



**IMU BOARD OF TRUSTEES OF THE ELECTRIC,
WATER AND COMMUNICATIONS UTILITIES**

May 12, 2025

5:30 PM

IMU Boardroom

Agenda

- 1. Call to Order**
- 2. Roll Call**
- 3. Public Comment**
- 4. Consent Agenda**
 - A. Approval of Claims
 - B. Approval of Minutes of the prior meetings
 - C. March 2025 Financial Report
- 5. Presentation From Sandhills Energy about Solar Project**
- 6. Electric Utility Action Items**
 - A. Resolution Authorizing potential change orders for the East Iowa Circuit Switcher Replacement Project
- 7. Electric Utility Informational Items**
- 8. Water Utility Action Items**
 - A. Public Hearing for East 3rd Avenue Water Main Improvements Project
 - B. Resolution approving the final plans, specifications, form of contract and estimate of cost for East 3rd Ave Water main Improvement
 - C. Resolution awarding and approving contract to Morris Enterprises for the East 3rd Avenue Water Main Improvement.
 - D. Resolution Approving and Awarding Contract to Central Tank Inc for Lime Tower Recoating Project
- 9. Water Utility Informational Items**
- 10. Communications Utility Informational Items**
- 11. Combined Electric, Water and Communications Action Items**
 - A. Resolution approving health insurance renewals for Fiscal Year 26
- 12. Combined Electric, Water and Communications Informational Items**
- 13. Other Business**
- 14. Adjourn**

15. Exempt Session

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities
From:
Date: May 12, 2025
Subject: Approval of Claims

Recommendation:

Attachments: 1. 051325 AP Check Preview

AP Check Preview

Date Range: All Dates

Indianola Municipal Utilities

Thursday, May 8, 2025
9:51:26 AM

Vendor	Due Date	Notes	Terms	Bill Total	Discount	Interest	Amount Due	Pavment	Invoice Number	Bill Number	Payment Type
Account To Be Paid From 0000-10120-999											
3E - Electrical Engineering & Equipment Co - VEND-1114 - Check											
5/23/2025	Fiberglass Sweeps	Net 30	863.84	0.00	15.00	863.84	863.84	8838958-00	BL-16031	Check	
							863.84	863.84			
ACCO UNLIMITED CORP. - VEND-2810 - Check											
4/22/2025	ACCO Liquid Chlorinating Solution	Open Terms	2,497.56	0.00	0.00	2,497.56	2,497.56	0251482-IN	BL-16018	Check	
							2,497.56	2,497.56			
Benjamin & Penney Reeves - VEND-1141 - BL-15993											
5/1/2025	Credit Refund	Net 30	16.83	0.00	0.00	16.83	16.83	00060532-9	BL-15993	Check	
							16.83	16.83			
Big Ten Network - VEND-1096 - EFT File											
5/30/2025	0425 BTN-Core Exp Basic	Net 30	1,968.62	0.00	15.00	1,968.62	1,968.62	389986	BL-16019	EFT File	
							1,968.62	1,968.62			
Bobs Custom Trophies - VEND-1153 - Check											
5/25/2025	2024 Difference Maker Award	Net 30	70.09	0.00	15.00	70.09	70.09	38776	BL-16020	Check	
							70.09	70.09			
Border States Industries Inc - VEND-1070 - EFT File											
5/7/2025	1" PVC - 10' STICK	Net 30	275.10	0.00	15.00	275.10	275.10	930163236	BL-16024	EFT File	
5/16/2025	1 1/2" PVC - ELBOW 90 DEGREE	Net 30	35.98	0.00	15.00	35.98	35.98	930222621	BL-16022	EFT File	
5/17/2025	1 1/2" PVC - ELBOW 90 DEGREE	Net 30	339.52	0.00	15.00	339.52	339.52	930222605 & 930230270	BL-16021	EFT File	
5/17/2025	1 1/2" PVC - COUPLING	Net 30	13.24	0.00	15.00	13.24	13.24	930230283	BL-16023	EFT File	
5/22/2025	Wide Range CT's	Net 30	398.02	0.00	15.00	398.02	398.02	930254227	BL-16034	EFT File	
5/25/2025	Wide Range CT's	Net 30	796.04	0.00	15.00	796.04	796.04	930279160	BL-16037	EFT File	
5/29/2025	Wide Range CT's	Net 30	1,084.46	0.00	15.00	1,084.46	1,084.46	930299593	BL-16033	EFT File	
5/29/2025	CT Meter Peds	Net 30	2,374.05	0.00	15.00	2,374.05	2,374.05	930299595	BL-16035	EFT File	
5/29/2025	U-Guard Lags	Net 30	171.20	0.00	15.00	171.20	171.20	930299594	BL-16036	EFT File	
6/4/2025	Trunnion Clamps	Net 30	684.80	0.00	15.00	684.80	684.80	930330509	BL-16032	EFT File	
							6,172.41	6,172.41			
BRAND, JUSTIN - VEND-100310 - EFT File											
5/2/2025	0525 Mobile Device Allowance	Open Terms	75.00	0.00	0.00	75.00	75.00	May 25	BL-16056	EFT File	

Vendor	Due Date	Notes	Terms	Bill Total	Discount	Interest	Amount Due	Pavment	Invoice Number	Bill Number	Payment Type
							75.00	75.00			
Calix Inc - VEND-1028 - EFT File											
5/8/2025	GIGASPIRE MESH BLAST	Net 30	4,812.50	0.00	15.00	4,812.50	4,812.50	378559		BL-15981	EFT File
5/8/2025	ONT - GP1101X GIGAPOINT	Net 30	23,498.33	0.00	15.00	23,498.33	23,498.33	378486		BL-16043	EFT File
5/24/2025	WALL MOUNT BRACKET GP1101X	Net 30	249.73	0.00	15.00	249.73	249.73	380459		BL-16042	EFT File
5/31/2025	0525 Calix Cloud Foundation	Net 30	540.32	0.00	15.00	540.32	540.32	7043390		BL-16041	EFT File
6/1/2025	0525 Calix Operations Cloud	Net 30	2,551.63	0.00	15.00	2,551.63	2,551.63	7044478		BL-16039	EFT File
6/1/2025	0525 Calix Service Cloud	Net 30	2,883.75	0.00	15.00	2,883.75	2,883.75	7044479		BL-16040	EFT File
							34,536.26	34,536.26			
Casual Rags - VEND-1006 - EFT File											
5/24/2025	2024 Years of Service Awards	Net 30	175.00	0.00	15.00	175.00	175.00	240733		BL-16044	EFT File
							175.00	175.00			
Cedar Falls Utilities - VEND-1045 - EFT File											
6/4/2025	0425 Labor & Rack Space 28E Agreement (IP	Net 30	5,860.20	0.00	15.00	5,860.20	5,860.20	94105		BL-16045	EFT File
							5,860.20	5,860.20			
Christina McCuen - VEND-1141 - BL-15991											
5/1/2025	Credit Refund	Net 30	36.27	0.00	0.00	36.27	36.27	00000887-1		BL-15991	Check
							36.27	36.27			
Cintas Corporation - VEND-1007 - EFT File											
5/31/2025	First Aid Supplies - Util Svcs	Net 30	43.57	0.00	15.00	43.57	43.57	5267819304		BL-16057	EFT File
							43.57	43.57			
City Of Indianola - VEND-1008 - BL-16058											
5/31/2025	0525 Professional Services	Net 30	7,788.69	0.00	15.00	7,788.69	7,788.69	3468		BL-16058	EFT File
							7,788.69	7,788.69			
DAKOTA SUPPLY GROUP - VEND-23465 - EFT File											
4/27/2025	Machine Bolts	Open Terms	131.08	0.00	0.00	131.08	131.08	S104486406.003		BL-16059	EFT File
							131.08	131.08			
Dallas Heaberlin - VEND-1461 - EFT File											
5/31/2025	0525 Mobile Device Allowance	Net 30	75.00	0.00	15.00	75.00	75.00	May 25		BL-16050	EFT File
							75.00	75.00			

Vendor	Due Date	Notes	Terms	Bill Total	Discount	Interest	Amount Due	Pavment	Invoice Number	Bill Number	Payment Type
Darian Agan - VEND-1141 - BL-15989											
	5/1/2025	Credit Refund	Net 30	54.81	0.00	0.00	54.81	54.81	00041329-2	BL-15989	Check
							54.81	54.81			
DES PLANQUES, CHRIS - VEND-101766 - EFT File											
	5/2/2025	0525 Mobile Device Allowance	Open Terms	75.00	0.00	0.00	75.00	75.00	May 25	BL-16054	EFT File
							75.00	75.00			
Doug Pagel - VEND-1283 - EFT File											
	5/31/2025	0525 Mobile Device Allowance	Net 30	75.00	0.00	15.00	75.00	75.00	May 25	BL-16055	EFT File
							75.00	75.00			
Doug Shull - VEND-1105 - Check											
	5/31/2025	0525 Treasurer Contract	Net 30	83.34	0.00	15.00	83.34	83.34	May 25	BL-16060	Check
							83.34	83.34			
Dylan Michelsen - VEND-1180 - EFT File											
	5/31/2025	0525 Mobile Device Allowance	Net 30	75.00	0.00	15.00	75.00	75.00	May 25	BL-16049	EFT File
							75.00	75.00			
Elisha Brown - VEND-1209 - EFT File											
	5/31/2025	0525 Mobile Device Allowance	Net 30	75.00	0.00	15.00	75.00	75.00	May 25	BL-16053	EFT File
							75.00	75.00			
Evolution Contracting - VEND-1141 - BL-15988											
	5/1/2025	Credit Refund	Net 30	63.36	0.00	0.00	63.36	63.36	00041324-7	BL-15988	Check
							63.36	63.36			
FanDuel Sports Network - VEND-1446 - EFT File											
	5/31/2025	0425 Expanded Basic	Net 30	4,703.24	0.00	15.00	4,703.24	4,703.24	27111	BL-16061	EFT File
							4,703.24	4,703.24			
GRAYMONT WESTERN LIME INC - VEND-101387 - EFT File											
	4/22/2025	High Calcium Quicklime	Open Terms	6,460.65	0.00	0.00	6,460.65	6,460.65	14-202521 RI	BL-16062	EFT File
							6,460.65	6,460.65			
Great Caterers Of Iowa - VEND-1469 - EFT File											
	6/7/2025	2024 Employee Awards Luncheon	Net 30	361.66	0.00	15.00	361.66	361.66	050825	BL-16076	EFT File

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							361.66	361.66			
Hearst Television Inc - VEND-1131 - EFT File											
5/31/2025	0425 KCCI	Net 30	7,873.19	0.00	15.00	7,873.19	7,873.19	608708	BL-16063	EFT File	
							7,873.19	7,873.19			
Helix Pest Solutions LLC - VEND-1445 - EFT File											
5/30/2025	Pest Control for 1300 E IA	Net 30	21.40	0.00	15.00	21.40	21.40	11337	BL-16064	EFT File	
							21.40	21.40			
ImOn Communications LLC - VEND-1072 - Check											
5/31/2025	0425 Regulatory & Billing	Net 30	7,579.38	0.00	15.00	7,579.38	7,579.38	INV0034032	BL-16065	Check	
							7,579.38	7,579.38			
Impact - VEND-1141 - BL-15994											
5/2/2025	Credit Refund	Net 30	197.36	0.00	0.00	197.36	197.36	00006755-4	BL-15994	Check	
							197.36	197.36			
IMU - VEND-8629 - Check											
5/2/2025	Utilities - WA	Open Terms	18,316.47	0.00	0.00	18,316.47	18,316.47	10465814	BL-16066	Check	
5/2/2025	Utilities - EL	Open Terms	1,652.54	0.00	0.00	1,652.54	1,652.54	10464481	BL-16067	Check	
5/2/2025	Utilities - Util Svcs	Open Terms	196.40	0.00	0.00	196.40	196.40	10462396	BL-16068	Check	
5/2/2025	Utilities - Fiber	Open Terms	1,346.07	0.00	0.00	1,346.07	1,346.07	10463649	BL-16069	Check	
							21,511.48	21,511.48			
Independent Advocate - VEND-1136 - EFT File											
5/15/2025	Notice of Public Hearing - EL	Net 30	89.59	0.00	15.00	89.59	89.59	6395	BL-16070	EFT File	
5/22/2025	BOT Meeting/Publication Report 4.15.25	Net 30	284.43	0.00	15.00	284.43	284.43	6419	BL-16071	EFT File	
							374.02	374.02			
Indianola Chamber Of Commerce - VEND-1073 - Check											
5/23/2025	Fiber Marketing	Net 30	1,500.00	0.00	15.00	1,500.00	1,500.00	E4028	BL-16072	Check	
							1,500.00	1,500.00			
Innovative Systems - VEND-1048 - EFT File											
5/31/2025	May 25 Elation Maint Fee	Net 30	12,774.84	0.00	15.00	12,774.84	12,774.84	INV-24841	BL-16074	EFT File	
6/5/2025	0525 Printing & Postage	Net 30	6,925.53	0.00	15.00	6,925.53	6,925.53	INV-24979	BL-16073	EFT File	
							19,700.37	19,700.37			

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Internal Revenue Service - VEND-1307 - Online Payments											
	5/25/2025	941 Income Tax Payable - 042525 Payroll	Net 30	31,675.58	0.00	15.00	31,675.58	31,675.58	042525 Payroll	BL-16075	Online Payments
							31,675.58	31,675.58			
Iowa Department Of Human Services - VEND-1310 - Online Payments											
	5/25/2025	Garnishment Payable - 042525 Payroll	Net 30	723.23	0.00	15.00	723.23	723.23	042525 Payroll	BL-16077	Online Payments
							723.23	723.23			
Iowa Department Of Revenue - VEND-1117 - Online Payments											
	5/25/2025	IA Income Tax Payable - 042525 Payroll	Net 30	3,511.69	0.00	15.00	3,511.69	3,511.69	042525 Payroll	BL-16078	Online Payments
	5/30/2025	April 2025 Use Tax	Net 30	178.36	0.00	15.00	178.36	178.36	Apr 25	BL-16080	Online Payments
	5/31/2025	0525 Sales Tax Billed	Net 30	48,543.61	0.00	15.00	48,543.61	48,543.61	0525 Sales Tax Billed	BL-16079	Online Payments
							52,233.66	52,233.66			
Iowa One Call - VEND-1015 - EFT File											
	5/28/2025	0325 Locates - EL	Net 30	225.90	0.00	15.00	225.90	225.90	270373	BL-16081	EFT File
	5/28/2025	0325 Locates - WA	Net 30	242.10	0.00	15.00	242.10	242.10	270842	BL-16082	EFT File
	5/28/2025	0325 Locates - Fiber	Net 30	252.00	0.00	15.00	252.00	252.00	270841	BL-16083	EFT File
							720.00	720.00			
Iowa Shipping Containers - VEND-1468 - BL-16084											
	5/25/2025	Turbine 8 - RO Water Container	Net 30	4,681.25	0.00	15.00	4,681.25	4,681.25	11649	BL-16084	Check
							4,681.25	4,681.25			
IPERS - VEND-1309 - Online Payments											
	5/30/2025	Ipers Payable - 0425	Net 30	41,109.78	0.00	15.00	41,109.78	41,109.78	0425 Ipers	BL-16085	Online Payments
							41,109.78	41,109.78			
Irby - VEND-1259 - EFT File											
	5/11/2025	Red Locate paint	Net 30	263.22	0.00	15.00	263.22	263.22	S014235291.001	BL-16087	EFT File
	5/16/2025	Connectors	Net 30	436.56	0.00	15.00	436.56	436.56	S014238660.001	BL-16088	EFT File
	5/24/2025	Fiberglass Sweeps	Net 30	1,084.98	0.00	15.00	1,084.98	1,084.98	S014245178.001	BL-16086	EFT File
							1,784.76	1,784.76			
ISolved - VEND-1363 - Online Payments											
	5/25/2025	FSA Payable - 042525 Payroll	Net 30	192.31	0.00	15.00	192.31	192.31	042525 Payroll	BL-16089	Online Payments
							192.31	192.31			

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Jacob Kempen - VEND-1141 - BL-15990											
	5/1/2025	Credit Refund	Net 30	36.66	0.00	0.00	36.66	36.66	00007784-1	BL-15990	Check
							36.66	36.66			
Jess' Lock & Key - VEND-1088 - Check											
	4/6/2025	Repair Lock	Net 30	70.00	0.00	15.00	70.00	70.00	319988	BL-16090	Check
							70.00	70.00			
John Bettazza III - VEND-1141 - BL-15985											
	5/1/2025	Credit Refund	Net 30	563.10	0.00	0.00	563.10	563.10	00037397-5	BL-15985	Check
							563.10	563.10			
Jontie Roush - VEND-1141 - BL-15986											
	5/1/2025	Credit Refund	Net 30	123.87	0.00	0.00	123.87	123.87	00027500-1	BL-15986	Check
							123.87	123.87			
KELLER'S GARAGE - VEND-102525 - Check											
	4/24/2025	Sevice - 2023 Ford F150 1/2 ton	Open Terms	64.64	0.00	0.00	64.64	64.64	7151	BL-16092	Check
	4/26/2025	Service - 2020 Ram 2500	Open Terms	147.31	0.00	0.00	147.31	147.31	7178	BL-16091	Check
							211.95	211.95			
KIENAST IMPLEMENT DETAILING - VEND-102169 - Check											
	5/3/2025	Repaint Transformer for Kwik Star	Open Terms	636.65	0.00	0.00	636.65	636.65	1440	BL-16093	Check
							636.65	636.65			
KNIA/KRLS - VEND-1090 - EFT File											
	5/27/2025	Senior Salutes '25 Package	Net 30	99.75	0.00	15.00	99.75	99.75	25040520	BL-16094	EFT File
	5/27/2025	0425 Sports Stream Spot	Net 30	60.72	0.00	15.00	60.72	60.72	25040519	BL-16095	EFT File
	5/27/2025	0425 :30 Spot Hometown Values	Net 30	691.20	0.00	15.00	691.20	691.20	25040518	BL-16096	EFT File
							851.67	851.67			
Kurt Gocken - VEND-1023 - EFT File											
	5/31/2025	0525 Mobile Device Allowance	Net 30	75.00	0.00	15.00	75.00	75.00	May 25	BL-16046	EFT File
							75.00	75.00			
Kurt Ripperger - VEND-1025 - EFT File											
	5/31/2025	0525 Mobile Device Allowance	Net 30	75.00	0.00	15.00	75.00	75.00	May 25	BL-16047	EFT File
							75.00	75.00			

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LONGER, CHRIS - VEND-34025 - EFT File											
	5/2/2025	0525 Mobile Device Allowance	Open Terms	75.00	0.00	0.00	75.00	75.00	May 25	BL-16051	EFT File
							75.00	75.00			
Marquee Sports Network - VEND-1165 - EFT File											
	5/31/2025	0425 Expanded Basic	Net 30	3,254.99	0.00	15.00	3,254.99	3,254.99	0425	BL-16097	EFT File
							3,254.99	3,254.99			
Mary A Parks - VEND-1141 - BL-15992											
	5/1/2025	Credit Refund	Net 30	36.23	0.00	0.00	36.23	36.23	00015223-0	BL-15992	Check
							36.23	36.23			
METCALF, MIKE - VEND-34230 - EFT File											
	5/2/2025	0525 Mobile Device Allowance	Open Terms	75.00	0.00	0.00	75.00	75.00	May 25	BL-16052	EFT File
							75.00	75.00			
Michelle Curtis - VEND-1141 - BL-15987											
	5/1/2025	Credit Refund	Net 30	64.74	0.00	0.00	64.74	64.74	00056602-5	BL-15987	Check
							64.74	64.74			
Mid American Energy Co - VEND-1018 - EFT File											
	5/18/2025	Gas - 111 S Buxton St	Net 30	80.33	0.00	15.00	80.33	80.33	565862934	BL-16100	EFT File
	5/21/2025	Gas - 210 W 2nd Ave	Net 30	34.72	0.00	15.00	34.72	34.72	565948113	BL-16101	EFT File
	5/21/2025	Gas - 1300 E Iowa Ave Bldg B	Net 30	14.54	0.00	15.00	14.54	14.54	565895474	BL-16102	EFT File
	5/24/2025	Gas - 110 S B St	Net 30	60.48	0.00	15.00	60.48	60.48	566072495	BL-16098	EFT File
	5/24/2025	Gas - 909 E Hillcrest Ave, Generator	Net 30	14.54	0.00	15.00	14.54	14.54	566069902	BL-16099	EFT File
	8/20/2025	Gas - 1300 E Iowa Ave Bldg A	Net 30	70.43	0.00	15.00	70.43	70.43	565907030	BL-16103	EFT File
							275.04	275.04			
MILLER ELECTRIC SERVICES - VEND-34642 - Check											
	5/2/2025	Rewire Valve Motor	Open Terms	405.00	0.00	0.00	405.00	405.00	19453	BL-16104	Check
							405.00	405.00			
Mission Square - VEND-1303 - Online Payments											
	5/25/2025	457 Payable - 042525 Payroll	Net 30	6,663.10	0.00	15.00	6,663.10	6,663.10	042525 Payroll	BL-16105	Online Payments
							6,663.10	6,663.10			
MSC - VEND-1250 - Check											

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6/1/2025	Safety Glasses	Net 30	140.43	0.00	15.00	140.43	140.43	97237559	BL-16106	Check
						140.43	140.43			
MUNICIPAL SUPPLY INC - VEND-35810 - Check										
4/24/2025	40 feet of 6" C900 water pipe	Open Terms	571.20	0.00	0.00	571.20	571.20	0940028-IN	BL-16107	Check
						571.20	571.20			
National Cable Television Cooperative, Inc. - VEND-1095 - EFT File										
5/28/2025	0425 Cable Programming	Net 30	62,015.03	0.00	15.00	62,015.03	62,015.03	25040623	BL-16108	EFT File
						62,015.03	62,015.03			
Nexstar Broadcasting, Inc - VEND-1092 - EFT File										
5/31/2025	0425 NewsNation	Net 30	490.24	0.00	15.00	490.24	490.24	609391	BL-16109	EFT File
5/31/2025	0425 Nexstar - WHO	Net 30	11,114.59	0.00	15.00	11,114.59	11,114.59	609217	BL-16110	EFT File
						11,604.83	11,604.83			
Nolasoft Development - VEND-1021 - Check										
5/30/2025	Annual Domain Reg - 2025 imufiber.com	Net 30	24.00	0.00	15.00	24.00	24.00	9891	BL-16111	Check
						24.00	24.00			
Norwalk Ready Mix Concrete, Inc. - VEND-1119 - Check										
5/21/2025	Square Project - Concrete	Net 30	721.85	0.00	15.00	721.85	721.85	365167	BL-16114	Check
5/23/2025	Square Project - Concrete	Net 30	1,916.25	0.00	15.00	1,916.25	1,916.25	365337	BL-16113	Check
5/29/2025	Concrete E Kentucky & N 6th	Net 30	825.00	0.00	15.00	825.00	825.00	365636	BL-16116	Check
5/31/2025	Square Project - Concrete	Net 30	2,582.77	0.00	15.00	2,582.77	2,582.77	365809	BL-16112	Check
						6,045.87	6,045.87			
Novaspect, Inc - VEND-1457 - EFT File										
5/18/2025	Turbine 8 Water Skid Parts	Net 30	158.99	0.00	15.00	158.99	158.99	CD99325886	BL-16117	EFT File
						158.99	158.99			
Pella Printing Co, Inc - VEND-1062 - EFT File										
5/25/2025	Notice Water Meter Door Hangers	Net 30	173.32	0.00	15.00	173.32	173.32	69607	BL-16118	EFT File
						173.32	173.32			
PIERCE BROTHERS REPAIR - VEND-42410 - Check										
5/1/2025	Square Project Materials	Open Terms	2,953.20	0.00	0.00	2,953.20	2,953.20	Apr 25	BL-16119	Check
						2,953.20	2,953.20			

Vendor	Due Date	Notes	Terms	Bill Total	Discount	Interest	Amount Due	Pavment	Invoice Number	Bill Number	Payment Type
Power & Tel - VEND-1037 - EFT File											
	5/17/2025		Net 30	220.72	0.00	15.00	220.72	220.72	8101847-00	BL-16121	EFT File
	5/22/2025	Jumper	Net 30	641.39	0.00	15.00	641.39	641.39	8095176-00	BL-16122	EFT File
	5/22/2025	TRAY - FOSCACC A	Net 30	282.44	0.00	15.00	282.44	282.44	8096550-01	BL-16123	EFT File
	5/25/2025	Module Splitter	Net 30	1,687.26	0.00	15.00	1,687.26	1,687.26	8072460-01	BL-16124	EFT File
	5/29/2025	PG NIDS	Net 30	4,387.52	0.00	15.00	4,387.52	4,387.52	8096514-01	BL-16120	EFT File
							7,219.33	7,219.33			
POWER LINE SUPPLY - VEND-103039 - EFT File											
	4/26/2025	Connectors	Open Terms	120.44	0.00	0.00	120.44	120.44	56891678	BL-16126	EFT File
	5/2/2025	Connector	Open Terms	546.98	0.00	0.00	546.98	546.98	56893061	BL-16160	EFT File
							667.42	667.42			
RESCO - VEND-47234 - EFT File											
	4/22/2025	Connectors	Open Terms	288.90	0.00	0.00	288.90	288.90	3069744	BL-16161	EFT File
							288.90	288.90			
Secure Shred - VEND-1063 - EFT File											
	5/23/2025	Shred Service	Net 30	54.00	0.00	15.00	54.00	54.00	92807	BL-16129	EFT File
							54.00	54.00			
Segra / Unite Private Networks - VEND-1054 - EFT File											
	5/31/2025	Dark Fiber	Net 30	3,817.18	0.00	15.00	3,817.18	3,817.18	SI-25-018743	BL-16130	EFT File
							3,817.18	3,817.18			
SKARSHAUG TESTING LABORATORY INC - VEND-50410 - EFT File											
	5/6/2025	PPE Testing	Open Terms	781.51	0.00	0.00	781.51	781.51	286137	BL-16131	EFT File
							781.51	781.51			
Skye McBroom - VEND-1026 - EFT File											
	5/31/2025	0525 Mobile Device Allowance	Net 30	75.00	0.00	15.00	75.00	75.00	May 25	BL-16048	EFT File
							75.00	75.00			
STERNQUIST CONST. INC. - VEND-50360 - BL-16132											
	5/7/2025	Square Project - Crushed Concrete	Open Terms	98.42	0.00	0.00	98.42	98.42	3873	BL-16132	Check
							98.42	98.42			
STERNQUIST CONST. INC. - VEND-50360 - BL-16133											

AP Check Preview

Date Range: All Dates

Indianola Municipal Utilities

Thursday, May 8, 2025
9:51:26 AM

Vendor Due Date	Notes	Terms	Bill Total	Discount	Interest	Amount Due	Pavment	Invoice Number	Bill Number	Payment Type
4/26/2025	Conduit Repairs - Crushed Concrete	Open Terms	194.30	0.00	0.00	194.30	194.30	3848	BL-16133	Check
						194.30	194.30			
Teklink - VEND-1262 - EFT File										
6/5/2025	Bore & Drop	Net 30	4,980.00	0.00	15.00	4,980.00	4,980.00	WE 4.27.25	BL-16136	EFT File
						4,980.00	4,980.00			
Terry-Durin Co - VEND-1038 - EFT File										
5/23/2025	Morris Clamps	Net 30	832.04	0.00	15.00	832.04	832.04	186349-00	BL-16138	EFT File
5/29/2025	Square Project - Street Light Shields	Net 30	124.12	0.00	15.00	124.12	124.12	179968-00	BL-16137	EFT File
						956.16	956.16			
TRM DISPOSAL LLC - VEND-101016 - EFT File										
4/25/2025	0525 Trash - Util Svcs	Open Terms	52.50	0.00	0.00	52.50	52.50	35538	BL-16134	EFT File
4/25/2025	0525 Recycle - Fiber/111 S Buxton	Open Terms	78.00	0.00	0.00	78.00	78.00	35539	BL-16135	EFT File
						130.50	130.50			
TrueNorth Companies LC - VEND-1100 - EFT File										
5/21/2025	April Safety Meeting	Net 30	138.47	0.00	15.00	138.47	138.47	175141	BL-16139	EFT File
						138.47	138.47			
VANDERPOOL CONSTRUCTION - VEND-57230 - Check										
4/12/2025	Square Project - Pea Gravel	Open Terms	218.00	0.00	0.00	218.00	218.00	13179	BL-16140	Check
4/12/2025	Pea Gravel	Open Terms	798.50	0.00	0.00	798.50	798.50	13192	BL-16141	Check
						1,016.50	1,016.50			
VEENSTRA & KIMM - VEND-57600 - Check										
4/26/2025	Engineering Svcs E 3rd St Water Main Improv	Open Terms	3,434.00	0.00	0.00	3,434.00	3,434.00	285115-5	BL-16142	Check
4/26/2025	Engineering Svcs Water Treatment Facility Sta	Open Terms	12,675.00	0.00	0.00	12,675.00	12,675.00	285114-1	BL-16143	Check
4/26/2025	Engineering Svcs Water Treatment Facility Filt	Open Terms	742.00	0.00	0.00	742.00	742.00	285113-3	BL-16144	Check
4/26/2025	Engineering Svcs Water Treatment Facility Lin	Open Terms	4,658.50	0.00	0.00	4,658.50	4,658.50	285112-7	BL-16145	Check
						21,509.50	21,509.50			
Vice Construction - VEND-1400 - Check										
6/1/2025	Square Project - Concrete Work	Net 30	6,760.00	0.00	15.00	6,760.00	6,760.00	4513	BL-16146	Check
						6,760.00	6,760.00			
VISION METERING LLC - VEND-103244 - Check										
4/16/2025	4S and 9S Meters	Open Terms	1,780.00	0.00	0.00	1,780.00	1,780.00	232562	BL-16147	Check

Vendor	Due Date	Notes	Terms	Bill Total	Discount	Interest	Amount Due	Pavment	Invoice Number	Bill Number	Payment Type
							1,780.00	1,780.00			
WESCO - VEND-60220 - EFT File											
4/23/2025	FIBER LOCATE PAINT	Open Terms	139.19	0.00	0.00	139.19	139.19	461649	BL-16148	EFT File	
4/26/2025	Locate Flags	Open Terms	399.65	0.00	0.00	399.65	399.65	466477	BL-16149	EFT File	
4/30/2025	Blue Marking Tape	Open Terms	71.37	0.00	0.00	71.37	71.37	469967	BL-16150	EFT File	
4/30/2025	Yellow Marking Tape	Open Terms	71.37	0.00	0.00	71.37	71.37	469968	BL-16151	EFT File	
5/1/2025	CT Meter Peds	Open Terms	810.18	0.00	0.00	810.18	810.18	472041	BL-16152	EFT File	
							1,491.76	1,491.76			
Wiegert Disposal Inc - VEND-1081 - EFT File											
5/31/2025	0425 Trash	Net 30	110.00	0.00	15.00	110.00	110.00	May25	BL-16153	EFT File	
							110.00	110.00			
WISI USA Inc. - VEND-1125 - EFT File											
5/29/2025	ASM Annual Support Renewal	Net 30	4,329.46	0.00	15.00	4,329.46	4,329.46	INU5883	BL-16154	EFT File	
							4,329.46	4,329.46			
Xylem Water Solutions - VEND-1471 - Check											
5/23/2025	Filter Media Project	Net 30	398,000.00	0.00	15.00	398,000.00	398,000.00	3556D71832	BL-16155	Check	
							398,000.00	398,000.00			
Total Payment Count: 88						Totals:	\$815,793.53	\$815,793.53			
Total Check Count: 34						Check Totals:	\$480,397.19	\$480,397.19			
Total EFT File Count: 48						EFT File Totals:	\$202,798.68	\$202,798.68			
Total Online Payments Count: 6				Online Payments Totals:		\$132,597.66	\$132,597.66				
Total Bank Draft Count: 0					Bank Draft Totals:		\$0.00	\$0.00			
Total No Check Count: 0					No Check Totals:		\$0.00	\$0.00			

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities
From:
Date: May 12, 2025
Subject: Approval of Minutes of the prior meetings

Recommendation:

Attachments: 1. 4-28-2025 Minutes-Published

IMU BOARD OF TRUSTEES OF THE ELECTRIC, WATER AND COMMUNICATIONS UTILITIES
April 28, 2025, 5:30 PM IMU Boardroom Minutes

The IMU Board of Trustees met in regular session at 5:30pm on April 28, 2025, in the IMU Conference Room. Board Chair Dom Selgrade called the meeting to order and on roll call the following members were present: Dom Selgrade, Deb White, Mike Rozga, Adam Voigts and Lori Smith. Absent: None

There was no **Public Comment**.

Rozga moved to approve the **Consent Agenda** White seconded it. On roll call, the vote was AYES: Selgrade, Smith, White, Rozga, Voigts. NAYS: None. Whereas the motion carried unanimously.

The consent agenda was as follows: **Approval of Claims, Approval of Minutes of the prior meetings, Resolution 2025-036 Pay Application 4 to Miller Electric for the Downtown Underground Conversion Project; West Alley Premise Wiring Project**

Electric Utility Action Items

Voigts moved to enter the **Public Hearing** regarding the plans, specifications, form of contract and estimate of cost for the **Downtown Underground Conversion Project North-West Alley Premise Wiring Modification**, and White seconded. On voice vote; Ayes: Selgrade, Smith, White, Rozga, Voigts Nays: None, motion passed unanimously. Rozga moved to exit the **Public Hearing** and Smith seconded. On Voice vote, Ayes: Selgrade, Smith, White, Rozga, Voigts; Nays: None, motion passed unanimously.

Voigts moved to approve **Resolution 2025-037 approving the final plans, specifications, form of contract and estimate of cost for Downtown Underground Conversion Project; North-West Alley Premise Wiring Modification** and White seconded. On roll call, Ayes: Selgrade, Smith, White, Rozga, Voigts; Nays: None, motion passed unanimously.

Rozga moved to approve the **Resolution 2025-038 approving and awarding the contract with Miller Electric for Downtown Underground Conversion Project North-West Alley Premise Wiring Modification** and Smith seconded. On Voice vote, Ayes: Selgrade, Smith, White, Rozga, Voigts; Nays: None, motion passed unanimously.

White moved to approve **Resolution 2025-039 Approving Turbine 8 Control Replacement-Certificate of Completion** and Smith seconded. In discussion, Metcalf discussed the change orders in detail. DesPlanques stated that the change orders were not related to the insurance claim. On roll call, Ayes: Selgrade, Smith, White, Rozga, Voigts; Nays: None, motion passed unanimously.

