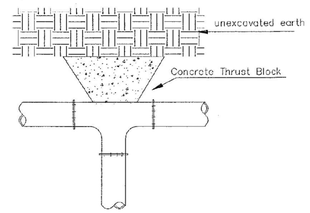
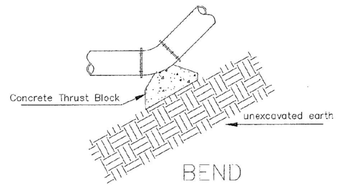
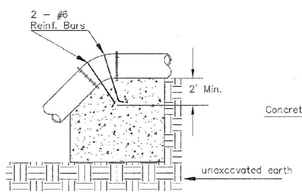


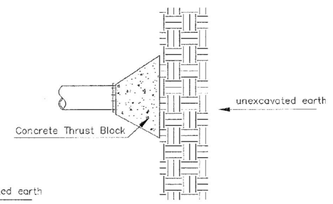
TEE



BEND



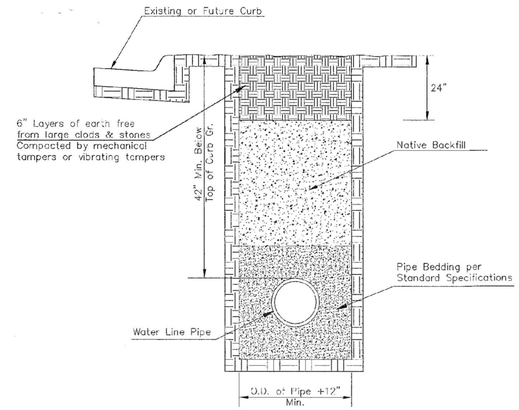
VERTICAL BEND



PLUG

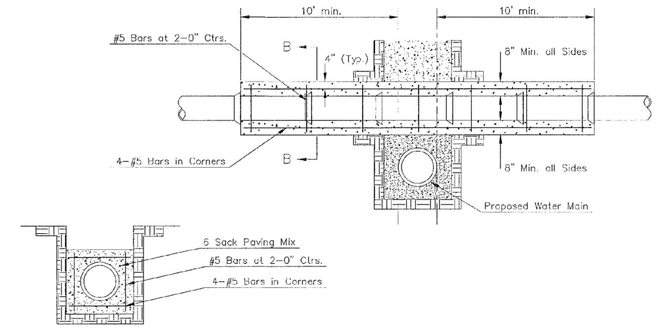
PIPE SIZE	THRUST AT FITTINGS IN TONS–AT 150#/IN^{2}P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS



TRENCH COMPACTION IN ROAD RIGHT–OF–WAY

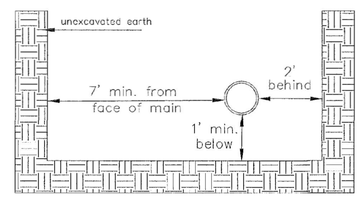
SIDE VIEW



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

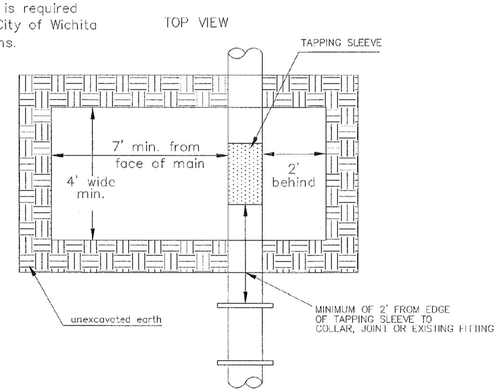
SECTION B–B

REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

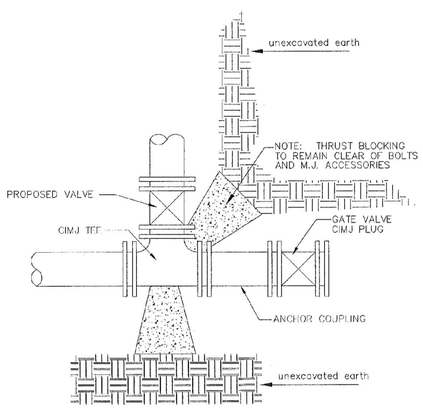


Note: When shoring is required it is to be per The City of Wichita Standard Specifications.

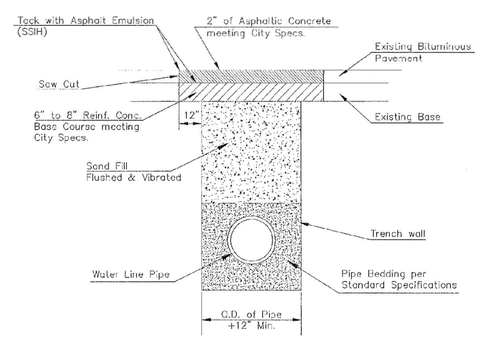
TOP VIEW



EXCAVATION FOR WET TAP



KEY BLOCK DETAIL



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS

* PLANS GOVERN
UNLESS OTHERWISE NOTED ON PLANS

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

REVISED: JULY 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

MISCELLANEOUS WATER DETAILS

CITY ENGINEER
GARY JANZEN, P.E..

PROJECT NUMBER	OCA NUMBER	DATE
448-2019-010176	639108	

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

SHEET

WL-104

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

CITY OF WICHITA

WATERLINE RELOCATION
AT
KELLOGG AND OSAGE STREET

GARY JANZEN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2019-010176

Issue:

JOB NO.	35-197042-009-042
DATE	AUGUST 2019
PM	RWG
DESIGNED BY	RWG
DRAWN BY	CSL
CHECKED BY	TBK

MISCELLANEOUS WATER DETAILS

C502

Saved 11-07-2019 3:45:38 PM by CSL
Plot Scale 1:1 12-12-2019 11:44:17 AM by CSL
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