

**AGENDA OF THE COMMON COUNCIL
City of Angola, Indiana**

**Monday, November 2, 2020 – 7:00 p.m.
Angola Training Center
306 West Mill Street, Suite 1B**

To attend this meeting, a mask is required. Social distancing seating is limited.

CALL TO ORDER BY MAYOR HICKMAN

1. Council Member roll call by Clerk-Treasurer Twitchell.

Crum _____ Olson _____ Armstrong _____ Martin _____ McDermid _____

2. Remarks by Mayor Hickman.
3. Request approval of the October 19 minutes. (attachment)

UNFINISHED BUSINESS

1. Ordinance No. 1653-2020. AN ORDINANCE AMENDING THE ANGOLA MUNICIPAL CODE INVESTMENT FUND ACCOUNT CHANGING THE APPOINTMENT OF MEMBERS. (third and final reading) (attachment)
2. Ordinance No. 1654-2020. AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES BY THE SEWAGE WORKS OF THE CITY OF ANGOLA, INDIANA, AND AMENDING THE ANGOLA MUNICIPAL CODE. (9% increase) (second reading) (attachment)
3. Ordinance No. 1655-2020. AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES BY THE WATERWORKS OF THE CITY OF ANGOLA, INDIANA, AND AMENDING THE ANGOLA MUNICIPAL CODE. (rates and charges based on Cost of Service Study) (second reading) (attachment)
4. Ordinance No. 1656-2020. AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES BY THE WATERWORKS OF THE CITY OF ANGOLA, INDIANA, AND AMENDING THE ANGOLA MUNICIPAL CODE. (fire protection, hydrant rental, private sprinkler) (second reading) (attachment)
5. Other unfinished business.

NEW BUSINESS

1. Request approval of change order no. 1 for Parrish Excavating, inc. change in contract decrease of \$19,560.41 for the Hires Discharge Manhole Project. (attachment)
2. Reports:
 - Clerk-Treasurer
 - Department heads
3. Request approval of the Allowance of Accounts Payable Vouchers 48482 through 48681 totaling \$571,315.82. (separate attachment)
4. Other new business.

NEXT MEETING

The next meeting is Monday, November 16.

ADJOURNMENT

Individuals with disabilities who require accommodations for participation in meetings must request accommodations at least three business days ahead of scheduled meeting. Contact the Clerk-Treasurer, 210 North Public Square, Angola, IN 46703, (260) 665-2514 extension 7353, clerktreasurer@angolain.org as soon as possible but no later than three business days before the scheduled event.

OCTOBER 19, 2020

The regular meeting of the Common Council of the City of Angola, Indiana was called to order at 7:00 p.m. at the Angola Training Center, 306 West Mill Street 1B, with Mayor Richard M. Hickman presiding. Council Members Gary L. Crum, David A. Olson (via phone), David B. Martin (via phone), and Jerold D. McDermid answered roll call. Council Member Kathleen G. Armstrong was absent. Clerk-Treasurer Debra A. Twitchell recorded the minutes.

Among those present were Assistant Chief of Police Ken Whitmire, Wastewater Superintendent Craig Williams, Water Superintendent Tom Selman, and Park Superintendent Matt Hanna.

Also, among those present were Ashlee Hoos of *The Herald Republican* and Colin Meadowcroft of WLKI.

APPROVAL OF THE MINUTES

Council Member McDermid moved to approve the October 5, 2020 minutes. Council Member Crum seconded the motion. The motion carried 4-0.

Minutes of the September 8, 2020 Board of Public Works and Safety meeting were presented for Council information.

UNFINISHED BUSINESS

Ordinance No. 1652-2020, ORDINANCE FOR APPROPRIATIONS AND TAX RATES, was read by title and presented to Council on second reading. Council Member Crum moved to approved. Council Member McDermid seconded the motion. The motion to approve on second reading carried 4-0. Ordinance No. 1652-2020 was then read by title and presented on third and final reading for adoption. Council Member Martin moved to approve. Council Member Crum seconded the motion. The motion to adopt said ordinance on third and final reading carried 4-0.