Electric Utility Informational Items

Electric Superintendent Mike Metcalf gave an update on the preparations for the water emissions project for Turbine 8. Crews are busy with construction projects including setting a large transformer at the high school and replacing transformers behind buildings

on the square using a crane company. He fielded questions about transformer purchases and noted the extended lead time for them, inventory needs and upcoming projects.

Water Utility Informational Items

Water Superintendent Justin Brand shared that the Filter Media Replacement project is done and fully operational, crews will complete the final concrete pour backs this week, start May hydrant flushing, and other seasonal projects.

Communications Utility Informational Items

Communications Superintendent Kurt Ripperger shared that fiber staff are busy with seasonal projects and scheduling 10 installs in the Rural NOFA 7 area and expect to have more once those are complete. Annual equipment updates are being completed. He, Skye Mc Broom, and Kurt Gocken attended the IAMU Conference, where former IMU General Manager Tom Gaffigan received the Vanguard Award, and staff were able to network with other communication utility providers and see new equipment and technology.

Combined Electric, Water and Communications Action Items

Smith moved to approve the **Resolution approving health insurance renewals for Fiscal Year 26** and White seconded. In discussion, DesPlanques reviewed the details discussed in the joint session with the city. Voigts noted multiple inaccuracies and ambiguous details in the memorandum and requested the documentation be returned to the city for correction and clarification. The motion was tabled, pending clarification and review of the related documents. No vote was taken.

Combined Electric, Water and Communications Informational Items

DesPlanques shared he had met with attorneys regarding information to be discussed in the exempt session, spoke with someone interested in serving on the IMU Board of Trustees, completed annual training, and noted that a representative from Sandhills Energy will present information regarding possible bat habitat DNR related complications or delays for the solar project at the next meeting.

There was no Other Business discussed.

Voigts moved to **Adjourn** at 5:54 pm, and White seconded. On Voice vote, Ayes: Selgrade, Smith, White, Rozga, Voigts; Nays: None, motion passed unanimously.

Key IMU staff and board members remained after adjournment for the Exempt Session.

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities
From:
Date: May 12, 2025
Subject: March 2025 Financial Report

Recommendation:

Attachments: 1. 0325 Financial Report

Water Utility Financial Summary
March 31, 2025

600 WATER OPERATING FUND

	FY24		
	Budget	YTD Actual	% of Budget
Water Service Sales	3,165,800	2,198,603	69.45%
Other Water Revenue	566,800	381,384	67.29%
Total Revenue:	3,732,600	2,579,986	
Water O&M Expense	2,234,273	1,555,790	69.63%
Water O&M Transfers Out	1,190,000	892,500	75.00%
YTD Depreciation		455,354	
Total Expense, Transfers & Depreciation:	3,424,273	2,903,643	
Beginning Net Position		14,444,384	
Net Surplus (Deficit)		(323,657)	
Ending Net Position		14,120,727	

700 WATER CAPITAL FUND

From Water Operations	1,190,000	892,500	75.00%
Total Transfers In:	1,190,000	892,500	
Water Capital Expense	1,205,000	572,316	47.50%
Total Expense:	1,205,000	572,316	
Beginning Net Position		2,965,943	
Net Surplus (Deficit)		320,184	
Ending Net Position		3,286,127	

780 WATER IMPROVE FUND

Beginning Net Position		75,000	
Net Surplus (Deficit)		0	
Ending Net Position		75,000	

WATER CASH ON HAND
(110 days or greater)

O&M	\$	273,860
Capital	\$	4,369,792
Debt Service	\$	75,000
393 days	\$	4,718,652

FY25		
Budget	YTD Actual	% of Budget
3,473,300	2,337,379	67%
587,684	414,923	71%
4,060,984	2,752,302	
2,301,497	1,600,384	70%
1,950,600	1,462,950	75%
	483,530	
4,252,097	3,546,864	
	14,593,603	
	(794,562)	
	13,799,041	

	Gallons Billed FY24-25	Gallons Billed FY23-24
July	40,148,770	36,713,420
August	32,039,780	33,852,270
September	36,328,770	35,871,910
October	29,663,780	39,773,580
November	38,582,090	31,508,750
December	30,586,980	32,279,650
January	27,084,640	26,695,880
February	25,627,380	26,057,390
March	26,746,450	28,398,290
April		
May		
June		
YTD TOTAL	286,808,640	291,151,140
	-1.5%	

	Inventory on Hand FY24-25	Inventory on Ha FY23-24
July	\$ 408,909	\$ 131,441
August	\$ 401,413	\$ 124,926
September	\$ 390,131	\$ 118,941
October	\$ 389,592	\$ 207,261
November	\$ 385,777	\$ 208,497
December	\$ 389,152	\$ 297,258
January	\$ 380,803	\$ 366,045
February	\$ 367,443	\$ 445,254
March	\$ 360,226	\$ 443,607
April		
May		
June		
YTD AVG	\$ 385,939	\$ 260,359
	48.2%	

IMU Admin/US Financial Summary
March 31, 2025

620 ADMIN & UTILITY SERVICES

	FY24			FY25		
	Budget	YTD Actual	% of Budget	Budget	YTD Actual	% of Budget
Admin/US Revenue	1,297,918	1,001,822	77.19%	1,409,493	1,104,348	78%
Total Revenue:	1,297,918	1,001,822		1,409,493	1,104,348	
Admin/US O&M Expense	1,297,918	934,539	72.00%	1,409,493	993,432	70%
YTD Depreciation		26,544			26,544	
Total Expense, Transfers & Depreciation:	1,297,918	961,083		1,409,493	1,019,976	
Beginning Net Position		203,175			181,343	
Net Surplus (Deficit)		40,739			84,372	
Ending Net Position		243,914			265,715	
855 LIABILITY INS FUND						
Beginning Net Position		9,099			9,099	
Net Surplus (Deficit)		0			0	
Ending Net Position		9,099			9,099	

US/ADMIN CASH ON HAND

O&M \$ 557,061

Electric Utility Financial Summary
March 31, 2025

630 ELECTRIC OPERATING FUND

	FY24			FY25		
	Budget	YTD Actual	% of Budget	Budget	YTD Actual	% of Budget
Electric Service Sales	15,927,772	12,782,587	80.25%	16,405,606	12,910,038	79%
Other Electric Revenue	1,883,900	1,253,874	66.56%	2,043,100	1,600,558	78%
Total Revenue:	17,811,672	14,036,461		18,448,706	14,510,596	
Electric O&M Expense	16,178,121	10,521,207	65.03%	16,893,220	11,732,315	69%
Electric O&M Transfer Out	3,653,672	2,740,254	75.00%	1,981,202	1,798,401	91%
YTD Depreciation		1,225,102			1,242,374	
Total Expense, Transfers & Depreciation:	19,831,793	14,486,563		18,874,422	14,773,090	
Beginning Net Position		35,046,761			33,316,174	
Net Surplus (Deficit)		(450,102)			(262,494)	
Ending Net Position		34,596,659			33,053,680	

730 ELECTRIC CAPITAL FUND

Electric Capital Revenue	1,237,500	1,395,954	112.80%	1,274,100	1,227,329	96%
From Electric Operations	2,500,000	1,875,000	75.00%	1,250,000	1,250,000	100%
Total Revenue and Transfers In:	3,737,500	3,270,954		2,524,100	2,477,329	
Electric Capital Expense	2,886,300	708,923	24.56%	2,579,400	1,598,667	62%
Total Expense:	2,886,300	708,923		2,579,400	1,598,667	
Beginning Net Position		8,062,135			11,764,299	
Net Surplus (Deficit)		2,562,031			878,662	
Ending Net Position		10,624,166			12,642,962	

793 ELECTRIC DEBT SERVICE

From Electric Operations	1,153,672	865,254	75.00%	731,202	548,402	75%
Total Transfers In:	1,153,672	865,254		731,202	548,402	
Electric Debt Service	1,153,672	292,683	25.37%	731,202	618,339	85%
Total Expense:	1,153,672	292,683		731,202	618,339	
Beginning Net Position		1,368,865			1,379,914	
Net Surplus (Deficit)		572,571			(69,938)	
Ending Net Position		1,941,436			1,309,977	

ELECTRIC CASH ON HAND

(110 days or greater)

331 days

O&M	\$	7,101,776
Capital	\$	9,928,912
Debt Service	\$	1,309,977
	\$	18,340,664

	Kwhs Billed FY24-25	Kwhs Billed FY23-24
July	11,504,883	10,450,789
August	11,693,918	11,547,802
September	12,751,518	12,959,519
October	11,534,130	12,753,605
November	10,618,514	9,208,467
December	8,582,354	9,085,696
January	9,584,636	8,889,231
February	9,858,876	9,730,261
March	10,248,255	10,012,491
April		
May		
June		
YTD TOTAL	96,377,084	94,637,861
	1.8%	

	Inventory on Hand FY24-25	Inventory on Hand FY23-24
July	\$ 1,678,539	\$ 1,276,213
August	\$ 1,646,986	\$ 1,337,147
September	\$ 1,656,391	\$ 1,396,439
October	\$ 1,711,813	\$ 1,422,195
November	\$ 1,681,717	\$ 1,462,286
December	\$ 1,655,261	\$ 1,527,687
January	\$ 1,704,400	\$ 1,570,204
February	\$ 1,874,764	\$ 1,554,941
March	\$ 2,057,188	\$ 1,544,421
April		
May		
June		
YTD AVG	\$ 1,740,784	\$ 1,454,615
	19.7%	

Fiber Utility Financial Summary
March 31, 2025

640 FIBER OPERATING FUND

	FY24			FY25		
	Budget	YTD Actual	% of Budget	Budget	YTD Actual	% of Budget
Fiber Service Sales	4,823,000	3,614,498	74.94%	5,230,000	3,902,833	75%
Other Fiber Revenue	662,050	430,412	65.01%	410,050	242,583	59%
Total Revenue:	5,485,050	4,044,910		5,640,050	4,145,416	
Fiber O&M Expense	3,574,751	2,572,596	71.97%	3,627,836	2,694,499	74%
Fiber O&M Transfer Out	1,473,246	1,155,643	78.44%	2,022,828	1,537,666	76%
YTD Depreciation		270,985			282,990	
Total Expense, Transfers & Depreciation:	5,047,997	3,999,223		5,650,664	4,515,155	
Beginning Net Position		(3,464,668)			(2,673,110)	
Net Surplus (Deficit)		45,687			(369,739)	
Ending Net Position		(3,418,981)			(3,042,849)	

740 FIBER CAPITAL FUND

Fiber Capital Revenue	0	9,723			1,806	
From Fiber Operations	310,833	310,833	100.00%	896,300	692,770	77%
Total Revenue and Transfers In:	310,833	320,556		896,300	694,576	
Fiber Capital Expense	2,026,500	1,432,310	70.68%	1,121,300	466,223	42%
YTD Depreciation		193,884			265,503	
Total Expense, Transfers & Depreciation:	2,026,500	1,626,194		1,121,300	731,727	
Beginning Net Position		938,067			984,304	
Net Surplus (Deficit)		(1,305,638)			(37,151)	
Ending Net Position		(367,571)			947,153	

795 FIBER DEBT SERVICE

From Fiber Operations	1,126,413	844,810	75.00%	1,126,528	844,896	75%
Total Transfers In:	1,126,413	844,810		1,126,528	844,896	
Fiber Debt Service	1,126,413	176,936	15.71%	1,126,528	167,611	15%
Total Expense:	1,126,413	176,936		1,126,528	167,611	
Beginning Net Position		0			4,668	
Net Surplus (Deficit)		667,874			677,285	
Ending Net Position		667,874			681,953	

*Fund 640 Ending Fund Balance	(2,751,107)	(2,360,896)
*Fund 740 Ending Fund Balance	(367,571)	947,153
	(3,118,679)	(1,413,743)

FIBER CASH ON HAND

O&M	\$ 41,945
Capital	\$ 317,755
Debt Service	\$ 681,953
65 days	\$ 1,041,652

	Subscriptions FY24-25	Subscriptions FY23-24	YOY Increase %
July	4,177	3,872	7.9%
August	4,204	3,908	7.6%
September	4,230	3,930	7.6%
October	4,268	3,963	7.7%
November	4,290	3,975	7.9%
December	4,280	3,987	7.3%
January	4,319	4,016	8%
February	4,327	4,040	7%
March	4,355	4,071	7%
April			
May			
June			
YTD AVG	4,272	3,974	7.5%

	Inventory on Hand FY24-25	Inventory on Hand FY23-24	YOY Increase %
July \$	1,819,505	\$ 1,858,586	-2.1%
August \$	1,823,670	\$ 1,878,531	-2.9%
September \$	1,875,146	\$ 1,859,378	0.8%
October \$	1,857,023	\$ 1,843,233	0.7%
November \$	1,886,575	\$ 1,842,936	2.4%
December \$	1,896,759	\$ 1,853,822	2.3%
January \$	2,013,491	\$ 1,859,947	8.3%
February \$	2,028,932	\$ 1,882,714	7.8%
March \$	2,057,532	\$ 1,876,572	9.6%
April			
May			
June			
YTD AVG \$	1,917,626	\$ 1,861,747	3.0%

The Fiber Utility fund has a deficit fund balance of (\$1,413,743).
The deficit fund balance is the result of start-up costs incurred to initiate the utility service.
The deficit will be eliminated in future periods through net customer charges.

March 2025

You should expect to see YTD revenue and expenses to be 9/12 (or 75%) of Budget.

Health Insurance Fund Balance on March 31, 2025 is \$2,707,335

Water and Electric service revenue may fall ahead or behind budget due to seasonal fluctuations.

We are reporting each departments net position, which is cash and all other assets (such as billing receivables and capital assets) less accumulated depreciation and liabilities.

Cash on Hand - 110 days or more of cash on hand based on the recommended 90-120 days to maintain our bond rating (A-).

This report is on a modified cash basis, with monthly (non-cash) depreciation included.

Water Notes: Capital expenses may fall ahead or behind budget due to timing of project completion and payments.

US/Admin Notes: The 620 fund is intended to be a zero balance fund and doesn't have any significant stand alone obligations. Any balance or deficit here is timing related or is city services collected from the current month to be transferred in the following month.

Electric Notes: Capital revenue ahead of budget due to customer paid projects paid up front, expenses will offset as projects are completed. Capital expenses may fall ahead or behind budget due to timing of project completion and payments.

Fiber Notes: O&M Other revenue behind budget due to NOFA grant dollars not received yet and the Indianola Schools dark fiber installation not completed yet. This revenue will now likely be received in FY26, and FY25 expenses are being closely tracked and adjusted accordingly
Inventory on hand includes both customer premise equipment, \$1,775,742 and stock supply inventory, \$281,790
Capital expenses may fall ahead or behind budget due to timing of project completion and payments.

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities

From:

Date: May 12, 2025

Subject: Resolution Authorizing potential change orders for the East Iowa Circuit Switcher Replacement Project

Recommendation:

Attachments:

1. Circuit Breaker Tariff Change Order Recommendation 2025-05-07
2. Resolution Authorizing Potential Tariff Related Change Orders for the East Iowa Circuit Switcher Replacement Project

May 7, 2025

Mr. Mike Metcalf
Indianola Municipal Utilities
210 West 2nd Ave
Indianola, Iowa 50125

Re: Change Order for East Iowa Circuit Breaker Procurement Contract -
Tariffs

Dear Mike,

Irby has requested a change order from IMU in the amount of \$12,716.00 to cover increased import tariffs incurred by the manufacturer, Siemens, of the 69kV circuit breakers that have been ordered to replace CK601 and CK602 at East Iowa. This is intended to cover import tariffs enacted in February and April 2025 and is described in more detail in the attachments.

The circuit breakers were originally ordered in July 2024.

Contract Terms

Paragraph 5.03C of the General Conditions provides:

Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of performance shall be the subject of an adjustment in Contract Price or Contract Times. If Buyer and Seller are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 9.06.

Laws and Regulations are defined in Paragraph 1.01A.22 of the General Conditions as follows:

Laws and Regulations; Laws or Regulations—Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

P&E is unable to provide legal advice, however, I believe that it would be reasonable to interpret the new import tariffs as a change in laws or regulations and that a change order is justified.

May 7, 2025
Mr. Mike Metcalf
Page 2 of 2

Project Status

This project was initiated when CK601 failed to close and repair parts were unavailable. While a procedure does exist to manually close the circuit switcher, IMU has decided that it will only be used in an emergency which leaves 6T1, one of three 69-13kV transformers on the IMU system, out of service except in emergencies.

Irby has indicated to IMU that Siemens will cancel the order if the change order is not accepted and Irby states that they are not in a position to absorb the tariffs. If IMU will not agree to a change order, Irby has stated that they will cancel the order. Because CK601 has failed and replacement parts are not available, the circuit breakers would need to be rebid and delivery would be delayed.

Summary

I believe that it is in the best interests of the project and consistent with the contract documents to accept the proposed change order.

Please let me know if you have any questions or would like to discuss any aspects of this project.

Sincerely,



Jared Kline, P.E.



Thursday, April 10, 2025

STUART C IRBY COMPANY
5554 NE 16TH ST
DES MOINES, IA 50313

RE: HV CIRCUIT BREAKER NOTICE OF TARIFF IMPACT AND REQUEST FOR CHANGE ORDER(S)

Dear Valued Customer,

We are sending this notification because the referenced order(s) include(s) goods impacted by one or more of the various tariffs which have been enacted by the government of the United States of America. These newly enacted tariffs impact the following:

- Goods imported from Canada, China, and Mexico resulting from tariffs enacted via Presidential Executive Orders issued on February 1, 2025, and reciprocal tariffs on China enacted via Presidential Executive Order on April 2, 2025, and as of April 9, 2025.
- Imports of steel, aluminum and certain derivatives thereof resulting from tariffs enacted via Presidential Executive Orders issued on February 10th and 11th 2025.

As Siemens Energy, Inc. ("SEI") is responsible for the payment of any tariffs pursuant to the underlying purchase order(s) or contract(s), this letter serves as SEI's notice of its intent to seek reimbursement and requesting change order(s).

Please see attached detail of your purchase order(s) and corresponding new tariff amounts to add as a separate line item for each purchase order's item. This amount has been carefully calculated to represent only the actual impact to our costs, and only for the affected products and product quantities. Should the situation change, and the tariffs be reduced, rescinded or increased, we will adapt the billing line as appropriate.

For all your purchase orders originally committed for deliveries up to April 2025 but delayed to the following months in 2025, Siemens Energy Inc. will not be seeking reimbursement as the delay is on SEI's account and customers should not be responsible.

Due to the fluid nature of the tariffs and to minimize future change order requests on the backlog, we ask that change orders are implemented for deliveries from May 1st through December 31st, 2025, currently. In July 2025, the tariff situation will be assessed and remaining POs for future years will need to be changed accordingly.

Please issue change-orders for each purchase order(s) listed including the requested line items and amounts for billing purposes.

Thank you in advance for your understanding and support.

Sincerely,

Naeem Siddiqui
Head of Offer Management
Switchgear Americas

Siemens Energy Inc. 444 Highway 49 South, Richland, MS 39218

Restricted

Appendix

Purchase order number	Purchase order date	Sales Document	Line Item	Description	Quantity	Current Shipping Date	Tariff Impact Of Line Item Quantity
S013989557	6/26/2024	75021338	10	SPS2-72.5-40-1200-3PST	2	11/10/2025	\$ 12,716.00

IMU staff and P&E Engineering received the following email from Irby in reference to the breakers for the East Iowa breakers.

Good morning Jared and Indianola group. The attached tariff letter was sent to us from Siemens in regard to your circuit breaker order you currently have with them. This Tariff increase would be for the full order and not per unit. I will need to send Siemens a change order increasing by \$12,716.00. I will also need a change order from Indianola or at minimum a confirmation email acknowledging this increase will be on the invoice when it ships.

I will wait for a response from you before getting back to Siemens.

Thanks,

Justin Thiry

Strategic Accounts Coordinator

Montana, North Dakota, Wyoming

South Dakota, Nebraska, Iowa



IMU staff asked Irby to go back and review the contract and report back. This is what we received.

We have run this up the flagpole and below is what is recommended to submit to the board in reference to your Siemens Circuit Breaker order. The tabulation in the chart is per unit. You are welcome to provide us with the feedback from the board, but Siemens nor Irby can absorb this added expense.

On February 10, 2025, the President issued Proclamations 10895, "Adjusting Imports of Aluminum into The United States" (Aluminum Proclamation), and 10896, "Adjusting Imports of Steel into the United States" (Steel Proclamation), imposing specified rates of duty on imports of aluminum and steel articles and certain derivative steel and aluminum articles, respectively (collectively, the Inclusions Proclamations).

Siemens has offered the following as justification to the change:

Rating	Country Abbreviation	Country	Tariff % Considered	\$\$ Impact Per BOM By Country	% Contribution By Country
SPS2 72.5-40-3000	CA	Canada	25%	\$ -	0.0%
	CH	Switzerland	0%	\$ -	0.0%
	CN	China	145%	\$ 1,567.92	24.7%
	DE	Germany	0%	\$ -	0.0%
	HU	Hungary	0%	\$ -	0.0%
	IN	India	0%	\$ -	0.0%
	IT	Italy	0%	\$ -	0.0%
	MX	Mexico	25%	\$ 3,043.84	47.9%
	US	Domestic Impact From Secondary and Tertiary Supply Chain	15%	\$ 1,745.76	27.5%
Total				\$ 6,357.52	100%

Cory Scheibly
Public Power
Sr Utility Account Manager
Iowa & Northeast Missouri

Indianola Municipal Utilities
RESOLUTION NO.

**RESOLUTION AUTHORIZING POTENTIAL TARIFF RELATED CHANGE ORDERS FOR THE EAST IOWA
CIRCUIT SWITCHER REPLACEMENT PROJECT**

WHEREAS, the IMU Board of Trustees have deemed it necessary and approved plans and contract for the East Iowa Switcher Replacement Project; and

WHEREAS, the cost of certain required equipment, goods and materials may be impacted by tariff changes; and

WHEREAS, change orders may need to be issued and expedited to encompass the changing tariff costs of imported goods and materials needed for the project outlined above; and

WHEREAS, Project Engineers have issued a recommendation that the board authorize potential tariff related change orders for the East Iowa Circuit Switcher Replacement Project.

NOW, THEREFORE, BE IT RESOLVED BY THE IMU BOARD OF TRUSTEES OF INDIANOLA, IOWA,
That any change orders exclusively related to price changes impacted by changing tariff rates be authorized and approved.

PASSED AND APPROVED this 12th Day of May 2025

Dom Selgrade, Chairperson

ATTEST:

Monica Thompson, Board Secretary

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities
From:
Date: May 12, 2025
Subject: Public Hearing for East 3rd Avenue Water Main Improvements Project

Recommendation:

1. Public hearing regarding the plans, specifications, form of contract and estimate of cost.

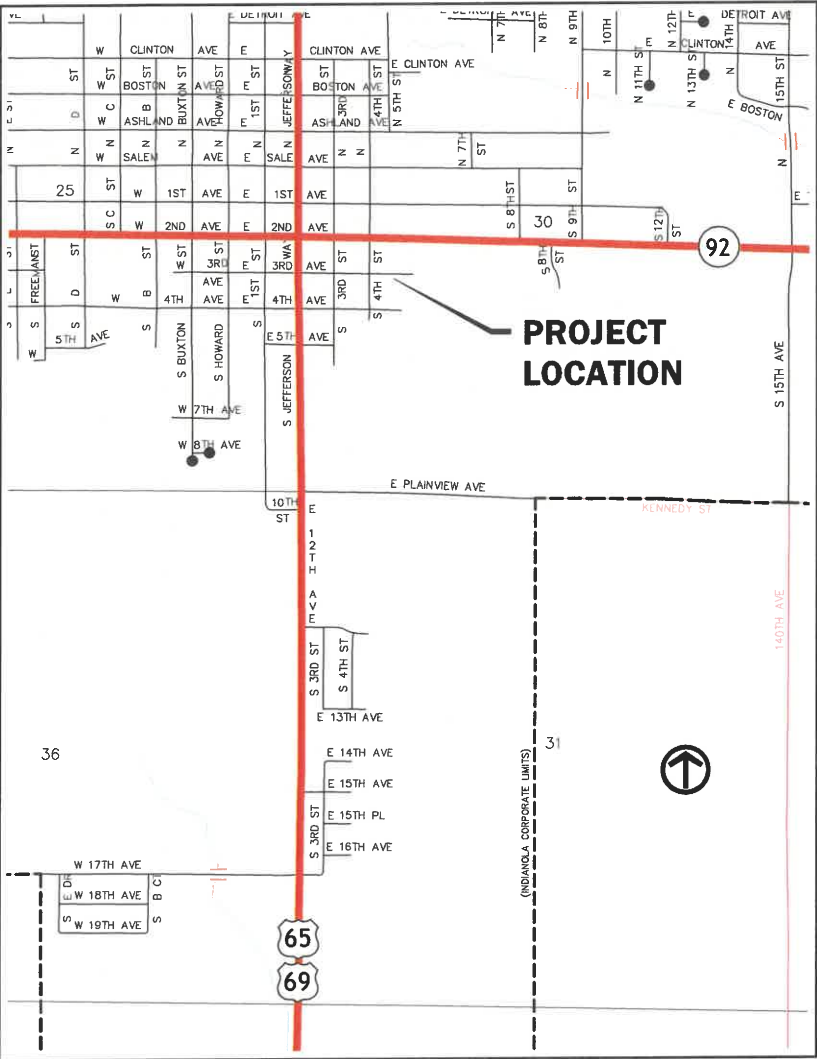
Agenda document is the plans, specifications, form of contract and estimate of cost.

The board action is to open the public hearing, take any public or staff comment, and then to close the public hearing.

- Attachments:**
1. 285115 Plans
 2. 285115 Specs
 3. 285115 Official Bid
 4. 285115 Engineer's Estimate

PLOTTED: Wednesday, April 23, 2025 1:51:08 PM

PLANS FOR E 3RD AVENUE WATER MAIN IMPROVEMENTS INDIANOLA MUNICIPAL UTILITIES INDIANOLA, IOWA



Sheet List Table	
Sheet Number	Sheet Title
A.1	INDEX AND TITLE SHEET
A.2	GENERAL NOTES AND LEGEND
MWM.1	WATER MAIN PLAN



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Forrest S. Aldrich 4/23/2025
SIGNATURE DATE

NAME: FORREST S. ALDRICH, P.E.
LICENSE NUMBER: 12248
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025
PAGES OR SHEETS COVERED BY THIS SEAL:
ALL



X-REFS: indianola-ci
FILE PATH:

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	CVOTE
		CHECKED	VDRISSCOLL
		APPROVED	FALDRICH
		DATE	4-23-2025
		ISSUED FOR	REVIEW/CONST?



E 3RD AVENUE WATER MAIN IMPROVEMENTS
INDIANOLA MUNICIPAL UTILITIES

6775 Vista Drive • West Des Moines, Iowa 50266
515-225-8000 • 515-255-7848(FAX) • 800-241-8000(WATS)

INDEX AND TITLE SHEET

SHEET NO.

A.1

PROJECT 285115

PLOTTED: Wednesday, April 23, 2025 1:51:07 PM

GENERAL LEGEND

	SURVEY LINE & STATION INDICATOR		CULVERT; SIZE AND TYPE
	CONCRETE SURFACE		FLARED END SECTION
	ASPHALT SURFACE		RAILROAD
	CONCRETE W/ASPHALT OVERLAY		MAILBOX
	LOW GRADE ASPHALT SURFACE		FENCE (MISC.)
	GRANULAR SURFACE		SECURITY FENCE
	DIRT SURFACE		WOOD FENCE
	BRICK SURFACE		SILT FENCE
	SURFACING REMOVAL/REPLACEMENT		CHAIN LINK FENCE
	EARTH SECTION		PROPERTY LINE
	NEW SEWER/MANHOLE		PROPERTY PIN
	NEW SEWER/INTAKE		SECTION CORNER
	NEW WATER MAIN		PLAT BOUNDARY
	NEW FORCE MAIN		BUILDING
	NEW HYDRANT		ELEVATION MARKER
	NEW WATER VALVE		CENTERLINE
	EXISTING SANITARY SEWER AND SIZE		DIAM.
	EXISTING STORM SEWER AND SIZE		ELEV.
	EXISTING WATER MAIN AND SIZE		PVC
	EXISTING FORCE MAIN AND SIZE		CAST IRON PIPE
	GAS MAIN AND SIZE		DUCTILE IRON PIPE
	UNDERGROUND POWER LINE		CORRUGATED METAL PIPE
	OVERHEAD POWER LINE		VITRIFIED CLAY PIPE
	UNDERGROUND TELEPHONE LINE		REINFORCED CONCRETE PIPE
	CABLE TELEVISION LINE		REINFORCED CONCRETE ARCH PIPE
	FIBER OPTICS		LINED REINFORCED CONCRETE PIPE
	TOP OF EMBANKMENT		LINED CONCRETE PRESSURE PIPE
	TOE OF EMBANKMENT		STATION
	DRAINAGE COURSE		LINE AHEAD
	SANITARY MANHOLE		LINE BACK
	STORM WATER MANHOLE		BENCH MARK AND NUMBER
	ELECTRIC MANHOLE		RIGHT-OF-WAY
	TELEPHONE MANHOLE		POINT OF INTERSECTION
	WATER MANHOLE		POINT ON TANGENT
	CURB INTAKE		LINEAR FEET
	AREA OR BEEHIVE INTAKE		TACKED HUB
	EXISTING HYDRANT		SOIL BORING AND NUMBER
	EXISTING WATER VALVE		POINT OF VERTICAL CURVATURE
	GAS VALVE		POINT OF VERTICAL TANGENCY
	UTILITY POLE		VERTICAL CURVE
	GUY ANCHOR		POINT OF CURVATURE
	STREET LIGHT		POINT OF TANGENCY
	SIGN		MIDDLE ORDINATE
	TELEPHONE CABLE JUNCTION BOX		DRAWING
	TRAFFIC SIGNALS		CONTROL POINT AND NUMBER
	PEDESTRIAN CONTROL LIGHT		TYPICAL
	RAILROAD CONTROL LIGHT		HIGH PRESSURE GAS
	RAILROAD SIGN		INTERMEDIATE PRESSURE GAS
	UTILITY ACCESS COVER		INVERT
	PARKING METER		EACH WAY, EACH FACE
	TREE		EACH WAY
	EVERGREEN		AT
	STUMP		DRAWING NUMBER
	BUSH, SHRUB OR HEDGE		

NOTE: THIS IS A GENERAL LEGEND. ITEMS MAY OR MAY NOT APPEAR ON DRAWINGS.

GENERAL NOTES

1. ALL ELEVATIONS ARE TO NAVD 88 DATUM.
2. ALL NORTHING AND EASTING COORDINATES ARE TO NAD 83, IOWA STATE PLANE COORDINATE SYSTEMS - SOUTH ZONE (1402) / NORTH ZONE (1401).
3. REMOVE AND REPLACE ALL STREET SIGNS AS DIRECTED BY ENGINEER. COST IS INCIDENTAL TO CONSTRUCTION.
4. SHAPE ALL DITCHES TO DRAIN AFTER CONSTRUCTION.
5. CONFIRM LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS REQUIRED TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. ALLOW UTILITY PERSONNEL TO RELOCATE UTILITIES WHERE CONFLICTS OCCUR.
6. DO NOT INTERRUPT EXISTING UTILITIES OR INDIVIDUAL SERVICES UNLESS DIRECTED BY ENGINEER.
7. LOCATIONS OF CONSTRUCTION LIMIT LINES SHOWN ON PLANS ARE APPROXIMATE. ENGINEER WILL LOCATE CONSTRUCTION LIMITS IN FIELD. CONFINE ALL CONSTRUCTION OPERATIONS, INCLUDING ACCESS TO WORK, TO CONSTRUCTION LIMITS.
8. SET MANHOLE COVERS, VALVE BOXES AND STRUCTURES FLUSH WITH PROPOSED GRADES UNLESS OTHERWISE NOTED.
9. STATIONING IS ALONG CENTER LINE OF WATER MAIN, UNLESS OTHERWISE NOTED.
10. PROTECT UTILITY POLES, LINES AND APPURTENANCES NOT SHOWN FOR RELOCATION.
11. RESET ALL PROPERTY PINS DISTURBED BY CONSTRUCTION; PINS RESET BY REGISTERED LAND SURVEYOR; COST IS INCIDENTAL TO CONSTRUCTION.
12. PROTECT ALL SURFACING, NOT INDICATED BY SHADING FOR REMOVAL AND REPLACEMENT FROM DAMAGE DURING CONSTRUCTION.
13. REPLACE WATER SERVICES IN DIRECT CONFLICT WITH NEW PIPE WITH NEW SERVICES FROM MAIN TO CURB STOP. PLUG EXISTING SERVICE AT MAIN; CONSTRUCT STORM SEWER UNDER EXISTING SERVICES WITH ADEQUATE CLEARANCE.

PROTECTION OF VEGETATION

TREES AND OTHER VEGETATION WHICH MAY BE REMOVED ARE MARKED WITH AN "X" OVER THE APPROPRIATE SYMBOL. FOR EXAMPLE 12" INDICATES THE REMOVAL OF A 12" TREE. REPLACEMENT, BY CONTRACTOR, OF THESE ITEMS IS NOT REQUIRED. TUNNEL, INSTALL TIGHT SHEETING, HAND EXCAVATE OR EMPLOY OTHER MEANS APPROVED BY ENGINEER TO PROTECT EXPOSED PORTIONS AND ROOT SYSTEMS OF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL. IF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL ARE DAMAGED DURING CONSTRUCTION, REPLACE IN KIND AND SIZE AT NO COST TO CITY OR PROPERTY OWNER.

Subsurface Utility Quality Levels	
Level	Description
QL A	Process of designating and locating using non-destructive vacuum excavation techniques. This is the most accurate level of measurement and yields good 3D positions of subsurface utilities.
QL B	Obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities.
QL C	Uses on surface features to predict the utility location obtained by surveying and plotting visible above-ground utility features and by using professional judgement in correlating this information to Quality Level D.
QL D	Obtained by integrating existing records, atlases, or oral recollections of the locations of existing subsurface utilities. This is the least reliable method of utility location and is often inaccurate and not up to date.
ASE is capable and experienced in all Quality Levels of SUE	

X:REFS: indianola-ci
FILE PATH:

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	CVOTE
		CHECKED	VDRISCOLL
		APPROVED	FALDRICH
		DATE	4-23-2025
		ISSUED FOR	REVIEW/CONST?

