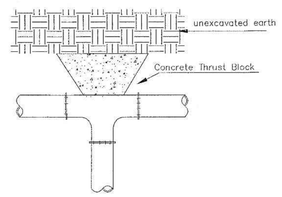
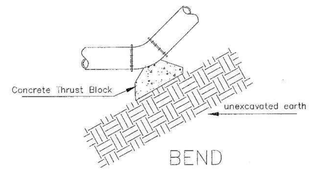
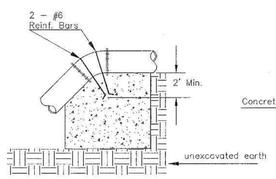


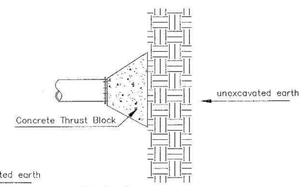
TEE



BEND



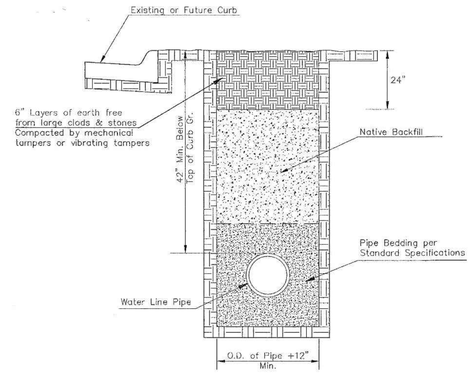
VERTICAL BEND



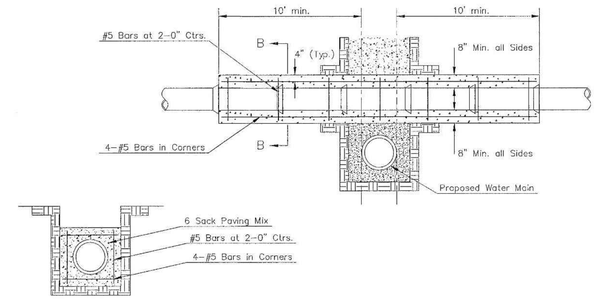
PLUG

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

TYPICAL THRUST BLOCKS



TRENCH COMPACTION IN ROAD RIGHT-OF-WAY

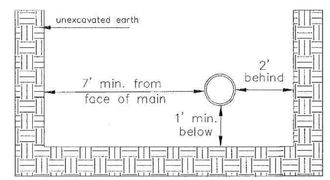


Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.

SECTION B-B

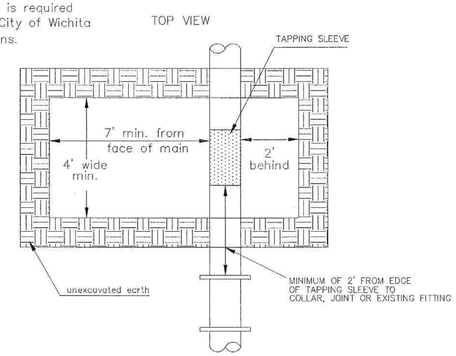
REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

SIDE VIEW

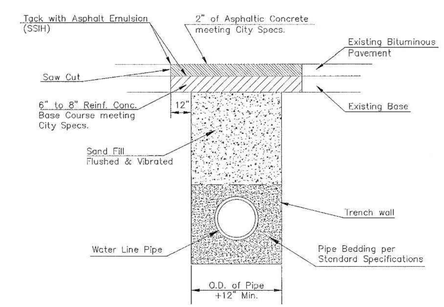


Note: When shoring is required it is to be per The City of Wichita Standard Specifications.

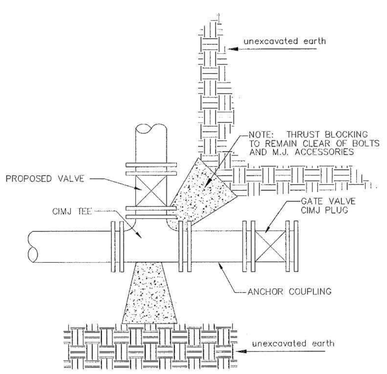
TOP VIEW



EXCAVATION FOR WET TAP



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS



KEY BLOCK DETAIL

* PLANS GOVERN UNLESS OTHERWISE NOTED ON PLANS

REVISED: JULY 2015

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER 07/21/15

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

MISCELLANEOUS WATER 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

WL-104

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

CITY OF WICHITA

WATERLINE IMPROVEMENTS
TO SERVE
CYPRESS GLEN ADDITION

PAUL GUNZELMAN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2023-016042

JOB NO.	210975-007
DATE	SEPTEMBER 2023
PM	GAS
DESIGNED BY	SNW
DRAWN BY	AJH
CHECKED BY	GAS

MISCELLANEOUS WATER DETAILS

CU-502
13 OF 21

SAVED 5/26/2023 4:39:23 PM BY ARIC.HERMANN
PLOTTED 10/12/2023 10:09:41 AM BY KURTIS DEKAT
U:\WICHITA-CIVIL\2021\210975\007\PEC\DRAWINGS\210975-007-CU-502.DWG