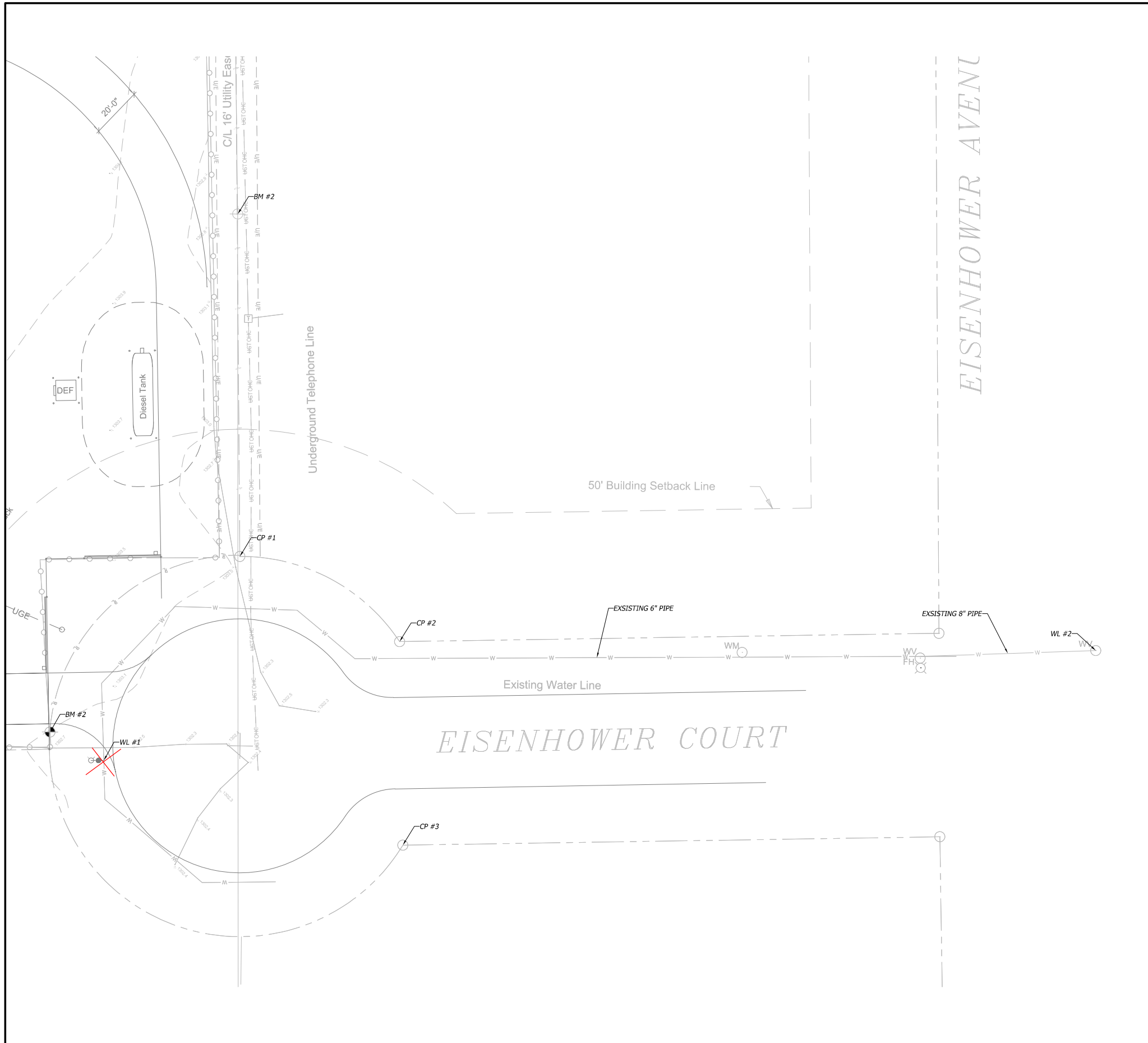


Oct 23, 2023 - 3:24pm Plotted By: catherine.small V:\038220-leadfoot express\04-DWG\Eng\Private Projects\Water\BHC-RPW-Key Notes.dwg Layout: Key Notes



Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department

REVIEWED FOR CODE COMPLIANCE

CONSEDERATIONS FOR COMMENT: THESE DRAWINGS AND THIS DOCUMENT OBTAINING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MUNICIPALITY. THIS REVIEW IS ONLY FOR GENERAL COMPLIANCE OF THE CODE. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND CORRECTING ALL TECHNICALS OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 10.4 OF THE 2012 INTERNATIONAL BUILDING CODE.