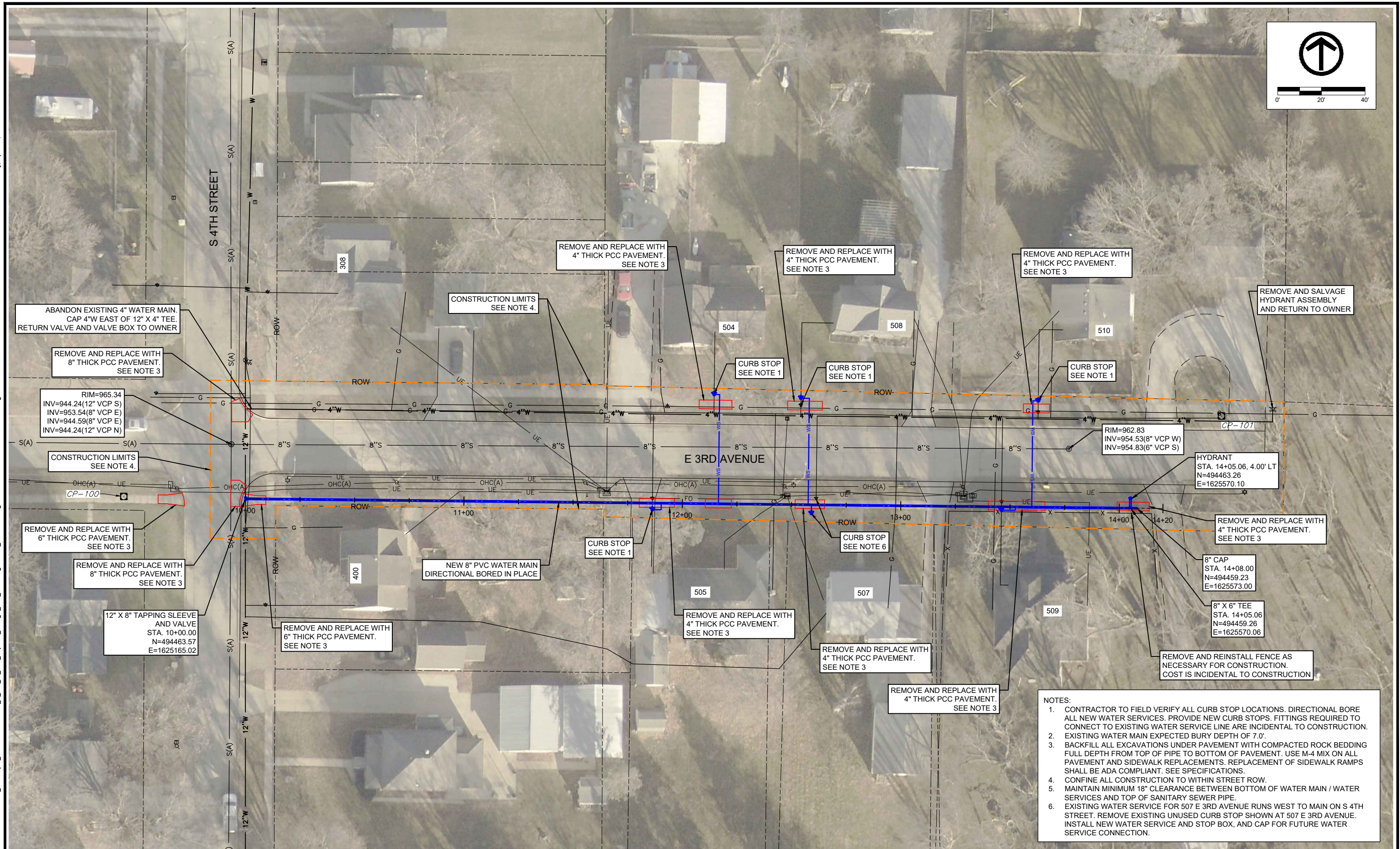


E 3RD AVENUE WATER MAIN IMPROVEMENTS
INDIANOLA MUNICIPAL UTILITIES

6775 Vista Drive • West Des Moines, Iowa 50266
515-225-8000 • 515-255-7848(FAX) • 800-241-8000(WATS)

GENERAL NOTES AND LEGEND

SHEET NO.	
A.2	
PROJECT	285115



DATE	REVISIONS	SCALE	AS NOTED	 VEENSTRA & KIMM INC.	E 3RD AVENUE WATER MAIN IMPROVEMENTS INDIANOLA MUNICIPAL UTILITIES	WATER MAIN PLAN	SHEET NO.
		DRAWN	CVOTE				6775 Vista Drive • West Des Moines, Iowa 50266-9305 515-225-8000 • 515-255-7848(FAX) • 1-800-241-8000
		CHECKED	VDRISCOLL				
		APPROVED	FALDRICH				
		DATE	4-23-2025				
		ISSUED FOR	REVIEW/CONST?		PROJECT		285115

SPECIFICATIONS

FOR

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS

INDIANOLA MUNICIPAL UTILITIES

INDIANOLA, IOWA

SPECIFICATIONS
FOR
EAST 3RD AVENUE WATER MAIN IMPROVEMENTS
INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.



Signed:

Date:

Forrest S. Aldrich

4/23/2025

Forrest S. Aldrich, P.E.

Iowa License No. 12248

My license renewal date is December 31, 2025

Detailed parts covered by this seal:

All

Prepared by
VEENSTRA & KIMM, INC.
West Des Moines, Iowa

INDEX

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS
INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA

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NOTICE OF PUBLIC HEARING

NOTICE OF PUBLIC HEARING ON PLANS AND SPECIFICATIONS, PROPOSED FORM OF CONTRACT AND ESTIMATE OF COST FOR CONSTRUCTION OF THE EAST 3RD AVENUE WATER MAIN IMPROVEMENTS FOR THE INDIANOLA MUNICIPAL UTILITIES, INDIANOLA, IOWA.

At 5:30 P.M. on the 12th day of May, 2025, the Board of Trustees of said Utilities will, in said Board Room, hold a hearing and said Board proposes to adopt plans, specifications, form of contract and estimate of cost and, at the time, date and place specified above, or at such time, date and place as then may be fixed, to act upon proposals and enter into a contract for the construction of the following improvements:

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS

Construct East 3rd Avenue Water Main Improvements including all labor, materials and equipment necessary for approximately 400 linear feet of 8-inch directionally bored water main, water services, hydrants, valves, surface restoration and miscellaneous associated work, including cleanup.

The project is located on E. 3rd Avenue, east of S. 4th Street.

At said hearing, the Board of Trustees will consider the plans, specifications, proposed form of contract, and estimated total cost for the project, the same now being on file in the office of the Clerk, reference to which is made for a more detailed and complete description of the proposed improvements, and at said time and place the said Board will also receive and consider any objections to said plans, specifications, estimate of cost and form of contract made by any interested party.

This notice is given by order of the Board of Trustees of Indianola Municipal Utilities, Indianola, Iowa.

BOARD OF TRUSTEES
INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA

Dom Selgrade, Chairperson

Attest:

Monica Thompson, Board of Trustees Secretary

NPH-1

285115

NOTICE TO BIDDERS

NOTICE OF TAKING BIDS FOR THE CONSTRUCTION OF THE EAST 3RD AVENUE WATER MAIN IMPROVEMENTS FOR THE INDIANOLA MUNICIPAL UTILITIES, INDIANOLA, IOWA.

Sealed proposals shall be filed with the Clerk of the Indianola Municipal Utilities in the Board Room of the Indianola Municipal Building, 210 W. 2nd Avenue, Indianola, Iowa before 2:00 P.M. local time on the 8th day of May, 2025 for the construction of the East 3rd Avenue Water Main Improvements, and work incidental thereto, as described in the plans and specifications therefor, now on file in the office of the Clerk. Proposals will be opened and the amount of the bids announced in said Board Room by the Clerk at the time and date specified above.

Proposals will be acted upon by the Board of Trustees of Indianola Municipal Utilities at 5:30 P.M. on the 12th day of May, 2025, or at such later time and place as then may be fixed.

The work to be done is as follows:

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS

Construct East 3rd Avenue Water Main Improvements including all labor, materials and equipment necessary for approximately 400 linear feet of 8-inch directionally bored water main, water services, hydrants, valves, surface restoration and miscellaneous associated work, including cleanup.

All work and materials are to be in accordance with the proposed plans, specifications, form of contract and estimate of cost now on file in the office of the Clerk of said Utilities and by this reference made a part thereof as though fully set out and incorporated herein.

All proposals and bids in connection therewith shall be submitted to the Clerk of said Utilities on or before the time herein set for said receipt of bids. All proposals shall be made on official bidding blanks furnished by the Board, and any alterations in the official form of proposal will entitle the Board, at its option, to reject the proposal involved from consideration. Each proposal shall be sealed and plainly identified.

Each proposal shall be made out on a blank form furnished by the utility and must be accompanied by bid security, as follows: a certified or cashier's check, drawn on a solvent Iowa bank or a bank chartered under the laws of the United States or a certified share draft drawn on a credit union in Iowa or chartered under the laws of the United States, in an amount equal to five percent (5%) of the bid, or a bid bond executed by a corporation authorized to contract as a surety in the State of Iowa in a penal sum of five percent (5%) of the bid.

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Notice to Bidders

The bid security should be made payable to the INDIANOLA MUNICIPAL UTILITIES. The bid security must not contain any conditions either in the body or as an endorsement thereon. The bid security shall be forfeited to the Board as liquidated damages in the event the successful bidder fails or refuses to enter into a contract within 10 days after the award of contract and post bond satisfactory to the Board insuring the faithful fulfillment of the contract and the maintenance of said work, if required, pursuant to the provisions of this notice and the other contract documents. Bidders will use the bid bond form included in the specifications.

In accordance with Iowa statutes, a resident bidder shall be allowed a preference as against a nonresident bidder from a state or foreign country if that state or foreign country gives or requires any preference to bidders from that state or foreign country, including but not limited to any preference to bidders, the imposition of any type of labor force preference, or any other form of preferential treatment to bidders or laborers from that state or foreign country. The preference allowed shall be equal to the preference given or required by the state or foreign country in which the nonresident bidder is a resident. In the instance of a resident labor force preference, a nonresident bidder shall apply the same resident labor force preference to a public improvement in this state as would be required in the construction of a public improvement by the state or foreign country in which the nonresident bidder is a resident.

Failure to submit a fully completed Bidder Status Form with the bid may result in the bid being deemed nonresponsive and rejected.

The Board of Trustees reserves the right to reject any or all bids, to waive informalities or technicalities in any bid and to accept the bid which it deems to be to the best interest of the Utility.

The Board reserves the right to defer acceptance of any proposal for a period not to exceed thirty (30) calendar days from the deadline for submission of proposals.

The successful bidder will be required to furnish a bond in an amount equal to one hundred percent (100%) of the contract price, said bond to be issued by responsible surety approved by the Board and shall guarantee the faithful performance of the contract and the terms and conditions therein contained, and shall guarantee the prompt payment for all materials and labor and protect and save harmless the Board from claims and damages of any kind caused by the operations of the Contractor, and shall guarantee the work against faulty workmanship and materials for a period of four (4) years after its completion and acceptance by the Board of Trustees.

The work will commence within ten (10) calendar days after the date set forth in written Notice to Proceed and shall be completed by October 31, 2025.

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Liquidated damages in the amount of Five Hundred Dollars (\$500.00) per consecutive calendar day will be assessed for each day that the project is not completed after October 31, 2025.

A sales tax exemption certificate will be available for all material purchased for incorporation in the project.

Payment for said improvements will be made in cash from sale of general obligation bonds or notes, water revenue bonds or notes, or from such funds as are legally available for said purposes. Any combination of the above methods of payment may be used at the discretion of the Board of Trustees.

Payment to the Contractor will be on the basis of monthly estimates equivalent to ninety-five percent (95%) of the contract value of the work completed and payments made to material suppliers for materials ordered specifically for the project and delivered to the site during the preceding calendar month. Estimates will be prepared each month by the Contractor, subject to the approval of the Engineer, who will certify to the Board for payment each approved estimate on or before the tenth (10th) day of the following month. Such monthly payments shall in no way be construed as an act of acceptance for any part of the work partially or totally completed. Upon completion of the work and its acceptance by the Board, the Contractor will be paid an amount which, together with previous payments, will equal ninety-five percent (95%) of the contract price of the contract. Final payment of the remaining five percent (5%) will be made not less than thirty-one (31) days after completion and acceptance by resolution of the Board of Trustees of the completed contract, subject to the conditions and in accordance with the provisions of Chapter 573 of the Code of Iowa. No such partial or final payments will be due until the Contractor has certified to the Clerk that the materials, labor and services involved in each estimate have been paid for in accordance with the requirements stated in the specifications.

Plans and specifications governing the construction of the proposed improvements, and also the prior proceedings of the Board of Trustees referring to and defining said proposed improvements are hereby made a part of this notice and the proposed contract by reference and the proposed contract shall be executed in compliance therewith.

Copies of said plans and specifications and form of contract are now on file in the office of the Clerk. Copies may be obtained from VEENSTRA & KIMM, INC., 6775 Vista Drive, West Des Moines, Iowa 50266, at no charge.

Notice to Bidders

This notice is given by order of the Board of Trustees of the Indianola Municipal Utilities,
Indianola, Iowa.

BOARD OF TRUSTEES
INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA

Dom Selgrade, Chairperson

Attest:

Monica Thompson, Board of Trustees Secretary

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INSTRUCTIONS TO BIDDERS

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS INDIANOLA MUNICIPAL UTILITIES INDIANOLA, IOWA

INDEX

1. DEFINITION OF TERMS
2. CONTRACT DOCUMENTS
3. METHOD OF BIDDING
4. QUALIFICATIONS OF BIDDERS
5. SUBMISSION OF BIDS
6. EVALUATION OF BIDS
7. WITHDRAWAL OF BIDS
8. BID SECURITY
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11. CONTRACT TERMINATION
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14. PAYMENT
15. APPROVAL OF MATERIALS
16. SOIL BORINGS
17. PERIOD OF GUARANTEE AND BOND
18. BIDDER STATUS FORM

1. DEFINITION OF TERMS

- 1.1 "Owner", "Water Works", or "Utility" shall mean the Indianola Municipal Utilities, Indianola, Iowa, acting through the Board of Trustees or an authorized representative of Board of Trustees.
- 1.2 "Person" shall mean any individual partnership, society, association, joint stock company, corporation, estate, receiver, trustee, assignee or referee, whether appointed by a court or otherwise, and any combination of individuals.
- 1.3 "Bidder" shall mean any person who submits a proposal to furnish the work described in the Contract Documents.

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- 1.4 "Contractor" shall mean the person with whom the Owner may enter into contract for the execution of the work specified.
- 1.5 "Subcontractor" shall mean the person supplying materials, labor, equipment and appurtenances for the work, such person having contractual relations with the Contractor, but not with the Owner.
- 1.6 "Engineer" shall mean Veenstra & Kimm, Inc., West Des Moines, Iowa.
- 1.7 "Standard Drawings" shall mean construction detail drawings bound with these specifications.
- 1.8 "Work" shall mean the work to be done and the equipment, supplies and materials to be furnished under the contract, unless some other meaning is indicated by the context.
- 1.9 "Or Equal" shall follow manufacturers' names used to establish standards and, if not stated, is implied.

2. CONTRACT DOCUMENTS

- 2.1 The Contract Documents, sometimes referred to as the "plans and specifications," shall mean and include the following parts as used herein:
 - 2.1.1 Notice to Bidders
 - 2.1.2 Instructions to Bidders
 - 2.1.3 Proposal
 - 2.1.4 Contract
 - 2.1.5 Bond
 - 2.1.6 General Conditions
 - 2.1.7 Special Conditions
 - 2.1.8 Plans List
 - 2.1.9 Plans listed in the Specifications
 - 2.1.10 Addenda issued to the foregoing.

3. METHOD OF BIDDING

- 3.1 Bidders shall submit unit and lump sum prices for the work covered by the plans and specifications. Prices shall cover complete work and include all costs incidental thereto, unless indicated otherwise.
- 3.2 Bids will be computed using quantities shown in proposal. Unit price quantities are approximate and only for comparison of bids. Engineer retains right to change location, quantities and combination of units as may be required during progress of construction. Compensation due Contractor will be computed on basis of final quantities of completed work.
 - 3.2.1 In the event of discrepancies between unit prices and unit price extensions listed in bidder's proposal, unit prices shall govern and unit price extensions and total bid shall be corrected, as necessary, for agreement with unit prices. The total price will be determined on the basis of corrected extensions of the unit prices.
 - 3.2.2 In the case of an obvious and serious clerical or entry error in the Proposal where the Owner is able to clearly determine the bidder's intent from the Proposal the Owner may waive irregularities that are in the best interest of the Owner as long as the integrity of the bidding process is not affected by waiving the clerical or entry irregularity.
- 3.3 Unit prices for payment items included in the specifications, but not listed in the PROPOSAL, will be negotiated, if needed.

4. QUALIFICATIONS OF BIDDERS

- 4.1 Bidders shall be prepared to satisfy Owner as to integrity, experience, adequacy of equipment, personnel and financial ability to perform work specified.
- 4.2 If successful bidder is a non-Iowa corporation, it shall submit proof to Owner prior to execution of contract that it has been authorized by Secretary of State to do business in Iowa.

5. SUBMISSION OF BIDS

- 5.1 Bidders shall submit the Proposal stamped "Official Bid". The Proposal stamped "Official Bid" is considered the original Proposal and shall be used for bidding. Submit in a sealed envelope. Envelope shall bear return address of the bidder and shall be addressed as follows:

To:
Board of Trustees
Indianola Municipal Utilities
210 W. 2nd Avenue
Indianola, Iowa 50125

Proposal for:
East 3rd Avenue Water
Main Improvements

- 5.2 Bids shall be signed by a legally authorized representative of bidder.
- 5.3 Bidders shall submit with Proposal the following documents:
- 5.3.1 Bid Bond.
- 5.3.2 Bidder Status Form.

6. EVALUATION OF BIDS

- 6.1 Award of contract will be made to the lowest responsive, responsible bidder. The Board of Trustees reserves the right to reject any and all bids and to waive informalities and technicalities and to enter into such contract as it shall deem for the best interest of the Indianola Municipal Utilities.

7. WITHDRAWAL OF BIDS

- 7.1 A bidder may withdraw his bid at any time prior to scheduled closing time for a receipt of bids, but no bid shall be withdrawn for a period of 30 calendar days thereafter.

8. BID SECURITY

- 8.1 Each bid shall be accompanied by bid security in the form and amount as set out in the Notice to Bidders.

- 8.2 Bid security shall be enclosed in the sealed envelope with the bid, or in a separate sealed envelope.
- 8.3 The bid security shall be forfeited and become the property of the Owner in case the bidder fails or refuses to enter into contract and to furnish bond within 10 calendar days after his proposal shall have been accepted.
- 8.4 Bid security of the unsuccessful bidders will be returned as soon as the successful bidder is determined and has entered into a contract; bid security of successful bidder will be returned upon execution of contract and furnishing of bond.
- 8.5 Bidders shall use bid bond form included with specifications.

9. EXAMINATION OF WORK

- 9.1 Bidders shall familiarize themselves with the specifications and with all conditions which will affect construction. It will be assumed that bidders have made a personal examination of the job and the physical conditions affecting the work.

10. EXECUTION OF CONTRACT

- 10.1 The successful bidder shall enter into a written contract with the Owner, within 10 days after acceptance of his proposal on the forms included with these specifications, for the performance of the work awarded to him.
- 10.2 The contract, when executed, shall be deemed to include the entire agreement between the parties hereto, and the Contractor shall not claim any modification thereof resulting from any representation or promise made at any time by any representative of the Owner or any other person.

11. CONTRACT TERMINATION

11.1 Provisions of law, as contained in Chapter 573A of the Code of Iowa shall apply to and be a part of this contract. Chapter 573A provides for termination of contracts for construction of public improvements when construction or work thereon is stopped because of a national emergency. The provisions of Chapter 573A shall be binding upon all parties thereto, including subcontractors and sureties upon any bond given or filed in connection therewith.

12. TAXES

12.1 The Owner will issue a sales tax exemption certificate for all materials purchased on the project. The Owner will issue the appropriate tax exemption certificates and authorization letters to the Contractor and all subcontractors completing work on the project. Tax exemption certificates are applicable only for the specific project for which the tax exemption certificate is issued.

12.2 Contractor shall provide a listing to the Owner identifying all appropriate subcontractors qualified for use of the tax exemption certificate. Contractor and subcontractors may make copies of the certificate and provide, to each supplier providing construction material, a copy of the tax exemption certificate.

12.3 Income tax:

12.3.1 Successful bidder is subject to payment of Iowa income tax on income from this work in amounts prescribed by law.

12.3.2 If successful bidder is a non-Iowa partnership, individual or association, he shall furnish evidence prior to execution of contract, that bond or securities have been posted with the Iowa Department of Revenue in the amount required by law.

13. PREFERENCE FOR LABOR AND MATERIALS

13.1 By virtue of statutory authority, preference will be given to products and provisions grown and coal produced within the State of Iowa, and to Iowa domestic labor, to the extent lawfully required under Iowa Statutes; provided that the award of contract will be made to the lowest responsible bidder submitting the lowest responsive bid.

14. PAYMENT

14.1 Payment will be made as set forth in Notice to Bidders.

14.2 Payment will be made on the basis of estimates prepared by Contractor and approved by Engineer, solely for the purpose of payment; approval by Engineer shall not be deemed approval of workmanship or materials.

15. APPROVAL OF MATERIALS

15.1 Approval of substitutions of any materials or equipment other than that specified shall be obtained in writing from Engineer. Otherwise, it will be assumed Contractor will furnish materials or equipment specified.

16. SOIL BORINGS

16.1 Soil borings have not been made along proposed route of work.

16.2 Obtain permission of Owner to make soil borings along proposed route of proposed work. Bidders are responsible for obtaining utility locates and for any utilities damaged by soil boring activities.

17. PERIOD OF GUARANTEE AND BOND

17.1 Contractor shall guarantee work for a period of four (4) years from date of final acceptance. Surety bond furnished by Contractor shall run for a like period.

18. BIDDER STATUS FORM

18.1 In accordance with the requirements of the Iowa Department of Labor all Bidders must submit a fully completed Bidder Status Form. The Bidder Status Form must be included with and is considered an essential attachment to the Proposal. Any Proposal that does not include a fully completed Bidder Status Form may result in the Proposal being determined non-responsive.

PROPOSAL

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS
INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA

Name of Bidder _____

Address of Bidder _____

To: Board of Trustees
Indianola Municipal Utilities
210 West 2nd Avenue
Indianola, Iowa 50125

The undersigned bidder submits herewith bid security amounting to five percent (5%) of the total amount of the bid which shall become the property of the Indianola Municipal Utilities, Indianola, Iowa, should the undersigned fail or refuse to execute a contract and to furnish bond as called for in the specifications within the time provided.

The undersigned bidder, having examined the contract documents, and having familiarized himself with the nature and location of the work to be done and the conditions under which the work will be performed, hereby proposes to provide the required labor, services and materials and to perform the work described in the specifications, and addenda _____, _____, _____ and _____, within the time and for the sum or sums stated hereinafter on attached proposal schedule which is hereby made a part of this proposal.

The undersigned bidder certifies that this proposal is made in good faith, without collusion or connection with any other person or persons bidding on the work.

The undersigned bidder states that this proposal is made in conformity with the specifications and agrees that in the event of any discrepancies or differences between any conditions of his proposal and the specifications prepared by VEENSTRA & KIMM, INC. that the provisions of the latter shall prevail.

Bidder _____

By _____

Title _____

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PROPOSAL SCHEDULE

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS

1. Construct East 3rd Avenue Water Main Improvements for the following unit and lump sum prices:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Extended Price</u>
1.1	Mobilization	LS	xxxxx	_____	\$ _____
1.2	Traffic Control	LS	xxxxx	_____	_____
1.3	Construction Staking	LS	xxxxx	_____	_____
1.4	Water Main Directional Bored, PVC, 8"	LF	410	_____	_____
1.5	Hydrant Assembly	EA	1	_____	_____
1.6	Water Service Connections	EA	6	_____	_____
1.7	Curb Stop and Box	EA	6	_____	_____
1.8	Water Service Pipe	LF	200	_____	_____
1.9	Tapping Sleeve & Valve, 12"x8"	EA	1	_____	_____
1.10	Pavement, PCC, Remove & Replace, 8"	SY	20	_____	_____
1.11	Pavement, PCC, Remove & Replace, 4"	SY	68	_____	_____
1.12	Detectable Warning Panels	SF	16	_____	_____
1.13	Salvage Existing Fire Hydrant	EA	1	_____	_____
1.14	Abandon Existing 4" Water Main	EA	1	_____	_____

				<u>Proposal</u>	
<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Extended Price</u>
1.15	Sod	SQ	10		
TOTAL BID					
(Items 1.1 - 1.15) \$					

2. The work will commence within ten (10) calendar days after the date set forth in written Notice to Proceed and shall be completed by October 31, 2025.
3. Liquidated damages in the amount of Five Hundred Dollars (\$500.00) per consecutive calendar day will be assessed for each day that the project is not completed after October 31, 2025.
4. Required attachment:
 - Bidder Status Form
 - Bid Bond

Bidder Status Form

To be completed by all bidders

Part A

Please answer "Yes" or "No" for each of the following:

☐ Yes ☐ No

My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet on the next page).

☐ Yes ☐ No

My company has an office to transact business in Iowa.

☐ Yes ☐ No

My company's office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.

☐ Yes ☐ No

My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.

☐ Yes ☐ No

My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.

If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.

If you answered "No" to one or more questions above, your company is a nonresident bidder. Please complete Parts C and D of this form.

To be completed by resident bidders

Part B

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: _____ / _____ / _____ to _____ / _____ / _____

Address: _____

City, State, Zip: _____

Dates: _____ / _____ / _____ to _____ / _____ / _____

Address: _____

City, State, Zip: _____

Dates: _____ / _____ / _____ to _____ / _____ / _____

Address: _____

City, State, Zip: _____

You may attach additional sheet(s) if needed.

To be completed by non-resident bidders

Part C

1. Name of home state or foreign country reported to the Iowa Secretary of State:

2. Does your company's home state or foreign country offer preferences to resident bidders, resident labor force preferences or any other type of preference to bidders or laborers? ☐ Yes ☐ No

3. If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

You may attach additional sheet(s) if needed.

To be completed by all bidders

Part D

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be a reason to reject my bid.

Firm Name: _____

Signature: _____ Date: _____

You must submit the completed form to the governmental body requesting bids per 875 Iowa Administrative Code Chapter 156. This form has been approved by the Iowa Labor Commissioner.

Worksheet: Authorization to Transact Business

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

- ☐ Yes ☐ No My business is currently registered as a contractor with the Iowa Division of Labor.
- ☐ Yes ☐ No My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.
- ☐ Yes ☐ No My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.
- ☐ Yes ☐ No My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.
- ☐ Yes ☐ No My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa secretary of state, has filed its most recent biennial report with the secretary of state, and has neither received a certificate of withdrawal from the secretary of state nor had its authority revoked.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.
- ☐ Yes ☐ No My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.

BID BOND

KNOW ALL MEN BY THESE PRESENTS: That we, _____

_____, of, _____,

as Principal, and _____

of _____,

as Surety, are held and firmly bound unto the Indianola Municipal Utilities, Indianola, Iowa, hereinafter defined as Obligee, in the penal sum of five percent (5%) of the total amount of the bid (\$_____), for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Indianola Municipal Utilities, Indianola, Iowa, a certain bid, in a sealed envelope, and hereby made a part hereof to enter into a contract in writing, for: East 3rd Avenue Water Main Improvements.

NOW THEREFORE, if the said bid by said Principal be accepted, and the Principal shall enter into a contract with the Obligee in accordance with the terms of such bid, and give such bond as may be specified in the contract documents with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void or in the event of the failure of the Principal to enter such contract and give such bond, the Principal shall pay to the Obligee the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this _____ day of _____, 2025.

Principal

By _____
Contractor's Signature

Surety

By _____
Attorney-in-Fact

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CONTRACT

THIS AGREEMENT, made and entered into this _____ day of _____, 2025, by and between the Indianola Municipal Utilities, Indianola, Iowa, party of the first part, hereinafter referred to as the "Owner", and _____, party of the second part, hereinafter referred to as the "Contractor".

WITNESSETH: THAT WHEREAS, the Owner has heretofore caused to be prepared certain plans, specifications and proposal blanks, dated the _____ day of _____, 2025, for the East 3rd Avenue Water Main Improvements under the terms and conditions therein fully stated and set forth, and,

WHEREAS, said plans, specifications and proposal blanks accurately and fully describe the terms and conditions upon which the Contractor is willing to perform the work specified:

NOW, THEREFORE, IT IS AGREED:

1. That the Owner hereby accepts the proposal of the Contractor for the work, as follows:

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS

Construct East 3rd Avenue Water Main Improvements including all labor, materials and equipment necessary for approximately 400 linear feet of 8-inch directionally bored water main, water services, hydrants, valves, surface restoration and miscellaneous associated work, including cleanup for the sum of _____ based on the unit and lump sum prices as shown on the Proposal.

2. That this contract consists of the following component parts which are made a part of this agreement and contract as fully and absolutely as if they were set out in detail in this contract:

2.1 Contract Documents, including:

- 2.1.1 Notice to Bidders
- 2.1.2 Instructions to Bidders
- 2.1.3 Proposal
- 2.1.4 Contract
- 2.1.5 Bond
- 2.1.6 General Conditions
- 2.1.7 Special Conditions
- 2.1.8 Plans List
- 2.1.9 Plans listed in the Specifications

2.2 This Instrument.

- 2.3 The above components are complementary and what is called for by one shall be as binding as if called for by all.

3. That payments are to be made to the Contractor in accordance with and subject to the provisions embodied in the documents made a part of this contract.

4. That this contract is executed in triplicate.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hand and seals the date first written above.

CONTRACTOR:

INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA

By _____
Chairperson, Board of Trustees

By _____

Title _____

ATTEST:

ATTEST:

Title _____

Secretary

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285115

BOND

KNOW ALL MEN: That we, _____
of _____, hereinafter called the Principal, and
_____,
hereinafter called the Surety, are held and firmly bound unto the Indianola Municipal Utilities,
Indianola, Iowa, hereinafter called the Owner, in the sum of

Dollars (\$_____), for the payment whereof the Principal and the Surety bind
themselves, their heirs, executors, administrators, successors and assigns, jointly and severally,
firmly, by these presents.

WHEREAS, the Principal has, by means of a written Agreement dated _____,
2025, entered into a Contract with the Owner for the East 3rd Avenue Water Main
Improvements, which Agreement includes a guarantee of all work against defective
workmanship and materials for a period of four (4) years from the date of final acceptance of
the work by the Owner, a copy of which Agreement is by reference made a part hereof;

Now Therefore, the condition of this Obligation is such that, if the Principal shall faithfully
perform the Contract on his part and shall fully indemnify and save harmless the Owner from all
cost and damage which he may suffer by reason of failure so to do and shall fully reimburse and
repay the Owner all outlay and expense which the Owner may incur in making good any such
default,

And Further, that if the Principal shall pay all persons who have contracts directly with the
Principal for labor or materials, failing which such persons shall have a direct right of action
against the Principal and Surety under this Obligation, subject to the Owner's priority,

Then this Obligation shall be null and void, otherwise it shall remain in full force and effect.

Provided, however, that no suit, action or proceeding by reason of any default whatever shall be
brought on this Bond after five (5) years from the date of final acceptance of the work.

And Provided, that any alterations which may be made in the terms of the Contract, or in the
work to be done under it, or the giving by the Owner of any extension of time for the
performance of the Contract, or any other forbearance on the part of either the Owner or the
Principal to the other shall not in any way release the Principal and the Surety, or either of them,
their heirs, executors, administrators, successors or assigns from their liability hereunder, notice
to the Surety of any such alteration, extension or forbearance being hereby waived.

And Further Provided, the Principal and Surety on this Bond hereby agree to pay all persons,
firms, or corporations having contracts directly with the Principal or with subcontractors all just
claims due them for labor performed or material furnished, in the performance of the Contract
on account of which this Bond is given, when the same are not satisfied out of the portion of the
contract price which the Owner shall retain until completion of the improvements, but the
Principal and Surety shall not be liable to said persons, firms, or corporations unless the claims of
said claimants against said portions of the contract price shall have been established as provided
by law.

The Surety on this Bond shall be deemed and held, any contract to the contrary notwithstanding, to consent without notice:

- a. To the extension of time to the Principal in which to perform the Contract.
- b. To changes in the plans, specifications, or Contract, when such changes do not involve an increase of more than twenty percent (20%) of the total contract price, and shall then be released only as to such excess increase.
- c. That no provision of this Bond or of any other contract shall be valid which limits to less than five (5) years from the date of final acceptance of the work the right to sue on this Bond for defects in workmanship or materials not discovered or known to the Owner at the time such work was accepted.

The Bond is executed in triplicate.

Signed and Sealed this _____ day of _____, 2025.

PRINCIPAL:

Contractor

Signature

Title

SURETY:

Surety Company

Signature, Attorney-in-Fact

Name of Attorney-in-Fact

Company Name

Company Address (Including Zip Code)

Company Telephone Number

GENERAL CONDITIONS

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1. CONTRACT DOCUMENTS

- 1.1 All documents listed or identified as part of contract are each and all essential and component parts of agreement between Owner and Contractor.
- 1.2 Contract Documents shall be signed in triplicate by Owner and Contractor.
- 1.3 Contract Documents are complementary, and what is called for by any one shall be as binding as if called for by all. The intention of documents is to include all labor and materials, equipment and transportation necessary for proper execution of work. It is not intended that materials or work not covered by or properly inferable from any heading, branch, class or trade of the specifications shall be supplied unless distinctly noted. Materials or work described in words, which have a well-known technical or trade meaning, shall be held to refer to such recognized standards.

2. SURETY BOND

- 2.1 Contractor shall furnish a good and sufficient surety bond in full amount of contract prior to signing contract. Surety bond shall guarantee faithful performance of all provisions of contract and payment of all bills and obligations arising from said contract. Should surety become irresponsible during time contract is in force, Owner may require additional and sufficient sureties. Contractor shall furnish said additional sureties to satisfaction of Owner within ten (10) days after written notice to do so. In default thereof, contract may be suspended as hereinafter provided.

