

## Industrial/Commercial (I/C) Permit Application Submittal Requirements

An Industrial/Commercial Permit Application must be submitted to Four Rivers Sanitation Authority (Four Rivers) for review and approval prior to performing any sanitary sewer plumbing work, which includes, but is not limited to, all direct and indirect connections to the public sanitary sewer system. The current I/C Permit Application review fee is \$425.00, which must be paid at the time of submittal. Submittals must include the following items:

### 1. A Completed & Signed I/C Connection Permit Application

- The I/C Permit Application must be signed/dated by both the Landlord/Property Owner, Tenant/User and applicable Plumbing Contractor (Interior/Exterior) who is registered and bonded with Four Rivers. The signature page must have the signatures of all applicable parties. Digitally scanned copies are acceptable.
- The Plumbing Contractor's signature will serve to acknowledge that they will be fully responsible for adhering to all Four Rivers requirements and that they will agree to inform the Landlord/Tenant/User of all Four Rivers requirements and procedures.

### 2. Engineered Site Plan

- The Site plan must show and label all parcel(s), all surface features, existing and proposed structures on the site, parking spaces, landscaping, adjacent streets, easements and all other utilities.
- The proposed sanitary and water services must be labeled and shown in their entirety, from the building foundation wall, to the point of connection at the public sanitary sewer main. All sanitary sewer labels must include the service diameter, pipe material, length, slope and rim/invert and riser elevations, where applicable. All external appurtenances must be shown and labeled.
- A four-foot (4') diameter Sampling Manhole must be installed on all Industrial and Commercial services. It must be labeled and shown on the private property portion of the sanitary service, at a location where it will receive all of the building discharge. A minimum of ten (10) pipe diameters of straight pipe must be provided, upstream and downstream of the proposed sampling manhole. The Sampling Manhole must be located in a turf or landscaped area, where there is no possibility of vehicle or pedestrian traffic. If no such area is available, Four Rivers Staff will recommend a location.

## 3. Engineered Plumbing Drawings

• Submit one (1) complete set of plumbing drawings, including a schematic showing all pipe networks and appurtenances. Note: The drawings must be signed and sealed by a licensed Illinois Architect/Engineer. All manufacturer's technical datasheet/s must be provided for all proposed appurtenances (i.e. grease interceptor, grease trap, oil/water separator, sampling basin, etc).

#### 4. Sampling Manhole Application & Detail

All Industrial and Commercial sanitary service connections must include the installation of
a Sampling Manhole. This applies to all new Industrial and Commercial service lines, as
well as all existing Industrial and Commercial services that are not in compliance with
current Code. A Sampling Manhole Application must be completed and submitted, and a
Four Rivers Sampling Manhole Detail Sheet must be signed, dated and all sections
dimensioned by Four Rivers - approved Plumbing Contractor. Only the Four Rivers
Sampling Manhole Detail will be accepted.

### 5. <u>Detailed Wastewater Discharge Calculations</u>

• The I/C Permit Application must include the projected daily average wastewater discharge flows, in gallons per day for the proposed connection, in accordance with the IEPA Title 35 Section 370 Usage Table (where hard usage data cannot be obtained). Fixture count calculations or Water Service Fixture Units (W.S.F.U.) are not be accepted. The projected discharges must be supported with a detailed breakdown from an Illinois licensed Architect/Engineer. The calculations must be signed and sealed on their letterhead.

(Four Rivers Use Only) Route for Approval: ENG  $\rightarrow$  CS  $\rightarrow$  IWS/OPS  $\rightarrow$  ENG Revised: May 1, 2023



3501 Kishwaukee Street Rockford, Illinois 61109 Telephone: 815-387-7555 Engineering Fax: 815-387-7665

Date Received:			
Receipt No:			
Received By:			
Application No:			
LUC No:			
NAICS No:			
PERMIT No:			
ACCOUNT No:			

## Industrial/Commercial Permit Application For Sewer Connection

(Sections I-III and Supplemental Schedules A & B to be completed by the Applicant)