DATE: 11/29/23 BY: Michele Gideon

BENCHMARKS

VERTICAL DATUM BENCHMARKS NAVD88

SEDGWICK COUNTY VERTICAL CONTROL POINT BENCHMARK
BENCHMARK NUMBER: 1
ELEVATION = 1302.75
N: 1677125.93
E: 1627290.29

SEDGWICK COUNTY VERTICAL CONTROL POINT BENCHMARK
BENCHMARK NUMBER: 2
ELEVATION = 1303.01
N: 1677045.11
E: 1627303.33

SQUARE CUT ON EAST SIDE OF FOOTING FOR A FENCE POST LOCATED 6.75 FEET NORTH OF THE SOUTHEAST CORNER OF LOT 2, BLOCK 1, ADDITION TO THE CITY OF WICHITA, SEDGWICK COUNTY, KANSAS.

"+" CUT ON NORTH RIM OF SANITARY SEWER MANHOLE APPROXIMATELY 165 FEET SOUTH OF THE NORTHEAST CORNER OF LOT 2, BLOCK 1, AIRPORT INDUSTRIAL PARK ADDITION TO THE CITY OF WICHITA, SEDGWICK COUNTY, KANSAS.

SEDGWICK COUNTY VERTICAL CONTROL POINT BENCHMARK
BENCHMARK NUMBER: 2
ELEVATION = 1303.01
N: 1677045.11
E: 1627303.33

SQUARE CUT ON EAST SIDE OF FOOTING FOR A FENCE POST LOCATED 6.75 FEET NORTH OF THE SOUTHEAST CORNER OF LOT 2, BLOCK 1, ADDITION TO THE CITY OF WICHITA, SEDGWICK COUNTY, KANSAS.

CONTROL DATA

BASIS OF BEARING = STATE PLANE
COORDINATES-SOUTH ZONE, NAD83

CP #1
N: 1677204.23
E: 1627339.90
EL. 1301.60
FOUND 3/4" IRON PIN, WESTERN MOST SW CORNER OF PROPERTY LINE

CP #2
N: 1677171.35
E: 1627403.08
FOUND BAR WITH SANDLEWOOD CAP, OFFSITE, FURTHEST WEST POINT OF PROPERTY LINE WHERE PIVOTS FROM CURVE TO STRAIGHT LINE

CP #3
N: 1677091.35
E: 1627405.11
FOUND 1/2" REBAR, OFFSITE, SW POINT OF PROPERTY LINE WHERE PIVOTS FROM CURVE TO STRAIGHT LINE

WATERLINE FEATURES

FEATURES ON EXISTING WATERLINE

WL #1:
PROPOSED FIRE HYDRANT
N: 1677119.76
E: 1627287.33

WL #2
EXISTING 8" GATE VALVE
N: 1677170.48
E: 1627676.90

Do Not Use these Coordinates - per Matthew Tucker - via 2-22-24 Email. Use Construction Note Coordinates for TAP Saddle Location. Larry Powell - 2-22-2024

LEGEND

- SURVEY MONUMENT FOUND
- 5/8" X 24" IRON REBAR SET W/G.S.S CAP
- ⊕ BENCHMARK
- FENCE
- FH FIRE HYDRANT
- MH SANITARY SEWER MANHOLE
- WM WATER METER
- WV WATER VALVE
- (M) MEASURED
- (PL) PLATTED
- (C) CALCULATED
- ⊕-○ FIRE HYDRANT ASSEMBLY



Rev.	Date	Description	By	App.