3. CONTRACTOR'S RESPONSIBILITY

- 3.1 Contractor shall assume full responsibility for safekeeping of all materials and equipment and for all unfinished work until final acceptance by Owner. Materials and equipment which are damaged or destroyed from any cause shall be replaced at Contractor's expense.
- 3.2 Contractor shall indemnify and save harmless Owner against any liens filed for non-payment of Contractor's bills in connection with contract work. Contractor shall furnish Owner satisfactory evidence that all persons who have done work or furnished materials, equipment, or service of any type, under the contract have been fully paid prior to acceptance of work by Owner.
- 3.3 Contractor shall erect and maintain such barriers and lights as will prevent accidents as a consequence of its work. It shall indemnify and save harmless the Owner and its agents from all suits brought against Contractor for any injuries received or sustained by any person or persons by or through Contractor, its servants, or agents, in construction of work, or by or in consequence of any acts or omissions or negligence in performing contract work.
- 3.4 Without limiting GENERAL REQUIREMENTS of Contract Documents, protect flag poles, sidewalks, streets, pavements, fences, pipe, conduit, utilities, trees, shrubs and structures not shown for removal.
- 3.5 Cooperate with Owner, Engineer, and representative of utilities in locating underground utility lines and structures; incorrect, inaccurate or inadequate information concerning location of utilities or structures shall not relieve Contractor of responsibility for damage thereto caused by his operations.

4. SUBCONTRACTS

- 4.1 Contractor shall not assign, sub-let or transfer the whole or any part of work herein specified without written consent of Owner. Assignment, sub-letting or transfer shall not relieve Contractor from its responsibilities set forth herein.
- 4.2 Detailed specifications are separated into titled parts for convenience or reference and to facilitate letting of contracts and subcontracts. Such arrangement shall not obligate Engineer to establish limits on contracts between Contractors and subcontractors.

5. CONTRACTOR'S EMPLOYEES

- 5.1 Contractor shall personally supervise its work or provide a capable superintendent satisfactory to Engineer. Superintendent shall be authorized to receive instructions from Engineer.
- 5.2 Incompetent or incorrigible employees shall be dismissed by the Contractor or its representative when requested by Engineer. Such dismissed persons shall not be permitted to return to work without written consent of Engineer.
- 5.3 Contractor shall give preference to local labor in execution of this contract, insofar as is practicable.

6. PERMITS AND REGULATIONS

- 6.1 In execution of work specified herein, Contractor shall conform to regulations and ordinances of any governmental body which may apply in execution of specified work. Contractor shall obtain such permits and licenses as may be required for construction of work.

7. PATENTS

- 7.1 All fees or royalties for patented inventions, equipment or arrangements used in construction or erection of work, or any part thereof, shall be included in contract price. Contractor shall protect and hold harmless Owner against any and all claims or litigation by reason of infringement of any patent rights on any materials, equipment of construction furnished by Contractor.

8. GUARANTEE

- 8.1 Contractor shall guarantee all work against faulty workmanship and materials for the period specified after date of final acceptance of work by Owner unless otherwise set out in "SPECIAL CONDITIONS" or "INSTRUCTIONS TO BIDDERS." Contractor shall repair or replace any defective workmanship and materials in a manner acceptable to Owner, without expense to Owner, within ten (10) days after written notification by Owner of such defect. If said repairs or replacements are not made within ten (10) days, Owner may make said repairs or replacements and charge the cost to Contractor.
- 8.2 Contractor shall provide Owner with a good and sufficient surety maintenance bond in the full amount of contract prior to signing contract. Maintenance bond shall run for the period specified from time of acceptance to protect Owner from faulty workmanship and materials as outlined in preceding paragraph.

9. SHOP DRAWINGS

- 9.1 Contractor shall provide Engineer with drawings, data and information regarding materials or equipment specified, or as may be called for by Engineer, for its review, within a reasonable time after award of contract. After review, Engineer shall return to Contractor one copy within a reasonable time after receipt.
- 9.1.1 Submit 5 copies of all shop drawing submittals.
- 9.2 Fabrication and shipment of materials or equipment prior to Engineer's review of drawings, data and information mentioned above shall be at Contractor's risk.

10. THE ENGINEER

- 10.1 Engineer shall make general observation of work as agent of Owner. Engineer's general observation shall not be construed that it shall direct or control operations of Contractor.

11. PLANS AND SPECIFICATIONS

- 11.1 Engineer shall provide Contractor with five sets of plans and specifications after execution of contract. If additional plans and specifications are required, Contractor shall compensate Engineer for costs of printing.

11.2 Engineer shall provide Contractor with additional and supplemental plans as may be required to show details of construction after approval of manufacturers' drawings and data on materials and equipment.

11.3 Engineer will provide Contractor with such revised plans and specifications as may be required to show any authorized changes or extra work.

12. INTERPRETATION OF PLANS AND SPECIFICATIONS

12.1 Plans and specifications shall be interpreted by Engineer. Its decision shall be final and binding on all parties concerned.

12.2 Contractor will not be allowed to take advantage of errors or omissions in plans and specifications. Engineer will provide full instructions when errors or omissions are discovered.

13. LINE AND GRADE

13.1 Engineer shall provide stakes showing line and grade from bench marks, base lines and other reference points. Contractor shall provide competent men and tools, stakes and other materials as required to establish temporary or permanent reference marks in connection with the work. Contractor shall perform such detailed measurements and transfer elevations as required to properly lay out and construct work.

13.2 Contractor shall carefully preserve all stakes and reference points against destruction and shall promptly notify Engineer of any stakes which have been disturbed. In case of willful or careless destruction, Contractor will be charged for expense and damage from such destruction.

14. DECISIONS BY ENGINEER

14.1 Engineer shall make decisions, in writing, on claims between Contractor and Owner within a reasonable time after presentation. Such decisions shall be regarded as final except for appropriate legal recourse.

15. WORKMANSHIP AND MATERIALS

- 15.1 All work done and all materials and equipment furnished by Contractor shall conform to plans and specifications. Competent laborers and tradespersons shall be used on all work. Experienced manufacturers' representatives shall be used to supervise installation of equipment.
- 15.2 In absence of detailed specifications in other sections, all materials shall conform to standards of American Society for Testing Materials.
- 15.3 Wherever items of materials or equipment are specified by a manufacturer's name and type, or equal, it is the intent that materials or equipment of other manufacturers, equal in quality and performance, may be substituted. Such substitution may be made only with written authorization of Engineer.
- 15.4 Wherever items of materials or equipment are specified by a manufacturer's name and type, or equal, and additional features of items are specifically required by specifications, additional features specified shall be provided whether or not they are normally included in standard manufacturer's items listed.
- 15.5 Wherever items of materials or equipment are specified by a manufacturer's name and type, or equal, and specified items are or become obsolete and no longer available, Contractor shall provide acceptable equal items which are currently available at no change in contract price.
- 15.6 When proposing "or equal" items or substitutions, Contractor shall furnish general arrangement drawings, full descriptive data, manufacturer's specifications and such performance data as required to satisfy Engineer that materials or equipment proposed are equal to that specified. Burden of proof of equality shall be responsibility of Contractor.
- 15.7 Whenever items of materials or equipment are specified by a manufacturer's name and type and "or equal" is not listed, Contractor shall provide specified equipment without substitution, unless prior approval of Engineer is obtained for any substitution.
- 15.8 Contractor shall abide by Engineer's decision when proposed substitutes of material or equipment are deemed to be unacceptable and in such an event Contractor shall furnish items of equipment or materials specified.

- 15.9 Engineer reserves right to consider such factors as overall project arrangement, overall project cost, and similar factors in determining whether proposed substitutions will be acceptable.

16. ON-SITE REVIEW OR OBSERVATION

- 16.1 All materials used and all work done by Contractor shall be subject at all times to review, observation, tests and approval by Engineer. Contractor shall furnish samples of materials for observation and tests as requested by Engineer. Contractor shall furnish any information required concerning nature or source of any proposed materials or equipment.
- 16.2 Construction, fabrication and manufacture of equipment or materials specified herein may be observed by Engineer at plant or factory.
- 16.3 Materials, equipment or work which do not satisfactorily meet specifications may be condemned by Engineer by written notice to Contractor. Condemned materials, equipment or work shall be promptly removed and replaced.
- 16.4 Defective materials, equipment or work may be rejected by Engineer at any time prior to final acceptance by Owner even though said defective items may have been previously overlooked.

17. RESIDENT ENGINEER AND/OR ENGINEER TECHNICIANS

- 17.1 Resident engineer and/or engineer technicians may be appointed by Engineer or Owner to insure that work is performed in accordance with plans and specifications.
- 17.2 Resident engineer and/or engineer technicians shall have authority to notify Contractor in writing of work which is not being properly performed. Contractor shall be liable for any work determined by Engineer as not being properly performed.
- 17.3 Resident engineer and/or engineer technicians shall have no authority to permit deviation from plans and specifications and Contractor shall be liable for any deviations made without written order from Engineer.

18. TESTS

- 18.1 Tests shall be performed by Contractor upon materials and equipment specified, to determine if the materials and equipment meet requirements of specifications, conditions of operation and guarantees of Contractor.
- 18.2 Equipment shall be subject to factory tests specified herein. Certified evidence of tests shall be furnished when requested by Engineer.
- 18.3 Tests shall be made in accordance with standards of American Society of Mechanical Engineers, Institute of Electrical and Electronic Engineers, American Society for Testing Materials, and other recognized standards.

19. TIME

- 19.1 Contractor shall commence work within time specified and shall complete work within time specified in contract.

20. DELAYS

- 20.1 Delays caused by injunction or legal actions, damages by elements, or other causes beyond control of Contractor (of which Owner shall be sole judge) shall entitle Contractor to a reasonable extension of time within which to complete work.
- 20.2 Application for extension of time shall be made to Owner by Contractor and shall state reasons for request for extension of time.
- 20.3 No extension of time shall be valid unless made in writing by Owner.
- 20.4 Normal weather conditions shall not form the basis of request for extension of time. Abnormal weather conditions shall form basis of request for extension of time only to the delay in excess of that resulting from normal weather conditions.

21. CHANGES

- 21.1 Engineer shall have the right to make changes in location and quantities of work as may be deemed advisable with consent of Owner and without notice to sureties on Contractor's bond.

- 21.2 No change shall be made under this paragraph which will increase or decrease total contract amount more than twenty percent (20%) of original contract price and no changes shall be made in plan of improvement that would necessitate additional or different construction processes and equipment.
- 21.3 Amount due Contractor shall be adjusted for changes in following manner:
 - 21.3.1 Where unit prices have been bid, these unit prices shall be used to compute adjustment in compensation.
 - 21.3.2 Where no such unit prices have been bid, Engineer and Contractor shall negotiate a reasonable adjustment in Contractor's compensation. Limitations on compensation in 22.2 of "22. EXTRA WORK" shall apply to changes where compensation is negotiated.
 - 21.3.3 No changes shall be authorized unless they are shown on revised plans or in written instructions of Engineer.
 - 21.3.4 Authorized changes which require additional time to complete shall entitle Contractor to proportionate extension of time to completion which shall be determined by Engineer.

22. EXTRA WORK

- 22.1 Required extra work not specified under this contract shall be done at an agreed price satisfactory to Contractor and Owner, or on basis of actual cost of work plus not more than fifteen percent (15%) for Contractor's overhead and profit. Actual cost shall include expense for equipment, materials, and labor and shall include no overhead items or profit. Where extra work is done by a subcontractor, with approval of Owner, there may be included in Contractor's actual cost, ten percent (10%) for subcontractor's profit.
- 22.2 The term "extra work" as used herein shall not be construed to apply to changes described in "21. CHANGES".
- 22.3 No compensation shall be allowed Contractor for extra work unless such work has been authorized in writing by Engineer and approved by Owner.
- 22.4 Contractor shall submit a statement of costs to Engineer for approval when extra work is performed on an actual cost plus basis. After such a statement is approved, Engineer shall certify its correctness to Owner.

23. OWNERSHIP OF MATERIALS

- 23.1 All materials and work covered by partial payments shall become sole property of Owner, but this provision shall not be construed as relieving Contractor from sole responsibility for all materials and work for which payments have been made, for restoration of damaged work, or as a waiver of rights of Owner to require fulfillment of all terms of contract.

24. OTHER CONTRACTS

- 24.1 Owner reserves right to let other contracts in connection with this work. Contractor shall afford other contractors reasonable opportunity for introduction and storage of their materials and execution of their work, and shall properly connect and coordinate its work with theirs.
- 24.2 When proper execution of Contractor's work depends upon work of another contractor, it shall inspect other work and report any defects to Engineer. Contractor's failure to inspect and report shall constitute an acceptance of other contractor's work except for defects which may develop in work after completion.
- 24.3 To insure proper execution of its subsequent work, Contractor shall measure work already in place and shall at once report to the Engineer any discrepancy between the executed work and drawings.

25. OWNER'S RIGHT TO DO WORK

- 25.1 If Contractor neglects to prosecute work properly or fails to perform any provision of this contract, Owner, after three (3) days' written notice to Contractor, may, without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor, provided, however, that Engineer shall approve both such action and amount charged to Contractor.

26. OWNER'S RIGHT TO TERMINATE CONTRACT

- 26.1 Owner, upon certification of Engineer that there is sufficient cause to justify termination of contract, may, without prejudice to any other right or remedy, and after giving Contractor seven (7) days' notice may terminate employment of Contractor for any of following reasons:

- 26.1.1 Contractor makes a general assignment for benefit of its creditors, or if adjudged a bankrupt.
 - 26.1.2 Receiver is appointed on account of Contractor's insolvency.
 - 26.1.3 Contractor persistently or repeatedly fails or refuses, except when extension of time to complete is granted, to provide enough skilled workmen or proper materials.
 - 26.1.4 Contractor fails to make prompt payment to subcontractors for material or labor.
 - 26.1.5 Contractor persistently disregards laws and ordinances or instructions of Engineer.
 - 26.1.6 Contractor violates a provision of contract.
 - 26.2 If Owner terminates employment of Contractor, it shall take possession of premises and all materials, tools and appliances thereon. It shall finish work by whatever method it may deem expedient. In such case Contractor shall not be entitled to receive any further payment until work is finished.
 - 26.3 If unpaid balance of contract price exceeds expense of finishing the work including compensation for additional managerial and administrative services, excess shall be paid to Contractor. If expense exceeds unpaid balance, Contractor shall pay difference to Owner. Expense incurred by Owner as herein provided, and damage incurred through Contractor's default, shall be certified by Engineer.
27. CONTRACTOR'S RIGHT TO STOP WORK OR TERMINATE CONTRACT
- 27.1 If Engineer fails to issue any certificate for payment within fifteen (15) days after it is due, or if Owner fails to pay to Contractor within thirty (30) days of its maturity and presentation, any sum certified by Engineer, then Contractor may, upon seven (7) days simultaneous written notice to Owner and Engineer, stop work or terminate this contract. If Contractor elects to stop work by written notice, work shall be resumed promptly upon payment by Owner. If Contractor elects to terminate this contract by written notice it shall recover from Owner payment for all work executed to date of notice and any loss sustained upon any plant or materials plus a reasonable profit.

28. PAYMENTS WITHHELD

28.1 Engineer may withhold or nullify the whole or a part of payment certificate, on account of subsequently discovered evidence, to such extent as may be necessary to protect Owner from loss on account of:

28.1.1 Defective work not remedied.

28.1.2 Claims filed or reasonable evidence indicating probable filing of claims.

28.1.3 Failure of Contractor to make payments properly to subcontractors or for materials or labor.

28.1.4 A reasonable doubt that contract can be completed for balance then unpaid.

28.1.5 Damage to another contractor.

28.1.6 Claims of Owner for liquidated damages.

28.2 Payments shall be made for amounts withheld when above grounds are removed.

29. ACCEPTANCE AND FINAL PAYMENT

29.1 When work has been satisfactorily completed, Engineer will certify Contractor's final estimate stating that work has been completed in accordance with terms and conditions thereof with qualifications, if any, as stated. Balance found to be due Contractor according to the terms of payment shall be paid by Owner as provided in contract, provided, however, that any state laws which designate manner of final payment shall be followed in lieu of manner of final payment outlined above. Prior to receipt of final payment, Contractor shall file with Owner a receipt in full from each manufacturer, subcontractor, and dealer for all equipment and materials used on the work and a complete release of all liens, including tax liens, which may have arisen from this contract and required statements from Contractor and all subcontractors of sales and use tax paid. In lieu thereof, Owner, at its option, may accept from Contractor a statement showing balance due on all accounts.

29.2 Making and acceptance of final payment shall constitute a waiver of all claims by Owner, except those arising from unsettled liens, from faulty work or materials appearing after final payment or from requirements of the specifications, and of all claims by Contractor, except those previously made and still unsettled.

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30. SUSPENSION OF WORK

- 30.1 Owner may suspend the work, or any part thereof, at any time, by giving ten (10) days' written notice to Contractor. The work shall be resumed by Contractor within ten (10) days after date fixed in written notice from Owner to Contractor to do so.
- 30.2 If work, or any part thereof, shall be suspended and if Owner does not give written notice to Contractor to resume work within one (1) year of date of suspension, Contractor may abandon suspended portion of work. Contractor will be entitled to estimates and payments for all work done on the portions so abandoned, if any.

31. CLEANING UP

- 31.1 Contractor shall keep premises free from accumulations of waste material or rubbish caused by its employees or work. After completion of work it shall remove all its rubbish and all its tools, scaffolding and surplus materials from work site. It shall leave its work "broom clean" or its equivalent, unless more exactly specified. In case of dispute the Owner may remove rubbish and charge costs to Contractor as Engineer shall determine to be just.

32. HAZARDOUS MATERIALS

- 32.1 The use of Asbestos Construction Building Materials (ACBM) is specifically prohibited. The Contractor, suppliers, and subcontractors shall warrant that all products used are asbestos free. In the event that a specified product contains asbestos, it shall be the responsibility of the Contractor to notify the Owner so that an appropriate substitution can be made in a timely manner so as not to delay the project.
- 32.2 The Contractor shall provide the Owner a certificate that warrants that no materials, products, items or equipment contains any asbestos upon completion of the work of this Contract. If asbestos is found to exist in any of the materials, products, items or equipment provided as part of this Contract, the Contractor shall be financially responsible for all costs resulting from removal in accordance with an Owner approved method and replacement of an asbestos free condition to finished drawings and specifications. The financial responsibility of the Contractor shall not terminate with the end of the surety maintenance bond period, but shall continue through the life of the facility.

33. IOWA HAZARDOUS CHEMICAL RISKS RIGHT-TO-KNOW LAW

33.1 Owner's responsibility:

- 33.1.1 Owner shall provide to the Contractor a list of known hazardous chemicals within the project site to which their employees may be exposed and suggestions for appropriate protective measures.

33.2 Contractor's responsibility:

- 33.2.1 Contractor shall inform his/her employees of the Iowa Hazardous Chemical Risks Right-to-Know Law.
- 33.2.2 Contractor shall provide to the Owner a list of known hazardous chemicals that they anticipate will be used on site as well as all pertinent information relating to employee protection. Contractor's Material Safety Data Sheets (MSDS) shall be available to Owner upon request.

SPECIAL CONDITIONS

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS INDIANOLA MUNICIPAL UTILITIES INDIANOLA, IOWA

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1. INTENT

- 1.1 To supplement the provisions of the GENERAL CONDITIONS by outlining special conditions applicable to project.

2. LOCATION

- 2.1 Work is located in public right-of-way and City owned properties in the City of Indianola, Iowa.

- 2.2 Transportation facilities:

2.2.1 Iowa Highway 92.

2.2.2 U.S. Highway 65/69.

3. RIGHT-OF-WAY

- 3.1 Confine movements of equipment and personnel, storage of materials, excavation, spoil banks, and all other construction operations within the rights-of-way provided.
- 3.2 Contractor will be held liable by City and adjacent property owners for damages outside rights-of-way and easements; failure of Engineer to warn Contractor about incidence of trespassing does not relieve liability.

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4. ORDER OF CONSTRUCTION

- 4.1 Provide Engineer with proposed schedule of construction showing dates of starting and completing various portions of work.
- 4.2 Coordinate work with Owner and Engineer to assure orderly and expeditious progress of the work.
- 4.3 Contractor shall establish schedule of working hours for construction, subject to approval of Engineer.
- 4.4 Schedule construction to minimize use of street barricades and detours; clean up each portion of work as it is completed; schedule work to allow vehicular access for residents within 1 block of any closed street due to construction.

5. INTERRUPTIONS TO SERVICE

- 5.1 Existing utilities shall remain in substantially continuous operation during construction.

6. SERVICE FACILITIES

- 6.1 Water, electricity, compressed air, and other services shall be furnished by Contractor to meet his own requirements.

7. STORAGE OF MATERIALS AND EQUIPMENT

- 7.1 Storage areas shall be subject to approval of Engineer.
- 7.2 Store materials and equipment in manner which will preserve their quality and fitness.

8. CONSTRUCTION FACILITIES BY CONTRACTOR

- 8.1 Provide telephone at which Contractor can be reached by Owner or Engineer at all times during the working day; provide liaison between telephone and construction personnel for expeditious handling of messages.
 - 8.1.1 Provide Owner and Engineer with at least 2 telephone numbers where Contractor's representative can be reached evenings, weekends and holidays in event of emergency.

- 8.2 Location of all construction facilities, including project construction plant and yard, subject to approval by Engineer; remove all construction facilities upon completion of work.
- 8.3 Provide and maintain suitable sanitary facilities for construction personnel for duration of work; remove upon completion of work.
- 8.4 Provide fence, barricades, and/or watchmen to prevent access of unauthorized persons to site where work is in progress.

9. INSURANCE BY CONTRACTOR

- 9.1 Provide and maintain insurance throughout construction period in the following minimum amounts:
 - 9.1.1 Workmen's compensation and occupational disease insurance in accordance with the laws of the State of Iowa covering all employees who perform any obligations assumed under the contract.
 - 9.1.2 Public liability and property damage liability insurance covering all operations under the contract; limits of bodily injury or death not less than \$500,000 for one person and \$1,000,000 for each accident; for property damage, not less than \$250,000 for each accident and \$500,000 aggregate for accidents during the policy period.
 - 9.1.3 Automobile liability insurance on all self-propelled vehicles used in connection with the contract, whether owned, non-owned, or hired; public liability limits of not less than \$500,000 for one person and \$1,000,000 for each accident; property damage limit of \$500,000 for each accident.
 - 9.1.4 Umbrella liability (applying directly in excess above liability coverages); \$1,000,000 combined single limit; \$1,000,000 aggregate.
 - 9.1.5 Name the Indianola Municipal Utilities as an additional insured under all policies.
- 9.2 Owner reserves right to approve insurance company.

- 9.3 Owner shall have right at any time to require public liability insurance and property damage liability insurance greater than required in above paragraphs. Additional premiums payable solely as result of such additional insurance shall be added to bid price.
- 9.4 Furnish certificates of insurance to Engineer made in favor of Owner showing compliance with foregoing requirements.
- 9.5 Notification in event of liability or damage: upon the occurrence of any event, the liability for which is herein assumed, the Contractor agrees to forthwith notify the Owner, in writing, such happening, which notice shall forthwith give the details as to the happening, the cause as far as can be ascertained, the estimate of loss or damage done, the names of witnesses, if any, and stating the amount of any claim.

10. CONTRACTOR'S RESPONSIBILITY

- 10.1 There shall be no liability upon public officials, Engineer or his authorized assistants, either personally or as an official of the Owner, it being understood that in such matters he acts as an agent and representative of the Owner in carrying out any of the provisions of the contract or in exercising any power or authority granted him thereby.
- 10.2 Contractor agrees to hold harmless and indemnify the Owner and Engineer and their employees or agents against any liability sustained by reason of the work or the handling or storing of materials therefor when such liability arises out of negligent acts, errors or omissions of the Contractor, its employees or agents; failing to do so, any judgment against or settlements resulting therefrom shall become a lien against any funds due Contractor.
- 10.3 In the event any provisions in the contract are violated by the Contractor or any of its subcontractors, the Owner may serve written notice upon the Contractor and its surety of their intention to terminate such contract. Such notice shall contain a statement of the reasons for such action and unless within 10 days after the serving of such notice upon the Contractor such violation shall cease and satisfactory arrangements for correcting be made, the contract shall, upon expiration of said 10 days cease and terminate.

10.3.1 In the event of such termination, the Owner shall immediately serve notice thereof upon the surety and Contractor and the surety shall have the right to take over and perform the contract, provided, however, that if the surety does not commence the performance thereof within 30 days, the Owner may take over the work and prosecute the same to completion by contract for the account and at the expenses of the Contractor and the Contractor and its surety shall be liable to the Owner for any excess cost occasioned the Owner thereby; in such event, the Owner may take possession of and utilize such materials and appliances as may be on the site of the project and necessary in completing the work.

10.4 If suit is brought by the Owner for the breach of any provisions of this contract, the Contractor agrees to pay all costs in connection with suit, including reasonable attorney fees, whether or not the suit proceeds to judgment.

11. POSITION, LINE AND GRADE

11.1 Construct to lines and grades shown on plans or as specified hereinafter.

11.2 Contractor shall perform detailed survey and staking for location, elevation and grade of construction.

11.3 Contractor shall provide, without extra compensation, all men and necessary tools to make all test holes and exploration, at any time, for purpose of determining location of existing structures beneath ground surface which might conflict with work of Contractor.

11.4 Contractor shall preserve all monuments, reference points, stakes and bench marks set by Engineer. In case of destruction by Contractor's negligence or carelessness, he will be charged with resulting expense of replacement, and responsibility for any mistakes or loss of time caused thereby.

11.5 These conditions supersede conflicting provisions of GENERAL CONDITIONS.

12. EMPLOYMENT PRACTICES

12.1 Contractor, or his subcontractors, shall not employ any person whose physical or mental condition is such that his employment will endanger the health and safety of himself or others employed on the project.

13. HISTORICAL/ARCHAEOLOGICAL FINDS

- 13.1 If, during course of construction, evidence of deposits of historical or archaeological interest is found, cease operations affecting find and notify Owner who shall notify Iowa Department of Natural Resources and Director and Historic Preservation Officer, State Historical Department, East 12th and Grand, Des Moines, Iowa 50319. No further disturbance of deposits shall ensue until notification by Owner that work may proceed. Owner will issue notice to proceed only after state official has surveyed find and made determination to Department of Natural Resources and Owner. Compensation to Contractor, if any, for lost time or changes in construction to avoid find, determined in accordance with changed conditions or change order provisions of specifications.

PLANS LIST

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS INDIANOLA MUNICIPAL UTILITIES INDIANOLA, IOWA

1. PLANS

- 1.1 The work shall conform to the following drawings, which constitute the "Plans" and are an integral part of the Contract Documents:

<u>No.</u>	<u>Title</u>	<u>Revision Number</u>
A.01	INDEX AND TITLE SHEET	
A.02	GENERAL NOTES AND LEGEND	
MWM.01	WATER MAIN PLAN	

IDOT STANDARD DRAWINGS

SW-104	PRESSURE PIPE TRENCH BEDDING	3
WM-101	THRUST BLOCKS, SHEETS 1-2	1
WM-102	TRACER SYSTEM	1
WM-201	FIRE HYDRANT ASSEMBLY	3

IDOT STANDARD ROAD PLANS

TC-211	LANE CLOSURE ON LOW VOLUME ROADWAY	3
TC-212	SPOT LOCATION LANE CLOSURE WITH FLAGGERS	7
TC-252	ROUTES CLOSED TO TRAFFIC	6

SUDAS STANDARD SPECIFICATIONS, SECTION 7030 FIGURES

7030.204	GENERAL FEATURES OF AN ACCESSIBLE SIDEWALK	3
7030.205	GENERAL SIDEWALK AND CURB RAMP DETAILS	1
7030.210	DETECTABLE WARNING PLACEMENT	0

PL-1

285115

DETAILED SPECIFICATIONS

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS INDIANOLA MUNICIPAL UTILITIES INDIANOLA, IOWA

PART 1 - GENERAL REQUIREMENTS

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1. FORM

- 1.1 Detailed specifications are in outline form and include incomplete sentences. Omission of words or phrases is intentional. Supply omitted words or phrases by inference.

2. INTENT

- 2.1 To set forth requirements of performance, type of equipment or structure desired, and standards of materials and construction.
- 2.2 To describe work set out in Contract Documents, unless otherwise specifically indicated.
- 2.3 To require performance of complete work in spite of omission of specific reference to any minor component parts.
- 2.4 To provide for new materials and equipment, unless otherwise indicated.

3. INTERPRETATION

- 3.1 Report errors or ambiguities in specifications to Engineer as soon as detected; Engineer will answer questions regarding and interpret intended meaning of specifications; his interpretation shall be accepted as final.

4. WORK INCLUDED

- 4.1 Furnish all materials, labor and equipment to construct East 3rd Avenue Water Main Improvements as set out in the Notice to Bidders.

5. STARTING AND COMPLETION TIME

- 5.1 Commence work within 10 calendar days after date set forth in written Notice to Proceed. Complete work within time set out in Notice to Bidders.

6. INFORMATION FOR ENGINEER

- 6.1 After award of contract submit minimum 5 copies of following information and drawings for Engineer's review:
- 6.1.1 Manufacturer's specifications and catalog data for pipe, castings and such other data as requested by Engineer.
 - 6.1.2 All materials test reports.
 - 6.1.3 Portland and asphaltic cement concrete mix design; submit 8 days before proposed mix is to be used.
 - 6.1.3.1 Include certified gradation of aggregates to be used.
 - 6.1.4 Such other information for all materials supplied to job site.
- 6.2 Within 15 days after award of contract, provide construction schedule showing dates of starting and completing various portions of work.

7. SHOP DRAWINGS

- 7.1 Intent of Engineer's review: to assist Contractor in interpreting plans and specifications.
- 7.2 Contractor's responsibility: to check drawings prior to submission for coordination and conformance with contract; do not submit without checking.
- 7.3 Engineer's review is only for general conformance with design concept of project and general compliance with information given in contract documents; any action shown is subject to requirements of plans and specifications; Contractor responsible for dimensions which must be confirmed and correlated at job site; fabrication processes and techniques of construction; coordination of work with that of all other trades and satisfactory performance of work.
- 7.4 Prior to submission of shop drawings and catalog data to Engineer: affix Contractor's stamp with signature of responsible person to show material submitted has been checked and approved by Contractor; shop drawings submitted without appropriate stamp and signature will be returned without Engineer's review.

8. PLANS AND SPECIFICATIONS

- 8.1 Engineer will furnish up to 5 sets of plans and specifications after award of contract; Contractor shall compensate Engineer for printing costs for additional copies required.
- 8.2 Subcontractors and suppliers will be furnished copies only at request of Contractor; Engineer will be compensated for printing costs.
- 8.3 Provide 1 set of plans and specifications for each foreman or superintendent in charge of each crew on job.

9. STANDARDS AND CODES

- 9.1 Do work in accordance with best present-day installation and construction practices.
- 9.2 Conform to and test materials in accordance with applicable sections of latest revisions or tentative revisions of following codes and standards unless specifically noted to contrary:
 - 9.2.1 American Association of State Highway and Transportation Officials (AASHTO).

General Requirements

- 9.2.2 American Concrete Institute (ACI).
- 9.2.3 American Institute of Steel Construction (AISC).
- 9.2.4 American National Standards Institute (ANSI).
- 9.2.5 American Society for Testing and Materials (ASTM).
- 9.2.6 American Water Works Association (AWWA).
- 9.2.7 American Welding Society (AWS).
- 9.2.8 Iowa Department of Transportation (IDOT); latest edition of standard specifications and addenda.
- 9.2.9 Federal Specifications (FS).
- 9.2.10 Manual of Accident Prevention in Construction by Associated General Contractors of America, Inc., (AGC).
- 9.2.11 Occupational Safety and Health Act of 1970 (Public Law 91-596) (OSHA).
- 9.2.12 Iowa Occupational Safety and Health Act of 1972 (Chapter 88, Code of Iowa 2024) (IOSHA).
- 9.2.13 Current Iowa Manual on Uniform Traffic Control Devices (MUTCD).
- 9.2.14 National Institute for Occupational Safety and Health (NIOSH).
- 9.2.15 National Safety Council (NSC).
- 9.2.16 Recommend Standards for Water Works (Ten States Standards).
- 9.2.17 Standards and codes of the State of Iowa and applicable local standards, codes and ordinances of the City of Indianola.
- 9.2.18 Other standards and codes which may be applicable to acceptable standards of the industry for equipment, materials and installation under the contract.

10. MATERIALS TESTS

- 10.1 Submit to Engineer duplicate copies of reports by an independent testing laboratory showing compliance of construction materials with specifications; selection of testing laboratory subject to approval by Engineer.
- 10.2 Pay cost of all tests including transportation charges on samples.
- 10.3 Provide samples of materials and forms for preparing concrete compression cylinders required for laboratory tests; sampling of materials at site and preparation of concrete compression cylinders shall be performed by Contractor with approval of procedures by Engineer.
- 10.4 Ship no materials to the job until laboratory tests have been furnished and approved which show compliance of materials with the specifications.
- 10.5 All materials subject to sampling, testing, inspection, and rejection at site by Engineer.
- 10.6 Independent laboratory tests for work specified herein include the following:
 - 10.6.1 Portland cement: car, truck, or sealed bin samples for total requirements; ASTM C150.
 - 10.6.2 Concrete aggregates: 1 sample of each, ASTM C33.
 - 10.6.3 Portland cement and aggregates for concrete pavement: certify that sources are IDOT approved; provide analysis of materials used.
 - 10.6.4 Concrete mix: meet approval of Engineer before start of construction.
 - 10.6.5 Provide 2 concrete compression cylinders from trial batch for proposed mixes; ASTM C39; provide 7-day and 28-day tests.
 - 10.6.6 Structural concrete: 2 concrete compression cylinders each day concrete is poured; provide 7-day and 28-day tests in accordance with ASTM C39.
 - 10.6.7 Concrete pavement: 2 concrete compression cylinders for each 50 CY placed; provide at least 2 cylinders each day concrete is poured; provide 7-day and 28-day tests in accordance with ASTM C39; pavement includes curb and gutter, driveways and sidewalk.

General Requirements

- 10.6.8 Contractor responsible for providing cylinder forms, making cylinders, storing, curing, transporting and testing cylinders by independent testing lab.
- 10.6.9 If concrete compression cylinder tests for pavement fail, take two cores for each failing test; locate one core on each side of the test location within the next paving panel and test compressive strength; Contractor shall pay all costs for coring and retesting required due to failing tests on concrete compression cylinders.
- 10.6.10 Concrete slump and air tests: Contractor to provide 1 test per structural and pavement pours.
- 10.6.11 See PORTLAND CEMENT PAVEMENT for additional tests.
- 10.6.12 Pavement subgrade: test moisture and density; provide tests at locations selected by Owner or Engineer; ASTM D698; make tests necessary to determine optimum moisture-density relationships and the suitability of materials for compaction.
- 10.6.13 Make soil tests necessary to determine optimum moisture-density relationships and the suitability of materials for compaction.
- 10.6.14 Compaction tests on pipe trench or structure backfill: ASTM D698; obtain tests every 100 LF of pipe trench; at 2' vertical increments from top of pipe to surface.
- 10.6.15 Retest any pipe trench or structure backfill or subgrade area that fails, tests at no additional cost to Owner.
- 10.6.16 Reinforced concrete pipe: test 1 piece of each diameter of each class furnished; check reinforcing size and placement; ASTM C76.
- 10.6.17 Polyvinylchloride pipe (pvc): certify that pipe conforms to ASTM 3034 and AWWA C900 where applicable.
- 10.6.18 Other pipe: certify that pipe conforms to applicable specifications.
- 10.6.19 Reinforcing steel: certify that steel conforms to ASTM A615 for grades specified.