Ordinance No. 1653-2020, AN ORDINANCE AMENDING THE ANGOLA MUNICIPAL CODE INVESTMENT FUND ACCOUNT CHANGING THE APPOINTMENT OF MEMBERS, was read by title and presented to Council on second reading. Council Member Olson moved to approve. Council Member McDermid seconded the motion. The motion carried 4-0. (AMC 3.10.120)

At the October 5 Council meeting, Wastewater Superintendent Williams shared with Council the chlorides regulatory issue and the possibility of pursuing a site-specific limit or considering wastewater treatment plant improvements at an estimated cost of \$10 to \$15 million. Council Member Martin moved to pursue a site-specific limit regarding the

chlorides regulatory issue. Council Member Crum seconded the motion. Discussion followed. The motion to pursue a site-specific limit carried 4-0.

NEW BUSINESS

Ordinance No. 1654-2020, AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES BY THE SEWAGE WORKS OF THE CITY OF ANGOLA, INDIANA, AND AMENDING THE ANGOLA MUNICIPAL CODE, was read by title and presented to Council on first reading. Council Member Martin moved to approve. Council Member McDermid seconded the motion. The motion to approve on first reading carried 4-0. (9% increase)

Ordinance No. 1655-2020, AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES BY THE WATER WORKS OF THE CITY OF ANGOLA, INDIANA, AND AMENDING THE ANGOLA MUNICIPAL CODE, was read by title and presented to Council on first reading. Council Member Martin moved to approve. Council Member Crum seconded the motion. Discussion followed. The motion to approve on first reading carried 4-0. (rates and charges based on Cost of Service Study)

Ordinance No. 1656-2020, AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES BY THE WATER WORKS OF THE CITY OF ANGOLA, INDIANA, AND AMENDING THE ANGOLA MUNICIPAL CODE, was read by title and presented to Council on first reading. Council Member Martin moved to approve. Council Member McDermid seconded the motion. The motion to approve on first reading carried 4-0. (fire protection, hydrant rental, private sprinkler)

Resolution No. 2020-787, A RESOLUTION PROVIDING FOR THE TRANSFER OF APPROPRIATIONS FOR THE CITY OF ANGOLA FOR THE GENERAL FUND AND FORWARDED TO THE COMMON COUNCIL FOR THEIR ACTION AND PASSAGE PURSUANT TO IC 6-1.1-18.6, was read by title and presented to Council for approval. Council Member Olson moved to approve. Council Member McDermid seconded the motion. On call of the vote, the motion carried 4-0. (Fire Department)

Upon motion by Council Member McDermid, seconded by Council Member Crum, and carried 4-0, the following Wastewater Department vehicles and equipment were approved to sell on GovDeals.com.

- 2006 Ford F-150 (asset no. 7985)
- International Harvester 1086 Tractor (asset no. 8631)
- Wildcat C-700 Compost Turner (asset no. 8497)

The Clerk-Treasurer's Cash Reconciliation and Depository Statement for month ending September 2020 was presented for Council information.

CLERK-TREASURER AND DEPARTMENT HEAD REPORTS

Wastewater Superintendent Williams announced a virtual public hearing with the Environmental Rules Board will be held on Wednesday, October 28, at 1:30 p.m. regarding the Citizens' Petition requesting the adoption of the 2012 United States Environmental Protection Agency Recreational Water Quality Criteria (RWQC) for combined sewer overflow (CSO) communities in Indiana. Williams will be presenting, and Mayor Hickman will provide testimony along with Mayor Dave Wood from the City of Mishawaka. Williams will forward the hearing information.

Wastewater Superintendent Williams then reported a change order will be presented at the next Council meeting for the City's contract with Parrish Excavating for the Hires/Northcrest Force Main Discharge Manhole Project.