Prepared For:
FORTY FIVE ENTERPRISES LLC
1711 S HOOPER RD
WICHITA, KS
WES@DISCREETBUILD.COM

CONSTRUCTION DOCUMENTS
LT 2, BLK 1, AIRPORT INDUSTRIAL
PARK ADD., WICHITA, KS
PRIVATE PROJECT WATER PLANS
KEY MAP NOTES

Design: CBS Drawn: CBS
Checked: MT
Issue Date: 10-23-2023
Project Number: 030461

02

Oct 23, 2023 - 3:28pm Plotted By: catherine.small V:\038220-leadfoot\express\04-DWG\Eng\Private Projects\Water\BHC-PPW-PLAN\PROFILE.dwg Layout: Plan & Profile

Wichita-Sedgewick County
Metropolitan Area Building
and Construction Department

REVIEWED FOR CODE COMPLIANCE

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MANICITY. THE CITY OF WICHITA OR SEDGWICK COUNTY. THIS REVIEW IS ONLY FOR GENERAL COMPLIANCE OF THE CODE. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND CORRECTING ALL TECHNICALS OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE 2012 INTERNATIONAL BUILDING CODE.

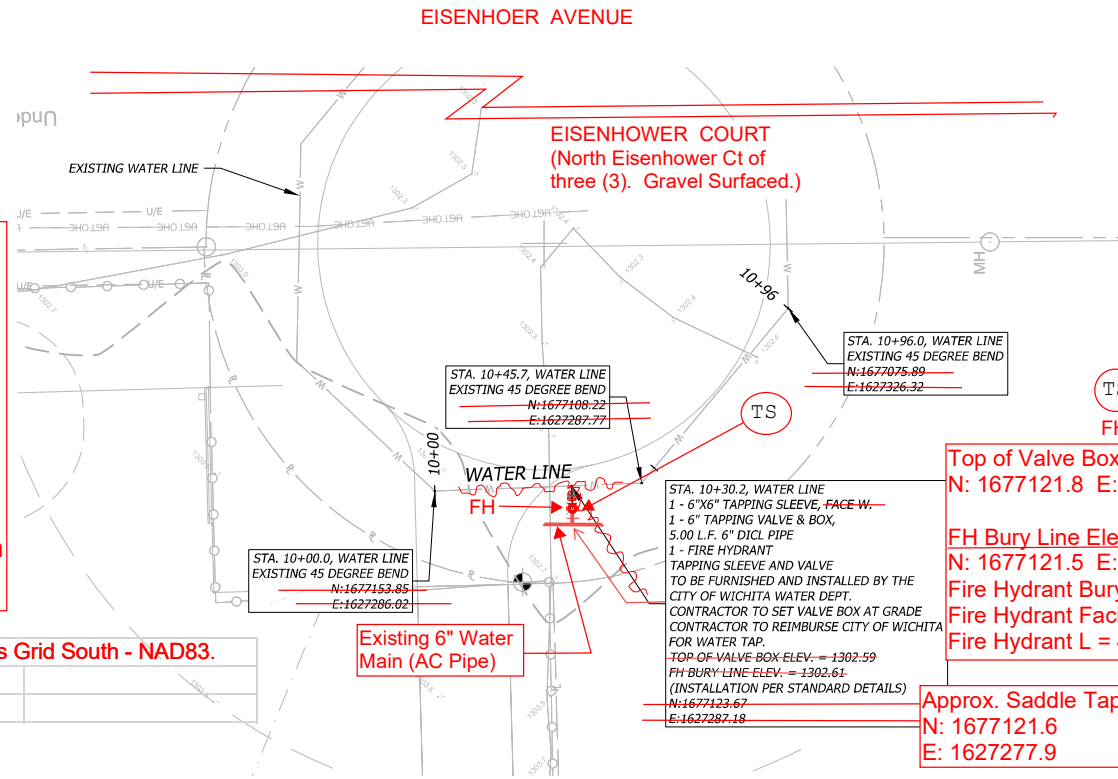
DATE: 11/29/23 BY: Michele Gideon

FH / TAP Valve Box: 375' West and 10' South CL Intersection of Eisenhower Ave. & Eisenhower Ct.

