### CERTIFICATE OF CONFORMANCE

The undersigned, sponsor of the sewer project designated

hereby certify that the constru accordance with the approved said project; that the cost of the	uction of the sewer facilities in	stewater Utility Commission, does said sewer project were completed in Pine Bluff Wastewater Utility for n of \$; es have been paid in full.
	thisday of	
		•
-	1	
	ACKNOWLEDGEMEN'	Г
STATE OF ARKANSAS	} SS	
COUNTY OF	}}	
Public within and for the coun known as the Grantors in the f executed the same for the cons	oregoing instrument, and acknowledge identity and purposes therein	nmissioned and acting, to me well owledged that they each had mentioned and set forth.
WITHESS my halld and sear a	s such Notary Public on this	day of, 20
		NOTARY PUBLIC
My commission expires:		

### **BILL OF SALE**

STATE OF ARKANSAS	SS {		
COUNTY OF	}		
KNOW ALL MEN BY THESE	PRESENTS:		
the sum of One Dollar to the und	inafter described to the dersigned cash in hand knowledged, does here stewater Utility the followers.	t of the Pine Bluff Wastewater Utility, to e Pine Bluff Sanitary Sewer System and I paid by the Pine Bluff Wastewater Util reby bargain, sell, convey, assign, transfe bllowing described property:	lity,
including all pipe, machinery, eq property installed in the complete		ements, fixtures and any and all other lioned above.	
TO HAVE AND TO HO successors and assigns forever.	LD the same unto the F	Pine Bluff Wastewater Utility, its	
The undersigned does her sanitary sewer project mentioned and all encumbrances.	reby warrant that all of above have been paid	f the costs of the installation of the d in full and that the same is free from a	ny
workmanship to be free of defect	s, deficiencies, failures ial completion as presc	tee all materials, equipment, and es, and errors for a period of twelve (12) cribed in the SANITARY SEWER astewater Utility.	
WITNESS our hands and seals th	is day of	, 20	
			•

### **ACKNOWLEDGEMENT**

STATE OF ARKANSAS	} 88		
COUNTY OF	_}		
BE IT REMEMBERED that of Public within and for the county and sknown as the Grantors in the foregoir executed the same for the consideration	state aforesaid, duly commis ng instrument, and acknowle	sioned and actin dged that they ea	g, to me well ach had
WITNESS my hand and seal as such	Notary Public on this	day of	, 20
		NOTARY PU	BLIC
My commission expires:	A CONTRACTOR OF THE PARTY OF TH		

### SEWER MAINTENANCE BOND

### KNOW ALL MEN BY THESE PRESENTS:

That,	, as Principal and,
	, as Surety are held and firmly bound
	er Utility, as Obligee, in the amount of
	Dollars (\$)
	ipal and Surety bind themselves, their heirs, executors,
administrators, successors, and	assigns, jointly and severally, firmly by these presents:
Now, therefore, the condition	of this obligation is such that if the Principal, upon receiving notice
within a period of twelve (12)	months from the date of acceptance of these sanitary sewer lines
and appurtenances by the Pine	Bluff Wastewater Utility, of defects, deficiencies, and/or errors in
the following improvements: S	SANITARY SEWER PROJECT designated
9.	9
shall promptly correct said def	ects and perform the necessary maintenance in keeping with the
requirements of the approved p	lans and specifications for this project then such obligation shall
be null and void; otherwise, it	shall remain in full force and effect. Any suit under this bond

must be instituted before the expiration of three (3) months from the end of the period of notification referred to above.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators, or successors of Owner.

