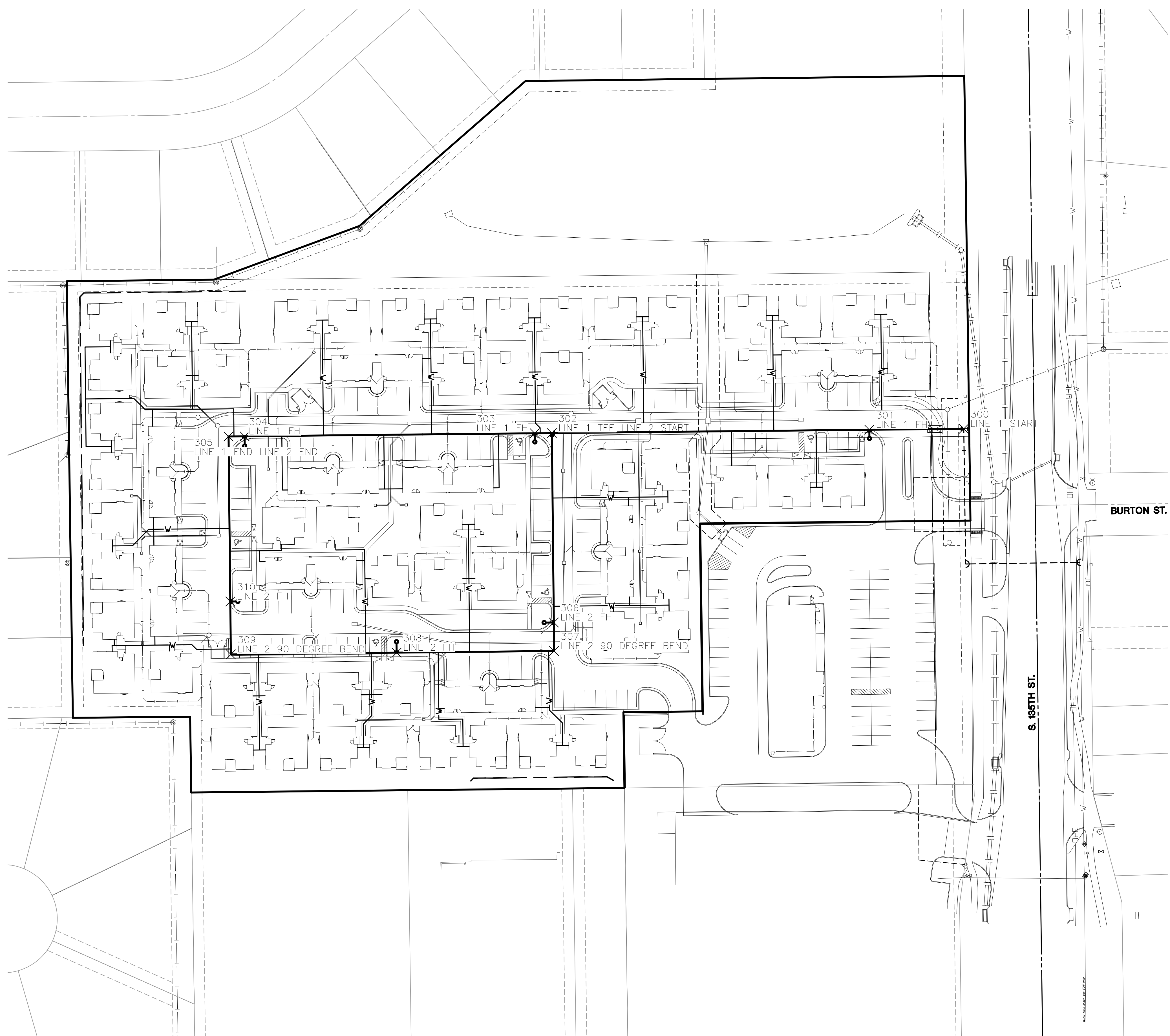
**WATER VAULT
DETAIL**

PROJECT NO.	2021-036502PPW	
DATE	JAN 2022	
SCALE	N.T.S.	
DESIGNED	DRAWN	CHECKED
KPG	KPG	KPG

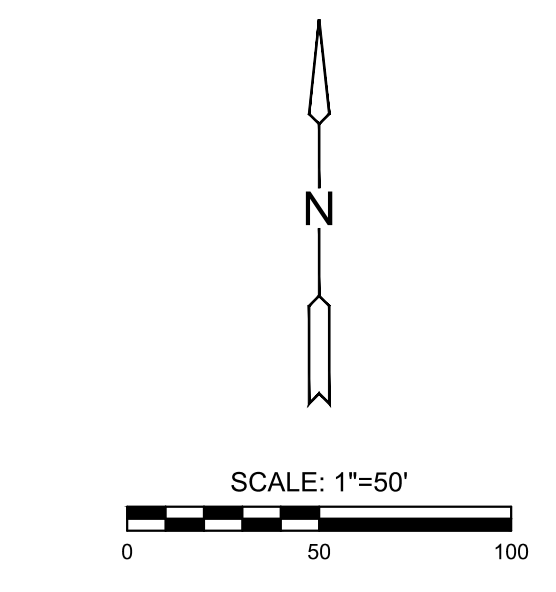
NO.	REVISION	DATE

SHEET NO.

W:\TAS\30\VOL7\PROJECTS\2020\2010\0338_ICT CAPITAL_135TH & MAPLE\00 20338 CAD\SHS\05 CIVIL\WTR\PPW\20338 PPW BUBBLE MAP.DWG
 PLOTTED: Tuesday, January 11, 2022 @ 01:25PM



WATER POINTS			
Point #	Northing	Easting	Desc.
300	1683279.60	1602236.32	LINE 1 START
301	1683278.69	1602149.11	LINE 1 FH
302	1683275.63	1601855.84	LINE 1 TEE LINE 2 START
303	1683275.47	1601840.05	LINE 1 FH
304	1683272.67	1601572.03	LINE 1 FH
305	1683272.52	1601557.24	LINE 1 END LINE 2 END
306	1683100.70	1601857.67	LINE 2 FH
307	1683074.32	1601857.94	LINE 2 90 DEGREE BEND
308	1683072.81	1601712.46	LINE 2 FH
309	1683071.21	1601559.34	LINE 2 90 DEGREE BEND
310	1683120.02	1601558.83	LINE 2 FH



CONTROL POINTS

- CP-1
 N: 1683430.162 E: 1602273.874 EL: 1342.945
 MAG nail / MKEC washer on SW corner of curb inlet near the NE corner of the site.
 - CP-2
 N: 1683011.253 E: 1602253.179 EL: 1342.07
 MAG nail set in "x" cut 60' N & 8' E of the SE corner of the site, on the E edge of sidewalk.
 - CP-3
 N: 1683009.824 E: 1601803.112 EL: 1350.92
 3/4"x36" rebar with MKEC Control id cap set on the W end of Berm, 440' W & 63' N of the SE corner of the site.
 - CP-4
 N: 1683423.147 E: 1601594.409 EL: 1353.705
 Description of control point
- Horizontal and Vertical Datum:
 Horizontal Datum: Kansas Coordinate System 1983 South Zone. (Horizontal coordinates modified to ground using a scale factor of 1.000120014)
 Vertical Datum: NAVD 88



PRIVATE WATER DISTRIBUTION PLANS FOR
HERITAGE AT AUBURN HILLS ADD.
 WICHITA, KANSAS

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BUBBLE MAP

PROJECT NO.	2021-036502PPW	
DATE	JAN 2022	
SCALE	1" = 50'	
DESIGNED	DRAWN	CHECKED
MKB	CJL	KPG
NO.	REVISION	DATE