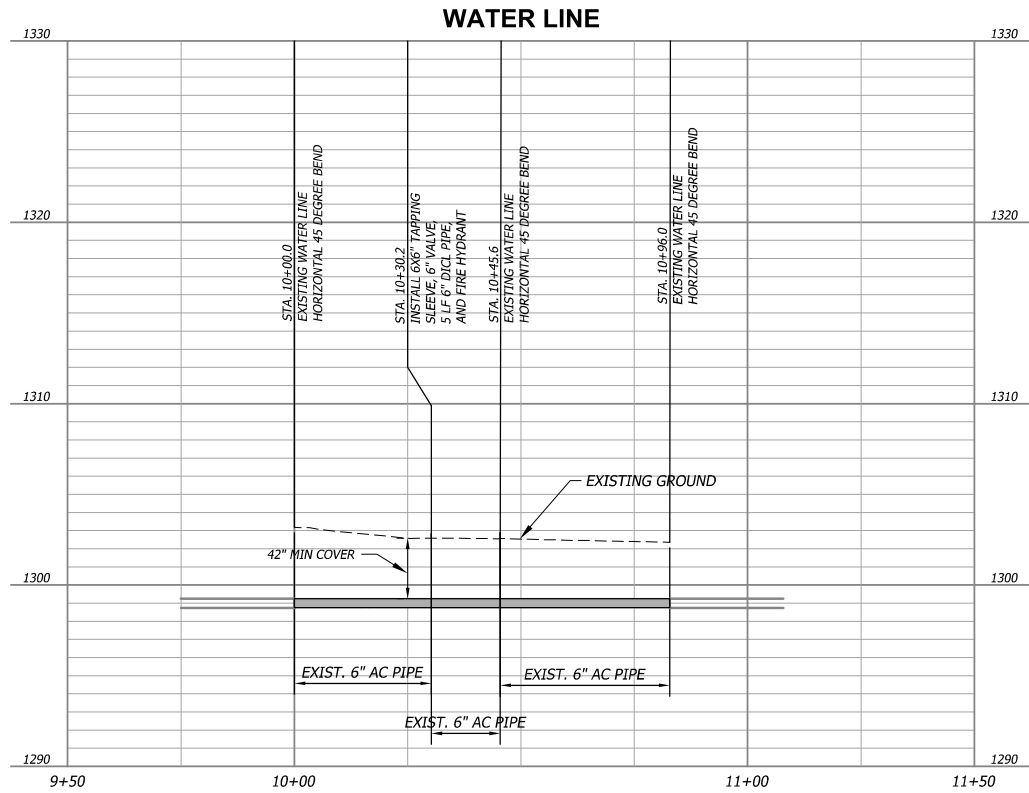
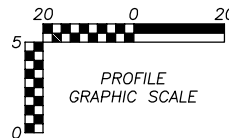
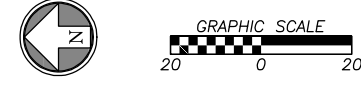
TAP Saddle: 376.4' West and 10' South CL Intersection of Eisenhower Ave. & Eisenhower Ct.

Fire Hydrant: 371.4' West and 10' South CL Intersection of Eisenhower Ave. & Eisenhower Ct.

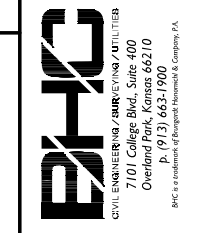
Northings and Eastings: State Plane Coordinates - Kansas Grid South - NAD83.
Elevations: NAVD88
Survey Shots By: Jim Ralston - Baughman Company, P.A.



ALL PIPE DEPTHS ARE APPROXIMATED. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION. ALL FINDINGS SHALL BE REPORTED TO OWNER AND ENGINEER.