#### **SECTION I - GENERAL**

A.	New facility requiring permit:				
B.	Address of facility requiring permit:				
C.	County:				
D.	Current mailing address:				
E.	Property code/s:				
F.	Legal description/Parcel size:				
G.	Owner/User:				
Н.					
	Title: Phone No: Email:				
	Company:				
I.	Potable water source:				
	Rockford Loves Park North Park Cherry Valley				
	Rockton Village of Winnebago Winnebago County				
	Well Other (specify)				

Flow Metering (please check all that apply):				
Water MeterWastewater Flow MeterWell Meter				
Lawn Sprinkler Meter Other Credit Meter (describe)				
Provide the estimated wastewater discharge volume: gallons per day*				
*Until the Four Rivers Sanitation Authority receives water meter consumption records from water provider, the detailed wastewater discharge calculations stated in this application will be to estimate wastewater treatment bills.				
Connection fees will be calculated using projected flows provided in this Industrial/Commercial form. Supplemental connection (surcharge) fees may be imposed if actual flows (or wastewater pollutant strengths) exceed the projected flows (or wastewater pollutant strengths) pursuant to Title 5 of Four Rivers Code of Ordinances; this includes flow or wastewater pollutant changes due to changes in property use. Surcharge fees shall be calculated annually. Connection fee rates are subject to change pursuant to Four Rivers Board action.				
The Four Rivers Sanitation Authority (Four Rivers) bills on metered water; owner may install a credit meter or wastewater flow meter to more accurately measure wastewater discharge for sewer billing purposes. Surcharge fees will be based solely on information available at the time of the surcharge calculation.				
Number of fixture/s – type/s:				
Number of floor drain/s – type/s:				
Previous Industrial/Commercial User operations address and Four Rivers Account No. (If applicable)				
Address/s: Account Number/s:				
TYPE OF WASTEWATER DISCHARGED				
Chemicals				
Chemicals Food Processing Domestic				
Chemicals Food Processing				

 ${}^*\mbox{If}$  "Yes", the User must also complete the Supplemental Schedule B of this application.

O.	METER INFORMATION					
	Is this facility currently, or will it be, located in a r	multi-use building? Yes	No			
	If yes, will this facility have a separate flow rethe other tenants in the building? Yes					
SECT	ION II – BUILDING AND SITE PLUMBING	PLAN				
appur manh and p Requi oil/w	de an engineered, to scale, site drawing showi tenances, including but not limited to, all util oles, water meters, building footprint(s), nort lumbing schematic(s) must include the exte red special service features, including but a ater separators, sand catch basins, etc., mus or plumbing schematic.	ities/sanitary sewer service h arrow, property lines, etc. rior service and interior pl not limited to, grease trap	connections; sampling . The plumbing plan(s) umbing in its entirety. os, grease interceptors,			
SECT	ION III– CERTIFICATION					
Moreo	have personally examined and are familiar wover, based on our inquiry of those individuation reported herein, we believe that the sub	duals immediately respons	sible for obtaining the			
Sched	wner/User, I also understand that should the ule A, change because of additions, expansion Rivers Sanitation Authority – Plant Operations	ns, or deletions, I am to rep	ort such changes to the			
	Landlord/Property Owner	Interior Plumber/Con	ntractor			
Name:		Name:				
Signature:		Signature:				
		Title:				
	ny:					
		Email:				
		Phone:				
		Date:				
	Tenant/User	Exterior Plumber/	<u>Contractor</u>			
Name: _		Name:				
	re:	Signature:				
		Title:				
	ny:	Company:				
Email:	mail: Email:					
	one. Phone					

Date:

Date:

#### SUPPLEMENTAL SCHEDULE A

Please indicate the processes/activities/uses that will occur at the proposed facility by checking all of the applicable following items:

### **MANUFACTURING** Apparel & Other Textile Products (Men's & Women's Clothing, Fur Goods, Misc., Fabricated Textile Products) Chemical & Allied Products (Industrial Inorganic Chemicals, Plastic Materials & Synthetics, Drugs, Paints & Allied Products, Industrial Organic Chemicals) Electrical & Electronic Equipment (Household Appliances, Electric Distributing Equipment, Communication Equipment) Fixtures and Furniture Food & Kindred Products (Meat Products, Fish Products, Poultry Products, Dairy Products, Bakery Products, Beverages, Dog Food) Leather & Leather Products Lumber & Wood Products (Wood Containers, Wood Kitchen Cabinets, Sawmills and Planing Mills) Machinery (Engines & Turbines, Farm & Garden Machinery, Construction and Related Machinery, Metalworking Machinery, Special Industry Machinery, Office & Computing Machines) Miscellaneous Manufacturing Industries (Jewelry, Silverware, Musical Instruments, Toys, and Sporting Goods) Fabricated Metal Products (Metal Cans & Shipping Containers, Cutlery, Hand Tools & Hardware, Screw Machine Products, Bolts, Etc., Metal Forging and Stamping) Primary Metal Industries (Iron & Steel Foundries, Primary Nonferrous Metals, Secondary Nonferrous Metals, Nonferrous Rolling & Drawing, Nonferrous Foundries) Paper & Allied Products (Pulp Mills, Paper Mills, Paperboard Mills, Converted Paper Products, Paperboard Containers & Boxes) Printing & Publishing (Books, Commercial Printing, Greeting Card Publishing) Rubber & Misc. Plastic Products Stone, Clay & Glass Products (Flat Glass, Glassware, Cement Hydraulic, Pottery & Related Products. **Textile Mill Products** Truck Terminal with Vehicular Wash Other (Specify):\_\_\_\_\_ **COMMERCIAL** Wholesale Trade: Apparel, Piece Goods & Notions Groceries & Related Products Beverages Hardware, Plumbing & Heating Equipment Lumber & Construction Materials **Electrical Goods Paper Products** Furniture & Home Furnishings Sporting Goods, Toys & Hobby Goods Other (Specify):

Retail Trade:		
Apparel & Accessory Stores Furniture & Home Furnishings Auto & Home Supplies Gasoline Service Stations Building Materials & Garden Suppli General Merchandise Stores Liquor Stores Eating & Drinking Places Gaming Parlors/Bars Food Stores New & Used Car Dealers Other (Specify):		
Institutions:		
Clinics Educational Facilities Health Services (Doctors, Dental, Healthread Centers Other (Specify):		,
Office (Finance, Insurance and	l Real Estate, etc.)	:
Banks Credit Agencies Other Than Bank Insurance Services Real Estate Securities, Commodity Brokers & Souther (Specify):		
	<u>SERVICES</u>	
Advertising Amusement & Recreation Service Hotels & Other Lodging Places Barber Shop Beauty Shop Car Wash W/New Water Car Wash W/Recycled Water Club Organization Coin Operated Laundry Other (Specify):		Diaper Service Auto Repair, Service & Garage Legal Service Misc. Repair (Watches, Clocks, Electrical) Mobile Home Park/RV Park (Transient) Photographic Studio Veterinary Service

# SUPPLEMENTAL SCHEDULE B INTERCEPTORS AND SEPARATORS

#### A. Grease Interceptor

The use of any property serviced by a sanitary sewer shall install separators, as necessary, for the proper handling of liquid wastes containing grease, sand, oil, or any other materials that may violate the provisions of Article 2, Section 1 of the Code of Ordinances. Such separators shall be installed by the User and shall be accessible for Four Rivers maintenance purposes.

### 1. Exterior Grease Interceptors

Any new or altered food service establishment that introduces fats, oils, or greases (FOG) into the drainage and sewage system in quantities large enough to cause line blockages or hinder the sewage treatment process, shall install a grease interceptor outside of the building (1,000 gallons minimum). Multi-Tenant Strip Malls shall install an exterior grease interceptor, sized in accordance with Title 2., Article II., Section 8.A.5. In no case will any grease interceptor for a Multi-Tenant Strip Mall be less than 1,500 gallons.