11. RESPONSIBILITY OF CONTRACTOR

- 11.1 Protection of work.
- 11.2 Protection of all property from injury or loss resulting from his operations.
- 11.3 Replace or repair objects sustaining any such damage, injury or loss to satisfaction of Owner and Engineer.
- 11.4 Without limiting GENERAL REQUIREMENTS of Contract Documents, protect flag poles, sidewalks, streets, pavements, fences, pipe, conduit, utilities, trees and shrubs and structures not shown for removal.
- 11.5 Cooperate with Owner, Engineer and representative of utilities in locating underground utility lines and structures; incorrect, inaccurate or inadequate information concerning location of utilities or structures shall not relieve Contractor of responsibility for damage thereto caused by his operations.
- 11.6 Keep cleanup current with construction operations.
- 11.7 Comply with all federal, state and City of Indianola laws and ordinances.

12. TEMPORARY WORK

- 12.1 Make all temporary connections necessary for maintaining utility service during course of work.
- 12.2 Construct temporary drains or bulkheads to keep work in the dry.

13. BARRICADES AND LIGHTS

- 13.1 Erect and maintain barricades and lights and/or provide guards in conformance with Standard Road Plan Dwg. No. TC-252 of the Iowa Department of Transportation (IDOT) and current Manual of Uniform Traffic Control Devices (MUTCD), for protection and warning of pedestrians and vehicles; all barricades, lights and/or guards at expense of Contractor.
- 13.2 Engineer will not allow work to proceed until all signs, barricades and lights are in place; requirements for type of signs and number of signs will be strictly enforced; improper signing during construction will constitute "improper work" and Engineer will cause Contractor to suspend work.

General Requirements

- 13.3 All signs, barricades, and other traffic control devices used on the project shall be furnished, installed and maintained by Contractor; all traffic control devices shall be maintained in a state of good repair and shall be cleaned and washed periodically as needed.
- 13.4 Certain sections of public streets and sidewalks can be closed with the following restrictions:
 - 13.4.1 Adequate protection shall be provided for pedestrians. If a section of sidewalk is closed, appropriate signing and barricading shall be utilized; signing and barricading shall remain in place until sidewalk is reopened for pedestrian use.
 - 13.4.2 No portion of public street shall be reopened to use by vehicular traffic other than local traffic until excavated area has been restored to a hard surface condition or granular surfacing has been placed as directed by Engineer; provide sign for local traffic "Enter at Own Risk".
 - 13.4.3 Notify City 7 days prior to closing street.

14. FINAL REVIEW AND ACCEPTANCE

- 14.1 Notify Engineer when project is considered to be complete and ready for final review.
- 14.2 Owner will accept work and make final payment to Contractor:
 - 14.2.1 When Engineer has certified that work of Contractor is complete and in conformance with the plans and specifications.
 - 14.2.2 When Contractor has filed with Owner or Engineer documents called for in specifications.

15. PAYMENT

- 15.1 No separate payment will be made for work covered under this part of the specifications. Include all costs in appropriate unit prices.

PART 2 - SPECIAL CONSTRUCTION

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| 2. COOPERATION WITH OTHERS | 7. TRAFFIC CONTROL |
| 3. SURVEY MARKERS | 8. WEATHER LIMITATIONS |
| 4. CONTAMINATED SOIL FINDS | 9. CONSTRUCTION STAKING |
| 5. UNSTABLE SOILS | 10. PAYMENT |

1. GENERAL

- 1.1 Procedures outlined below are not intended to fully cover all special procedures or emergencies which may arise during construction but are offered as an aid to Contractor in planning work; Contractor will cooperate with City and Engineer to minimize inconvenience and construction delays.
- 1.2 Determine location of underground utilities and piping before starting work; locations of underground appurtenances are approximate and not guaranteed by City or Engineer.
- 1.3 Remove and replace storm and sanitary sewers as required for construction; if additional pipe is damaged, replace in kind with new at no cost to Owner except where replacement is shown on plans; remove and replace all signs and other appurtenances which interfere with construction; replace damaged signs at no cost to Owner; all signs not shown on plans.
- 1.4 Limit construction operations to public rights-of-way; provide barricades, lights, signs and detours as necessary to reroute traffic around construction areas.
- 1.5 Ensure all active operating utilities marked for relocation or temporary removal due to conflict with construction, including services, remain active at all times. No additional payment will be made for temporary water service, bypass pumping, of alike.
- 1.6 Dispose of materials removed during construction at locations approved by Owner or Engineer.
 - 1.6.1 Dispose of waste products containing putrescible materials at approved landfill.

Special Construction

- 1.6.2 Dispose of surfacing, broken concrete or rubble, brush, trees, excess excavated materials or spoil not suitable for backfill at landfill unless otherwise approved by Engineer.
- 1.7 Notify residents 2 days in advance when construction will disrupt or block access to property.
- 1.8 Remove, stockpile and replace fencing where required for construction as shown on plans; replace fences as work progresses.
- 1.9 Provide snowfence along boundaries of construction area as specified hereinafter and as directed by Engineer.
 - 1.9.1 Install snowfence when area is prepared for excavation; install on steel posts with maximum spacing of 8'; maintain until work is completed.
 - 1.9.2 Provide snowfence around all open trenches or open structures when left unattended.
- 1.10 Clean up and provide surface restoration as construction progresses.
- 1.11 Submit complete detailed construction procedure schedule after award of contract for planning, scheduling and controlling construction of project.
- 1.12 Contractor will be expected to provide adequate personnel and equipment to perform work within specified time of construction.
- 1.13 If delays in delivery of materials become apparent, notify City and Engineer promptly; take action to accomplish one of the following:
 - 1.13.1 Substitute alternate materials with approval of City and Engineer.
 - 1.13.2 Expedite delivery of materials.
- 1.14 Extensions of contract period will be given consideration upon written request of Contractor; request must include valid supporting data and bonafide reasons for requesting extension; City expects work to be complete and ready for final acceptance within completion time specified.

2. COOPERATION WITH OTHERS

- 2.1 Advise all utilities prior to excavating in area where construction might affect traffic signal, gas, electrical, telephone or water service.
 - 2.1.1 Advise telephone company of proposed construction schedule as it relates to telephone service.
 - 2.1.2 Advise power company of proposed construction schedule as it relates to electrical power.
 - 2.1.3 Advise gas company of proposed construction schedule as it relates to gas service.
 - 2.1.4 Advise City of proposed construction schedule as it relates to water service.
 - 2.1.5 Advise cable television of proposed construction schedule as it relates to cable television service.
- 2.2 Cooperate with State and Federal regulatory agencies in matters under their jurisdiction over construction operations.
- 2.3 Cooperate with local governmental agencies; secure necessary building permits and arrange for inspections at proper time.

3. SURVEY MARKERS

- 3.1 Contractor responsible for hiring registered land surveyor to inventory existing pipe, pins and registered survey lot corners disturbed by construction. Land surveyor responsible for setting reference markers required to re-establish location of pipe, pins and registered survey lot corners. Replace in accordance with Chapter 355 of the Iowa Code. Work is incidental to construction.

4. CONTAMINATED SOIL FINDS

- 4.1 If during course of construction evidence of deposits of contaminated soils are found, cease operations affecting find and notify Owner who will notify Iowa Department of Natural Resources; no further disturbance of deposits will ensue until notification by Owner that work may proceed; Owner will issue notice to proceed only after contaminated soils have been identified and procedures for remediating contaminated soils have been identified and procedures for remedial action have been determined and approved by Iowa Department of Natural Resources and Owner; compensation to Contractor, if any, for lost time or changes in construction due to changed conditions will be in accordance with change order provisions of specifications.

5. UNSTABLE SOILS

- 5.1 Areas of wet, sandy or unstable soils may be encountered along route of water main; provide material and equipment required to permit installation of water main through all soils encountered.
- 5.2 Excavation of all soils encountered is incidental to construction; include all costs in unit price for water main construction.
- 5.3 Contractor responsible for dewatering excavation as provided in EXCAVATION AND BACKFILL to ensure stable bottom of trench to allow normal bedding material to support pipe and structures; Owner reserves right to substitute stabilizing material for bedding rock; use of stabilizing material or additional bedding rock in lieu of or as substitute for dewatering the trench permitted at Contractor's option at no additional cost.

6. CONTINUITY OF EXISTING UTILITY SYSTEMS

- 6.1 Prepare detailed construction procedure schedule after award of contract; show definite and positive action which will be taken to minimize disruption to utility systems.
- 6.2 Meet with City Water Superintendent to determine operability of isolation valves. Notify property owners 2 days in advance of interruption to water service.

7. TRAFFIC CONTROL

7.1 All streets shall remain open to two-way traffic at all times with the following exceptions:

7.1.1 East 3rd Avenue and South 4th Street may be closed to one lane of traffic. Use M-4 concrete mix for pavement. Use IDOT Standard Road Plan TC-211 or TC-212 for traffic control.

7.2 All construction personnel's vehicles shall be parked in accordance with local parking regulations.

8. WEATHER LIMITATIONS

8.1 Owner expects paving of streets during suitable weather within contract time period; contract time period includes calendar days for inclement weather; contract time period will not be extended for claims of wet weather or freezing weather; Owner will consider suspension of contract time period for winter months only after completion of cleanup.

9. CONSTRUCTION STAKING

9.1 Contractor responsible for providing all necessary construction staking to allow for project construction.

9.2 Contractor responsible for accuracy and completeness of all construction staking.

9.3 Owner or Engineer may review accuracy of construction staking at its own discretion at any time.

10. PAYMENT

10.1 No separate payment will be made for work covered under this part of the specifications except as set forth below. Include all costs in appropriate unit prices.

Special Construction

- 10.2 Mobilization; lump sum (LS): Mobilization shall consist of preparatory work and operations for all items under the contract, including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, and for the establishment of all offices, buildings, and other facilities, which must be performed or costs incurred prior to beginning work on the various items on the project site. Mobilization may include bonding, permit, and demobilization costs.
- 10.3 Traffic Control, LS: Lump sum price includes furnishing signs, flagmen, barricades, flashers, channelizing devices and other miscellaneous control items specified or required by Indianola Municipal Utilities during construction. Includes setup, removal and miscellaneous associated work.
- 10.4 Construction Staking, LS: Lump sum price includes but is not limited to furnishing all equipment, labor, and materials to provide construction staking for water main installation and paving operations. Any re-staking will be at the Contractor's expense.

PART 3 - EXCAVATION AND BACKFILL

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| 5. DIRECTIONAL BORING | 12. GRANULAR SURFACING |
| 6. SHEETING, SHORING AND BRACING | 13. PAYMENT |
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1. GENERAL

- 1.1 Excavate all materials encountered to depth indicated or specified; comply with safety rules of State Bureau of Labor and federal government.
 - 1.1.1 OSHA Part 1926, Subpart P - Excavations, as adopted by the Iowa Department of Labor, applies to work in this part of the specifications.
- 1.2 Protect existing pavement from damage during construction if not shown on plans for removal; if damage occurs, replace in kind at no cost to Owner.
- 1.3 Remove, replace and repair items such as mailboxes, fences, storm drains, signs, hanging wires and other obstructions to accommodate construction equipment or to facilitate excavation; cost to remove and replace is incidental to construction; install mailboxes at temporary location as required by U.S. Postal Service during construction.
- 1.4 Pile excavated material suitable for backfill in orderly manner sufficient distance back from edge of excavation to avoid slides or cave-ins; minimum clear distance as required by OSHA; cast dirt as directed by Engineer.
- 1.5 Remove spoil not suitable for backfill; waste at disposal area specified in SPECIAL CONSTRUCTION; removal is incidental to construction, include cost in unit prices for water main construction.
- 1.6 Where new work crosses existing utilities or utility services, excavate in advance of pipe laying; determine crossing arrangement including exact construction line and grade.
- 1.7 Excavate in open cut under existing streets, utilities and structures except as noted on plans or as modified by Engineer.

- 1.8 Reference to percent maximum density shall mean a soil density not less than stated percent of maximum density for soil as determined by ASTM D698 Moisture-Density Relations of Soils using 5.5-lb. Rammer and 12-in. Drop (Standard Proctor method).
- 1.9 Install signing and barricades for traffic control in accordance with Manual on Uniform Traffic Control Devices and as required by Iowa DOT.

2. DEFINITIONS

- 2.1 Earth: all materials, not classified as rock or rubble, including clay, silt, sand, gravel, hardpan, disintegrated shale, debris, junk, brick, loose stones and boulders less than volume specified below which can be removed by use of suitable excavating equipment.
- 2.2 Rock: boulders larger in volume than 75% of rated capacity of hoe bucket in use or solid deposits so firmly cemented together that they cannot be removed without continuous use of pneumatic tools or blasting.
 - 2.2.1 Removal of rock above ground is incidental to construction.
 - 2.2.2 Use pneumatic tools or blasting only with written approval of Engineer.
- 2.3 Rubble: buried concrete foundations, beams, walls and other materials which require continuous use of pneumatic tools or blasting.
 - 2.3.1 Removal of rubble above ground and where noted on plans is incidental to construction.
 - 2.3.2 Use pneumatic tools or blasting only with written approval of Engineer.

3. TRENCH EXCAVATION

- 3.1 Keep width of trench as narrow as possible and still provide adequate room for backfill and jointing. See Standard Drawing SW-104
- 3.2 Trench width at top of pipe shall not exceed outside pipe diameter plus 12 inches on each side of pipe.
- 3.3 Keep sides of trench below top of pipe as nearly vertical as practicable; comply with federal and state safety regulations; maintain vertical walls of excavation below top of pipe.

- 3.4 Provide sheeting, shoring, and bracing where required to hold walls of excavation, to protect existing structures, utilities, pavement, and to provide safety for workers in accordance with OSHA standards.
- 3.5 Bottom of Trench:
 - 3.5.1 Provide firm, stable and uniform support for full length of pipe.
 - 3.5.2 Provide hand shaped trench bottom for iron pipe for ductile iron or polyvinylchloride pipe. Provide bell cut outs so pipe lays true to grade. See Standard Drawing SW-104.
 - 3.5.2.1 Contractor may elect to use granular pipe bedding consisting of natural gravel below pipe for his convenience with no additional compensation; 1" maximum size aggregate, free from deleterious substances.
 - 3.5.3 Remove large clods, stones and other foreign material from bottom of trench.
 - 3.5.4 Normal bedding shall consist of natural soil. Contractor may elect to use sand or gravel.
 - 3.5.4.1 If trench is wet, use crushed stone or gravel not exceeding 1".
 - 3.5.4.2 In the opinion of the inspector, crushed limestone or gravel not exceeding 2" shall be used when 1" stone or gravel does not provide proper foundation for the pipe.
 - 3.5.5 If trench bottom is rocky or hard, over-excavate trench 6" and place 6" of pipe bedding below pipe and backfill with pipe bedding material.
 - 3.5.6 Provide pipe bedding at fire hydrants as shown on Standard Drawing.
- 3.6 When unsuitable material is encountered which may not provide a suitable foundation for pipe:
 - 3.6.1 Notify Owner immediately.
 - 3.6.2 Engineer will investigate questionable material to determine its suitability for pipe foundation.

Excavation and Backfill

3.6.3 If material is considered unsuitable for foundation, Owner will specify and authorize remedial measures in writing.

3.6.4 If removal of unsuitable material is authorized:

3.6.4.1 Replace with stabilizing material.

3.6.4.2 Stabilizing material: sharp, clean crushed stone; complying with following gradation:

<u>Sieve</u>	<u>% Passing</u>
2-1/2"	100
2"	90-100
1-1/2"	35-70
1"	0-15
1/2"	0-5

3.6.4.3 Compact stabilizing material by rodding or slicing with shovel.

3.6.4.4 Place 2" of granular pipe bedding as specified herein on top of stabilizing material; bring pipe bedding up to spring line.

3.6.4.5 Pipe bedding: sharp, clean, crushed stone; comply with following gradation:

<u>Sieve</u>	<u>% Passing</u>
1"	100
3/4"	80-95
1/2"	50-60
3/8"	20-40
No. 4	0-5

3.6.4.6 Authorized over excavation, stabilizing material and pipe bedding will be paid for as Stabilizing Material.

3.6.5 Authorized remedial measures not covered by contract unit prices will be paid for as Extra Work.

4. ROCK AND RUBBLE EXCAVATION

- 4.1 Excavate to provide specified cover; lay pipe on pipe bedding.
- 4.2 Use of explosives: submit detailed plans outlining all proposed blasting operations, locations, methods and use of mats and other safety measures.
 - 4.2.1 Obtain written approval from Engineer before using explosives.
 - 4.2.2 Provide Special Hazard Insurance covering liability for all blasting operations.
 - 4.2.3 Use thoroughly experienced demolition personnel.
- 4.3 Remove excavated rock and rubble not suitable for backfill to disposal areas obtained by Contractor.

5. DIRECTIONAL BORING

- 5.1 Expose or pothole all pipes and utilities which are to be crossed; provide minimum 9" clearance except for water mains, provide clearance as specified hereinafter.
- 5.2 Inject flowable fill or grout in bore holes to be abandoned; inject flowable fill or grout at same time tool string is removed to avoid collapse of cover material.
- 5.3 Clean out pipe upon completion of work.
- 5.4 Properly dispose of boring mud; do not deposit on ground or in street or dispose of mud in any storm sewer or sanitary sewer; mud may be mixed with open trench pipe backfill material provided compaction requirements are met.
- 5.5 Pipe tolerances: 0.50% maximum vertical deviations from plan grade; 1.00% maximum horizontal deviation from plan alignment, unless otherwise approved by Engineer.
- 5.6 Contractor responsible for correct vertical and horizontal alignment; pipe installed with incorrect vertical and/or horizontal alignment will be replaced by Contractor with proper installation at no additional cost to Owner.
- 5.7 Install high-strength tracer wire on all directional bored pipe with minimum tensile strength of 1,150 lbs.

5.8 Other boring techniques are acceptable, including augering and micro-tunneling.

6. SHEETING, SHORING AND BRACING

6.1 Construct sheeting, shoring and bracing, in accordance with OSHA standards, to hold walls of excavation where shown on plans or at other locations, to provide safety for workmen, to protect existing utilities or structures or to permit construction in the dry; sheeting operations which in the opinion of Engineer cause excessive vibration will not be allowed.

6.2 Leave sheeting and shoring in place when removal, in the opinion of Engineer, might damage new pipe, existing utilities or structures.

6.3 Sheeting, shoring and bracing is incidental to construction; include cost in appropriate unit cost.

7. DEWATERING

7.1 Do all work in dry; provide for handling of water encountered during construction.

7.2 Lay no pipe in or pour no concrete on excessively wet soil.

7.3 Prevent surface water from flowing into excavation; remove water as it accumulates.

7.4 Divert stream flow away from areas of construction.

7.5 Do no pump water onto adjacent property without approval of Engineer.

7.6 Cost of dewatering is incidental to construction.

8. EXISTING UTILITIES

8.1 Locations of utility lines, mains, cables and appurtenances are in accordance with information provided by utility companies and from records of City; confirm locations of underground utilities by excavating ahead of work; Contractor fully responsible for damage to utilities during construction.

8.2 Conflicting utilities not shown on plans, except services: notify Engineer immediately.

- 8.3 Utility services are not generally shown on plans; protect existing services during construction of new main.
 - 8.3.1 Cut water services only if they conflict with line and grade of new work; if services are cut, use hose or other flexible connector to maintain service while new work is installed; reinstall permanent service; handling of services is incidental to construction.
- 8.4 Water main and sanitary sewer conflicts: notify Owner and Engineer immediately; provide all necessary shut-down, repair and relocation where conflicts occur; furnish labor, equipment, pipe and fittings; when broken due to carelessness, repair is incidental to construction.
- 8.5 Utility lines, poles and appurtenances, except water mains and sewer lines in direct conflict with line and grade of work will be relocated by utility company before or during construction at no expense to Contractor unless plans direct Contractor to perform work; Owner will advise utility companies of lines, poles and appurtenances to be moved after award of contract; cooperate with utility companies in relocation of lines, poles and appurtenances.
- 8.6 Support and protect, by timbers or other means, all utility pipes, conduits, poles, wires and other apparatus not to be moved; protective measures subject to approval of Engineer.
- 8.7 No utility or utility service will be moved to accommodate equipment, method of operation or for convenience of Contractor when utility or utility services does not conflict directly with line and grade of work.
- 8.8 Install water valve wrench with spacers on stem over water valves and curb stops to maintain proper valve box alignment during backfill operations; remove valve wrench after backfill and/or subgrade preparation for paving is completed.

9. SURFACING REMOVAL

- 9.1 Remove existing street, road, sidewalk and driveway surfacing, minimum of 1' outside edge of trench where open cut construction is specified; see plans for designation of street surfacing.
 - 9.1.1 Remove on lines approximately parallel or perpendicular to centerline of trench.

- 9.1.2 Cut vertically and horizontally on straight lines; saw cut full depth of surfacing.
- 9.1.3 Portland cement concrete pavement: remove to nearest joint or as directed by Engineer and as shown on plans; cut steel as necessary.
- 9.1.4 Asphalt pavement: cut to a neat line.
- 9.1.5 If remaining surfacing along saw cut line becomes cracked or broken during construction, provide additional saw cuts, surface removal and surface replacement as directed by Engineer at no cost to Owner.
- 9.2 Dispose of waste material at disposal area approved by Engineer.
- 9.3 Surfacing removal is incidental to construction; include cost in applicable unit price.

10. TRENCH BACKFILL

- 10.1 Backfill trench immediately after Engineer has recorded location of connections and appurtenances and after Engineer has inspected the work.
- 10.2 Allow no more than 100' of trench to be open at one time; install appurtenances and backfill as work progresses.
- 10.3 Backfill with suitable excavated material or borrow materials; use no large stones, large clods, organic matter, rubbish, frozen or unsuitable materials.
- 10.4 Backfill simultaneously on both sides of pipe to prevent displacement.
- 10.5 Use compacted backfill in all locations.
 - 10.5.1 Carefully hand place and compact suitable backfill to 1' over top of pipe; compact to 95% maximum density.
 - 10.5.2 Continue backfill operation with excavated material placed in layers not to exceed 1' up to subgrade surface in surfaced areas.
 - 10.5.3 Compact backfill above 1' over top to 1' below subgrade to 95% maximum density; maintain moisture content from minus 1% to plus 3% optimum.

Excavation and Backfill

- 10.5.4 Compact backfill from 1' below subgrade to subgrade to 95% maximum density; maintain moisture content between -1% and +3% of optimum; provide uniform subgrade for full width of surfacing plus 1' on each side.
- 10.5.5 Fill upper 18" of trench in unsurfaced areas with topsoil; match surrounding ground surface; compact to 85% maximum density; do not over compact areas with gardens and lawns.
- 10.6 Provide full depth of crushed rock bedding from top of pipe to bottom of pavement for all excavation located in paved areas. Hand tamp material to 1" above top of pipe. Compact remaining trench to minimum 65% relative density.
- 10.7 New water main below existing water main, sewer or gas main: backfill under existing water main, sewer or gas main with sand; compact to 95% maximum density; length of sand backfill at elevation of existing utility: equal to depth of excavation below utility.
- 10.8 Provide and pay all costs for independent testing laboratory to conduct moisture-density compaction tests to ensure conformance with compaction requirement.
 - 10.8.1 Engineer may increase rate of testing if soil conditions or Contractor operations indicates specified soil moisture and density is not being consistently obtained.
 - 10.8.2 Contractor shall excavate for tests, if required.
- 10.9 If settlement of any trench occurs within period of guarantee and bond; refill, compact, level off and restore surfacing.

11. SURFACE RESTORATION

- 11.1 Grade tops of trenches to smooth, uniform lines without large lumps, clods or debris.
- 11.2 Replace damaged flowers, shrubbery and trees with new plantings of equal type and quality at no cost to Owner; trees removed because of conflict with alignment of pipe shall not be replaced, except where shown on plans.
- 11.3 Dispose of all brush and rubbish as specified hereinbefore.

Excavation and Backfill

- 11.4 Sod all areas disturbed by construction including site grading.
 - 11.5 Prepare site for sodding by discing, harrowing and hand raking or other means following site grading; work soil to depth of 3".
 - 11.6 Precede sodding with uniform application of commercial grade fertilizer of nitrogen, phosphate, and potash (200 lbs. of fertilizer grade 20-26-6 per acre, or approved equal); cultivate area 1.5" deep and work with harrow within 24 hours before sodding; smooth surface to eliminate clods and lumps before sodding.
 - 11.7 Sod: Minimum 18 months old, nursery grown bluegrass; free of objectionable grasses and weeds and insects; mowed at height of 2" prior to cutting; source subject to approval of Owner based on visual observation of condition.
 - 11.7.1 Sod shall be harvested, delivered and placed within a time period of 24 hours.
 - 11.7.2 Sod showing signs of heating and dehydration will be rejected.
 - 11.8 Sodding shall be performed before June 15 or after August 15, unless permitted otherwise by Engineer.
 - 11.9 Water all areas thoroughly initially; Contractor responsible for watering sodded areas until it has achieved vigorous growth.
 - 11.10 Minimize soil erosion during construction and prevent eroded soil from leaving the construction project site onto adjacent property.
12. GRANULAR SURFACING
- 12.1 Place granular surfacing at locations shown on plans or as directed by Engineer.
 - 12.2 Gravel or crushed stone: Place 6" compacted crushed stone in top of trench; conform to IDOT Class A crushed stone; place and compact in two lifts.
13. PAYMENT
- 13.1 No separate payment will be made for work covered in this part of the specifications except as set forth below. Contract unit prices shall include all costs for each item of work.

Excavation and Backfill

- 13.2 If items are required during construction for which no unit prices are shown on Proposal, contract price shall be adjusted on basis of unit price negotiated with Contractor.
- 13.3 Sodding, Square: Unit price includes all labor, materials and equipment necessary to prepare sod bed, fertilize, sod, water, mow and miscellaneous associated work.

PART 4 - WATER MAINS AND APPURTENANCES

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1. WORK INCLUDED

- 1.1 Pipe, fittings, valves, special valves and accessories necessary for construction of water mains and appurtenances and connecting improvements to existing system.
- 1.2 Modifications to existing water mains to connect the improvements.

2. GENERAL

- 2.1 Before installation, verify all measurements including:
 - 2.1.1 Location of appurtenances and connections to existing water mains.
 - 2.1.2 Type and location of joints on existing water mains at points of connections.
 - 2.1.3 Outside diameter of existing piping.
- 2.2 Owner will shut off existing water mains when notified by Contractor.
- 2.3 Make necessary field measurements to determine pipe laying lengths; work pipe into place without forcing or springing.
- 2.4 Details of existing pipe not guaranteed.

3. PIPE MATERIALS

- 3.1 Ductile iron pipe (DI): ANSI A21.50 manufactured in accordance with ANSI 21.51; minimum thickness, Class 52 according to AWWA C151 for 4" to 24" sizes. Standards for larger sizes as specified by the Utility.
 - 3.1.1 Enameline pipe using standard cement lining; ANSI A21.51 (AWWA C104). Coat outside of pipe with bituminous enamel. Asphalt according to AWWA C151.
 - 3.1.2 Push on or mechanical joint: In accordance with ANSI A21.15 according to AWWA C151.
 - 3.1.3 Restrained, buried joint: Pipe manufacture's standard field removal system.
 - 3.1.4 Use elastomeric gasketed push-on joints, AWWA C111; use restrained or locked joints on fittings and adjacent to downward, vertical bends.
 - 3.1.4.1 In areas of contaminated soil provide ductile iron pipe with nitrile gaskets.
 - 3.1.4.2 For other soil contaminants, special gaskets will be required by the Utility.
 - 3.1.5 Shipment and storage: do not telescope small pipe inside larger pipe for shipment or storage.
 - 3.1.6 Pipe with damage to cement mortar lining will be rejected; field patching not permitted except on cut pipe.
 - 3.1.7 Pipe markings shall include: Name of manufacturer, size and class, and spigot insertion depth gauge.
- 3.2 Polyvinylchloride pipe (PVC): AWWA C900, dimension ratio (DR) 18.
 - 3.2.1 Outside diameter shall be the same as ductile iron pipe.
 - 3.2.2 Use elastomeric gasketed push-on joints, AWWA C900; solvent cement welded joints not permitted.

- 3.2.3 Restraining system shall be manufactured integrally into pipe.
- 3.2.4 Ductile iron mechanical device designed for joint restraint complying with the requirements of ASTM F 1674.
- 3.2.5 When pipe is cut in field, deburr and bevel cut edges to prevent gasket damage.
- 3.2.6 Protect pipe from prolonged (more than one month) exposure to direct sunlight.
- 3.2.7 Pipe markings shall include: Name of manufacturer, size and class, and spigot insertion depth gauge. National Sanitation Foundation (NSF) seal.
- 3.3 Pipe Care:
 - 3.3.1 Do not telescope small pipe inside larger pipe.
 - 3.3.2 All pipe is to be handled by use of slings, hoists, skids, or other approved means.
 - 3.3.2.1 Do not insert pallet forks inside of pipe.
 - 3.3.3 Dropping or rolling of pipe materials is not permitted.
 - 3.3.4 Remove all mud and debris from interior of pipe prior to install.
 - 3.3.5 Engineer may reject defective or damaged pipe. Rejected pipe shall be removed from site.
- 3.4 Fittings: ductile iron, mechanical joint, cement mortar lined with seal coat of bituminous enamel per AWWA C104.
 - 3.4.1 Fittings for 3" through 20" size shall be compact iron per ANSI/AWWA C153/A21.53 of gray cast iron or full-sized ductile iron per ANSI/AWWA C110/A21.10. Pressure rating for gray cast iron shall be 250 psi.
 - 3.4.2 Provide EBBA, Inc., Megalug retainer glands for all fittings and valves.

- 3.5 Nuts and bolts: This section shall apply unless otherwise noted.
 - 3.5.1 All bolts and hex nuts for mechanical and flanged joints shall be high-strength “Cor-Ten”, “Usalloy”, or other high-strength, low alloy steel that is corrosion resistant as manufactured according to AWWA C111. Stainless steel strongly preferred.
 - 3.5.2 Provide ceramic-filled, baked-on, fluorocarbon resin coating for bolts and nuts.
 - 3.5.3 Include factory-applied lubricant that produces low coefficient of friction of ease of installation.
- 3.6 Polyethylene film: 8 mil thickness; black pigmentation; wrap DI pipe as recommended by manufacturer; AWWA C105; use for corrosion protection of all ductile iron pipe, fittings, appurtenances and buried, bolted connections, and where Utility determines as needed.
 - 3.6.1 Use flat tube width recommended by manufacturer for various pipe diameters.
 - 3.6.2 Use 2" x 8 mil polyethylene adhesive tape with paper backing.
- 3.7 Water service pipe: Use for all water service pipe on plans.
 - 3.7.1 Crosslinked polyethylene (PEX) pipe or approved equal.
 - 3.7.1.1 Pipe shall be approved by manufacturer for use with AWWA C800 fittings, using stainless steel inserts.
 - 3.7.1.2 Pipe shall be certified to AWWA C 904 “Cross-linked Polyethylene (PEX) Pressure Pipe, 1/2 in. (12 mm) Through 3 in. (76 mm), for Water Service” by approved testing agency. In addition, pipe shall be certified to standards ASTM F876, CSA B137.5, NSF 14, NSF 61 and PPI TR-4, by approved testing agencies, with a standard materials designation code of 3006, as certified by the PPI.

Water Mains and Appurtenances

- 3.7.1.3 Pipe shall be rated for not less than 160 psi @ 73.4°F (1379 KPa @ 23°C) based on a 0.63 design factor.
 - 3.7.1.4 Pipe shall have a co-extruded UV Shield made from UV-resistant high-density polyethylene, color Blue.
 - 3.7.1.5 Pipe shall have minimum recommended UV exposure time of one (1) year when tested in accordance with ASTM F2657, or as per manufacturer's recommendations.
 - 3.7.1.6 Pipe shall be compatible with cold-expansion compression-sleeve fittings certified to ASTM F2080 for installations as cold as -40°F (-40°C). Flared fittings are allowed for services less than 2".
 - 3.7.1.7 Manufacturer shall warrant the pipe to be free from defects in material and workmanship for a period of twenty-five (25) years.
 - 3.7.1.8 Pipe can be installed on native soil.
- 3.8 Sleeve type couplings: Standard solid black sleeves, Tyler 5-144L or approved equal; bolted straight coupling, Smith-Blair 441 or Romac Style 501, 6 bolt, 6" long, or equal; to fit pipe sizes shown on plans; use as required for connections to existing water main materials.
- 3.8.1 Sleeve: ductile iron, ASTM A536 with inside taper for uniform gasket sealing.
 - 3.8.2 Gaskets: rubber, Grade 30, standard; use all new materials.
 - 3.8.3 Follower flanges: ductile iron, ASTM A536.

3.9 Water main insulation: polystyrene board, Owens Corning FORMULAR 400, or equal.

3.9.1 Average density not less than 2.4 lb./CF; ASTM C303.

3.9.2 Compressive strength not less than 40 psi; ASTM D1621.

3.9.3 2" total thickness unless shown otherwise.

3.9.4 Thermal conductivity, k factor, not greater than 0.20 at 75EF.
(minimum R value of 5 per inch); ASTM C518.

3.9.5 Water absorption less than 0.05% (by volume); ASTM C272.

3.9.6 Watervaportransmissionaverage not greater than 0.6 perm-inch
ASTM E96.

3.9.7 Linear coefficient of thermal expansion not greater than 0.000027
in./in./EF.; ASTM D696.

4. WATER MAIN INSTALLATION

4.1 Lay pipe in dry; 5'-6" minimum earth cover over top of pipe, except where shown otherwise on plans, as required to provide clearance at existing utilities, or when otherwise directed by Engineer.

4.1.1 Install water main and appurtenances in accordance with AWWA C600 and C605.

4.1.2 Make pipe joints in accordance with AWWA C600 and C900 and as recommended by manufacturer; use minimum amount of gasket lubricant; apply to gasket only; do not apply to inside of bell.

4.2 Clean pipe interior of foreign material before lowering into trench; keep clean at all times; when pipe laying is not in progress, including lunch breaks, nights, weekends and other non-working periods, securely close open ends of pipe and fittings with watertight plug or cap.

