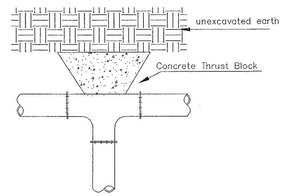
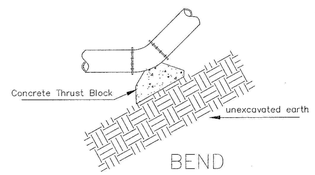
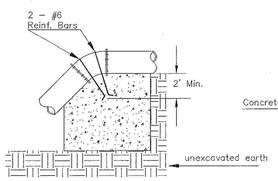


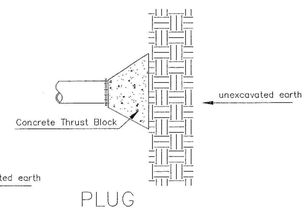
TEE



BEND



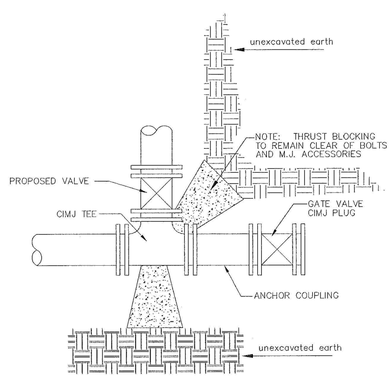
VERTICAL BEND



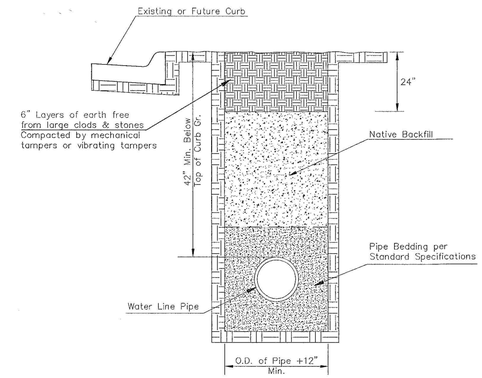
PLUG

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

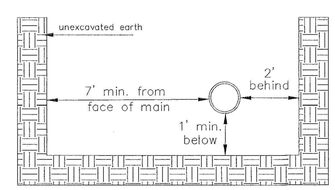


KEY BLOCK DETAIL



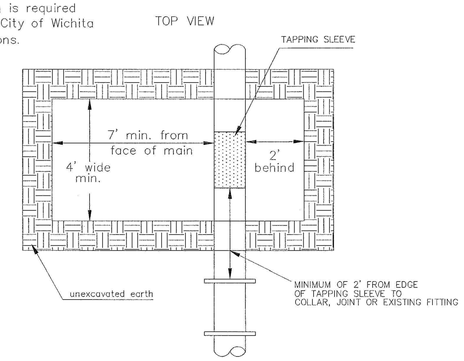
TRENCH COMPACTION IN ROAD RIGHT–OF–WAY

SIDE VIEW

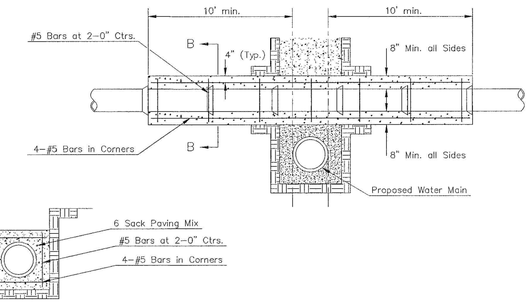


Note: When shoring is required it is to be per The City of Wichita Standard Specifications.

TOP VIEW



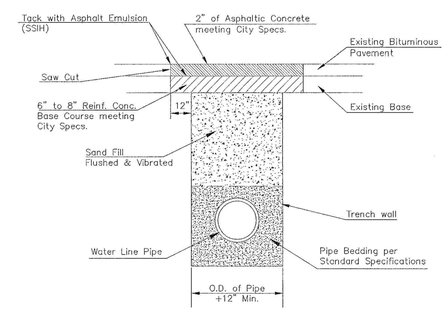
EXCAVATION FOR WET TAP



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

SECTION B–B

REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS

* PLANS GOVERN UNLESS OTHERWISE NOTED ON PLANS

REVISED: JULY 2015

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER 07/21/25

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

CROSS CONNECTION AT 31ST STREET S AND OLIVER STREET

PAUL GUNZELMAN, P.E. - CITY ENGINEER
CITY OF WICHITA ENGINEERING PROJECT NO. 448-2023-038022

Issue:	

JOB NO.	35-220496-000
DATE	MAY 2024
PM	TBK
DESIGNED BY	GAS
DRAWN BY	TBK
CHECKED BY	TBK

MISCELLANEOUS WATER DETAILS

CU503

SAVED 9/27/2023 1:27:27 PM BY KURTIS.DEKAT
PLOTTED 5/31/2024 11:20:50 AM BY CATHY LINK
U:\WICHITA-CIVIL\2022\220496\000\PEC\DRAWINGS\31ST AND OLIVER\220496-000-CU503-MISCELLANEOUS WATER DETAILS.DWG