APPROVAL OF ACCOUNTS PAYABLE VOUCHERS

Council Member McDermid moved to approve the Allowance of Accounts Payable Vouchers 48220 through 48481 totaling \$875,780.34 which includes interfund transfers totaling \$245,388.43. Council Member Crum seconded the motion. The motion carried 4-0.

ADJOURNMENT

There being no further business, the meeting was considered adjourned at 7:16 p.m.

Richard M. Hickman, Mayor
Presiding Officer

Attest:

Debra A. Twitchell, Clerk-Treasurer

AN ORDINANCE AMENDING THE ANGOLA MUNICIPAL CODE
INVESTMENT FUND ACCOUNT
CHANGING THE APPOINTMENT OF MEMBERS

BE IT HEREBY ORDAINED by the Common Council of the City of Angola, Indiana that Title 3 Revenue and Finance, Chapter 3.10 Funds is being amended by the text of existing provisions in this style type, additions will appear in **this style type**, and deletions will appear in ~~this style type~~:

Section 1. Section 3.10.120 Investment fund account is amended to read as follows:

(A) Establishment. In accordance with IC 6-3.5-7-13.6, the city hereby establishes the city investment fund account pursuant to the terms and conditions of this section.

(B) Governing Board – Membership.

(1) The city investment fund account shall be managed and administered by a governing board. The Governing Board shall be comprised of at least five members but in no event more than seven members and, until amended by the city's Common Council, the initial Governing Board of the city investment fund account shall be comprised of five members. The initial members of the Governing Board shall be appointed by the following entities:

(a) The Mayor of the city shall have the authority to appoint ~~one~~ **two (2)** member(s) to the Governing Board; provided, however, that in the event the Governing Board is comprised of seven members, the Mayor of the city shall have the authority to appoint two members to the Governing Board.

(b) The Common Council of the city shall have the authority to appoint two members to the Governing Board; provided, however, that in the event the Governing Board is comprised of seven members, the Common Council of the city shall have the authority to appoint three members to the Governing Board.

(c) The county Economic Development Corporation shall have the authority to appoint one member to the Governing Board.

~~(d) Elevate Ventures, Inc., a state not-for-profit corporation, shall have the authority to appoint one member to the Governing Board.~~

(2) Each member of the Governing Board shall have at least five years of experience in business, finance, or venture capital, and each member appointed to the Governing Board shall be required to certify to the appointing entity or office that such member possesses the requisite experience required by this section.

(3) The membership of the Governing Board shall be established on a bipartisan basis such that the number of the members of the Governing Board who are members of one political party may not exceed the number of members of the Governing Board required to establish quorum.

(4) A majority of the Governing Board constitutes a quorum, and the concurrence of a majority of the Governing Board is required to authorize action,

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including, without limitation, the grant or loan of any funds from the city investment fund account.

(C) Funding. The fiscal body of the city may deposit, through appropriations, the following funds into the city investment fund's account:

- (1) Taxes distributed to the city under IC 6-3.5-7 et seq.;
- (2) Funds received and maintained by the city under the state's local major moves construction funds under IC 8-14-16 et seq.; and
- (3) Proceeds of public or private grants.

(D) Administration of Fund – Requirements for Grants and Loans. The terms for the administration of the city investment fund account shall be established by the Governing Board and set forth in bylaws which shall require the submission, review, and approval of the state Economic Development Corporation and otherwise include, at a minimum, the following criteria and provisions:

- (1) That the membership and composition of the Governing Board be in accordance with the terms and requirements of this section.
- (2) That the expenses of administering the fund shall be paid from money within the fund.
- (3) That the city investment fund account shall be subject to an annual audit by the state Board of Accounts.
- (4)
 - (a) That the policies, procedures, and criteria under which the Governing Board may loan or grant money from the city investment fund account shall be in accordance with the provisions of this section and shall be set forth in investment fund policies and procedures and confidential application form (the "policies and procedures") attached to Ordinance No. 1445-2013 and incorporated herein by reference, which may be updated, revised, and amended from time to time by the Governing Board.
 - (b) That the Governing Board may loan or grant money from the city investment fund account to any private or public entity in accordance with this section, the policies and procedures, and upon a finding by the Governing Board that the loan or grant is for an economic development project as defined in IC 6-3.5-7-13.1(c)(1) or 6-3.5-7-13.1(c)(2)(A) through 6-3.5-7-13.1(c)(2)(K) and will otherwise be used by the borrower or grantee for at least one of the following economic development purposes:
 - (i) To promote significant employment opportunities for the residents of the city;
 - (ii) To attract a major new business enterprise to the city; or
 - (iii) To develop, retain, or expand a significant business enterprise within the city.
 - (c) That the expenditures of a borrower or grantee of money from the city investment fund account must be dedicated, committed,

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and used by the borrower or grantee for any of the following economic development projects and purposes:

- (i) Research and development of technology;
- (ii) Job training and education;
- (iii) Acquisition of property interests within the city;
- (iv) Infrastructure improvements;
- (v) New buildings or structures located within the city;
- (vi) Rehabilitation, renovation, or enlargement of buildings or structures located within the city;
- (vii) Machinery, equipment, and furnishings;
- (viii) Funding small business development with respect to prototype products or processes, marketing studies to determine the feasibility of new products or processes, or business plans for the development and production of new products and processes.

(E) Dissolution of Fund. In the event of the dissolution of the city investment fund account, and upon payment or making provisions for the payment of all liabilities incurred prior to any such dissolution, all of the assets, funds, property, and monies of the city investment fund account shall revert and be assigned to the city.

PASSED AND ADOPTED by the Common Council of the City of Angola, Indiana, on the _____ day of November 2020 by the vote of _____ ayes and _____ nays.

Richard M. Hickman, Mayor
Presiding Officer

Attest:

Debra A. Twitchell, Clerk-Treasurer

This ordinance presented by me, the Clerk-Treasurer of the City of Angola, Indiana to the Mayor at the hour of _____ a.m./p.m. this _____ day of November 2020.

Debra A. Twitchell, Clerk-Treasurer

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This ordinance signed and approved by me, the Mayor of the City of Angola, Indiana this _____ day of November 2020.

Richard M. Hickman, Mayor

ORDINANCE NO. 1654-2020

AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES RENDERED BY THE SEWAGE WORKS OF THE CITY OF ANGOLA, INDIANA, AND AMENDING THE ANGOLA MUNICIPAL CODE

WHEREAS, the City of Angola ("City") has heretofore constructed and has in operation a sewage treatment facility for the purpose of collecting and disposing in a sanitary manner the Sewage Works of the City;

WHEREAS, Indiana Code 36-9-23 provides that a municipal legislative body shall, by ordinance, establish just and equitable fees for the services rendered by the Sewage Works;

WHEREAS, the Common Council finds that based upon the advice of its financial advisor, the existing rates and charges are insufficient to enable the City to properly operate and maintain its Sewage Treatment Works facility, pay debt service on its bonds, and fund additions and improvements to the system;

WHEREAS, the existing sewage rates and charges are set forth in Ordinance No. 1599-2018 adopted on December 3, 2018 and as codified in the Angola Municipal Code, Title 13 Public Services, Chapter 13.10 Sewer and the Common Council finds that it is necessary to amend such Ordinance No. 1599-2018;

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF ANGOLA, INDIANA that the Angola Municipal Code, Title 13 Public Services, Chapter 13.10 Sewer is being amended by the text of existing provisions in this style type, additions will appear in **this style type**, and deletions will appear in ~~this style type~~:

Section 1. 13.10.380 Sewer rate schedule is amended to read as follows:

(A) (1) Rate. The Sewage rates and charges shall be based on the quantity of water used on or in the property or premises subject to such rates and charges as the same may be measured by the water meter there in use, except as otherwise provided in this chapter. Sewage service rates, based upon the amount of water used and the location of the user, shall be as follows:

<u>Location of User</u>	<u>Sewer Service Rate per 1,000 Gallons per Month</u>
Within city corporate limits	\$9.48 \$10.33
Outside city corporate limits	\$11.85 \$11.26

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* Users outside the city corporate limits shall be billed at 114.9 percent of the rate billed to users inside the city.