- 4.3 Place in trench in sound, undamaged condition with uniform bearing along full length of pipe, do not use supports; do not injure pipe coating or lining; use web slings to install or move pipe; use of end hooks and dropping pipe are prohibited. No pipe shall be laid in water, nor shall water be allowed to rise in the trench around the pipe.
- 4.4 Cut pipe in neat and workmanlike manner without damage to pipe; bevel ends of pipe.
 - 4.4.1 Completely coat damaged ends of cut DI pipe with bituminous sealer; use spray-on sealer which will adhere to liner at any temperature; do not install pipe and fittings showing blisters or holes.
- 4.5 Before installation of ductile iron pipe, tap pipe lightly with light hammer to detect cracks; visually inspect pipe lining for defects; do not install defective, damaged, or unsound pipe.
- 4.6 Before installation of polyvinylchloride pipe, inspect pipe visually inside and outside for defects; do not install defective, damaged, or unsound pipe.
- 4.7 Deflect ductile iron pipe joints as required in accordance with recommendations of pipe manufacturer or 3 degrees per joint, whichever is less; use suitable fittings for larger deflections in alignment or grade.
- 4.8 Deflect polyvinylchloride pipe joints as required in accordance with recommendations of pipe manufacturer or 1-1/2 degrees per joint, whichever is less; use suitable fittings for larger deflections in alignment or grade.
- 4.9 Use ductile iron pipe for water main for the first two full pipe lengths outside of vertical offsets, for all pipe between the elbows used to make vertical offsets and where shown on plans.
- 4.10 Install tracer wire continuously along the bottom of all water main pipe. Refer to Standard Drawing WM-102, and as appropriate, WM-201.
 - 4.10.1 Trenchless: #12 AWG steel core extra high-strength hand drawn underground wire, insulated minimum thickness of 0.045", blue in color; minimum 1,150 lbs. tensile strength, Copperhead, or equal.

Water Mains and Appurtenances

- 4.10.2 Trenched: #12 AWG solid copper conductor, insulated minimum thickness of 0.045", blue in color, minimum 150 lbs. tensile strength. LLDPE insulation suitable for direct bury.
- 4.10.3 Tape tracer wire to pipe minimum 1 time to midpoint of each pipe section. Tracer wire shall be laid continuously along bottom of pipe. Tape shall be 2" wide and 10 mil thickness.
- 4.10.4 A 3M splice kit or approved equal shall be used on all splices. Splice new tracer wire to existing tracer wire. No below grade splicing shall be permitted except as authorized by the Utility.
- 4.10.5 Extend tracer wire along new main; terminate wire in tracer wire receptacle box mounted on to each fire hydrant; secure to hydrant break flange; receptacle box: AA Manufacturing Tracer Wire Receptacle Model TW-182.
- 4.10.6 Tracer wire shall be brought up the exterior of the main valve box. Drill hole into the side of the valve box approximately 6" below the lid if the valve box is not on pavement or 6" below the bottom of the pavement if the valve box is on pavement. Loop the tracer wire through the hole approximately 6" inside the valve box.
- 4.10.7 Tracer wire shall be installed on water services and attached to the main tracer wire. Install tracer wire to curb stop box and attach with stainless steel clamp 2" below grade. If new service installation ends before reaching curb stop box, tracer wire shall be attached to the existing service with a stainless-steel clamp where the connection is made.
- 4.10.8 Ground rod shall be 3/8" diameter, 60" steel rod uniformly coated with metallically bonded electrolytic copper. Install adjacent to connections to existing piping at other locations determined by the Utility.
- 4.10.9 Ground rod clamp shall be made of high-strength, corrosion-resistant copper alloy.
- 4.11 Water mains shall be separated from gravity sewers by a horizontal distance of at least 10', unless bottom of water main is at least 1'-6" above top of sewer and water main is placed in a separate trench or on a bench of undisturbed earth in same trench. If a bench is used, a minimum horizontal separation of 3' must be maintained.

Water Mains and Appurtenances

- 4.11.1 If above separations cannot be achieved, replace sewer with pipe as specified for water mains.
- 4.12 Water mains shall be separated from sewer force mains by a horizontal distance of at least 10' unless force main is constructed of water main materials; a minimum horizontal separation of 4' must be maintained.
- 4.13 Vertical separation of water mains crossing over any sanitary sewer should be at least 1'-6" when measured from bottom of water main to top of sewer; if 1'-6" separation cannot be achieved, a minimum separation of 6" shall be maintained if water main is over sewer or 1'-6" if water main is under sewer; separation distance shall be maximum possible in all cases.
 - 4.13.1 One full length of water main pipe shall be centered at sewer crossing. Water main and sewer shall be adequately supported and have watertight joints; use low permeability soil for backfill within 10' of point of crossing.
 - 4.13.2 Where sewer crosses over or less than 18" below a water main, install one full length of sewer constructed of water main pipe material, centered at sewer crossing. Water main and sewer shall be adequately supported and have watertight joints. Alternatively, the water main may be centrally placed in casing pipe supports with casing spaces and have end seals extending at least 10' to each side of crossing. Use low permeability soil for backfill within 10' of point of crossing.
- 4.14 If water main crosses below storm sewer or crosses less than 18" above storm sewer, replace the storm sewer with one full length of pipe of water main materials, or replace the storm sewer with reinforced concrete pipe with flexible gasket joints meeting ATM C443 so that the ends of the pipe joints are spaced equidistant from the crossing and extending at least 10' to each side of the crossing, or construction the watermain with ductile iron pipe nitrile gaskets or the water main may be centrally placed in a casing pipe supported with casing spacers and have end seals extending at least 10' to each side of the crossing. If physical conditions prohibit the separation in either case, water main may be placed not closer than 6" above storm sewer or 18" below storm sewer.
- 4.15 Water mains shall be separated from sewer manholes by a horizontal distance of at least 3'.

Water Mains and Appurtenances

- 4.16 Install valves with stems vertical and centered in valve box. Carefully compact backfill around valve box to required grade. Operate to ensure proper working condition and that operating nut is accessible.
- 4.17 Where construction terminates, install a valve 20' before the termination.
- 4.18 Cover pipe ends with watertight cap when pipe laying not in progress.
- 4.19 Plug or cap all pipe ends or fittings left for future connections; construct concrete thrust blocks as shown on Standard Drawing for dead ends (alternate method). Do not block end of pipe with concrete.
- 4.20 Provide restrained or locking joints on fittings and pipe joints adjacent to downward, vertical bends; thrust blocks may be required; contact the utility for further specifications.
- 4.21 Construct concrete thrust blocks at all fittings, at dead ends and at alternate pipe joints where pipe joints are deflected to accommodate small changes in pipe direction.
- 4.22 Construct thrust blocks as specified hereinafter.
- 4.23 Install 4'x8' sheets of insulation above and below water main over culverts and storm sewer as needed. Cost is incidental to construction.

5. WATER SERVICE CONNECTIONS

- 5.1 Water service installation:
 - 5.1.1 Shall comply with local plumbing and fire codes in addition to the Utilities specifications contained herein.
 - 5.1.2 All 3/4" to 1" taps shall be made on the upper half of the water main at a 45-degree angle. Taps 1½" and larger can be made at a 90-degree angle.
 - 5.1.3 A 4" main shall not receive a tap greater than 3/4".
 - 5.1.4 Service lines shall be buried at least 5' depth.

5.2 Taps and tapping saddles: ductile iron body, double stainless-steel strap, corrosion resistant nylon coating, design for use on PVC pipe or DI pipe as applicable, Rockwell Type 317, or equal.

5.2.1 Use tapping saddles for all corporation stops.

5.2.2 Use shell type cutting tool made especially for direct tapping heavy wall PVC.

5.2.3 Corporation cocks: $\frac{3}{4}$ " through 2" shall be made of brass conforming to AWWA C800, shall be suitable for tapping PCC or iron pipe as applicable and use flared copper pipe or polyethylene.

5.3 Curb stops and boxes:

5.3.1 Replace existing curb stops with new.

5.3.2 Curb stops: shall be made of brass conforming to AWWA C800, 200 psi working pressure, O-ring seals, 1/4 turn open for flared copper or polyethylene. Ford Ball Valve B11 style, or equal, for PVC service lines; Ford Ball Valve B44, or equal, for copper service lines.

5.3.3 Curb box: extension type curb box with arch pattern base, sliding extension, cast iron base and lid, 1" upper section with rod.

5.4 Size: match existing. Size will vary between 3/4" and 1" dia.

6 VALVES

6.1 Type permitting repacking or replacing O-rings under pressure when wide open.

6.2 Provide special tools required for disassembling and repacking valves.

6.3 Resilient-seated gate valves: For valves 12" or smaller. Conform with AWWA C509 or AWWA C515 and NSF 61, and the following:

6.3.1 Non-rising stem with 2" operating nut; open counterclockwise.

Water Mains and Appurtenances

- 6.3.1 Epoxy coated ductile iron valve body, ASTM A536; O-ring seals, urethane or nitrile rubber coated ductile iron wedge; bronze trim, mechanical joint ends, external bolts and hex nuts shall be stainless steel according to ASTM A20, Type 304.
 - 6.3.2 Test each valve for sealing without leakage through valve seat at 200 psi differential and without leakage through valve body and stem seals at 400 psi.
 - 6.3.3 Double O-rings permanently lubricated between seals. Lubricant certified for use in potable water.
 - 6.3.4 Approved valves: Clow Corporation, Waterous Company AFC-2500 and Mueller Company A2360-20.
 - 6.3.5 Be coated inside and out with coating meeting or exceeding AWWA C550 and have raised lettering for name of manufacturer and the year when cast on the body. Epoxy coated exterior.
- 6.4 Tapping sleeves and valves:
- 6.4.1 Valves: gate valves complying with AWWA C509 or AAWWA C515.
 - 6.4.2 Sleeves: minimum 14-gauge, stainless steel according to ASTM A 240, Type 304, working pressure of 150 psi, flanged with dimension and drillings according to AWWA C110 or ANSI B16.1 class 125.
 - 6.4.2.1 Sleeve must fully surround pipe. Minimum sleeve length:

Outlet Flange Size	Minimum Sleeve Length
4"	15"
6"	15"
8"	20"
10"	25"
12"	25"
Over 12"	As Approved by the Utility

- 6.4.3 Nitrile rubber gasket, minimum thickness 0.125".

- 6.4.4 Outlet flange shall be stainless steel complying with ASTM A 240, Type 304; ANSI B16.1, 125 pound pattern.
- 6.4.5 Hex nuts and bolts shall be stainless steel complying with ASTM A 240, Type 304.
- 6.5 Valves for buried service shall be provided with hand adjustable screw type valve box consisting of a base, center section, top section, and cover; inside minimum diameter of valve box shall be 5-1/8". Provide slide-type valve box when located in pavement. Cover shall be plainly marked on top "Water".
- 6.6 For installation within structures, use flanged joints with dimension and drillings according to AWWA C110 or ANSI B16.1 Class 125.
- 6.7 Bolts and hex nuts used on bonnet shall be manufacturer's standard, either fabricated from "Cor-Ten", stainless steel, or other alloy steel for corrosion resistance or electroplated with zinc or cadmium. The hot-dip process, in accordance with ASTM Standard Designation A-153, is not acceptable for the threaded portions of nuts and bolts.
- 6.8 For buried installations, use mechanical joints per AWWA C111.
- 6.9 Wrap valves and sleeves with polyethylene film, as specified for iron pipe.
- 6.10 Install valve boxes with all valves.

7 VALVE BOXES

- 7.1 Cast iron, Tyler, or equal, slide type when used in paved areas; all other areas screw type; cast iron cover, labeled "water"; select top and bottom sections to suit depth of cover shown on plans or specified. Inside diameter of valve box shall be at least 5-1/8".

8 FIRE HYDRANTS

- 8.1 Conform with AWWA C502 and the following:

Water Mains and Appurtenances

- 8.1.1 Independently valved, 6" diameter inlet, break flange dry barrel fire hydrants, break away items include stem coupling and flange, constructed primarily of ductile iron and highest grade of bronze customarily used by manufacturer; oil lubricated top, center stem with Buna-N O-ring seals; allow full circle rotation of nozzle section; depth of bury to match depth of cover for water main. Test rated to 300 psi.
 - 8.1.2 Two 2-1/2" dia. hose nozzles and one 4-1/2" dia. pumper nozzle with National Standard threads, caps and rubber gaskets; no cap chains. Pumper nozzle shall be equipped with factory installed 5" Storz quick connect coupling and cap. Nozzles shall be threaded or pinned, no leaded connections allowed.
 - 8.1.3 External bolts and hex nuts shall be stainless steel according to ASTM A193, Grade B 8.
 - 8.1.4 Provide 6" dia. mechanical joint inlet and 5-1/4" dia. bronze to rubber main valve, with integral bronze drain valve; designs using separate operating rods for drain valves not acceptable; open main valve counterclockwise.
 - 8.1.5 Cap and operating nut shall be Type C, counterclockwise open. Pentagon shaped, 1-1/2" point to flat operating nut.
 - 8.1.6 Auxiliary valve and valve box: use resilient-seated gate valve and valve box specified hereinbefore. Required for all hydrants.
 - 8.1.7 Approved fire hydrants: Mueller Centurion Model A-423, Clow Medallion Model 2524-4B, or Watrous Pacer Model WB-67. The Watrous Pacer WB-67 must have the following options; double top operating nut (top nut ductile iron, bottom nut bronze) with weather shield and oil reservoir.
 - 8.1.8 Finished appearance of hydrant shall be red with silver dome and caps.
- 8.2 Coat interior and exterior of fire hydrants, except exterior above grade mark, with two coats of asphalt varnish; finish exterior of hydrant above grade mark as specified herein.

Water Mains and Appurtenances

- 8.2.1 Thoroughly clean in accordance with Steel Structures Painting Council Specification SP8 (Pickling) and prime with Tnemec 10-99 or 10-99W Alkyd Rust-inhibitive Primer and two coats of Tnemec 2-2025 Tnemec-Gloss Alkyd Enamel; color: highway yellow.
- 8.2.2 Other paints may be used provided if fully compatible with paint specified herein and are approved by Owner.
- 8.2.3 Provide 2 copies of literature showing compliance with these paint and surface preparation specifications.
- 8.3 After hydrant is installed and is ready for use:
 - 8.3.1 Touch up paint as necessary to cover paint damaged during installation.
- 8.4 Wrap fire hydrants with polyethylene film, as specified for iron pipe.
- 8.5 Each hydrant shall be connected to the main by a 6" branch. Install fire hydrants with auxiliary valves and valve boxes. Auxiliary valve and valve boxes not shown on plans.

9. THRUST BLOCKS

- 9.1 Provide Class C concrete thrust blocks rated to 4000 psi at all bends, dead ends, hydrants, and at alternate joints where joints are deflected to accommodate small changes in pipe direction.
- 9.2 Extend thrust block to undisturbed edge of trench; minimum thickness of 1'-6".
- 9.3 Refer to Standard Drawing MW-101 for general arrangement of thrust blocks. Place plywood between fittings and thrust block. No bolts shall come in contact with thrust block. A sheet of plastic shall be wrapped around the pipe including the bolt circle before the concrete is placed.

9.4 Minimum bearing area of thrust blocks, SF:

<u>Pipe Size</u>	<u>90° Bend</u>	<u>45° Bend</u>	<u>11¼, 22½ Bend</u>	<u>Tee, Dead End</u>
4	3	1	2	1
6	6	3	2	4
8	11	6	3	8
10	17	9	5	12
12	24	13	7	17
14	33	18	9	23
16	43	23	12	31

10. VALVE AND HYDRANT INSTALLATION

10.1 Install valve with stem vertical and centered in box, support as required.

10.2 Wrap valves with polyethylene film, as specified for iron pipe.

10.3 Check all valve bolts when installed; tighten as necessary after water main is at operating pressure.

10.4 Carefully tamp backfill around each valve box to distance of 4' on all sides of box or to undisturbed trench face, if less than 4'.

10.5 Hydrants:

10.5.1 Install plumb, using anchoring, standard, or hydrant tee, anchoring pipe or coupling and other appurtenances as required. Set at elevation so that cover will not be less than for adjacent main; set grade mark on hydrant barrel at finished ground level.

10.5.1.1 Standard tee and anchoring elbow may be used in lieu of hydrant tee; anchoring elbows must be used where shown on plans.

10.5.2 Set on concrete foundations. Install plumb at 5' bury depth. Set at elevation required for flange to be 4" above final grade. Provide one cubic yard of pea gravel of washed rock backfill.

Water Mains and Appurtenances

- 10.5.3 Place center of lowest nozzle(s) at 16"-18" above grade with nozzles parallel to curb line and pumper nozzle pointing normal to the curb. Ensure that break flange and break coupling are at joint between barrel and nozzle section when extensions are installed.
- 10.5.4 Carefully tamp backfill around hydrant to a distance of 4' on all sides of hydrant or to undisturbed trench face, if less than 4'.
- 10.5.5 Tighten all stuffing boxes as hydrant is installed; operate hydrant in open and closed position to assure all parts are in working condition.
- 10.5.6 Block hydrant in place.
- 10.5.7 Install hydrant minimum 5' from back of curb.
- 10.5.8 Hydrant drains shall not be connected to or located within 10' of sanitary sewers and storm drains.
- 10.5.9 Tighten all valves and nuts and operate to ensure all parts are in good working condition.
- 10.5.10 Install as shown on Standard Drawing. Breakaway flange shall be 4" above finish grade.

11. TESTING

- 11.1 Water test all piping in accordance with AWWA C651. Complete in the following sequence at contractor's expense:
 - 11.1.1 Continuous-Feed or Slug Method (After installation)
 - 11.1.1.1 Perform initial flush, disinfect, flush, perform pressure and leak testing.
 - 11.1.1.2 Sequence may be modified with approval of the Engineer and Utility.
 - 11.1.2 Tablet Method (Concurrent with installation). Use only if approved by the Utility.
 - 11.1.2.1 Disinfect, flush, perform pressure and leak testing.

11.2 Initial Flushing:

11.2.1 Coordinate with the Utility

11.2.2 Flush pipe prior to disinfection using potable water to remove air. Insert taps to release trapped air.

11.2.3 Measure flushing velocity. Obtain minimum flushing velocity of 3 fps in the pipe to be disinfected. Use table below for minimum flushing rate according to AWWA C651:

Pipe Diameter (inches)	Flow Rate for Flushing (gpm)	Number of Taps			Number of 2 ½" Fire Hydrant Outlets
		1"	1 ½"	2"	
4	120	1	-	-	1
6	260	-	1	-	1
8	470	-	2	-	1
10	730	-	3	2	1
12	1,060	-	-	3	2
16	1,880	-	-	5	2

11.2.4 Protect public and private property from damage during flushing operations.

11.3 Disinfection:

11.3.1 Disinfect according to AWWA C651. Do not use the tablet method contained in AWWA C651 without approval from the Utility. Isolate chlorinated pipe from lines in service and from points of use. Coordinate disinfection with the Utility. Obtain test water samples, unless otherwise provided by the Utility.

11.3.1.1 May use liquid chlorine complying with AWWA B300 and B301 or, sodium or calcium hypochlorite complying with AWWA B300. All disinfecting agents shall be NSF 60 certified.

11.3.2 Procedure:

- 11.3.2.1 Induce a flow of potable water through the pipe and operate all valves and hydrants to assure full disinfection. Repeat test procedure if necessary.
- 11.3.2.2 Introduce highly chlorinated water to the pipe at a point within 5 pipe diameters of the pipe's connection to an existing potable system, or within 5 pipe diameters of a closed end if there is no connection to an existing system.
- 11.3.2.3 Introduce water containing a minimum of 25 mg/L free chlorine until the entire new pipe contains a minimum 25 mg/L free chlorine. Retain chlorinated water in pipe for at least 24 hours and no more than 48 hours.
- 11.3.2.4 If free chlorine residual is less than 10 mg/L at pipe extremities, repeat disinfection.

11.4 Final Flushing:

- 11.4.1 Flush pipe with potable water until chlorine residual equals that of the existing potable water system. Dispose of chlorinated water to prevent damage to the environment. Dechlorinate highly chlorinated water before releasing into ground or storm sewer. Obtain approval from the Utility prior to flushing activities.
- 11.4.2 Neutralize chlorinated residual using one of the chemicals listed below:

Residual Chlorine Concentration mg/L	Sulfur Dioxide (SO ₂) lb	Sodium Bisulfite (NaHSO ₃) lb	Sodium Sulfite (Na ₂ SO ₃) lb	Sodium Thiosulfate (Na ₂ S ₂ O ₃ + 5H ₂ O) lb	Ascorbic Acid (C ₆ O ₈ H ₆) lb
1	0.8	1.2	1.4	1.2	2.1
2	1.7	2.5	2.9	2.4	4.2
10	8.3	12.5	14.6	12.0	20.9
50	41.7	62.6	73.0	60.0	104

11.5 Pressure and leakage test:

- 11.5.1 Remove debris from within pipe, clean and swab if required.

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- 11.5.2 Secure unrestrained pipe ends against uncontrolled movement.
- 11.5.3 Provide test pumps, test plugs, pipe, and gauges necessary and make connections required for tests.
- 11.5.4 Isolate new piping from existing main. Flush water main before test to remove air; insert taps to release trapped air.
- 11.5.5 Quantity of water used for flushing will be measured by Engineer; Owner will provide water without charge for flushing for first four changes of water main contents; additional water will be billed to Contractor at prevailing rates.
- 11.5.6 Approximate contents per 100' of water main:

<u>Water Main Diameter, in.</u>	<u>Approximate Pipe Contents, gal</u>
4	65
6	147
8	261
10	408
12	588
16	1,044

- 11.6 Required flow and openings to flush water mains with 40 psi pressure in water main:

Water Main Diameter inches	Flow Required for Approx. 2.7 fps Velocity, gpm	Size of Tap inches			Number of 2½ inch Hydrant Nozzles
		1	1½	2	
4	100	1	-	-	1
6	200	-	1	1	1
8	400	-	2	1	1
10	600	-	3	2	1
12	900	-	-	2	2
16	1,600	-	-	4	2

- 11.6.1 Measure flow rate with pitot gauge if pressure is other than 40 psi in new water main; ensure flow rate is 2.5' per second, or greater.

11.6.2 Test pressure at highest point in isolated pipe. Test at 1.5 times the working pressure or 150 psi, whichever is greater, for 2 hours; allowable pressure drop during test period: 5 psi. If pressure drops to 5 psi below test pressure, repressurize the pipe by pumping in potable water. Accurately measure amount of water needed to repressurize the system. Do not pressurize more than 5 psi over the test pressure at the highest point in the isolated system.

11.6.3 Maximum allowable leakage (L), gallons per hour:

$$L = \frac{(S)(D)(P)^{1/2}}{148,000}$$

Where:

S = length of pipe section under test, feet

D = nominal pipe diameter, inches

P = average test pressure, psig

11.6.4 Allowable leakage per 1,000' of water main with average test pressure of 150 psig:

<u>Water Main Diameter, in.</u>	<u>Allowable Leakage, gal./hour</u>
4	0.33
6	0.50
8	0.66
10	0.83
12	0.99

11.6.5 Examine trench for leakage during test; if test pressure cannot be maintained within limit set out hereinbefore or if quantity of make-up water exceeds computed maximum allowable leakage, pipe section fails test.

11.6.5.1 Excavate, replace defective pipe and fittings, remake defective pipe joints and backfill at no cost to Owner; repeat test until requirements have been met.

11.6.6 After testing is completed, remove corporation cocks if not used for water service connection and install brass plugs.

11.7 Bacteria Sampling:

- 11.7.1 Test water mains according to AWWA C651, including collection of 2 consecutive sets of acceptable bacteria samples 24 hours apart. If the initial disinfection procedure fails to produce satisfactory bacteriological results or if other water quality is affected, repeat the disinfection procedure.
- 11.7.2 Collect at least 1 set of samples from every 1,200' of the new water main plus 1 set from the end of the line and at least 1 set from each branch.
- 11.7.3 If test fails, contractor shall pay for water used for additional testing and flushing.
- 11.7.4 After completion of disinfection, the Utility will collect bacteriological samples from new mains. The contractor will be responsible to deliver to a certified, independent laboratory for testing. Samples must test "SAFE". If samples test "UNSASTIFACTORY" or "UNSAFE", repeat disinfection procedures until sample tests "SAFE". Contractor responsible for all testing costs.

12. PAYMENT

- 12.1 No separate payment will be made for work covered in this part of the specifications except as set forth below. Contract unit prices shall include all costs for each item of work.
- 12.2 Tapping Valves and Sleeves, Ea.: Unit price includes furnishing and installing tapping sleeves and valves on water main under pressure, fittings and appurtenances as required, drilling, cutting, jointing, blocking and miscellaneous associated work; includes furnishing and installing valve boxes and cover.
- 12.3 Water Main Directional Bored in Place, LF: Unit price includes water main pipe directional bored in place, boring pits, fittings, tracer wire, pipe insulation as needed, testing, disinfection, and appurtenances except valves and fire hydrants and miscellaneous associated work.
 - 12.3.1 Length will be measured along centerline of pipe with no deduction for valves or fittings except as noted on plans.

Water Mains and Appurtenances

- 12.3.2 Does not include piping for hydrant assembly.
- 12.3.3 Does not include piping not used in final water distribution system.
- 12.3.4 Also includes water main installed in open cut.
- 12.4 Water Service Connections, Ea.: Unit price includes furnishing and installing corporation stop, tapping saddle and/or tee where specified for connection to main.
- 12.5 Curb Stop and Box, Ea.: Unit price includes furnishing and installing curb stop, curb box, fittings and appurtenances as required where shown on plans. Match size of existing water service pipe.
- 12.6 Water Service Pipe, Ea.: Unit price includes furnishing and installing water service pipe by directional bore method from corporation stop or tee to end of service extension or point of connection with existing service pipe, all pipe fittings connectors, excavation and backfill of boring pits, tracer wire, drilling lubricant, connection to corporation stop or gate valve and curb stop or existing service pipe, capping service pipe, and miscellaneous associated work. Does not include gate valve with box or curb stop and stop box. Match size of existing water service pipe.
 - 12.6.1 Also includes water service pipe installed in open cut.
- 12.7 Hydrant Assembly, Ea.: Unit price includes furnishing and installing hydrant, hydrant valve and hydrant valve box and cover, hydrant extensions, furnishing and installing standard or anchoring tee, anchoring coupling, anchoring pipe, anchoring elbow, where required, concrete pad, thrust block, pipe bedding, concrete blocking, excavation and backfill, painting as specified and miscellaneous associated work.

Water Mains and Appurtenances

- 12.8 Salvage Existing Fire Hydrant, Ea.: Unit price includes all costs for labor, equipment, and materials to salvage the existing fire hydrant, remove standpipe to a minimum depth of three feet below the ground surface, fill abandoned standpipe with sand and 6" of concrete, and miscellaneous associated work. Contractor shall coordinate delivery of the salvaged hydrant with the Utility.
- 12.9 Abandon Existing 4" Water Main, Ea.: Unit price includes all costs for labor, equipment and materials for excavation and backfill required for the removal of the existing valve and valve box, concrete caps as shown on plans and miscellaneous associated work, including cleanup. Contractor shall coordinate delivery of the salvaged valve and valve box with the Utility.

PART 5 - CONCRETE

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| 2. CONCRETE MATERIALS | AND CURING |
| 3. CONCRETE QUALITY | 6. FINISHING |
| 4. FORMS | 7. PAYMENT |

1. WORK INCLUDED

- 1.1 All concrete placed on project site except as specified hereinbefore.
- 1.2 Concrete for precast items and concrete surfacing replacement is covered in another part of the specifications.

2. CONCRETE MATERIALS

- 2.1 Portland cement: ASTM C150, Type I.
- 2.2 Aggregates: strong, durable, uniformly graded mineral grains conforming with ASTM C33; coarse aggregate: crushed limestone, size range: 1" to No. 4.
- 2.3 Storage:
 - 2.3.1 Cement: keep clean, dry and free from weather damage.
 - 2.3.2 Aggregates: stockpile each gradation separately on clean, non-contaminating surfaces.
- 2.4 Water: clean and free from injurious materials: ASTM C94.
- 2.5 Admixtures: applicable sections of ASTM C94, C260, C494 and C618.
 - 2.5.1 Fly ash: Class C.
 - 2.5.2 Use of calcium chloride not permitted.
 - 2.5.3 Non-shrink: Embeco by Master Builders Company, or equal.
- 2.6 Waterstop: bentonite rope waterstop, Volclay Waterstop RX 102, or equal.

Concrete

3. CONCRETE QUALITY

	<u>Class A</u>	<u>Class B</u>
3.1 Minimum compressive strength: at 28 days	4,000	2,500
3.2 Water-cement ratio: pound per pound, maximum, including water in aggregates	0.55	0.65
3.3 Minimum cement content: pounds per cubic yard	560	420
3.4 Slump: maximum 4" with no addition of water reducing admixture; with water reducer, slump per manufacturer's recommendations; ASTM C143.		
3.5 Air entrainment: 6% plus or minus 1% by volume air entrained hardened concrete; ASTM C231.		
3.6 Admixtures: per manufacturer's recommendations.		
3.7 Fly ash: Class C; maximum 15% replacement, pound for pound for specified cement content, between and including April and October.		
3.8 Concrete mix: meet approval of Engineer.		
3.9 Use Class A concrete unless shown or specified otherwise.		

4. FORMS

- 4.1 Form all concrete, unless permitted otherwise by Engineer.
- 4.2 Use metal or plywood-lined forms for exposed surfaces; erect true to line and grade; brace and tie securely.
- 4.3 Coat forms with non-staining mineral oil before placing reinforcing.

5. MIXING, PLACING, PROTECTING AND CURING

- 5.1 Provide accurate control for measuring materials.
- 5.2 Mix until mass is homogeneous and uniform in color.
- 5.3 Ready-mixed concrete: conform with specifications and with ASTM C94.

Concrete

- 5.4 Clean and dampen forms, reinforcing steel and embedded items; transfer concrete promptly from mixer to forms; thoroughly compact by tamping or vibrating.
- 5.5 Prevent segregation during placing; do not drop concrete more than 5'.
- 5.6 Place concrete continuously in each section until complete; permit not more than 30 min. between depositing adjacent layers of concrete within each section.
- 5.7 Thoroughly compact, puddle and vibrate concrete into corners and around reinforcing and embedded items.
- 5.8 Place sections of concrete in sequence which eliminates effect of shrinkage to greatest extent practicable.
- 5.9 Do not finish concrete with bleed water present on surfaces; do not over finish.
- 5.10 Surfaces: float to uniform finish with cork float; use edger on exposed edges.
- 5.11 Immediately after finishing or stripping forms, apply continuous cover of polyethylene film; thickness: 0.004"; minimum lap: 6".
 - 5.11.1 Keep film in place for 7 days.
- 5.12 Maintain concrete temperature between 60°F. and 90°F. when placing and not less than 50°F. for 72 hours after placing.
- 5.13 Do not place concrete when stormy or inclement weather is approaching or when air temperature is 38°F. or less and falling, or when darkness prevents good workmanship.

6. FINISHING

6.1 Patching:

- 6.1.1 Chip out honeycomb to sound concrete.
- 6.1.2 Fill with patching mortar: 1 part portland cement, 3 parts sand.
- 6.1.3 Fill holes left by form ties with non-shrink grout to within 1" of surface; fill with patching mortar.
- 6.1.4 Where existing concrete has been removed, patch uneven surfaces with patching mortar.

7. PAYMENT

- 7.1 No separate payment will be made for work covered under this part of the specifications. Include all costs in applicable unit prices for items to which work pertains.

PART 6 - REINFORCING STEEL

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1. WORK INCLUDED

- 1.1 Includes all reinforcing steel and wire fabric placed on project site except as specified hereinafter.
- 1.2 Reinforcing steel and wire fabric for concrete surfacing is covered in another part of these specifications.

2. REINFORCING STEEL

- 2.1 Billet steel bars: ASTM A615, Grade 60.
- 2.2 Bend cold to conform with required details; bend bars in fabricating shop before delivery to site.
- 2.3 Space properly and tie securely in position before placing concrete; tie with minimum No. 18 tie wires as directed by Engineer.
- 2.4 Lap bars 48 diameters, unless noted otherwise on plans.
- 2.5 Remove scale, rust, dirt or other coatings which may impair bond; comply with ACI 318.
- 2.6 Install reinforcing steel in correct position with preformed wire bar bolsters and spacers. Reinforcing stakes/stand shall be used to ensure reinforcing is not pushed to bottom of paving.
- 2.7 Place concrete only after reinforcing system is in place and approved by Engineer; install reinforcing system plumb and true; tie securely; reinforcing must remain in proper position without distortion or displacement of individual bars or system during pour.
- 2.8 Pavement tie bars and dowels: epoxy coated, IDOT approved.

3. WIRE FABRIC

- 3.1 Electrically welded wire fabric: ASTM A185 and A82.
- 3.2 Size and mesh: as shown on plans or specified.
- 3.3 Place securely where shown on plans.
- 3.4 Lap fabric not less than 6".
- 3.5 Remove scale, rust, dirt and other bond-impairing materials.

4. PAYMENT

- 4.1 No separate payment will be made for work covered under this part of the specifications. Include all costs in applicable unit prices for items to which work pertains.

PART 7 - EARTHWORK AND INCIDENTALS FOR PAVEMENT

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1. GENERAL

- 1.1 This part of the specifications includes earthwork and incidentals for replacement of granular surfacing, asphaltic cement concrete surfacing, and portland cement concrete pavement, driveway and sidewalk.
- 1.2 Reference to percent maximum density shall mean a soil density not less than the stated percent of maximum density of optimum moisture content for soils as determined by ASTM D698 Moisture-Density Relations of Soils using 5.5-lb. Rammer and 12-in. Drop. (Standard Proctor Method).
- 1.3 Do work in accordance with best present-day installation and construction practices.

2. EXCAVATION

- 2.1 Excavate to subgrade required for street construction.
- 2.2 Segregate topsoil to be reused. No extra payment will be made to import topsoil if contractor fails to segregate soil during excavation.
 - 2.2.1 Dispose of segregated surplus excavated material as specified in SPECIAL CONSTRUCTION.
 - 2.2.2 Provide 18" thick topsoil behind curbs.
- 2.3 Removal and disposal of existing surfacing is incidental to surface replacement.
- 2.4 Over excavate subgrade as required to remove topsoil and organic material; replace with select fill as specified hereinafter.
- 2.5 Provide temporary drainage facilities to prevent damage to public or private interests when necessary to interrupt natural drainage or flow of artificial drains.
- 2.6 Restore original drains as soon as work will permit.

- 2.7 Contractor liable for damage resulting from neglect to provide for interrupted natural or artificial drainage.
- 2.8 Do not damage pavement or disturb subgrade beneath existing pavement which will not be removed.