#### 2. Interior Grease Traps

Small volume food service establishments, which have limited menus, minimum dishwashing, and/or minimal seating, shall provide a grease trap built into the wastewater piping in close proximity to the grease producing fixture(s). The location and capacity of the grease trap(s) shall be approved by the Director of Plant Operations. The minimum grease trap capacity may be determined using the Equipment Checklist calculation below:

## **Equipment Checklist**

Fixture dimensions (Cu. F	t.): <u>Length (in.) x Depth (in.) x V</u>	<u> </u>
	1,728	
Fixture 1:		
Fixture 2:		
Fixture 3:		
Fixture 4:		
Total Capacity (ft <sup>3</sup> )	$x 7.48 \text{ gal/ft}^3 \times [0.50] = $	gallons.

## 3. Design Criteria

- a. Interior grease traps and exterior grease interceptors shall be constructed in accordance with Four Rivers Standards.
- b. Grease traps and interceptors shall have a minimum of two (2) compartments with fittings designed for grease retention.

- c. There shall be an adequate number of manholes on an exterior grease interceptor to provide access for cleaning all areas of the interceptor. Gas-tight manhole covers shall be provided with a minimum diameter of twenty-four inches (24").
- d. Grease interceptors shall have two (2) compartments. It is recommended that the inlet compartment be two-thirds (2/3) the total capacity of the interceptor with a minimum liquid volume of 666 gallons. The outlet compartment shall have a minimum capacity of one-third (1/3) the total capacity of the interceptor.
- e. The inlet and outlet shall have a baffle tee or similar flow device with a minimum cross-sectional area equal to the cross-sectional area of the inlet. Each baffle shall extend from at least four inches (4") above the liquid level to within at least twelve inches (12") of the inside floor of the interceptor.
- f. Adequate partitions or baffles of durable material shall be constructed between compartments of the grease interceptor and shall extend at least six inches (6") above the liquid level. Flow from the inlet compartment to outlet compartment shall be through a quarter bend, or similar device equivalent in cross-sectional area to the inlet into the interceptor and shall extend downward to within twelve inches (12") of the inside floor. Wooden baffles are prohibited.

4.	Total capacity	(in gallons)	of grease the	Trap/Interceptor/	's:

- B. Gasoline, Oil and Flammable Liquid Interceptors
  - 1. Commercial Vehicle Repair Garages, Gasoline Stations with Grease Racks or Pits and Oil Change Facilities.

Any Commercial vehicle repair garage, gasoline station with a grease rack or pit and oil change facility shall be provided with floor drains or a trench drain connected to a gas and oil/water separator.

The minimum size of the interceptor shall be six (6) cubic feet (45-gallons) for the first 500 square feet of floor area plus one cubic foot per each additional 500 square feet drained to the interceptor.

2. Commercial and Residential Vehicle Storage:

Commercial and Residential vehicle storage areas greater than 1,000 square feet shall comply with the requirements of Section B-3 below.

3. Other Facilities:

All facilities, other than those discussed in Section B-1 above that generate fuel, oil or flammable waste shall meet one of the following requirements:

- a. Provide floor or trench drains connected to a gas and oil/water interceptor.
- b. Provide an alternative system approved by the IDPH (i.e., an oil reclamation system or containment area).

The minimum size interceptor for these facilities shall be six (6) cubic feet (45 gallons) for the first 3,000 gross square feet plus 1 cubic foot per each additional 1,000 square feet to be drained to the interceptor.

#### C. Catch Basins

Sand catch basins or similar interceptors for heavy solids shall be so designed and installed to be accessible for cleaning and shall be sized to meet the following criterion:

#### 1. Motor Vehicle Wash Racks.

All motor vehicle wash racks, drainage shall discharge into a water-tight catch basin at least 36 inches in diameter, or three (3) feet by two and one half (2-1/2) feet (rectangular shape). The bottom shall not be less than 27 inches below the invert of the outlet pipe.

#### 2. Commercial Laundries

Commercial laundries shall be equipped with an interceptor/strainer having a removable wire basket or similar device that will prevent any unwanted material from entering the Four Rivers' sanitary sewer collection system.

#### D. Approval

Work must be completed in accordance with all applicable State, County and Local Plumbing Codes. All installed equipment must meet all aforementioned and Public Health Code requirements.