Signed and sealed this	day of		20
			a a
	·		PRINCIPAI.
		Ву	
			SURETY
		Ву	

Insurance Binder Attached

#### RIGHT OF WAY EASEMENT

Individual Married Corporation

### KNOW ALL MEN BY THESE PRESENTS:

THAT I (WE),	and
\$ \$75.54 \$550 No. 100 P. 15	Grantor (s), for and in consideration of the sum of
One Dollar (\$1.00) cash in hand paid	by the Pine Bluff Wastewater Utility Commission, and
other good and valuable consideration	n, the receipt and sufficiency of which is hereby
acknowledged, do hereby grant, barga	ain, sell and convey unto the City of Pine Bluff, for the use
	ater Utility Commission, Grantee, and unto its successors
and assigns forever, a perpetual right,	privilege and easement for the purpose of (1) laying,
	repairing, replacing, reconstructing, testing, inspecting and
	whether one or more, and appurtenances thereto, now and at
different times in the future; (2) keep	ing the easement clear of all buildings and other
	conflict or interfere with the Grantee's use of the
easement; and (3) having the right of	free ingress and egress across adjacent lands of the
Grantor(s) to the lands more particula	

The easement herein conveyed is over, upon, under, and across lands situated in the City of Pine Bluff, Jefferson County, Arkansas, and is more particularly described as follows:

An easement..... (description here)

Grantor(s), at the risk of Grantor(s), reserves the right to otherwise use the easement for purposes not prohibited herein so long as such use does not conflict or interfere with the Grantee(s) use of the easement in any way.

To have and to hold said easement, rights and privileges unto the said Grantee, and unto its successors and assigns forever, for the purpose aforesaid.

And said Grantor(s) covenant(s) with said Grantee, its successors and assigns, the Grantor(s) will forever warrant and defend the title to said easement and rights against the claims of all persons whomsoever and that said Grantee, its successors and assigns, shall have at all times the quiet use and enjoyment of said easement and rights.

IN WITNESS WHEREOF , 20	₹, I hereunto s	et my hand and se	eal this	_day of
	,			
	ACKNOWI	EDGEMENT		
STATE OF ARKANSAS	} SS			
COUNTY OF	}}			
BE IT REMEMBERED the Public within and for the county as known as the Grantors in the foreg executed the same for the consider	nd state afores	aid, duly commisent, and acknowle	sioned and act dged that they	ing, to me well each had
WITNESS my hand and seal as su	ch Notary Pul	olic on this	day of	, 20
			NOTARY P	UBLIC
My commission expires:				

# PINE BLUFF WASTEWATER UTILITY CONTRACTOR/ENGINEERS/CONSULTANT APPLICATION FORM

Legal Name of Company or Firm (or	Individual)		
Trade Name of Business (if different	from above)		
Mailing Address			
Street Address (if different)			
City, State and Zip Code			
Name of Principal Officer, General Pa	artner, or other Desi	gnated Authority	
Tax Identification Number		Date Company St	arted or Date of Incorporation
Telephone:	Facsimile:		E-Mail:
Type of Entity (check only one box)	1		
[ ] Sole Proprietor (SSN)		[ ] Partnership [ ] Personal Service [ ] State/Local Gove [ ] Nonprofit Organ	
Principal Activity of Business (check	one box)		
[ ] Construction [ ] Manufacturing [ ] Other (specify)			
Estimated Cost of Work to be perfor	med:		
Number of Employees: [ ] 1-5 [ ] 6-	15 []16-25 []2	26-40 [ ] 41+ Estin	mate of Years in Business
Principal line of merchandise sold; spe	cific construction w	ork done; products	produced; or services provided.
Has the applicant ever worked for Pine If funding has been received from this			
Under penalty of perjury, I declare that I have ex	amined this application,	and to the best of my kno	owledge and belief it is true, correct and complete.
Name and Title (type/print clearly)>			
Signature >			