3. SUBGRADE PREPARATION

- 3.1 Provide uniform composition at least 12" below pavement for full width of pavement plus 2' beyond edge of pavement; roll and scarify materials, mix and recompact, or otherwise treat to produce a uniform condition.
- 3.2 Remove and dispose of stones over 4" in size from loosened portion of subgrade.
- 3.3 Construct subgrade with uniform density to width of proposed pavement plus 2' beyond edge of pavement; density: not less than 95% maximum Standard Proctor density: ASTM D698; moisture content between -1% and +3% of optimum.
- 3.4 In areas where roller cannot compact; provide approved selected material; 12" minimum thickness; compact to 95% maximum density specified hereinbefore with vibrator tamper.
- 3.5 Construct subgrade such that after rolling, surface will be at required grade and cross section.
- 3.6 Fill depressions that develop during rolling with suitable material; continue rolling until subgrade is uniformly firm, properly shaped and true to grade and cross section.
 - 3.6.1 Maintain until pavement is placed.
 - 3.6.2 Remove materials which will not compact readily under roller; replace with materials which will compact readily; again roll that portion of subgrade.
- 3.7 If ruts or other objectionable irregularities form in subgrade during construction, reshape and re-roll subgrade before placing pavement; fill ruts or other depressions with material similar to other subgrade material.

- 3.8 Draw steel shod template, IDOT 2301.07 A6, over subgrade prior to depositing concrete; check and trim subgrade to required grade and cross section.
 - 3.8.1 Use of template may be waived if subgrade has been shaped satisfactorily by suitable electronically controlled subgrade trimming machine.
 - 3.8.2 In irregular sections where use of template or subgrade trimming machine is impractical, check subgrade by most accurate practical method.

4. SUBGRADE TREATMENTS

- 4.1 Use only to correct subgrade condition where specified density cannot be obtained by other methods prior to placement of pavement; Engineer to determine type of treatment to be used or combination of types of treatment to be used in field.
- 4.2 Special backfill:
 - 4.2.1 Provide special backfill to width and thickness as directed by Engineer.
 - 4.2.2 Material: crushed stone conforming to IDOT Section 4132, Gradation No. 30 or 31.
 - 4.2.2.1 Use only well graded material with no visible signs of segregation.
 - 4.2.3 Place and compact to construct special backfill with uniform density; construct such that after rolling, surface will be at required grade and cross section; add water as required for compaction at no additional cost to Owner; maintain until pavement is placed.
- 4.3 Lime subgrade treatment for concrete pavement:
 - 4.3.1 Provide lime, 20 lbs. per square yard, in top 6" of subgrade.
 - 4.3.2 Mix until uniform consistency is obtained; add water as required for optimum moisture content and compact to specified density.
 - 4.3.3 Lime: use hydrated lime: ASTM C207, Type N.

- 4.4 Geogrid material: biaxial material of 98% minimum polypropylene and regular grid structure conforming to ASTM D4101 Group 1, Class 1, Grade 2 with 0.5% minimum carbon black per ASTM 4218; Tensar Geogrid BX1100.
 - 4.4.1 Aperture size suitable for mechanical interlock of base and geogrid; minimum of 70% open area; maximum openings: 1" (longitudinally along roll) and 1.3" (across roll).
 - 4.4.2 Tensile modulus of 14,000 lbs./ft.; flexural rigidity of 250,000 mg-cm.
 - 4.4.3 Nominal rib thickness of 0.03"; nominal junction thickness of 0.11" per ASTM D1777.
 - 4.4.4 Resistant to damage by all forms of biological and chemical degradation caused by subgrade or subbase environment.
 - 4.4.5 Avoid damage to subgrade; roll geogrid material over prepared subgrade; extend geogrid material minimum 1' beyond back of curb line; cut to conform to fixtures; pin overlaps to provide anchorage.
 - 4.4.6 Overlap geogrid material joints minimum 2' both transverse and longitudinal; overlap on 31' wide street pavement may be reduced to 1.5' to accommodate manufacturer's standard geogrid material widths in longitudinal lap joints only.
 - 4.4.7 Overlap geogrid material in direction granular base will be spread.
 - 4.4.8 Anchor geogrid material to subgrade as recommended by manufacturer.

5. ABUTTING PAVEMENTS

- 5.1 Drill into existing portland cement concrete slabs and curbs abutting new portland cement concrete pavement and curbs and install dowels as detailed in IDOT Standard Road joint details RD, RT and BT-1; cost is incidental to pavement construction.

6. PAYMENT

- 6.1 No separate payment will be made for work covered in this part of the specifications. Include all costs in applicable unit prices for items to which work pertains.

PART 8 - PORTLAND CEMENT CONCRETE PAVEMENT

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1. GENERAL

- 1.1 This part of the specifications includes all portland cement concrete surfacing replacement including construction of portland cement concrete curb and gutter, portland cement concrete driveway and portland cement concrete sidewalk using preset forms or slipform on prepared subgrade or subbase.

- 1.1.1 Prepare subgrade as specified in EARTHWORK AND INCIDENTALS FOR PAVEMENT.

2. MATERIALS

- 2.1 Portland cement: ASTM C150, Type I.

2.2 Admixtures:

- 2.2.1 Air entraining: ASTM C260; no admixtures containing chlorides will be permitted.
- 2.2.2 Retarding: ASTM C494; a suitable retarding admixture may be used during hot weather, with approval of Engineer.
- 2.2.3 Calcium chloride not permitted.

2.3 Fine aggregate:

- 2.3.1 Clean, hard, durable particles of natural sand, free from injurious amounts of silt, shale, coal, organic matter or other deleterious substances.

Portland Cement Concrete Pavement

- 2.3.2 Deleterious substances: not more than 2.0% shale and coal by weight retained on No. 16 sieve.
- 2.3.3 Organic matter: other than coal, not more than standard reference color; ASTM C40.
- 2.3.4 Conform to following sieve analysis:

<u>Sieve Size</u>	<u>% Passing</u>
3/8"	100
No. 4	90-100
No. 8	70-100
No. 30	10-60
No. 200	0-1.5

- 2.3.5 Percent passing one sieve and retained on next higher number sieve not more than 40% when sieved through 4 and 8 numbered sieves.
- 2.3.6 Mortar strength at 7 days not less than 1.5 times standard sand strength when tested in accordance with IDOT Laboratory Test Method 212.

2.4 Coarse aggregate:

- 2.4.1 Clean, hard, durable particles of crushed limestone free from injurious amounts of objectionable materials.

- 2.4.2 Objectionable materials not more than:

	<u>Percent</u>
Clay lumps	0.5
Coal and carbonaceous shale	0.5
Sticks (wet weight)	0.1
Total of all shale and coal combined	1.0
Organic material other than coal and sticks	0.0
Unsound chert particles retained on 3/8" sieve	3.0

- 2.4.2.1 Chert particles breaking into three or more pieces in freezing and thawing test, IDOT Laboratory Test Method 211, Method A, are considered unsound.

2.4.3 Conform to following sieve analysis:

<u>Sieve Size</u>	<u>% Passing</u>
1-1/2"	100
1"	50-100
3/4"	30-100
1/2"	20-75
3/8"	5-55
No. 4	0-10
No. 8	0-5
No. 200	0-1.5

2.4.4 Percent of wear, AASHTO T96, Grading A or B, not to exceed 35 for gravel, 50 for crushed stone which contains 90% or more calcium carbonate or 45 for all other crushed stone.

2.4.5 Particle durability: IDOT Section 4115.04, Class 2 or Class 3.

2.5 Water: clean and clear, free from salt, oil, acid, strong alkalis, vegetable matter or other substances injurious to concrete.

2.5.1 Water may be heated for cold weather paving operations; cold weather concrete temperature shall not be less than 70°F.; anti-freezing agents not permitted.

2.6 Reinforcing steel:

2.6.1 Deformed bars: billet steel; ASTM A615, Grade 40; epoxy coated.

2.6.2 Plain and smooth dowel bars: carbon steel; ASTM A306, Grade 60; epoxy coated.

2.6.3 Welded wire fabric: ASTM A185.

2.7 Metal expansion tubes:

2.7.1 Fabricated steel tubes; conform to requirements of IDOT; provide tubes with internal diameter 1/16" larger than dowel bar; bar stop capable of withstanding 20 lb. push, minimum.

2.8 Supports for reinforcing steel:

- 2.8.1 Support tie bars as required to place and maintain correct location during construction.
- 2.8.2 Welded wire fabric supports: heavy gauge wire, welded or bent to form four-legged chair.
- 2.8.3 Support dowel bars at expansion and contraction joints.

2.9 Joints:

- 2.9.1 Bituminous joint filler and sealer: hot poured joint filler: ASTM D3405; use with backer rope; comply with IDOT 2301.25.
 - 2.9.2 Preformed expansion joint filler: asphalt saturated fiber strips; AASHTO M213; furnish in strips of plan dimensions; use IDOT preformed joint seal.
- 2.10 Liquid curing compound: IDOT 4105.05; do not use in areas to receive asphalt overlay; use plastic or burlap.
- 2.11 Plastic film: opaque, white pigmented polyethylene plastic, 0.00085" minimum thickness, use only once if less than 0.0034" thick.
- 2.12 Fly ash: permitted as substitute for portland cement when source and mix design is in conformance with IDOT Standard Specifications and Supplemental Specifications.

3. STORAGE AND PROTECTION OF MATERIALS

3.1 Aggregates:

- 3.1.1 Store fine and coarse aggregate in separate stockpile; avoid contamination of aggregates; place fine aggregate with more than 5.0% moisture in separate stockpile and allow to drain; wet fine aggregates in stockpiles must be allowed to drain for 1 day.
- 3.1.2 Stockpile coarse aggregate and unscreened gravel in horizontal layers; maximum depth: 4'.

- 3.1.3 Handle aggregates to avoid frequent variations in specific gravity, sieve analysis or moisture content; prevent variations of more than 0.5% in moisture content of aggregates in successive batches.
- 3.1.4 Coarse aggregate having absorption greater than 0.5%: wet 1 hour before use.
- 3.1.5 Place fine aggregate in proportioning bin only when uniform moisture content can be maintained in successive batches for one day's run.
- 3.2 Cement:
 - 3.2.1 Store cement in suitable weatherproof structure; prevent loss of cement during handling.
 - 3.2.2 Use cement containing lumps only after careful screening through 20 mesh screen; retest in accordance with ASTM C150 before use.

4. PROPORTIONS FOR MIX

- 4.1 Mix proportions for curb and gutter and sidewalks; use C-4 or M-4 mix. Mix proportions for pavement and drive approaches; use M-4 mix.
 - 4.1.1 Basic absolute volumes of materials per unit volume of concrete as per IDOT Section 2301.04:

	<u>C-4</u>	<u>M-4</u>
Cement Minimum	0.118	0.156
Water	0.159	0.160
Entrained Air	0.06	0.06
Fine Aggregate	0.331	0.312
Coarse Aggregate	0.332	0.312
 - 4.1.2 Above quantities based on specific gravity of cement: 3.14; specific gravity of aggregates: 2.65; air voids: 6.0%.
 - 4.1.3 Air entraining admixture: produce 6.5% +/- 1.5% air voids in fresh concrete measured by pressure method.

4.2 Proportion adjustments:

4.2.1 Basis: when actual quantity of concrete is more than 101% or less than 99% of calculated quantity or if combination of materials does not produce quality of concrete specified.

4.2.1.1 Fine aggregate shall not exceed 50% of total aggregate in any adjustment.

4.2.1.2 Do not exceed maximum water-cement ratio specified.

4.3 Water quantity and concrete consistency:

4.3.1 Use proper amount of mixing water to produce concrete of uniform consistency; adapt to mix, characteristics of materials used, methods of consolidation, weather conditions and slope of finished surface.

4.3.2 Modify proportion if maximum water-cement ratio does not produce workability; increase cement to aggregate proportion to produce specified degree of workability without exceeding maximum water-cement ratio.

4.4 Tests on trial batches and concrete placed at project site:

4.4.1 Slump: ASTM C143; 1-1/2" to 3" for machine finished concrete; 4", maximum, for hand finished concrete.

4.4.2 Air voids, of fresh concrete, by pressure method: ASTM C231; 6.5% +/- 1.5%.

4.4.3 Minimum compressive strength: ASTM C39; 3,500 psi when tested at 7 days and 4,000 psi when tested at 28 days.

4.4.4 Quantity of compression cylinders as specified in GENERAL REQUIREMENTS; cast, protect and cure cylinders in accordance with ASTM C31.

5. MIXING

5.1 Batch mix:

5.1.1 Handle batches and charge mixer to insure complete introduction of batches separately without loss of materials; add water with other materials.

5.1.2 Maximum batch volume:

<u>Mixer Size Designation</u>	<u>Volume of Batch CF of Mixed Concrete</u>
16E	17.6
27E	29.7
34E	37.4

5.1.2.1 For other size mixers, do not allow batch volume of mixed concrete to exceed mixer size designation number.

5.1.2.2 Size designations: as shown in Concrete Mixer Standards of Mixer Manufacturers Bureau of Associated General Contractors of America, Inc. in effect at time of manufacture of mixer.

5.1.3 If uniform concrete cannot be produced with maximum batch volume; reduce batch volume and/or increase mixing time.

5.2 Ready-Mix:

5.2.1 Applies to either central plant-mixed concrete or central plant-proportioned, truck-mixed concrete.

5.2.2 Time lapse from addition of water until placing on subgrade: not to exceed 30 min. when concrete is hauled in nonagitating trucks; 1-1/2 hours when hauled in truck mixers or agitating trucks; provide reliable reset-revolution counter on truck mixer.

5.2.3 Place concrete in plastic and workable condition; do not retemper partially hardened concrete.

6. EQUIPMENT REQUIREMENTS FOR PAVEMENT CONSTRUCTION

- 6.1 Batch or ready-mix plant: IDOT 2001.06, 2001.20 and 2001.21.
 - 6.1.1 Automatic cut-off gates at cement batching scale not required.
 - 6.1.2 Scales and measuring devices certified at Contractor's expense.
- 6.2 Concrete mixing equipment: IDOT 2001.21.
- 6.3 Forms: IDOT 2301.07 A1 and A2.
- 6.4 Form-line excavating machine: IDOT 2301.07 A5 or B1.
- 6.5 Steel-shod template: IDOT 2301.07 A6 or B2.
- 6.6 Consolidating and finishing equipment: IDOT 2301.07 A7 or B3.
- 6.7 Equipment for hand methods: IDOT 2301.07 D and E.
- 6.8 Alternate equipment and methods for finishing and consolidating pavement may be permitted by Engineer if satisfactory operation and construction on previous projects can be demonstrated.

7. CONSTRUCTION

- 7.1 Setting and removing forms:
 - 7.1.1 Set forms accurately to required grade and alignment on properly compacted subgrade or subbase; for forms to support mechanical subgrader, mechanical spreader, mechanical finisher or other similar heavy equipment, excavate with machine designed to shape subgrade for forms.
 - 7.1.2 Set base of form at or below subgrade elevation and with top of form at pavement surface elevation at edge of slab.
 - 7.1.2.1 Extra height forms may be used to back up integral curb; set base at or below subgrade elevation and top of form at top of curb elevation.

Portland Cement Concrete Pavement

- 7.1.2.2 Comply with IDOT 2301.9A if base of form is set below subgrade elevation; additional excavation and concrete at no cost to Owner.
- 7.1.3 Secure forms in place to maintain grade and alignment while concrete is placed and finished.
 - 7.1.3.1 If voids occur under forms, remove forms and bring special backfill to proper elevation as specified in EARTHWORK AND INCIDENTALS FOR PAVEMENT.
 - 7.1.3.2 Check form joints with 10' straight edge; adjust forms to proper grade and alignment.
- 7.1.4 If supporting soil becomes softened by rain or standing water so form is inadequately supported, reset form on suitable material before placing concrete.
- 7.1.5 Oil forms before concrete is placed; prevent adherence of concrete.
- 7.1.6 Leave side forms in place not less than 6 hours after concrete is placed; if form removal causes damage to concrete, leave remaining forms in place longer than 6 hours, as required.
- 7.1.7 Remove forms with care to prevent cracking, spalling or overstressing concrete; remove form stakes prior to raising forms.
- 7.1.8 Clean forms before resetting.
- 7.1.9 Forms not required where abutting existing pavement.
- 7.2 Concrete and steel placement:
 - 7.2.1 Uniformly moisten subgrade or place plastic film, specified hereinbefore, on prepared subgrade or subbase; lap plastic film 12", minimum.
 - 7.2.2 Adjust manhole and other castings within area to be paved to conform to finished surface; clean outside of casting.

Portland Cement Concrete Pavement

- 7.2.3 Place dowel and tie bars as shown on plans or specified; secure in position by approved method.
- 7.2.4 Place concrete to full depth of pavement in single operation; do not pile concrete more than 8" above design elevation of surface; allow no segregation of material when concrete is deposited on subgrade.
- 7.2.5 Carefully place concrete and subgrade to require minimum rehandling; minimize disturbance of reinforcement.
- 7.2.6 Vibrate and consolidate to prevent formation of voids; do not displace or distort reinforcement.
- 7.3 Finishing:
 - 7.3.1 Begin finishing operations promptly after concrete has been placed and consolidated.
 - 7.3.2 Screed surface to grade and crown shown on plans.
 - 7.3.3 Finish surface with 10' long lightweight float; finish from both sides simultaneously if pavement is placed to full width of street with one pass of paving machine.
 - 7.3.4 Provide uniformly gritty surface with AstroTurf drag; round edges of pavement to 1/8" radius.
 - 7.3.5 Check pavement surface with 10' long straightedge; maximum permissible deviation: 1/8"; grind high spots, over 1/8", with carborundum grinding wheel.
- 7.4 Construct joints per SUDAS and specified; seal as specified hereinafter.
 - 7.4.1 Transverse, longitudinal, and curb & gutter jointing shall match existing pavement.
 - 7.4.2 Round edges of concrete adjacent to header boards and expansion joint material to 1/8" radius.

- 7.4.3 Provide supplemental vibration adjacent to header boards and expansion joint material as required.
- 7.4.4 Begin saw cutting as soon as concrete can be sawed without objectionable tearing of sawed edges; complete such work within 24 hours after concrete is placed.
- 7.4.5 For weather conditions, end of day's work, or when 30 min. elapse between concrete placement, install header board and 3/4" smooth dowels 1'-3" long at 1'-6" spacing through header board; grease protruding ends prior to next concrete placement.
- 7.5 Seal all joints before pavement is opened to Contractor's forces and general traffic; seal only dry and clean joint surfaces; slightly under-fill joints, keep sealer off of adjacent pavement.
 - 7.5.1 Heat joint sealer to required temperature in thermostatically controlled heating kettle approved by Engineer; do not overheat.

8. CURING AND PROTECTION

- 8.1 Apply liquid curing compound in fine spray to form continuous, uniform film on surface and vertical edges of pavement and curbs.
 - 8.1.1 Apply compound with power sprayer, operating at 40 psi or less; rate of application: 0.03 gal. per square yard (1 gal. per 300 SF); do not dilute compound.
 - 8.1.2 Apply to pavement surface after finishing and after surface moisture has disappeared; apply to pavement edges within 30 min. after forms are removed.
- 8.2 Apply plastic or burlap cover where liquid curing compound not permitted; keep continuously damp for 48 hours after placement of concrete.

Portland Cement Concrete Pavement

- 8.3 Concrete pavement in place for less than 36 hours shall be protected during cold weather as follows:

Forecast or Actual

Temperature

35° to 32°F.

31° to 25°F.

Below 25°F.

Protection

One layer of burlap for concrete placed after October 1.

Two layers burlap or one layer plastic film on one layer burlap.

One layer burlap or plastic film and 6" layer of straw or hay.

- 8.3.1 Burlap: AASHTO M182, Class 3.

- 8.3.2 Commercial insulation may be substituted for straw or hay, when approved by Engineer.

- 8.3.3 Protect straw, hay or insulation from disturbance by wind; leave in place for 5 days, minimum, or until pavement is opened to traffic.

- 8.3.4 Lap plastic film 18" at junctions.

- 8.4 Concrete damaged by rain or freezing shall be removed and replaced at Contractor's expense.

9. RESTRICTIONS

- 9.1 Weather:

- 9.1.1 Place no concrete when stormy or inclement weather prevents good workmanship, when subgrade is frozen or if air temperature is 38°F. or below; use no aggregates containing frozen lumps.

- 9.1.2 With favorable weather conditions, start paving operations when temperature of concrete delivered to subgrade is 40°F. or higher.

- 9.1.3 Continue paving operations as long as concrete temperature requirement is met and air temperature remains above 38°F.

9.2 Night operation:

- 9.2.1 Place no concrete when darkness prevents good workmanship in placing and finishing.
- 9.2.2 Do not place or finish concrete under artificial light.

9.3 Use of pavement:

- 9.3.1 Time for opening pavement for use will be determined by results of tests on cylinders taken during concrete placement.
- 9.3.2 Contractor may elect to take a third set of cylinders at his own expense to be broken when Contractor desires; if tests show a compression strength of 4,000 psi or higher, Contractor may open pavement to general traffic.
- 9.3.3 Open pavement to general traffic when authorized by Engineer.
- 9.3.4 Concrete placed in cold weather may require additional curing time, as directed by Engineer; keep all vehicles off pavement until such curing time has been completed.

10. DEFECTS AND DEFICIENCIES

- 10.1 Pavement containing fractures, spalls, more than one random crack per panel or other defects: remove and replace at no cost to Owner; grout and seal random cracks including placement of saw cut and epoxy cemented tie bars at 30" centers transverse to crack where crack is 1/8" or wider.
- 10.2 Water ponding deeper than 1/4" in gutter: remove and replace panel, or grind gutter in adjacent panels to drain; Owner reserves the right to select method of correcting defects at no cost to Owner.
- 10.3 Remove and replace pavement if mud or mud balls appear.

11. DRIVEWAY APPROACH AND SIDEWALK CONSTRUCTION

11.1 Conform to details shown on Standard Drawing and plans for driveway approaches and sidewalks; prepare subgrade as specified under EARTHWORK AND INCIDENTALS FOR PAVEMENT.

11.1.1 Does not include granular surfacing driveway approach.

11.2 Remove existing concrete as shown on Standard Drawings or plan; use saw or other devices to cut smooth, even lines perpendicular to existing pavement surface.

11.3 Concrete materials:

11.3.1 Portland cement, admixtures, fine aggregate and water; as specified for pavement.

11.3.2 Coarse aggregate: as specified for pavement, except conform to following sieve analysis:

<u>Sieve Size</u>	<u>% Passing</u>
1-1/2"	100
1"	95-100
1/2"	25-60
No. 4	0-10
No. 8	0-5
No. 200	0-1.5

11.4 Concrete mix: use IDOT Section 2301.04 C-4 mix as specified for street pavement.

11.5 Forms: use wood or steel forms adequately staked and braced for all exposed slab edges; secure forms in place to maintain grade and alignment while concrete is placed and finished.

11.5.1 Set base of form at subgrade elevation or below with top of form at pavement surface elevation at edge of slab; set forms on properly compacted materials.

11.5.2 Where driveway abuts new pavement slab, fill over-excavated area with pipe bedding stone as specified for sewers to bottom of driveway slab; cost is incidental to construction.

Portland Cement Concrete Pavement

- 11.5.3 Oil forms before concrete is placed.
- 11.5.4 Leave forms in place not less than 24 hours after concrete is placed.
- 11.5.5 Remove forms with care to prevent cracking, spalling or overstressing concrete.
- 11.6 Concrete placement: as specified for plain pavement; provide supplemental vibration or spading at edges, joints and other areas where honeycombing may occur.
- 11.7 Screed to uniform lines; finish surface with wood or cork float.
- 11.8 Construct expansion joints at each property line and at intervals not greater than 100'; seal joints after concrete has cured; use applicable materials specified for pavement expansion joints.
- 11.9 Cure and protect driveway approaches and sidewalks as specified for pavement.
- 11.10 Restrictions on construction and use of pavement apply to driveway approaches and sidewalks.
- 11.11 Provide and install raised dome detectable warning panels at all pedestrian curb ramps located at intersections. Installation per manufacturer's recommendations. Panel shall be manufactured by ADA Solutions, Inc. or an Engineer approved equivalent; Clay Red (Federal Color No. 22144).

12. ABUTTING PAVEMENTS

- 12.1 Drill into existing portland cement concrete slabs and curbs abutting new portland cement concrete pavement and curbs and install dowels as detailed in IDOT Standard Road joint details RD, RT and BT-1; cost is incidental to pavement construction.

13. PAYMENT

- 13.1 No separate payment will be made for work covered under this part of the specifications except as set forth below. All other items are incidental to construction. Surfacing damaged by Contractor beyond removal limits replaced by Contractor at no cost to Owner.

Portland Cement Concrete Pavement

- 13.2 Portland Cement Concrete Pavement, Remove & Replace, 4", SY: Unit price includes furnishing all labor, equipment and materials necessary to complete work required for removal of existing walks, construction of new portland cement concrete sidewalks including subgrade preparation, forming, placing, consolidating, testing, finishing, jointing, curing, and miscellaneous associated work including cleanup.
 - 13.2.1 Sidewalk thickness: minimum thickness is 4" except at pedestrian curb ramps where minimum thickness is 6" and thickened to 8" where sidewalk forms or abuts curb. Common squares shall be 6" min. Additional thickness is incidental to cost of 4" sidewalk.
 - 13.2.2 Welded wire fabric not required for sidewalks.
 - 13.2.3 Detectable warnings (raised domes) paid for in addition to payment for underlying walk beneath the domes.
- 13.3 Portland Cement Concrete Pavement, Remove & Replace, 8", SY: Unit price includes furnishing all labor, materials and equipment for jointing, dowels, forming, fixture adjustment, subgrade, testing, consolidating, finishing and curing of concrete and incidental work including cleanup. Includes street pavement. Measurement based on surface area of new pavement from back of curb to back of curb and including headers, curb and gutter, and buried lugs.
 - 13.3.1 Includes removal and disposal of existing PCC pavement.
 - 13.3.2 Minimum thickness:
 - 13.3.2.1 8" for street pavement.
- 13.4 Detectable Warning Panels, SF: Unit price includes furnishing panel, installation, placing, and miscellaneous associated work. Measurement Based on surface area of new panel in place.

PROPOSAL

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS
INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA

Name of Bidder _____

Address of Bidder _____

To: Board of Trustees
Indianola Municipal Utilities
210 West 2nd Avenue
Indianola, Iowa 50125

The undersigned bidder submits herewith bid security amounting to five percent (5%) of the total amount of the bid which shall become the property of the Indianola Municipal Utilities, Indianola, Iowa, should the undersigned fail or refuse to execute a contract and to furnish bond as called for in the specifications within the time provided.

The undersigned bidder, having examined the contract documents, and having familiarized himself with the nature and location of the work to be done and the conditions under which the work will be performed, hereby proposes to provide the required labor, services and materials and to perform the work described in the specifications, and addenda _____, _____, _____ and _____, within the time and for the sum or sums stated hereinafter on attached proposal schedule which is hereby made a part of this proposal.

The undersigned bidder certifies that this proposal is made in good faith, without collusion or connection with any other person or persons bidding on the work.

The undersigned bidder states that this proposal is made in conformity with the specifications and agrees that in the event of any discrepancies or differences between any conditions of his proposal and the specifications prepared by VEENSTRA & KIMM, INC. that the provisions of the latter shall prevail.

Bidder _____

By _____

Title _____

P-1

285115

PROPOSAL SCHEDULE

EAST 3RD AVENUE WATER MAIN IMPROVEMENTS

1. Construct East 3rd Avenue Water Main Improvements for the following unit and lump sum prices:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Extended Price</u>
1.1	Mobilization	LS	xxxxx	_____	\$ _____
1.2	Traffic Control	LS	xxxxx	_____	_____
1.3	Construction Staking	LS	xxxxx	_____	_____
1.4	Water Main Directional Bored, PVC, 8"	LF	410	_____	_____
1.5	Hydrant Assembly	EA	1	_____	_____
1.6	Water Service Connections	EA	6	_____	_____
1.7	Curb Stop and Box	EA	6	_____	_____
1.8	Water Service Pipe	LF	200	_____	_____
1.9	Tapping Sleeve & Valve, 12"x8"	EA	1	_____	_____
1.10	Pavement, PCC, Remove & Replace, 8"	SY	20	_____	_____
1.11	Pavement, PCC, Remove & Replace, 4"	SY	68	_____	_____
1.12	Detectable Warning Panels	SF	16	_____	_____
1.13	Salvage Existing Fire Hydrant	EA	1	_____	_____
1.14	Abandon Existing 4" Water Main	EA	1	_____	_____

				<u>Proposal</u>	
<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Extended Price</u>
1.15	Sod	SQ	10		
TOTAL BID					
(Items 1.1 - 1.15) \$					

2. The work will commence within ten (10) calendar days after the date set forth in written Notice to Proceed and shall be completed by October 31, 2025.
3. Liquidated damages in the amount of Five Hundred Dollars (\$500.00) per consecutive calendar day will be assessed for each day that the project is not completed after October 31, 2025.
4. Required attachment:
 - Bidder Status Form
 - Bid Bond

To be completed by all bidders	Part A
---------------------------------------	---------------

Please answer "Yes" or "No" for each of the following:

☐ Yes ☐ No My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet on the next page).

☐ Yes ☐ No My company has an office to transact business in Iowa.

☐ Yes ☐ No My company's office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.

☐ Yes ☐ No My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.

☐ Yes ☐ No My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.

If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.

If you answered "No" to one or more questions above, your company is a nonresident bidder. Please complete Parts C and D of this form.

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: _____
City, State, Zip: _____

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: _____
City, State, Zip: _____

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: _____
You may attach additional sheet(s) if needed. City, State, Zip: _____

1. Name of home state or foreign country reported to the Iowa Secretary of State:

2. Does your company's home state or foreign country offer preferences to resident bidders, resident labor force preferences or any other type of preference to bidders or laborers? ☐ Yes ☐ No

3. If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

You may attach additional sheet(s) if needed.

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be a reason to reject my bid.

Firm Name: _____

Signature: _____ Date: _____

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Worksheet: Authorization to Transact Business

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

- ☐ Yes ☐ No My business is currently registered as a contractor with the Iowa Division of Labor.
- ☐ Yes ☐ No My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.
- ☐ Yes ☐ No My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.
- ☐ Yes ☐ No My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.
- ☐ Yes ☐ No My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa secretary of state, has filed its most recent biennial report with the secretary of state, and has neither received a certificate of withdrawal from the secretary of state nor had its authority revoked.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.
- ☐ Yes ☐ No My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.

BID BOND

KNOW ALL MEN BY THESE PRESENTS: That we, _____

_____, of, _____,

as Principal, and _____

of _____,

as Surety, are held and firmly bound unto the Indianola Municipal Utilities, Indianola, Iowa, hereinafter defined as Obligee, in the penal sum of five percent (5%) of the total amount of the bid (\$_____), for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Indianola Municipal Utilities, Indianola, Iowa, a certain bid, in a sealed envelope, and hereby made a part hereof to enter into a contract in writing, for: East 3rd Avenue Water Main Improvements.

NOW THEREFORE, if the said bid by said Principal be accepted, and the Principal shall enter into a contract with the Obligee in accordance with the terms of such bid, and give such bond as may be specified in the contract documents with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void or in the event of the failure of the Principal to enter such contract and give such bond, the Principal shall pay to the Obligee the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this _____ day of _____, 2025.

Principal

By _____
Contractor's Signature

Surety

By _____
Attorney-in-Fact

BB-1

285115



VEENSTRA & KIMM INC.

3000 Westown Parkway
West Des Moines, Iowa 50266

515.225.8000 // 800.241.8000
www.v-k.net

Date: **May 12, 2025**

ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST

Project Title		East 3rd Avenue Water Main Improvements Indianola Municipal Utilities Indianola, Iowa						
BID ITEMS								
Bid Item No.	Specification Section / Description	Unit		Estimated Quantity		Unit Price		Extended Price
1.1	Mobilization	LS		100%		\$ 30,000.00		\$ 30,000.00
1.2	Traffic Control	LS		100%		\$ 2,500.00		\$ 2,500.00
1.3	Construction Staking	LS		100%		\$ 3,500.00		\$ 3,500.00
1.4	Water Main Directional Bored, PVC, 8"	LF		410		\$ 110.00		\$ 45,100.00
1.5	Hydrant Assembly	EA		1		\$ 10,200.00		\$ 10,200.00
1.6	Water Service Connections	EA		6		\$ 3,500.00		\$ 21,000.00
1.7	Curb Stop and Box	EA		6		\$ 1,250.00		\$ 7,500.00
1.8	Water Service Pipe	LF		200		\$ 50.00		\$ 10,000.00
1.9	Tapping Sleeve and Valve, 12"x8"	EA		1		\$ 9,500.00		\$ 9,500.00
1.10	Pavement, PCC, Remove and Replace, 8"	SY		20		\$ 350.00		\$ 7,000.00
1.11	Pavement, PCC, Remove and Replace, 4"	SY		68		\$ 175.00		\$ 11,900.00
1.12	Detectable Warning Panels	SF		16		\$ 50.00		\$ 800.00
1.13	Salvage Existing Fire Hydrant	EA		1		\$ 500.00		\$ 500.00
1.13	Abandon Existing 4" Water Main	EA		1		\$ 3,500.00		\$ 3,500.00
1.14	Sod	SQ	10	\$ 200.00	\$ 2,000.00			

TOTAL ESTIMATED CONSTRUCTION COST \$ 165,000.00

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities

From:

Date: May 12, 2025

Subject: Resolution approving the final plans, specifications, form of contract and estimate of cost for East 3rd Ave Water main Improvement

Recommendation: Resolution approving the plans, specifications, form of contract and estimate of cost.

Agenda document is the resolution approving the plans, specifications, form of contract and estimate of cost.

Board action is to approve this resolution by roll call vote.

Attachments: 1. Res 2025 Approving the Final Plans, Specifications, Form of Contract and Estimate of Cost for the East 3rd Avenue Water Main Improvements Project

Indianola Municipal Utilities

RESOLUTION APPROVING THE FINAL PLANS, SPECIFICATIONS, FORM OF CONTRACT, AND ESTIMATED COST FOR THE EAST 3RD AVENUE WATER MAIN IMPROVEMENTS PROJECT

WHEREAS, the Indianola Municipal Utilities Board Of Trustees has authorized the preparation of the proposed plans, specifications, contract documents, and an estimate of cost for East 3rd Avenue Water Main Improvements Project; and

WHEREAS, the Indianola Municipal Utilities Board of Trustees has deemed it necessary and desirable to undertake the construction of the Project; and

WHEREAS, IMU has provided notice for a public hearing and notice to bidders regarding the proposed plans, specifications, and form of contract for the Project, and the acceptance of bids; and

WHEREAS, a public hearing has been held regarding objections to the proposed plans, specifications, form of contract, and the cost of the Project, and no objections were raised.