(2) Minimum Charge.

- (a) The minimum charge for sewage services where the user is a metered water consumer shall be based upon the size of the water connection and the location of the user and shall be as follows:

Within City Corporate Limits

<u>Meter Size</u>	<u>Minimum Gallons Allowed</u>	<u>Sewer Minimum</u>
5/8" – 3/4"	2,000	\$18.96 \$20.66
1"	4,040	\$38.30 \$41.73
1 – 1/2"	10,540	\$99.92 \$108.88
2"	18,260	\$173.10 \$188.63
3"	213,470	\$2,023.70 \$2,205.15
4"	364,925	\$3,459.49 \$3,769.68
6"	749,370	\$7,104.03 \$7,740.99

Outside City Corporate Limits

<u>Meter Size</u>	<u>Minimum Gallons Allowed</u>	<u>Sewer Minimum</u>
5/8" – 3/4"	2,000	\$23.70 \$22.52
1"	4,040	\$47.87 \$45.49
1 – 1/2"	10,540	\$124.90 \$118.68
2"	18,260	\$216.38 \$205.61
3"	213,470	\$2,529.62 \$2,403.67
4"	364,925	\$4,324.36 \$4,109.06
6"	749,370	\$8,880.03 \$8,437.91

- (b) The minimum charge for sewer services where the user is not a metered consumer shall be based on the size of the water service connection, but in no event shall the charge be less than the corresponding monthly minimum water meter charge set forth.

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(B) Users outside the city corporate limits shall be billed at 114.9 percent of the rate billed to users inside the city.

(C) Domestic connection charge.

(1) ~~New Connections.~~ The **domestic** connection charge shall be collected from each new customer prior to connection to the Sewage Works system **based on water service line size**. ~~Each new domestic connection shall pay a connection charge in an amount determined by the following schedule:~~

<u>Water Meter Size</u>	<u>Charge</u>
5/8"	\$2,220
3/4"	\$3,330
1"	\$5,550
1-1/2"	\$11,100
2"	\$17,760
3"	\$33,300
4"	\$55,500
6"	\$111,000

Year	3/4" – 1"	1 1/4" – 1 1/2"	2"	3"	4"	6"	8"
2021	\$ 927	\$4,635	\$7,416	\$13,905	\$23,175	\$46,350	\$74,160
2022	974	4,870	7,792	14,610	24,350	48,700	77,920
2023	1,022	5,110	8,176	15,330	25,550	51,100	81,760
2024	1,050	5,250	8,400	15,750	26,250	52,500	84,000
2025	1,078	5,390	8,624	16,170	26,950	53,900	86,240
2026	1,106	5,530	8,848	16,590	27,650	55,300	88,480
2027	1,134	5,670	9,072	17,010	28,350	56,700	90,720
2028	1,162	5,810	9,296	17,430	29,050	58,100	92,960
2029	1,190	5,950	9,520	17,850	29,750	59,500	95,200
2030	1,204	6,020	9,632	18,060	30,100	60,200	96,320

(2) Authorization to Waive Charge. The Board of Public Works is authorized and empowered, in specific instances for such areas as cemeteries, golf courses, and parks, to waive, modify or defer in whole or in part the connection charge.