# SEWER SERVICE APPLICATION FOR NEW COMMERCIAL PROPERTY AND SUB-DIVISIONS

APPLICATION DATE			
APPLICANT NAME (Please Print)			44.00
MAILING ADDRESS OF APPLICANT			
HOME/BUSINESS PHONE #			
DEVELOPER NAME		*	
MAILING ADDRESS OF DEVELOPER	R		
ENGINEER/CONSULTANT NAME			
HOME/BUSINESS PHONE #		MOBILE #	
ADDRESS/LOCATION OF PROPERTY	r		
INTENDED USE OF THE PROPERTY: INDUSTRIAL MANUFACTURING PROJECTED DEVELOPMENT START PROJECTED DEVELOPMENT COMPL WILL THE FOLLOWING DEVICES BE OIL SEPARATOR: SAND TRAP: OIL/GREASE SEPARATOR:  SITE PLAN OR SKETCH REQ ST I, the undersigned, understand that this apprevised edition of the Sanitary Sewer Extendecessary guidelines to proceed with this property in the service of the sanitary services.	DATE:  DATE:  LETION DATE:  REQUIRED?  YES  YES  YES  YES  OUIRED ON A  REETS, HIGH  plication for sewer ansion Procedure as	NO NO NO NO SIWAYS, ETC.  service is for the Utility and Detail (SSEPD) Spec	SHOWING BUILDINGS, ies information only. The latest cification manual has the
OTHERS, IS PERMITTED WITHOUT P MANUAL.	ERMISSION AS	OUTLINED IN THE S	SEPD SPECIFICATION
SIGNATURE OF APPLICANT			DATE

SSEPD specification manual available via .pdf file at <a href="www.pbwastewater.com">www.pbwastewater.com</a>. Hardcopies may be printed from this site or by request at the office of Pine Bluff Wastewater Utility. Contact the Engineering Department for additional information @ (870) 535-6603.



# PINE BLUFF WASTEWATER UTILITY INVITATION TO BID -- NOT AN ORDER

1520 S. OHIO ST.
PINE BLUFF, ARKANSAS 71601
870-535-6603

BID NO: XX-XX

AD DATES: Day, Month, XX & Month X, 2018 BID OPENING DATE: Month XX, 2018

Sealed bids, subject to the conditions on the reverse hereof, and as may be attached hereto, will be received at the above address until 10:00 A.M., on Day, Month XX, 2018 and then publicly opened, for furnishing the crane as described below.

F.O.B.: Pine Bluff, AR

BY: David Dean Division Director 870-543-0808

All Sales Tax and Delivery Charges must be itemized and included in the Bid amount submitted Maximum delivery after issuance of Purchase Order by the Utility as noted below: 30 days

#### **BID SCHEDULE**

	DE SCIED CEE			
ITEM#	DESCRIPTION	QTY	UNIT	AMOUNT
X	XXXX	X	X	
1 1	ARARAR	71	71	
	See attachment for detailed specifications			
		DLVY		\$
		TAX		\$
		TOTAL		\$

#### **EXECUTION OF BID**

	its set forth in this bid proposal including specification articles being bid on, and we agree to furnish these art	
prices stated.		Date:
Arkansas Use Tax Register No.	Telephone:	Fax:
Federal Identification No. (Inc.)	Sole Proprietor Social Sec. #	
Bidder	Address	
By(PERSON AUTHORIZED TO SIGN BIDS)		

BIDS MUST BE SUBMITTED ON THIS FORM UNSIGNED BIDS WILL BE REJECTED. CONDITIONAL BIDS WILL BE REJECTED.