## SECTION IV (to be completed by Four Rivers Staff only)

Permits Required				
	onstruction/Operation Permit			
	D Industrial Wastewater Discharge I			
Connec	tion Permit from Engineering Depar	tment		
Equipment Installation				
Gas and	l Oil Separator			
Grease	Interceptor ( Capacity in	gallons)		
Grease	Trap ( Capacity in gallons)			
Pretreat				
Sand Ca	neter Sampling Manhole			
	te Sampling Basin (Type	)		
Monito	ring Manhole W/Flume	,		
	_4' diameter 5' diameter ed Monitoring Manhole (5' diameter			
Enhanc	ed Monitoring Manhole (5' diameter	·)		
(With el	ed Monitoring Manhole (5' diameter ectrical power, flume and flow mete vater Meter	r)		
Wastev	vater Flow Meter			
Credit V	Water Meters			
	Specify):			
(This example w	as used to forecast flows and charges.	Account No)		
Has the downstr	eam sewer been accepted for permits	? YesNo		
The downstream	sewer is:			
General				
IEPA Cl	ass K OperatorInspection	by I.W.S.		
Total Fee Owed:				
Plant Buy In (PBI) fee apply? Y N Plant Buy In (PBI) fee credit apply? Y N				
Basin Fee apply? Y N (Name): Basin Fee credit apply? Y N				
Payback Fee apply? Y N (Name):				
Credit applied (A	account name/Address):			
Calculated Flow	and LUC Credit:			
PBI ERUs:	Less Credit PBI ERUs:	Chargeable PBI ERUs:		
Basin ERUs:	Less Credit Basin ERUs:	Chargeable Basin ERUs:		
Calculation of Cl	narges:			
PBI:	Basin:	Payback:		

## Four Rivers Sanitation Authority Signatures: CS Maintenance Div. Manager: Approval Date: Assistant Director of Engineering: \_\_\_\_\_\_ Approval Date: \_\_\_\_\_ Director of Plant Operations: \_\_\_\_\_ Approval Date: \_\_\_\_\_ Director of Engineering: \_\_\_\_\_ Approval Date: \_\_\_\_\_ Comments: H. Standard Terms and Conditions A Sampling Manhole (5' minimum depth) in accordance with Four Rivers Standards. Requires a Private Property Plumbing Contractor, registered and bonded with Four Rivers, to schedule inspections with the Engineering Department for service connection at the defined point of connection and any required devices. Requires a Public Property Plumbing Contractor, registered and bonded with Four Rivers, to schedule inspections of the new service cut-in and the service extension to the defined point of connection. Provide detail drawings of (device/s). Provide signed Multi-Tenant Developer Agreement for multiple tenant buildings without food service establishments. Provide detailed flow calculations signed and stamped by a Licensed Illinois Architect or Engineer) to support the estimated wastewater discharge stated on the I/C Application. An Industrial/Commercial Permit Application must be submitted for any new tenant that has a wastewater discharge of non-domestic characteristics. All deficiencies and required documentation must be satisfactorily completed and received by Four Rivers and the Service Connection Permit issued within sixty (60) days of the initial Industrial/Commercial Connection Review Letter. After the sanitary service connection (including all appurtenances) inspection has been completed and all plumbing fixtures have been installed, please contact Brett Ladd -Wastewater Pretreatment Coordinator at 815-387-7633, to obtain the required General

Industrial/Commercial Wastewater Discharge Permit for Food Service Establishment

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## Application for Sampling/Monitoring Manhole Installation

<u>Sect</u>	tion I - General Information		
Facil	lity Name:		
Facil	lity Address:		
Add	lress of Proposed Manhole:		
Facil	lity Owner/Contact Person:		Telephone #:
Plun	mber/Contractor:	Te	elephone #:
Date	e:		
<u>Sect</u>	tion II - Manhole Detail Drawir	ng ( <mark>Contact the Engineering Perm</mark>	nit Clerk for Requirements).
1.	Indicate type of manhole:		
	Sampling ManholeM	lonitoring Manhole	
	Enhanced Monitoring Ma	nholeAlternate Sampling Dev	vice (Variance Request Required)
2.	Manhole Detail drawing atta	chedYesNo	
Sect	tion III - Site Plan		
1.	New Industrial/Commer	cial UserExisting Industrial/Co	ommercial User
2.	Site Plan Attached: Yes _	No	
<u>Sect</u>	tion IV - Flow Meter Detail		
1.	Sanitary sewer service size _	inches	
2.	Sanitary sewer service slope	percent	
3.	Expected flow volume:		
	Daily average flow	(GPD): Daily max flow	(GPD)