Rev.	Date	Description	By	App.



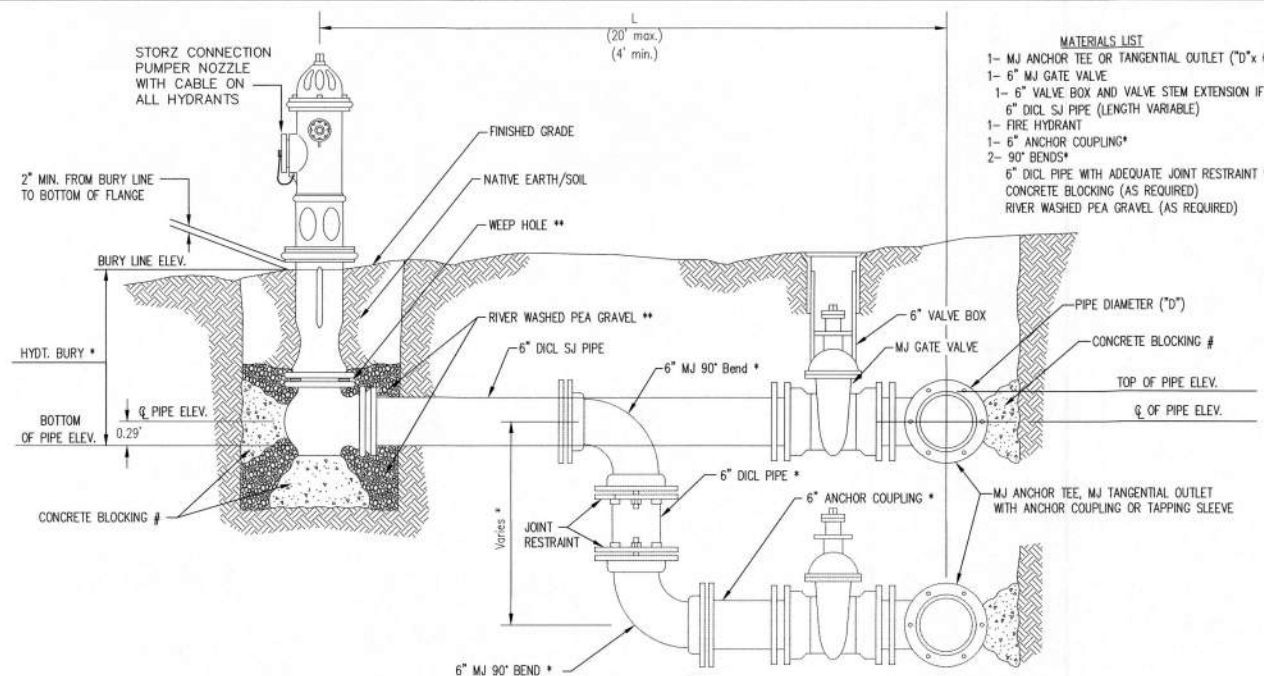
Prepared For:
FORTY FIVE ENTERPRISES LLC
1711 S HOOVER RD
WICHITA, KS
WES@DISCREETBUILD.COM

PRIVATE PROJECT WATER PLANS
LT 2, BLK 1, AIRPORT INDUSTRIAL
PARK ADD. WICHITA, KS

PLAN-PROFILE

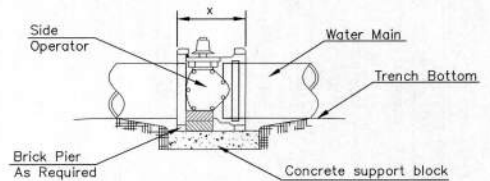
Design: CBS Drawn: CBS
Checked: MT
Issue Date: 10-23-2023
Project Number: 030461