## PINE BLUFF WASTEWATER UTILITY CONDITIONS OF BIDDING

### COMPLIANCE WITH THE FOLLOWING CONDITIONS IS NECESSARY FOR BID CONSIDERATION

- 1. SIGNATURE -This bid must be signed with the firm name and by an authorized officer, employee, or agent.
- SALES OR USE TAX IS to be included in the bid price, but is to be added by the vendor to the invoice billing to the Utility. The Utility is not exempt from Arkansas Sales & Use Tax.
- FREIGHT/DELIVERY charges to destination (at designated Utility facility) must be included on the bid submitted.
   Charges may not be added after the bid is opened.
- 4. DISCOUNTS Show rate, total amount, and last day any discounts will be allowed after receipt of article and invoice, otherwise, Utility will deduct allowed discount when payment is made.
- FIRM PRICE All prices quoted will remain firm for at least 30 days from date of bid opening, unless otherwise specified by the Utility or bidder.
- ARKANSAS PREFERENCE The request for preference must be in writing (when bid is submitted) to be considered as a factor in awarding a contract.
- IDENTICAL BIDS In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to either bidder or split (in any proportion) between the lowest bidders at discretion of the Utility.
- 8. LIQUIDATED DAMAGES Liquidated damages shall be assessed beginning on the first day following the maximum delivery or completion time entered on this bid form and/or provided for in the plans and specifications.
- 9. AMBIGUITY IN BID Any ambiguity resulting from omission, error, lack of clarity or noncompliance by the bidder (i.e. specifications, instructions, and all conditions of bidding) shall be construed in the light most favorable to Utility.
- 10. The City reserves the right to reject any and all bids, to accept in whole or in part any bid, to waive any formalities in bids received. The City reserves the right to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired and (unless otherwise specified by the bidder) to accept any item in the bid. If unit prices and extensions thereof do not coincide, the Utility may accept the bid for the lesser amount whether reflected by the extension or by the correct multiple of the unit price.
- 11. CONFLICT OF INTEREST any personal association with PBWU's employees or financial interest that interferes, or appears to interfere, with an individual's ability to do what is in the best interest of the Utility and may result in a direct or indirect personal gain or benefit to the individual.
- 12. FREEDOM OF INFORMATION ACT Under the Freedom of Information Act (FOIA) all information pertaining to a bid/quote is accessible to the public following the bid opening.

## INSTRUCTIONS TO BIDDERS (PLEASE READ CAREFULLY)

- Submit bids using the bid form on reverse side of this sheet.
- Address all bids to Pine Bluff Wastewater Utility, Attention: Patricia Cole, Procurement Analyst. Please indicate the identifying bid number on the envelope containing your bid.
- 3. DO NOT include Federal Excise tax in bid. Utility will furnish exemption certificate.
- State the Manufacturer, Brand Name, Model, etc. for each item bid.
- 5. Samples of items, when required, must be furnished free of charge. If those samples are not called for within 30 days from date of bid opening, they will be disposed of by the Utility.
- 6. Bids received after stated bid opening time will not be considered.
- 7. Read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after the bid opening.
- 8. Guarantees and warranties should be attached (as a part of the bid) as they may be a consideration in awarding a contract.
- Delivery date or contract completion time is to be shown on the bid. If time is of the essence, the delivery date may be a determining factor in the award.
- 10. Additional information may be obtained from the Division Director at 870-535-6603, Ext 113.

THIS CITY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS, AND TO ACCEPT ANY BID WITH OR WITHOUT TRADE-IN. THE CITY FURTHER RESERVES THE RIGHT TO REJECT ALL BIDS, OR PART OR ALL OF ANY SPECIFIC BID OR BIDS.

# PINE BLUFF WASTEWATER UTILITY

1520 S. OHIO ST. • PINE BLUFF, ARKANSAS 71601-6055 • PHONE: (870) 535-6603 • FAX (870) 535-6243

# FOOD PREPARATION APPLICATION FOR NEW CONSTRUCTION

APPLICATION DATE	
APPLICANT INFORMATION:	BUSINESS INFORMATION:
NAME	NAME
ADDRESS	
CITY, ST, ZIP	
TELE	
CELL	
INTENDED USE OF THE PROPERTY	
RESTAURANT SCI	HOOL SOUP KITCHEN
CHURCH DA	YCARE OTHER
FACILITIES PRESENT ON THE PROF	PERTY:
FLOOR DRAINS BAI	R SINKS MOP SINKS
3 COMP. SINKS HAT	ND WASH SINKS DISHWASHERS
GRILL DEF	EP FRYERS OVEN
PIZZA OVEN BRO	DILERS STOVE/RANGE
PROJECTED DEVELOPMENT START DA	TE:
PROJECTED DEVELOPMENT COMPLET	ION DATE:
	ALL PROJECTS, SHOWING ALL FACILITIES.
guidelines to proceed with this project. NO SEV	n for sewer service is for the Utilities information only. The latest lity Operations, Plans, and Procedures Manual has the necessary VER SERVICE INSTALLATION, BY PBWU OR OTHERS, IS OUTLINED IN PBWU OPERATIONS, PLANS, AND
SIGNATURE OF APPLICANT	DATE

