

## Purchasing Division Finance Department

Room 120 411 West First Street Duluth, Minnesota 55802



# Addendum #1 Solicitation 23-0113 2023 Manhole Insulation Project

This addendum serves to notify all bidders of the following changes to the solicitation documents:

The following questions asked are answered below in red italics:

- 1. Is there a detailed drawing of the expansion joints that need to be blanketed in these manholes?
  - A. No, this system has many different types of expansions throughout its 90 years. Not all expansions are the same in each manhole. A brochure of the expansions that we currently use. (See attachment A)
- 2. Blankets will you allow field fabricated with staples or do they all need to be manufactured sewn blankets?
  - A. Yes, as long as they are a removable blanket for maintenance access.
- 3. What gauge aluminum do you want for this project? Is it acceptable to screw aluminum lagging on or does it need to be banned on?
  - A. Use .016-gauge Stucco Aluminum
- 4. Is there flanges that need to be blanketed none listed in the measurements but indicated in the scope of work?
  - A. Yes, any of the manholes that have valves will have flanges. Typically, the valve blankets cover the flange portion.
- 5. It is noted that we are required two workers at each manhole location during work is Duluth Energy also providing someone for safety??
  - A. Yes. Duluth Energy will provide a technician during manhole project work hours.

- 6. Is Duluth Energy going to have air monitors set up for these manholes and the safety escape equipment such as tripod or is this not considered confined space?
  - A. Yes, all manholes are considered confined space. Safety equipment and air monitors will be provided for each location. A Duluth Energy entry permit will be filled out prior to entry. (See attachment B).
- 7. Says all permits shall be included in cost what permits are required for this project?
  - A. The Intent is to have contractor figure in all costs of project. This is insulation project only and no permits will be required.
- 8. Do we need hot work permits or anything filled out with Duluth Energy each day for the project?
  - A. Hot work permits are not required. Entry permit will be required to be filled out daily. (See attachment B).
- 9. Traffic barricades Duluth Energy providing or contractor?
  - A. Contractor will be required to provide all traffic barricades.
- 10. A lot of these manholes you have several pipe sizes listed then just a quantity of elbows, doesn't tell you which size the elbows are or which lines they go with?
  - A. The elbow size is related to the pipe size directly above it.

    Example: Four feet of four-inch pipe

    Four forty-five-degree elbows the elbow size would be four inch.
- 11. Correction to Manhole 863
  - A. Should read 14' of 1-1/4" pipe, not 1/4"
- 12. Correction to Manhole 880
  - A. Should read 1-1/4" pipe, not 1/4"

#### **ATTACHMENTS:**

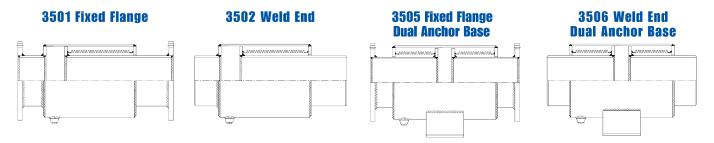
Attachment A – Hyspan 3500 Brochure

Attachment B – Permit Form

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the <a href="https://www.bidexpress.com">www.bidexpress.com</a> solicitation.

Posted: March 6, 2023





**Table 5 Type 3501 and 3502** 

Design Pressure: 150 psig Test Pressure: 225 psig Design Temperature: 500°F

Nominal	Axial Part Number Spring 3501		Axial	Axial	3501		3502	
Size (NPS)	Rate (1) (lb/in)	3502 3503	Compr. (inches)	Ext. (inches)	Overall Length (inches)	Weight (lbs)	Overall Length (inches)	Weight (lbs)
2	33	-131-4	4	1	24.75	31	24.25	23
	22	-131-6	6	2	33.75	40	33.25	32
	17	-131-8	8	2	40.25	47	39.75	39
2 1/2	79	-135-4	4	1	24.75	44	24.13	33
	54	-135-6	6	2	33.75	56	33.13	46
	35	-135-8	8	2	40.25	65	39.63	54
3	66	-140-4	4	1	24.75	60	24.13	46
	40	-140-6	6	2	33.75	77	33.13	63
	31	-140-8	8	2	40.25	87	39.63	74
4	121	-148-4	4	1	24.75	89	24.13	70
	74	-148-6	6	2	33.75	114	33.13	95
	57	-148-8	8	2	40.25	131	39.63	112
5	313	-155-4	4	1	24.75	95	24.13	73
	196	-155-6	6	2	33.75	119	33.13	98
	139	-155-8	8	2	40.25	139	39.63	118
6	348	-160-4	4	1	26.50	141	25.88	110
	218	-160-6	6	2	35.25	174	34.63	142
	155	-160-8	8	2	41.75	202	41.13	171
8	380	-167-4	4	1	26.50	190	25.75	145
	234	-167-6	6	2	35.25	242	34.50	196
	176	-167-8	8	2	41.75	275	41.00	230
10	452	-174-4	4	1	26.50	259	25.75	202
	267	-174-6	6	2	35.25	326	34.50	268
	203	-174-8	8	2	41.75	370	41.00	313
12	418	-180-4	4	1	28.75	344	28.00	261
	253	-180-6	6	2	37.25	428	36.50	345
	183	-180-8	8	2	44.50	478	43.75	395
14	1193	-181-4	4	1	28.75	429	28.00	301
	738	-181-6	6	2	37.25	516	36.50	388
	515	-181-8	8	2	44.50	584	43.75	456
16	1314	-182-4	4	1	28.75	492	28.00	338
	813	-182-6	6	2	37.25	589	36.50	436
	567	-182-8	8	2	44.50	666	43.75	512
18	1438	-183-4	4	1	29.50	528	28.75	374
	888	-183-6	6	2	38.00	636	37.25	482
	619	-183-8	8	2	45.25	721	44.50	567
20	1206	-184-4	4	1	29.50	596	28.75	415
	748	-184-6	6	2	38.00	717	37.25	536
	529	-184-8	8	2	45.25	811	44.50	631
24	1409	-186-4	4	1	29.50	742	28.75	468
	874	-186-6	6	2	38.00	883	37.25	609
	616	-186-8	8	2	45.25	993	44.50	719
1	2	3	4	5	6	7	8	9