NOW, THEREFORE, BE IT RESOLVED by the Indianola Municipal Utilities Board Of Trustees that the plans, specifications, and form of contract, and estimate of cost referred to in the preamble hereof be and the same are hereby approved, and the aforementioned public improvement to be constructed in accordance with the plans, specifications and form of contract is necessary and desirable.

PASSED AND APPROVED this 12th day of May 2025.

Dom Selgrade, Chairperson

ATTEST:

Monica Thompson, Board Secretary

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities

From:

Date: May 12, 2025

Subject: Resolution awarding and approving contract to Morris Enterprises for the East 3rd Avenue Water Main Improvement.

Recommendation: Resolution awarding and approving a contract.
Agenda document is the resolution awarding and approving a contract.
Board action is to approve this resolution by roll call vote.

Attachments:

1. 285115_Recommendation to Award w Encl_E 3rd Ave WM
2. Res 2025-Approving and Awarding contract and bond for the East 3rd Avenue Water Main Improvement



VEENSTRA & KIMM INC.

6775 Vista Drive
West Des Moines, Iowa 50266

515.225.8000 // 800.241.8000
www.v-k.net

May 9, 2025

Monica Thompson
Board of Trustees Secretary
Indianola Municipal Utilities
210 W 2nd Avenue
Indianola, Iowa 50125

INDIANOLA MUNICIPAL UTILITIES
EAST 3RD AVENUE WATER MAIN IMPROVEMENTS
RECOMMENDATION TO AWARD

The Indianola Municipal Utilities received bids until 2:00 P.M., Thursday, May 8, 2025, for the East 3rd Avenue Water Main Improvements project. A total of four bids were received as follows:

<u>Contractor</u>	<u>Total Bid</u>
Morris Enterprises, Inc.	\$135,231.00
Vanderpool Construction, Inc.	\$151,950.00
On Track Construction, LLC	\$172,300.00
Absolute Group	\$184,945.00

The apparent low bid was submitted by Morris Enterprises, Inc. from Clutier, Iowa in the amount of \$135,231.00.

The engineer's estimate of cost for construction of the project was \$165,000.00.

We recommend the Indianola Municipal Utilities award the contract to Morris Enterprises, Inc. in the amount of \$135,231.00.

Enclosed is a copy of our tabulation of bids.

Monica Thompson

May 9, 2025

Page 2

If you have any questions or comments concerning the project, please contact us at 515-225-8000.

VEENSTRA & KIMM, INC.

A handwritten signature in blue ink that reads "Vincent Driscoll". The signature is written in a cursive, flowing style.

Vincent Driscoll

VJD:

285115

Enclosures

BID TABULATION
INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA
EAST 3RD AVENUE WATER MAIN IMPROVEMENT PROJECT

1. Construct East 3rd Avenue Water Main Improvement Project for the following unit and lump sum prices:				Morris Enterprises, Inc. 2967 275th St. Clutier, IA 52217		Vanderpool Construction, Inc. 1100 N. 14th St. Indianola, IA 50125		On Track Construction, LLC. 1435 West F Ave. Nevada, IA 50201		Absolute Group 1800 Burr Oak Blvd. Granger, IA 50109	
BASE BID:											
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
1.1	Mobilization	LS	XXXXX	\$ 25,000.00	\$ 25,000.00	\$ 14,400.00	\$ 14,400.00	\$ 31,626.00	\$ 31,626.00	\$ 16,500.00	\$ 16,500.00
1.2	Traffic Control	LS	XXXXX	4,500.00	4,500.00	2,500.00	2,500.00	4,040.00	4,040.00	3,000.00	3,000.00
1.3	Construction Staking	LS	XXXXX	1.00	1.00	2,300.00	2,300.00	4,040.00	4,040.00	7,000.00	7,000.00
1.4	Water Main Directional Bored, PVC, 8"	LF	410	125.00	51,250.00	135.00	55,350.00	130.00	53,300.00	187.00	76,670.00
1.5	Hydrant Assembly	EA	1	8,500.00	8,500.00	8,400.00	8,400.00	9,000.00	9,000.00	9,875.00	9,875.00
1.6	Water Service Connections	EA	6	1,250.00	7,500.00	1,200.00	7,200.00	1,980.00	11,880.00	5,600.00	33,600.00
1.7	Curb Stop and Box	EA	6	1,350.00	8,100.00	1,200.00	7,200.00	1,256.00	7,536.00	300.00	1,800.00
1.8	Water Service Pipe	LF	200	50.00	10,000.00	50.00	10,000.00	69.00	13,800.00	15.00	3,000.00
1.9	Tapping Sleeve & Valve, 12"x8"	EA	1	6,200.00	6,200.00	10,400.00	10,400.00	12,000.00	12,000.00	9,600.00	9,600.00
1.10	Pavement, PCC, Remove & Replace, 8"	SY	20	225.00	4,500.00	425.00	8,500.00	226.00	4,520.00	200.00	4,000.00
1.11	Pavement, PCC, Remove & Replace, 4"	SY	68	25.00	1,700.00	150.00	10,200.00	99.00	6,732.00	110.00	7,480.00
1.12	Detectable Warning Panels	SF	16	80.00	1,280.00	62.50	1,000.00	61.00	976.00	70.00	1,120.00
1.13	Salvage Existing Fire Hydrant	EA	1	1,500.00	1,500.00	2,000.00	2,000.00	1,450.00	1,450.00	2,800.00	2,800.00
1.14	Abandon Existing 4" Water Main	EA	1	1,100.00	1,100.00	3,500.00	3,500.00	3,000.00	3,000.00	4,000.00	4,000.00
1.15	Sod	SQ	10	410.00	4,100.00	900.00	9,000.00	840.00	8,400.00	450.00	4,500.00
TOTAL BASE BID (Items 1.1 - 1.15)				\$135,231.00		\$151,950.00		\$172,300.00		\$184,945.00	

I hereby certify that this is a true tabulation of
bids received on May 8, 2025 by Veenstra & Kimm, Inc.
on behalf of the City of the Indianola Municipal Utilities



Vincent J. Driscoll

RESOLUTION 2025-

***APPROVING AND AWARDING THE CONTRACT AND BOND FOR THE EAST 3RD AVENUE WATER MAIN
IMPROVEMENT PROJECT***

BE IT RESOLVED BY THE IMU BOARD OF TRUSTEES OF THE CITY OF INDIANOLA, STATE OF IOWA:

The bid from Morris Enterprises in the amount of \$135,231.00 for the East 3rd Avenue Water Main Improvement for Indianola Municipal Utilities, Indianola, Iowa, described in the plans and specifications previously adopted by this Board on the 14th day of April 2025, is accepted, it being the lowest and most responsible bids for the project.

The IMU General Manager is hereby Authorized to execute a contract with Morris Enterprises for the construction of the public improvement, the contract not to be binding on the Board of Trustees until approved by the Board and; that the construction contract and bond executed for the East 3rd Avenue Water Main Improvement, as described in the plans and specifications and which have been signed by the Board Chairperson and Board Secretary on behalf of IMU and proof of insurance coverage be and the same are hereby approved as follows:

Contractor:	Morris Enterprises	of	Clutier, IA
	\$135,231.00		
Amount of bid:			
	Yes		
Bond surety:			
	May 8, 2025		
Date of bond:			
Portion of project:	All labor and materials		

PASSED AND APPROVED this 12th day of May 2025.

Dom Selgrade, Chairperson

Monica Thompson, Board Secretary

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities

From:

Date: May 12, 2025

Subject: Resolution Approving and Awarding Contract to Central Tank Inc for Lime Tower Recoating Project

Recommendation: Resolution awarding and approving a contract.
Agenda document is the resolution awarding and approving a contract.
Board action is to approve this resolution by roll call vote.

Attachments:

1. 285112_Recommendation to Award w Encl_Lime Storage Tower Recoating
2. Res 2025-Approving and Awarding contract and bond for the Lime Tower Recoating Project



VEENSTRA & KIMM INC.

6775 Vista Drive
West Des Moines, Iowa 50266

515.225.8000 // 800.241.8000
www.v-k.net

May 9, 2025

Monica Thompson
Board of Trustees Secretary
Indianola Municipal Utilities
210 W 2nd Avenue
Indianola, Iowa 50125

INDIANOLA MUNICIPAL UTILITIES
LIME STORAGE TANK RECOATING
RECOMMENDATION TO AWARD

The Indianola Municipal Utilities received quotations until 1:00 P.M., Thursday, May 8, 2025, for the Lime Storage Tank Recoating project. A total of two quotations were received as follows:

<u>Contractor</u>	<u>Total Bid</u>
Central Tank Coatings, Inc.	\$140,800.00
TMI Coatings, Inc.	\$159,000.00

The apparent low quotation was submitted by Central Tank Coatings, Inc. from Elgin, Iowa in the amount of \$140,800.00.

The engineer's estimate of cost for construction of the project was \$150,000.00.

We recommend the Indianola Municipal Utilities award the contract to Central Tank Coatings, Inc. in the amount of \$140,800.00.

Enclosed is a copy of our tabulation of quotations.

If you have any questions or comments concerning the project, please contact us at 515-225-8000.

VEENSTRA & KIMM, INC.

A handwritten signature in blue ink that reads 'Vincent Driscoll'.

Vincent Driscoll

VJD:
285112
Enclosures

QUOTATION TABULATION
INDIANOLA MUNICIPAL UTILITIES
INDIANOLA, IOWA
LIME STORAGE TANK RECOATING

1. Construct Lime Storage Tower Recoating Project for the following unit and lump sum prices:				Central Tank Coatings, Inc. 22528 Canoe Rd Elgin, IA 52141		TMI Coatings, Inc. 3291 Terminal Dr. St. Paul, MN 55121	
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
1.1	Complete Lime Storage Tower Recoating, including all labor, materials and equipment necessary to fully blast and recoat the exterior surfaces and hatches; including structural members, safety ladder, railings, and miscellaneous surfaces of the lime storage tower and exterior of the lime fill piping and miscellaneous associated work, including cleanup.						
		LS	1	\$ XXXXX	\$ 130,000.00	\$ XXXXX	\$ 153,000.00
1.2	Unforeseen Welding	HOUR	24	\$ 225.00	5,400.00	\$ 150.00	3,600.00
1.3	Unforeseen Grinding	HOUR	24	\$ 225.00	5,400.00	\$ 100.00	2,400.00
TOTAL BASE BID (Items 1.1 - 1.3)				\$140,800.00		\$159,000.00	

I hereby certify that this is a true tabulation of quotations received on May 8, 2025 by Veenstra & Kimm, Inc. on behalf of the Indianola Municipal Utilities.



Vincent J. Driscoll

RESOLUTION 2025-

APPROVING AND AWARDING THE CONTRACT FOR THE LIME TOWER RECOATING PROJECT

BE IT RESOLVED BY THE IMU BOARD OF TRUSTEES OF THE CITY OF INDIANOLA, STATE OF IOWA:

The quotation from Central Tank Inc in the amount of \$140,800 for the Lime Tower Recoating Project for Indianola Municipal Utilities, Indianola, Iowa; plans for which were approved by this Board on the 14th day of April 2025, is accepted, it being the lowest and most responsible quote for the project.

The IMU General Manager is hereby Authorized to execute a contract with Central Tank Inc for the construction of the public improvement, the contract not to be binding on the Board of Trustees until approved by the Board and; that the construction contract for the Lime Tower Recoating Project, which has been signed by the Board Chairperson and Board Secretary on behalf of IMU and proof of insurance coverage be and the same are hereby approved as follows:

Contractor:	Central Tank Inc	Elgin, IA
	_____	of _____
	\$140,800.00	
Amount of quote:	_____	
Date of quote:	May 8, 2025	

Portion of project:	All labor and materials	

PASSED AND APPROVED this 12th day of May 2025.

Dom Selgrade, Chairperson

Monica Thompson, Board Secretary

MEMORANDUM

To: IMU Board of Trustees of the Electric, Water and Communications Utilities
From:
Date: May 12, 2025
Subject: Resolution approving health insurance renewals for Fiscal Year 26

Recommendation:

Attachments:

1. Memo_Benefits Renewal FY2025-2026 V2 IMU
2. 2025 City of Indianola Renewal Pages
3. Resolution_Benefits for 2025-26_IMU_V2 05.12.2025



MEMORANDUM

To: Mayor, IMU Board Chair and Board of Trustees
From: Courtney Silliman, Human Resources and Risk Management Director
Date: May 12, 2025
Subject: Resolution approving health insurance renewals for Fiscal Year 26.

Introduction:

Background:

Discussion: The City of Indianola and IMU run on a fiscal year benefit plan year (July 1 – June 30). We currently have a qualified high deductible health plan with a health savings account (HSA). Our deductibles are \$3,200.00 for single and \$6,000.00 for all other tiers (Employee+Spouse, Employee+Child(ren), Family). Qualified high deductible health plans with an HSA option are governed by the IRS and the plan requires a change to the single deductible for the FY26 plan year, see Exhibit A increasing the deductible from \$3,200.00 to \$3,300.00 for single and from \$6,000 to \$6,200.00 for all other tiers.

City and IMU administrative staff worked with our broker, Holmes Murphy, on health insurance renewals for FY26. Attached as Exhibit B is the renewal comparison. Overall, it is a strong renewal because employees have been mindful consumers of the health plan. The fixed costs have decreased by 22.1% with a 5.1% decrease to expected claims. The specific stop loss deductible will remain at \$100,000. Due to the amount of reserves and FY26 projections, the City and IMU administrative staff recommend remaining with Wellmark for the new benefit plan year, with no changes to current employee contribution rates.

Jointly, City and IMU administrative staff reviewed and recommend the following: One-time increase in the employer HSA contribution from \$1,200.00 to \$2,600.00 per enrolled employee per year, contributed on a per-pay period basis. This keeps the funding level at the 25th percentile to reduce the amount being put into the fund by the City and IMU. Employee contributions will remain flat. Also, staff recommend awarding four premium holidays for this fiscal year.

Dental

Our current dental plan is with Mutual of Omaha. The City and IMU administrative staff recommend we renew with Mutual of Omaha at a 3% rate increase for FY26 plan year, see Exhibit C. No other plan design changes.

Vision

Our current vision plan is through Avesis. Avesis provided a renewal with a 10% rate increase. Staff are recommending to move to Delta Dental for a 8.9% decrease with plan enhancements for vision coverage, see Exhibit D.

Other

The City and IMU have Mutual of Omaha for life, voluntary life and disability coverage. This is year two of

a two-year rate guarantee with Mutual of Omaha with no increase, see Exhibits E & F. In addition, there is no increase to short-term and long-term disability coverage, see Exhibits G & H. Staff recommends we renew as is with Mutual of Omaha for life, voluntary life, disability, short-term and long-term benefits for the FY26 plan year.

Budget Impact:

Recommendation: Roll call is in order.

Attachments:

1. Resolution_Benefits for 2025-26_City Council
2. 2025 City of Indianola Renewal Exhibits



City of Indianola
Medical Plan Design
Effective July 1, 2025

Council Directed - SOLD					
	\$3,200 QHDHP		\$3,300 QHDHP		\$3,300 QHDHP
BENEFIT OVERVIEW	In-Network	Out-of-Network	In-Network	Out-of-Network	In-Network Out-of-Network
Deductible	Embedded		Embedded		Embedded
Single	\$3,200	\$3,250	\$3,300	\$3,350	\$3,300 \$3,350
Family	\$6,000	\$6,300	\$6,000	\$6,300	\$6,200 \$6,500
Coinsurance	100% / 0%	80% / 20%	100% / 0%	80% / 20%	100% / 0% 80% / 20%
- Rebate Credit			-\$100.00	-\$100.00	
Out of Pocket Maximum					
Single	\$3,200	\$3,550	\$3,300	\$9,550	\$3,300 \$3,650
Family	\$6,000	\$7,700	\$6,000	\$7,700	\$6,200 \$7,900
Lifetime Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited Unlimited
BENEFIT HIGHLIGHTS					
Office Visits					
Physician	Deductible	Deductible, 20%	Deductible	Deductible, 20%	Deductible Deductible, 20%
Specialist	Deductible	Deductible, 20%	Deductible	Deductible, 20%	Deductible Deductible, 20%
Preventive Services	Paid In Full	Deductible, 20%	Paid In Full	Deductible, 20%	Paid In Full Deductible, 20%
Hospital Services					
Inpatient/Outpatient	Deductible	Deductible, 20%	Deductible	Deductible, 20%	Deductible Deductible, 20%
Urgent Care	Deductible	Deductible, 20%	Deductible	Deductible, 20%	Deductible Deductible, 20%
Emergency Room	Deductible	Deductible	Deductible	Deductible	Deductible Deductible
Mental Health / Substance Abuse					
Inpatient/Outpatient	Deductible	Deductible, 20%	Deductible	Deductible, 20%	Deductible Deductible, 20%
Prescription Drugs	Blue Rx Value Plus		Blue Rx Value Plus		Blue Rx Value Plus
Retail	Deductible		Deductible		Deductible
Mail Order	Deductible		Deductible		Deductible

Note: This is a summary of benefits provided by the plans. Refer to the carrier's descriptive material for a full discussion of benefits and rates.

SignatureDate



City of Indianola
Medical & Rx Insurance Benefit/Cost Analysis
Effective July 1, 2025

Admin		Wellmark		
Stop Loss		Wellmark		
AM Best Rating: A				Council Directed - SOLD
ADMINISTRATION (fixed) COSTS		Current	Renewal	Alternate
- Medical & PBM Fee	125	\$50.75	\$53.00	\$53.00
- PBM Fee	125	\$1.10	\$1.10	\$1.10
- Network Access Fee	125	\$6.95	\$6.95	\$6.95
- Rebate Credit			-\$100.00	-\$100.00
- Broker Fee	125	\$20.00	\$20.00	\$20.00
Administrative Total Per Person		\$78.80	-\$18.95	-\$18.95
Annual Administrative Costs		\$118,200	-\$28,425	-\$28,425
SPECIFIC STOP LOSS				
Specific Deductible		\$100,000	\$100,000	\$100,000
Contract Type		Paid	Paid	Paid
SPECIFIC PREMIUM				
- Single	38	\$210.67	\$242.48	\$242.48
- Employee + Spouse	27	\$210.67	\$242.48	\$242.48
- Employee + Child(ren)	16	\$210.67	\$242.48	\$242.48
- Family	44	\$210.67	\$242.48	\$242.48
Annual Specific Premium	125	\$316,005	\$363,720	\$363,720
AGGREGATE STOP LOSS				
AGGREGATE PREMIUM		With TLO	With TLO	With TLO
Risk Corridor		125%	125%	125%
Per employee per month		\$8.39	\$8.39	\$8.39
Annual Aggregate Premium	125	\$12,585	\$12,585	\$12,585
Total Annual Stop Loss Costs		\$328,590	\$376,305	\$376,305
Total Annual Fixed Costs		\$446,790	\$347,880	\$347,880
VARIABLE COSTS				
EXPECTED CLAIMS				
- Single	38	\$486.93	\$486.92	\$484.95
- Employee + Spouse	27	\$997.23	\$997.21	\$993.18
- Employee + Child(ren)	16	\$921.75	\$921.73	\$918.01
- Family	44	\$1,494.39	\$1,494.36	\$1,488.31
MAXIMUM CLAIMS				
- Single	38	\$608.67	\$608.65	\$606.19
- Employee + Child(ren)	16	\$1,152.21	\$1,152.17	\$1,147.52
- Family	44	\$1,868.01	\$1,867.95	\$1,860.40
Annual Expected Claims		\$1,511,157	\$1,511,126	\$1,505,013
Est. Aggregate Attachment Point		\$1,485,087	\$1,485,039	\$1,479,038
TOTAL COSTS				
EXPECTED COSTS				
- Single	38	\$632.12	\$599.02	\$597.04
- Employee + Spouse	27	\$1,294.58	\$1,226.79	\$1,222.74
- Employee + Child(ren)	16	\$1,196.60	\$1,133.94	\$1,130.20
- Family	44	\$1,939.98	\$1,838.39	\$1,832.32
MAXIMUM COSTS				
- Single	38	\$753.86	\$720.75	\$718.28
- Employee + Spouse	27	\$1,543.10	\$1,476.10	\$1,471.04
- Employee + Child(ren)	16	\$1,427.06	\$1,364.38	\$1,359.70
- Family	44	\$2,313.60	\$2,211.98	\$2,204.40
TOTALS		Current	Renewal	Renewal
Total Annualized Expected Costs		\$1,957,947	\$1,859,006	\$1,852,893
Total Annualized Maximum Costs		\$1,931,877	\$1,832,919	\$1,826,918
PERCENTAGE CHANGE				
Reinsurance			14.5%	14.5%
Fixed Costs			-22.1%	-22.1%
Expected Claims			0.0%	-0.4%
Expected Costs			-5.1%	-5.4%
Maximum Costs			-5.1%	-5.4%

The above analysis is for illustrative purposes only. Please refer to contract and/or proposal for details. Final rates are determined by many variables. See Disclosures Page for further details. Confidential & Proprietary

Signature

Date



Exhibit C

City of Indianola
Voluntary Dental Benefit/Cost Analysis
Effective July 1, 2025

Council Directed - SOLD

		Mutual of Omaha		Delta Dental of Iowa	
AM Best Rating		A+		A+	
BENEFIT OVERVIEW		In-Network	Out-of-Network	In-Network	Out-of-Network
Deductible					
- Individual		\$50	\$75	\$25	\$50
- Family		\$150	\$225	\$75	\$150
Annual Maximum		\$1,500		\$1,500	
Orthodontia Lifetime Maximum		\$1,500		\$1,600	
BENEFITS					
Preventive (deductible waived)		100%	80%	100%	100%
- Exams, cleanings, x-rays		Additional fluoride application			
- Fluoride (19), space maintainers (15)					
Basic Services		80%	50%	90%	80%
- Cavity repair, extractions, general anesthesia		Includes posterior composites		Includes posterior composites	
- Restoration, general surgery					
Major Services		50%	50%	50%	50%
- Endodontic services, periodontal services					
- High cost restorations (crowns)					
Orthodontic Services		50%	50%	50%	50%
ELIGIBILITY/ENROLLMENT PROVISIONS					
- Annual Open Enrollment		Included		Included	
- Timely Entrant Waiting Period		12 Months		None	
- Carryover		None		None	
- Dependent Age Limit		26		26	
- Orthodontia Age Limit		19		26	
CENSUS/RATES		Current	Renewal	Alternate	
Employee Only	32	\$29.96	\$30.86	\$33.86	
Employee + Spouse	28	\$62.65	\$64.53	\$69.62	
Employee + Child(ren)	15	\$74.68	\$76.92	\$94.64	
Family	50	\$115.66	\$119.13	\$155.12	
Monthly Premium	125	\$9,616	\$9,905	\$12,208	
Annual Premium		\$115,393	\$118,856	\$146,502	
Percentage Change			3.0%	27.0%	

Note: This is a summary of benefits provided by the plans. Refer to the carrier's descriptive material for a full discussion of benefits and rates.

Signature

Date



City of Indianola
Voluntary Vision Benefit/Cost Analysis
Effective July 1, 2025

Exhibit D

Council Directed - SOLD									
		Avesis A+		VSP A-		EyeMed A		Delta Dental A	
AM Best Rating									
BENEFIT OVERVIEW		In-Network	Out-of-Network	In-Network	Out-of-Network	In-Network	Out-of-Network	In-Network	Out-of-Network
- Exam Copay		\$10 Copay	Up to \$35	\$10 Copay	Up to \$45	\$10 Copay	Up to \$40	\$10 Copay	Up to \$35
- Contact Lens Fitting and Evaluation		\$25 Copay	See Below	\$25 Copay	N/A	Up to \$40 Copay	N/A	Up to \$40 Copay	N/A
- Materials Copay		\$25 Copay	See Below	\$25 Copay	See Below	\$25 Copay	See Below	\$25 Copay	See Below
FRAME ALLOWANCE		\$35 wholesale allowance up to \$100	Up to \$45	\$100 allowance, 20% off balance over \$100	Up to \$70	\$100 allowance, 20% off balance over \$100	Up to \$50	\$150 allowance, 20% off balance over \$150	Up to \$75
LENSE ALLOWANCE									
- Single Vision		\$25 Copay	Up to \$25	\$0	Up to \$30	\$25 Copay	Up to \$30	\$25 Copay	Up to \$25
- Bifocal		\$25 Copay	Up to \$40	\$25 Copay	Up to \$50	\$25 Copay	Up to \$50	\$25 Copay	Up to \$40
- Trifocal		\$25 Copay	Up to \$50	\$25 Copay	Up to \$65	\$25 Copay	Up to \$70	\$25 Copay	Up to \$55
- Lenticular		\$25 Copay	Up to \$80	\$25 Copay	Up to \$100	\$25 Copay	Up to \$70	\$25 Copay	Up to \$55
- Standard Progressive		\$50 Copay	Up to \$40	\$25 Copay	Up to \$50	\$80 Copay	Up to \$50	\$90 Copay	Up to \$40
- Premium Progressive		N/A	N/A	\$95-\$105	Up to \$50	\$110-\$135	Up to \$50	\$110-\$135	Up to \$40
- UV Protection		N/A	N/A	\$16 Copay	N/A	N/A	N/A	\$15 Copay	N/A
- Anti-reflective coating		N/A	N/A	\$41 Copay	N/A	\$45 Copay	Up to \$23	\$45 Copay	N/A
CONTACT ALLOWANCE									
- Elective		Up to \$110	Up to \$110	Up to \$120	Up to \$105	Up to \$110	Up to \$55	Up to \$150	Up to \$120
- Medically Necessary		Covered in full	Up to \$250	Covered in full	Up to \$210	Covered in full	Up to \$300	Covered in full	Up to \$200
FREQUENCY GUIDELINES									
- Examinations		12 Months		12 Months		12 Months		12 Months	
- Frames		24 Months		24 Months		24 Months		24 Months	
- Lenses		12 Months		12 Months		12 Months		12 Months	
- Contacts		12 Months		12 Months		12 Months		12 Months	
PREMIUMS		Current	Renewal	Alternate		Alternate		Alternate	
Employee	52	\$6.91	\$7.60	\$6.75		\$5.88		\$5.58	
Employee/Spouse	25	\$11.65	\$12.82	\$10.79		\$9.91		\$10.60	
Employee/Child(ren)	14	\$12.82	\$14.10	\$11.02		\$10.91		\$12.02	
Family	57	\$15.89	\$17.48	\$17.76		\$13.52		\$15.86	
Monthly Premium	148	\$1,736	\$1,909	\$1,787		\$1,477		\$1,627	
Annual Premium		\$20,829	\$22,914	\$21,448		\$17,723		\$19,530	
Percentage Change			10.0%	3.0%		-14.9%		-8.9%	
Rate Guarantee		1 Year	2 Years	2 Years		4 Years		2 Years	
Note: This is a summary of benefits provided by the plans. Refer to the carrier's descriptive material for a full discussion of benefits and rates.									
						Signature	Date		



Exhibit E

City of Indianola
Life and AD&D Insurance Renewal
Effective July 1, 2025

Council Directed - SOLD

	Mutual of Omaha	
AM Best Rating	A+	
BENEFIT OVERVIEW	Current/Renewal	
Benefit Amount		
Class 1: Non Union	1x Salary up to \$100,000 (\$25,000 minimum)	
Class 2: Union	\$15,000	
AD&D Benefits	Same as Basic Life Benefit for EE only	
DEPENDENT LIFE BENEFITS		
Class 1		
Spouse	\$22,500	
Child(ren)	Birth to 6 months \$1,000; 6 months to 19 or 26 \$11,250	
Class 2		
Spouse	\$7,500	
Child(ren)	Birth to 6 months \$1,000; 6 months to 19 or 26 \$3,750	
PLAN PROVISIONS		
Age Reduction #1	Reduced to 65% at Age 65	
Age Reduction #2	Reduced to 45% at Age 70	
Portability	Not Included	
Conversion	Included	
Accelerated Death Benefit	Included	
PREMIUMS	Current	Renewal
Covered Employees	139	139
Covered Dependents	58	58
Volume	\$6,862,000	\$6,862,000
Rates (per \$1,000)		
Basic Life	\$0.20	\$0.20
AD&D	\$0.02	\$0.02
Dependent Life Rate (<i>per family unit</i>)	\$3.00	\$3.00
Monthly Premium	\$1,684	\$1,684
Annual Premium	\$20,204	\$20,204
Percentage Change		0.0%
Rate Guarantee	2 Years	1 Year

Note: This is a summary of benefits provided by the plans. Refer to the carrier's descriptive material for a full discussion of benefits and rates.

Signature

Date



City of Indianola
Voluntary Life/AD&D Benefit / Cost Analysis
Effective July 1, 2024

Council Directed - SOLD

AM Best Rating	Mutual of Omaha		
	A+		
EMPLOYEE LIFE/AD&D BENEFITS			
Employee Increment	\$10,000		
Employee Maximum	5x Salary up to \$500,000		
Employee Guarantee Issue	5x Salary up to \$150,000		
DEPENDENT LIFE/AD&D BENEFITS			
Spouse Increment	\$5,000		
Spouse Maximum	100% of Employee Benefit up to \$250,000		
Spouse Guarantee Issue	100% of Employee Benefit up to \$50,000		
Child(ren) Increment	\$2,000		
Child(ren) Maximum	\$10,000		
Child(ren) Guarantee Issue	\$10,000		
PROVISIONS			
Age Reduction Schedule	65% at age 70 50% at age 75		
Portability/Conversion	Included		
Waiver of Premium	Included		
Accelerated Death Benefit	Included		
VOLUNTARY LIFE RATES (per \$1,000)	EE-Non Tobacco	EE-Tobacco	Spouse⁽¹⁾
0-24	\$0.072	\$0.108	\$0.110
25-29	\$0.083	\$0.123	\$0.092
30-34	\$0.102	\$0.153	\$0.100
35-39	\$0.141	\$0.227	\$0.138
40-44	\$0.195	\$0.343	\$0.198
45-49	\$0.312	\$0.545	\$0.310
50-54	\$0.477	\$0.919	\$0.484
55-59	\$0.779	\$1.296	\$0.742
60-64	\$1.244	\$1.937	\$1.268
65-69	\$2.184	\$3.239	\$2.167
70-74	\$3.941	\$5.693	\$3.860
75 +	\$7.980	\$10.297	\$7.732
AD&D Rate (per \$1,000)	\$0.069	\$0.069	\$0.073
Child(ren) AD&D Rate (per \$1,000)	\$0.036		
Rate Guarantee	Through June 30, 2026		

Note: This is a summary of benefits provided by the plans. Refer to the carrier's descriptive material for a full discussion of benefits and rates.

(1) Spouse rate based on spouse's age.

Signature

Date



City of Indianola
Short-Term Disability Benefit/Cost Analysis
Effective July 1, 2025

Council Directed - SOLD

AM Best Rating		Mutual of Omaha	
		A+	
BENEFIT OVERVIEW		Current/Renewal	
Class Definition		All full-time employees (30 hr/week)	
Benefit Percentage		70% of weekly earnings	
Weekly Benefit		\$1,000	
Weekly Minimum		\$25	
Elimination Period (Sickness/Illness)		7 Days / 7 Days	
Benefit Duration		25 Weeks	
Pre-Existing Condition Exclusion		None	
PLAN PROVISIONS			
FICA Match		Not Included	
W-2 Preparation		Included	
Partial Disability Coverage		Included	
Definition of Earnings		Annual Salary prior to disability	
VOLUME/RATE		Current	Renewal
Covered Lives		139	139
Volume		\$128,614	\$128,614
Rate (per \$10/covered benefit)		\$0.46	\$0.46
Monthly Premium		\$5,916	\$5,916
Annual Premium		\$70,995	\$70,995
Percentage Change			0.0%
Rate Guarantee		2 Years	1 Year
Note: This is a summary of benefits provided by the plans. Refer to the carrier's descriptive material for a full discussion of benefits and rates.			
		Signature	Date

**Exhibit H**

City of Indianola

Long Term Disability Benefit/Cost Analysis

Effective July 1, 2025

Council Directed - SOLD

AM Best Rating	Mutual of Omaha A+	
BENEFIT OVERVIEW	Current/Renewal	
Elimination Period	180 days	
Maximum Benefit Period	RBD to SSNRA	
Benefit Percentage	60% of monthly earnings	
Minimum Benefit Amount	Greater of 10% or \$100	
Maximum Benefit Amount	\$6,000	
Social Security Integration	Primary and Family	
Own Occupation Period	3 Year Own Occ	
Survivor Benefit	3 Months	
Pre-existing Condition Limitation	3/12	
VOLUME/RATE	Current	Renewal
Volume	\$916,576	\$916,576
Rates (per \$100/covered salary)	\$0.26	\$0.26
Monthly Premium	\$2,383	\$2,383
Annual Premium	\$28,597	\$28,597
Percentage Change		0.0%
Rate Guarantee	2 Years	1 Year
Note: This is a summary of benefits provided by the plans. Refer to the carrier's descriptive material for a full discussion of benefits and rates.		
Signature		Date

RESOLUTION NO.

**RESOLUTION APPROVING HEALTH INSURANCE BENEFITS FOR
THE EMPLOYEES OF THE INDIANOLA MUNICIPAL UTILITIES**

WHEREAS, the Indianola Municipal Utilities of Indianola, Iowa, offers a comprehensive benefits package, which includes medical, dental, vision, short-term disability, long-term disability and life insurance; and

WHEREAS, working through its insurance broker, the Indianola Municipal Utilities, Indianola, Iowa, reviewed different insurance plan options; and

WHEREAS, upon direction from the IMU Board of Trustees of the Indianola Municipal Utilities, Indianola, Iowa will renew the qualified high deductible health plan with a health savings account plan and appropriate renewals for dental, vision, short term disability, long term disability and life insurance (“Plans”).

WHEREAS, the Plans and costs for each are attached as Exhibit A, Exhibit B, Exhibit C, Exhibit D, Exhibit E, Exhibit F, Exhibit G, and Exhibit H;

NOW, THEREFORE, BE IT RESOLVED by the IMU Board of Trustees of the Indianola Municipal Utilities, Indianola, Iowa, that:

1. The IMU Board of Trustees of the Indianola Municipal Utilities, Indianola, Iowa approve the health insurance plans and premiums presented; and
2. The Chairperson or General Manager are authorized to execute the necessary documents, as may be required by the insurance companies.

PASSED this 12th day of May 2025.

ATTEST:

Dom Selgrade, Chairperson

Monica Thompson, Board Secretary