# PINE BLUFF WASTEWATER UTILITY

1520 S. OHIO ST. • PINE BLUFF, ARKANSAS 71601-6055 • PHONE: (870) 535-6603 • FAX (870) 535-6243

### **GREASE TRAP SIZING FORM**

Business Name				
Street Address			*	
Contact Person				Phone #
Other Information				
Date Received				
Kind of Fixture	Units	# of Fixtures	Total	Comments
Floor Drain	1	<u></u>		
Bar Sinks	2			
Wash Sinks	3			
Hand Wash Sinks	1			
Constant Flow	2/gpm			
Misc.				
Dishwashers	See			9
	below	<u> </u>		
		Grand Total		
Dishwasher FUs are	based upo	n the maximum di	scharge rat	e divided by 7.5 gpm.
Trap Size (in gallons	•			, <u></u>
COMMENTS:				
				1
TRAP SIZE REQUIR	ED			
COMPLETED BY: _				
DATE:				
DATE:				

### **MISSION**

### SANITARY SEWER EXTENSION CHECK OFF LIST

Proj	ect Title		
<u>Dev</u>	eloper's Information		
Nam	ne:		a .
Add	ress:		
City	, St, Zip:	Az-il-ranka az-il-ranka az-il-ranka az-il-ranka az-il-ranka az-il-ranka az-il-ranka az-il-ranka az-il-ranka az	A. Souled States
Phor	ne, Fax:	*****	
Web	site:		Ģ.
		<u>BY</u>	<b>DATE</b>
1.	Preliminary Project Approval Given:		-
2.	Construction Plans & Specs Received:		-
3.	Construction Plans & Specs Approved:		
4.	R-O-W Easements Received/Approved:		
5.	Written Approval for Project Start:		
5.	Testing Completed & Accepted:		
7.	As-Built Plans Received & Approved:		
3.	R-O-W Easements Filed at Court House:		
€.	Certificate of Conformance Received:	·	
0.	Bill of Sale Received & Approved:		-
1.	Maintenance Bond Received & Approved:		
2.	Project Final Inspection & Approval:		
3.	Written Approval Issued by Utility:		
4.	Project Accepted by Utility Commission		

#### **VACUUM MANHOLE TESTING**

The standard test of 10" Hg (Mercury) shall be used.

Start the vacuum pump assembly, open the inlet/outlet ball valve and evacuate the manhole to 10" Hg.

Close vacuum inlet/outlet ball valve, disconnect vacuum pump and monitor vacuum for the specified time period. (See Table Below) If the vacuum does not drop in excess of 1" Hg over the specified time period, the manhole is considered acceptable and passes the test.

### **VACUUM TEST TIMETABLE**

DEPTH - FEET	DIAMETER - INCHES						
	48"	60"	72"				
4'	10 sec.	13 sec.	16 sec.				
8'	20 sec.	26 sec.	32 sec.				
12'	30 sec.	39 sec.	48 sec.				
16'	40 sec.	52 sec.	64 sec.				
20'	50 sec.	65 sec.	80 sec.				
24'	60 sec.	78 sec	96 sec.				
*	05 sec.	6.5 sec.	8.0 sec.				

Note: Repeat the above test procedure after backfilling for final acceptance test.

### LOW PRESSURE AIR TESTING

- 1. For Testing: Clean pipe to be tested by propelling snug fitting inflated rubber ball through the pipe with water.
- 2. Plug all pipe outlets with test plugs. Brace each plug securely.
- 3. If the pipe to be tested is submerged in groundwater, insert a pipe probe by boring or jetting into the backfill material adjacent to the center of the pipe, and determine the pressure in the probe when air passes slowly through it. This is the back pressure due to ground water submergence over the end of the probe. All gauge pressures in the test shall be increased by this amount.
- 4. Add air slowly to the portion of the pipe installation under test until the internal air pressure is raised to 4.0 psig above back pressure, but less than 5.0 psig.
- 5. After an internal pressure of 4.0 psig above back pressure is obtained, allow at least two minutes for air temperature to stabilize, adding only the amount of air required to maintain pressure, but less than 5.0 psig.
- 6. When pressure decreases to 3.5 psig above back pressure, start stopwatch.