(3) Receipt of Connection Charge. One hundred dollars of the connection charge shall be receipted to the wastewater operation and maintenance fund and used to properly operate and maintain the Sewage Treatment Works facility. Any connection charge

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balance shall be receipted to the wastewater improvement fund and used for additions, improvements, and extensions.

(4) Remonstrance Restriction. Any and all owners of real estate, persons or corporations, their or its survivors, heirs or assigns, who shall connect to the Sewage Works system, pursuant to this article, shall agree in writing prior to the connection to waive their rights to remonstrate against annexation by the city.

(5) Conflicting Provisions. All provisions of water and sewer main construction ordinances of the city shall remain in full force and effect and shall coexist with this article. New customers seeking service shall be charged the greater of the charges or fees. In addition, this article is exclusive of any private water and sewer line construction agreements.

Section 2. Section 13.10.420 Surcharge provisions is amended to read as follows:

(A) Surcharge Based on Waste Concentration. Each industrial user who discharges industrial wastes into the public sewers shall be subject to a surcharge, in addition to the regular sewerage service charge, based on both the biochemical oxygen demand (or on the chemical oxygen demand where CBOD cannot be determined) and the suspended solids content of the wastes, if these wastes have a concentration greater than the following:

- (1) A carbonaceous biochemical oxygen demand (CBOD) in excess of 200 mg/L; or where CBOD cannot be determined, then, in lieu of CBOD, a chemical oxygen demand (COD) in excess of 400 mg/L;
- (2) A total suspended solids (TSS) in excess of 250 mg/L;
- (3) Phosphorous in excess of 10 mg/L;
- (4) Ammonia in excess of 20 mg/L.

(B) Surcharge – Computation. The surcharge shall be determined as follows:

- (1) The excess pounds of BOD, COD, phosphorous, TSS and ammonia will be computed by multiplying the customer's billing sewage volume, measured in units of 100 cubic feet for the current billing period, by the factor of 0.0062321, and multiplying that product by the difference between the concentration, measured in milligrams per liter, of the CBOD (or COD), phosphorous, TSS, and ammonia respectively in the customer's sewage and the allowed constituent.
- (2) The allowed constituent will be determined by multiplying the excess pounds of each constituent by the rate of surcharge set out in subsection (C) of this section.

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(C) Surcharge – Rate. The rate of surcharge for each constituent shall be as follows:

- (1) For carbonaceous biochemical oxygen demand (CBOD), ~~\$0.12~~ **\$0.13** per pound;
- (2) For chemical oxygen demand (COD) where CBOD cannot be determined, ~~\$0.12~~ **\$0.13** per pound;
- (3) For total suspended solids, ~~\$0.12~~ **\$0.13** per pound;
- (4) For phosphorous, ~~\$3.63~~ **\$3.96** per pound;
- (5) For ammonia, ~~\$0.36~~ **\$0.39** per pound;

(D) Surcharge – Review. As appropriate, the city shall evaluate the treatment costs for removing CBOD, COD, TSS, phosphorous and ammonia from the wastewater treatment plant in order that the Board of Public Works may determine whether the current rates or surcharges charged for excess pollutant loading charges to industrial users are adequate or should be changed.

Section 3. 13.10.450 Waste haulers is amended to read as follows:

(A) The ~~city~~ Wastewater Superintendent may accept waste from commercial waste haulers including port-a-john waste, septic tank waste, car-wash grit and sediment, and other waste deemed appropriate by the Superintendent, for disposal by the city wastewater treatment facilities. The Superintendent, or his or her designees, shall not accept any material outside the pH range of 6.0 and 9.0 or any material that he reasonably believes to be hazardous chemicals, oil, grease, or any material potentially harmful to the treatment plant.

(B) The rate charges to the person or entities whose waste is accepted for disposal ~~\$0.085~~ **\$0.10** per gallon.

(C) The Superintendent is authorized to establish the forms, policy, and procedure to implement this section.

Section 4. Effective date.

This ordinance shall be in full force and effect January 1, 2021 after passage and adoption by the Common Council and approval by the Mayor.