03



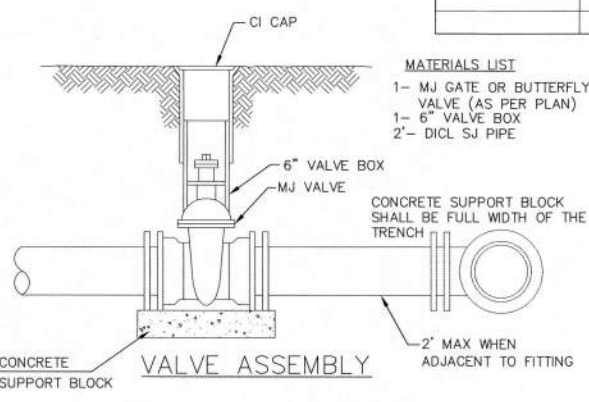
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("D" x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
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

FIRE HYDRANTS REQUIRED			
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*
	1303.08		
			VALVE STEM EXT. REQUIRED (ft)*
			No

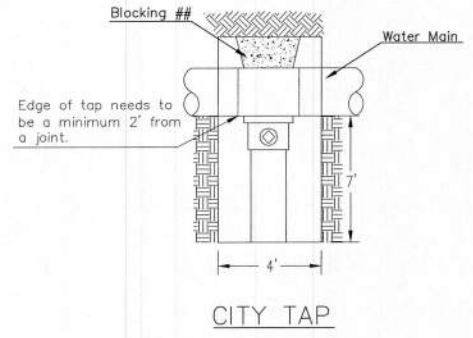


- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
 - 6" Valve Box and Cover required per City of Wichita Std. Specifications.
 - Conc. Support Block to be full width of trench.

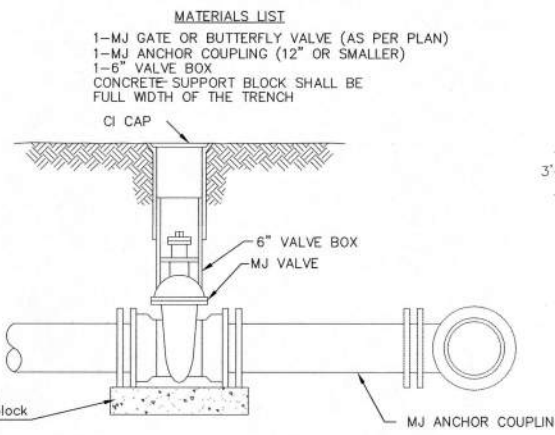
CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



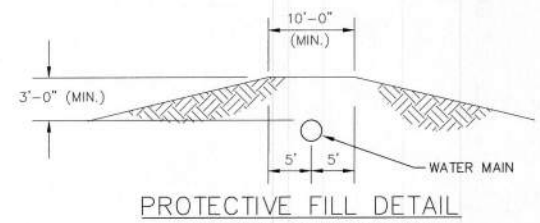
- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1- 6" VALVE BOX
 - 2- DI CL SJ PIPE



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

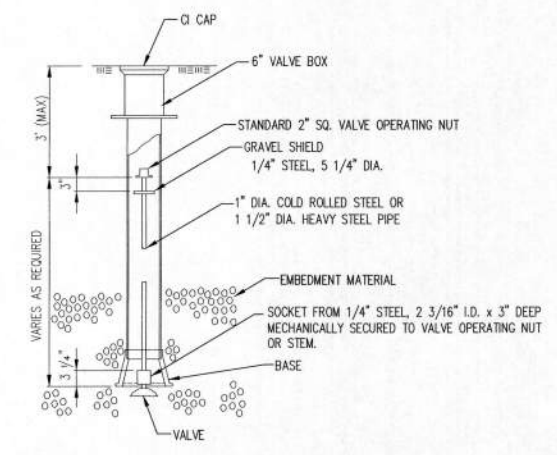


- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1- MJ ANCHOR COUPLING (12" OR SMALLER)
 - 1- 6" VALVE BOX
 - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