  Determine the time in seconds that is required for the internal air pressure to reach 3.0 psig. Minimum permissible pressure holding times for runs of single pipe diameter are indicated in the following table:

#### AIR TESTING

PIPE SIZE	TIME FOR VARIOUS PIPE LENGTHS									
	PIPE LENGTHS									
INCHES	50`	100	250'	200	250	300	350	400'	450	
-			TIME IN MINUTES & SECONDS							
6	5:40	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24	
8	7:34	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24	
10	9:26	9:26	9:26	9:26	9:26	11:52	13:51	15:49	17:48	
12	11:20	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38	
15	14:10	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04	
18	17:00	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41	
21	19:50	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31	
24	22:47	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33	

### PRESSURE AND LEAKAGE TESTING OF FORCE MAINS

All force mains from the pump station to the discharge shall be pressure tested and tested for leakage prior to being accepted by PBWU and placed into service. Air testing of pressure pipe is prohibited. Force mains shall be hydrostatically tested as follows:

The pressure test shall be for a minimum of two (2) hours and shall be at a pressure of 150% of maximum working pressure or 50 psi, whichever is greater. (Minimum test pressure shall be 50 psi) The test shall be conducted in the presence of an authorized representative of PBWU, and shall be performed with a test pump and meter assembly specifically designed and manufactured for the purpose of pressure and leakage testing of water and sewage pressure pipelines. During the test period, the force main route shall be walked and carefully examined for evidence of leakage or surface disturbance, indicating movement of a blocked fitting. The test shall be as specified in the American Water Works Association (AWWA) Standard C600, latest revision. The allowable leakage shall be the water required by the test pump to maintain the test pressure in the line continuously during the test, with a drop of line pressure of no greater than 5% of the test pressure. The leakage metered by the test assembly shall not exceed the allowable leakage as specified in AWWA C600, latest revision, as calculated by the following formula:

 $L = SD\sqrt{P/148,000}$ 

Where:

L = allowable leakage in gallons per hour

S = length of pipeline section subject to test

D = nominal diameter of pipe subject to test

P = test pressure, psig

For closed valves subject to test, add 0.0078 gallons/hour/inch of nominal

diameter of valve

### Sample Calculation:

Force Main Diameter:

6 inches

Length of Test Section:

1,000 feet

Maximum Pressure during operation: 40 feet TDH = 17.32 psig. (Use minimum 50 psig)

2 - closed valves (discharge valves in Pump Station)

L =  $SD\sqrt{P/148,000}$  = (1,000 x 6 x  $\sqrt{50}$ )/148,000 + 2 x .0078 x 6 = 42,426.41/ 148,000 + 0.09 =

L = 0.38 gallons per hour, or 0.76 gallons for a two hour test.

### REPAIRS & PARTS

Pipe Lasers Rotating Lasers **Gas Detectors Metal Detectors** 

ICM News Page

Used Equipment

Email ICM

Construction Info & Link Page

**Employment** 

Credit Card Form We Accept





Deflection Gauges (mandrels) are used to test flexible sewer pipes for out-of-roundness or deflection. This testing ensures that flexible pipe has been properly bedded and back-filled to give optimum performance. (Per ASTM Designation D2321-89).

Cherne's adjustable aluminum gauges utilize a nine arm design to ensure the pipe is tested accurately-often required in mandrel design specifications. Accurately sized to .01" to meet ASTM requirements.

The Cherne Aluminum Fin Gauges are designed to allow gravel and debris to pass through easily. Other gauges can get hung up on rocks and obstructions causing a deflection test to fail even though the pipe is within deflection tolerances causing a great expense for the contractor.