## ATTACHMENT B

DULUTH ENERGY SYSTEMS	PRCS Entry Permit	
Attachment B	Revision: 12/10/22	Page: 1 of 2

Permit Number <sup>1</sup> :	Effective Date / Time:				
Name of the Confined Space:	Dormit Dropored Pyr				
Name of the Commed Space.	Permit Prepared By:				
Purpose of Entry:					
Fulpose of Entry.					
Potential Hazards (circle Yes or No):  Y N Oxygen Deficiency Y N Toxic / Combustible Gas Y N Electrical Shock Y N Rotating Equipment Y N Chemical Exposure Y N Fall Hazard Y N Heat Stress Y N Engulfment (water, coal, ash, etc.)	<ul> <li>Special Equipment (Circle Yes or No):</li> <li>Y N Battery powered Lighting (combustible gas hazard)</li> <li>Y N Air Supplied Masks (oxygen deficient or toxic gas)</li> <li>Y N Respirator</li> <li>Y N Disposable Dust Mask</li> <li>Y N Fall Protection Safety Harness / Hoist</li> <li>Y N On-Site Rescue Team</li> <li>Y N Radios (Walkie-Talkies)</li> <li>Y N Cell Phone</li> </ul>				
Other:	Y N TYVEK Overalls Other:				
□ Lock out potential hazards. Record the Lockout Index number(s): □ Hot Work permit, if required. Record Hot Work Index number(s): □ Pre-entry Monitoring Results (monitor at several locations; record average O₂; highest result measured for others)					
Oxygen:% Combustible Gas:%LEL CO:ppm H <sub>2</sub> S: ppm 19.5-23% <10% <35 ppm <10 ppm					
	Within Calibration Periodicity <sup>2</sup> : Yes				
Person Performing Tests :	Initial:				
<ul> <li>Notify Fire Department of confined span</li> <li>All lighting and all electric tools connect</li> <li>Establish Continuous Ventilation (forced</li> <li>Continuous Monitoring Device(s) on si</li> </ul>	cted to a GFCI.  ventilation required for all Distribution System PRCS entries)  te <sup>3</sup> :				
Continuous Monitor #:	Within Calibration Periodicity <sup>2</sup> :  Yes Within Calibration Periodicity <sup>2</sup> :  Yes				
PERMIT AUTHORIZATION <sup>4</sup>					
Entry Supervisor:	(Signature/ date)				
Printed name of Entry Supervisor:					
Operating Engineer Notified: (Not applicable for distribution system PRCS entries)	(Signature/ date)				

DULUTH ENERGY SYSTEMS	PRCS Entry Permit		
Attachment B		Page: 2 of 2	

Authorized Entrant Name	Pre-Entry Monitoring Results Satisfied (Entrant Initial)	Pre-Entry Monitoring Results Satisfied (Attendant Initial)	Time In	Time Out

### CONTINUOUS MONITORING RESULTS<sup>5</sup>

CONTINUOUS MONITORING RESULTS							
	<b>O</b> <sub>2</sub>	Comb Gas	CO	H₂S	Initial	Remarks	
Time	19.5-23.5 %	<10% LEL	<25 ppm	< 5 ppm	(attendant)		

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Entry Supervisor Close–Out Signature	Time	Date
Operating Engineer Notified:		
(Not applicable for distribution system PRCS entries)	(Signature/ date)	<u> </u>

#### **Confined Space Entry Permit Procedure Notes:**

- 1. Obtain Permit Number from the Permit Log Book
- 2. If not within calibration periodicity, STOP use only a calibrated monitor
- 3. Multiple continuous monitoring devices may be required if multiple entrants are working in different areas of PRCS.
- 4. Active, authorized permits shall be posted at the PRCS entry location.
- 5. Results shall be recorded at least every hour while permit is in effect.
- 6. Closed-Out Permits shall be filed in Entry Permit Log Book.