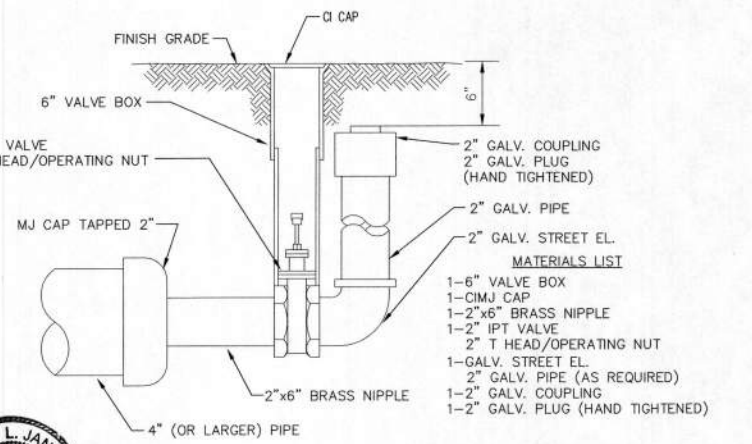
PROTECTIVE FILL DETAIL

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)



VALVE STEM EXTENSION DETAIL

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

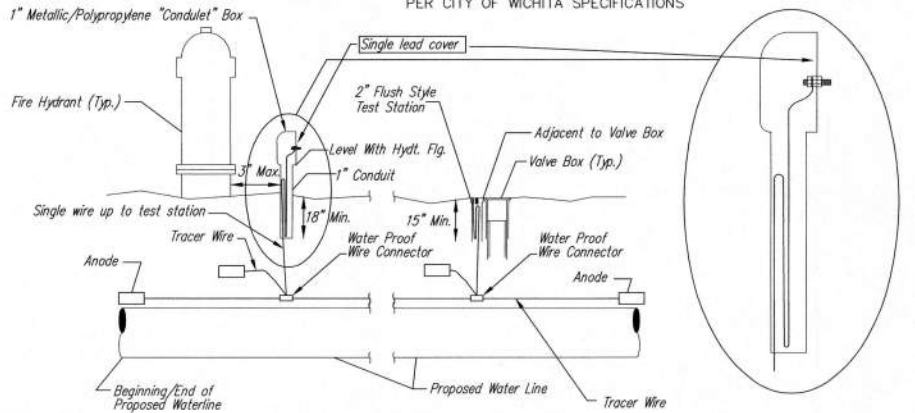


2" BLOWOFF ASSEMBLY



- * 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 MEALUGS, 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.

WIRE

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

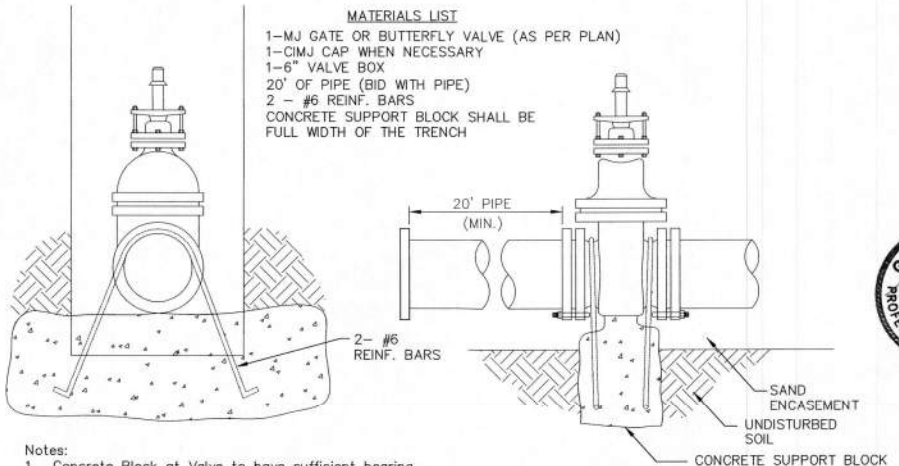
The test station for fire hydrant application shall be a 1" "condulet" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with 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 # T2PH7B1LP 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- CI MJ 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

STANDARD WATER ASSEMBLY DETAIL

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

REVISED: OCTOBER 2016