- Constructed of lightweight aluminum, gauges will not rust and are up to 75% lighter than comparable steel models.
- Economical and versatile patented design features interchangeable fins for various pipe sizes.
- Cherne's unique fin design allows for accurate field size verification using a tape measurer or yardstick. Simply put two fins end-to-end and measure the width. Add one inch to that dimension and you have the outside diameter of the deflection gauge.
- Fins for gauges 4" through 15" have a skid size equal to the nominal pipe size, ensuring the gauge meets regional codes. This also guarantees that the gauge will not tip in the line.
- Fin design assembles easily without tools and all sizes fit through a standard 24" manhole.
- Larger & Custom Sizes Available!



Width + 1" = Seffection gauge outside diameter

Cherne's Fin Style Deflection Gauges are designed to be field verified by inspectors without the need for a proving ring. Simply place two fins end to end as pictured above and measure the width. Add one inch for the mandrel and you have the outside dimension of the gauge. Using this method simplifies the inspector's job of verifying sizing on deflection gauges.

Part Number	Set/Size(s)	Gauge Diameter	Pipe	Deflection	Product Weigh
	Aluminum F	in Set Kits (Include	es Box, Fins,	and Mandrel)	
285 688	6", 8" & 10"	Mandrel	SDR 26	5%	18 lbs (8.2kg)
285 698	8", 10" & 12"	Mandrel	SDR 26	5%	19 lbs (8.6kg)
285 005	6", 8" & 10"	Mandrel	SDR 35	5%	18 lbs (8.2kg)
285 021	8", 10" & 12"	Mandrel	SDR 35	5%	19 lbs (8.6kg)
285 013	6", 8" & 10"	Mandrel	SDR 35	7.5%	18 lbs (8.2kg)
285 048	8", 10" & 12"	Mandrel	SDR 35	7.5%	19 lbs (8.6kg)
		Fin Sets (Using 1	0" Mandrel)		
285 617		10" Mandrel (Good for fins t	rom 4" - 15")		4 lbs (1.8kg)
285 056	4*	3.70"	SDR 35	5%	2 lbs (0.9kg)
285 072	6.	5.46"	SDR 35	5%	4 lbs (1.8kg)
285 080	8"	7.28"	SDR 35	5%	5 lbs (2.3kg)
285 099	10"	9.08"	SDR 35	5%	6 lbs (2.8kg)
285 102	12"	10.79*	SDR 35	5%	6 lbs (2.8kg)
285 110	15"	13.20	SDR 35	5%	6 lbs (2.8kg)
285 137	4*	3.60*	SDR 35	7.5%	2 lbs (0.9kg)
285 153	6"	5.31"	SDR 35	7.5%	4 lbs (1.8kg)
285 161	8*	7.09"	SDR 35	7.5%	5 lbs (2.3kg)
285 188	10"	8.84*	SDR 35	7.5%	6 lbs (2.8kg)
285 196	12"	10.51"	SDR 35	7.5%	6 lbs (2.8kg)
285 218	15"	12.86"	SDR 35	7.5%	6lbs (2.8kg)
285 638	6"	5.33"	SDR 26	5%	4 lbs (1.8kg)
285 648	8*	7.11*	SDR 26	5%	5 lbs (2.3kg)
285 658	10"	8.87*	SDR 26	5%	6 lbs (2.8kg)
285 668	12"	10.55"	SDR 26	5%	6 lbs (2.8kg)
285 678	15"	12.86"	SDR 26	5%	6 lbs (2.8kg)
		Fin Sets (Using 2	4" Mandrel)		
285 250		24" Mandrel (Good for fins	18" - 48")		11 lbs (5.0kg)
285 536	18"	16.13"	SDR 35	5%	8 lbs (3.6kg)