	A.	Palmer Bowlus Flume	,	size	inches	
	B.	Parshall Flume	,	size	inches	
	C.	Weir, Type	,	size	inches	
	D.	Leopold - Lagco Flume	,	size	inches	
	E.	Other	<b></b> ,	size	inches	
	Note.	: Catalog sheet/s for primary devi	ice/s must be s	submitted		
5.	Flov	w Meter Type:				
	A.	Float	Mfg_		_	
	B.	Electrical	Mfg_		<u> </u>	
	C.	Ultrasonic	Mfg_		<u></u>	
	D.	Bubbler	Mfg_		<u> </u>	
	E.	Submerged Pressure				
		Transducer	Mfg_		_	
	F.	Other	Mfg_		_	
Sect	ion V -	Installation				
1.	Wh	at is the estimated date of installa	tion?			
			(Four Rivers U			
Sect	ion VI	- Comments/Requirements	TOUT RIVERS OF	se only)		
<u>Four</u>	Rivers	Sanitation Authority Staff Signat	ures:			
CS Maintenance Div. Manager:				Approval Date:	:	
Assis	Assistant Director of Engineering:			Approval Date:	:	
Dire	Director of Plant Operations:			Approval Date:	Approval Date :	
Director of Engineering:				Approval Date:		

Primary device type and size:

4.

2 of 2 Revised: October, 2021

## NON-ROCKING, SELF-SEALING FRAME & LID WITH "SANITARY" **LETTERING** RIM ELEV.= 12" MAX. **ADJUSTMENT** RISER PIPES 30" MAX. STANDARD MANHOLE OF VARIOUS COMBINATIONS OF S AND ADJUSTMENT RINGS 48" MIN. MAX - 5" MIN MEANS ₽ \* INV. ELEV.= ż ₹ B√ 2' MAX 5 HEIGHT REQ'D. MONOLITHIC CONCRETE BASE SET ON BEDDING MATERIAL (6") AS SPECIFIED. 4" MIN. FOR 48" DIA. 8" MIN. FOR DIA. >48" PLUMBER SIGNATURE INFORMATION TO BE COMPLETED BY PLUMBER DATE

#### NOTES:

- ALL BARREL JOINTS SHALL BE SEALED WITH 3 ½" x ¾" PRE-FORMED RUBBER BUTYL JOINT SEALANT ON THE LOWER SHIPLAP.
- 2. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP, OR APPROVED EQUAL)
- MANHOLE STRUCTURE SHALL BE CONSTRUCTED
  OF PRECAST REINFORCED CONCRETE MANHOLE
  RISER SECTIONS IN ACCORDANCE WITH A.S.T.M.
  C478-90 OR THE LATEST DESIGNATION.
- 4. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE
- SAMPLING AND PRIVATE MANHOLE LIDS SHALL BE NON-ROCKING, SELF-SEALING, AND SHALL HAVE "SANITARY" LETTERING.
- ALL ADJUSTMENT RING JOINTS SHALL BE SEALED ACCORDING TO MANUFACTURERS INSTRUCTIONS, RESPECTIVE OF THE TYPE OF ADJUSTMENT RING USED.
- ONLY ONE 2" RING ALLOWED PER MANHOLE.
   MAXIMUM ADJUSTMENT IS 12". MINIMUM
   ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB
   & GUTTER ROADWAY.
- 8. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
- PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
- 10. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER 'INSIDE DROP MANHOLE DETAIL'.
- 11.MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, AND SHALL BE ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED.
- 12. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'.
- 13. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".