10"	SDR 35 SDR 35	7.5% 7.5%		4 oz (.11kg) 6 oz (.17kg)
8"	SDR 35	7.5%		4 oz (.11kg)
			4 oz (.11kg)	
6"	SDR 35	7.5%	4 oz (.11kg)	
18"	SDR 35	5%	9 oz (.26kg)	
15"	SDR 35	5%		7 oz (.20kg)
12"	SDR 35	5%		6 oz (.17kg)
10"	SDR 35	5%		6 oz (,17kg)
8"	SDR 35	5%		4 oz (.11kg)
6"	SDR 35	5%		4 oz (.11kg)
Size	Pipe	Deflection		Product Weight
	44.21"	Spirolite	5%	13 lbs (5.9kg)
	38.68"	Spirolite	5%	12 lbs (5.4kg)
	33.15"	Spirolite	5%	11 lbs 5.0kg)
33"	30.38"	Spirolite	5%	10 lbs (4.5kg)
30"	27.62*	Spirolite	5%	9 lbs (4.1kg)
27"	24.84"	Spirolite	5%	9 lbs (4.1kg)
24"	22.08"	Spirolite	5%	8 lbs (3.6kg)
21"	19.30"	Spirolite	5%	8 lbs (3.6kg)
18"	16.53"	Spirolite	5%	8 lbs (3.6kg)
27"	23.43*	SDR 35	7.5%	9 lbs (4.1kg)
	20.80"	SDR 35	7.5%	8 lbs (3.6kg)
	18.50"	SDR 35	7.5%	8 lbs (3.6kg)
18"	15.70*	SDR 35		8 lbs (3.6kg)
-				9 lbs (4.1kg)
	21.36"	SDR 35		8 lbs (3.6kg)
	21" 24" 27" 18" 21" 24" 27" 30" 33" 36" 42" 48"  Size  6" 8" 10" 12" 15" 18" 6"	24" 21.36" 27" 24.06"  18" 15.70"  21" 18.50"  24" 20.80"  27" 23.43"  18" 16.53"  21" 19.30"  24" 22.08"  27" 24.84"  30" 27.62"  33" 30.38"  36" 33.15"  42" 38.68"  48" 44.21"  Size Pipe  6" SDR 35  8" SDR 35  10" SDR 35  12" SDR 35  15" SDR 35  15" SDR 35  18" SDR 35	24"         21.36"         SDR 35           27"         24.06"         SDR 35           18"         15.70"         SDR 35           21"         18.50"         SDR 35           24"         20.80"         SDR 35           27"         23.43"         SDR 35           18"         16.53"         Spirolite           21"         19.30"         Spirolite           24"         22.08"         Spirolite           27"         24.84"         Spirolite           30"         27.62"         Spirolite           33"         30.38"         Spirolite           36"         33.15"         Spirolite           42"         38.68"         Spirolite           42"         38.68"         Spirolite           48"         44.21"         Spirolite           48"         44.21"         Spirolite           Size         Pipe         Deflection           6"         SDR 35         5%           10"         SDR 35         5%           12"         SDR 35         5%           15"         SDR 35         5%           15"         SDR 35         5%      <	24"         21.36"         SDR 35         5%           27"         24.06"         SDR 35         5%           18"         15.70"         SDR 35         7.5%           21"         18.50"         SDR 35         7.5%           24"         20.80"         SDR 35         7.5%           24"         20.80"         SDR 35         7.5%           27"         23.43"         SDR 35         7.5%           21"         19.30"         Spirolite         5%           24"         22.08"         Spirolite         5%           24"         22.08"         Spirolite         5%           30"         27.62"         Spirolite         5%           33"         30.38"         Spirolite         5%           36"         33.15"         Spirolite         5%           42"         38.68"         Spirolite         5%           42"         38.68"         Spirolite         5%           48"         44.21"         Spirolite         5%           8"         SDR 35         5%         5%           10"         SDR 35         5%         5%           12"         SDR 35         5%

TRENCH SAFETY	PIPE LASERS	PIPE PLUGS & TESTING	CONFINED SPACE SAFETY	SURVEYING INSTRUMENTS	CONTACT US	SITE MAP	HOME	
July 24, 2009 Copyright © 2001 ICM EBiz Division. <u>ebiz@icmmail.com</u> We Specialize in building Construction Oriented Web Sites								