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DULY PASSED AND ADOPTED by the Common Council of the City of Angola, Indiana, on the _____ day of November 2020 by the vote of _____ ayes and _____ nays.

Richard M. Hickman, Mayor
Presiding Officer

Attest:

Debra A. Twitchell, Clerk Treasurer

This ordinance presented by me, the Clerk-Treasurer of the City of Angola, Indiana to the Mayor at the hour of _____ a.m./p.m. this _____ day of November 2020.

Debra A. Twitchell, Clerk Treasurer

This ordinance signed and approved by me, the Mayor of the City of Angola, Indiana this _____ day of November 2020.

Richard M. Hickman, Mayor

ORDINANCE NO. 1655-2020

AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES RENDERED BY THE WATERWORKS OF THE CITY OF ANGOLA, INDIANA AND AMENDING THE ANGOLA MUNICIPAL CODE

WHEREAS, the City of Angola ("City") therefore constructed and has in operation a Waterworks facility for the purpose of treating and distributing water throughout the City; and

WHEREAS, Indiana Code 8-1.5-3-8 provides that a municipality owning a utility and furnishing adequate services and facilities may establish reasonable and just rates and charges for the services rendered by the Waterworks; and

WHEREAS, the Common Council finds that based upon the advice of its financial advisor, the existing rates and charges are insufficient to enable the City to properly operate and maintain its Waterworks facility, pay debt service on its bonds, and fund additions and improvements to the system; and

WHEREAS, the existing water rates and charges are set forth in Ordinance No. 862 adopted on March 7, 1994, as amended by Ordinance No. 957-98 on August 5, 1998, Ordinance No. 1072-2002 on June 3, 2002, Ordinance No. 1086-2002 on September 6, 2002, Ordinance No. 1158-2004 on September 20, 2004, Ordinance No. 1250-2007 on February 5, 2007, Ordinance No. 1402-2011 on December 19, 2011, Ordinance No. 1475-2014 on August 5, 2014, and Ordinance No. 1495-2015 on September 8, 2015, and as codified in Title 13 Public Services, Chapter 13.05 Water, and the Common Council find that it is necessary to amend such Ordinance;

NOW, THERE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF ANGOLA, STEUBEN COUNTY, INDIANA, that for usage billed after December 20, 2020, Title 13 Public Services, Chapter 13.05 Water, Section 13.05.150 Rates Schedule, Section 13.05.180 Connection Charge, and Section 13.05.190 Penalty shall be repealed in their entirety and replaced as follows:

Section 1. 13.05.150 Rates schedule.

(A) There are established for the use of and the service rendered by the Waterworks system of the city the following nondiscriminatory, reasonable, and just rates and charges, based upon the amount of water supplied during each monthly billing period:

(1) *Metered water service.*

<u>Metered Water Service</u>			<u>Rate</u>
			(per 1,000 gallons)
First	4,000	gallons per month	\$6.10
Next	36,000	gallons per month	3.90

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Next	75,000	gallons per month	3.80
Next	85,000	gallons per month	3.70
Over	200,000	gallons per month	3.60

(2) *Minimum charges.*

<u>Minimum Charges</u> (per month)		<u>Minimum Gallons</u>	<u>Rate</u> (per 1,000 gallons)
5/8	inch meter	1,660	\$10.15
3/4	inch meter	2,870	17.50
1	inch meter	4,120	24.85
1 – 1/4	inch meter	6,640	34.70
1 – 1/2	inch meter	9,000	43.90
2	inch meter	13,300	60.65
3	inch meter	29,595	124.20
4	inch meter	55,115	222.25
6	inch meter	112,490	440.25

(3) *Hydrant Rental and Private Sprinkler.*

<u>Municipal and Private Hydrant Rental Each (per annum)</u>	\$884.91
<u>Private Sprinkler (per annum):</u>	

1	inch connection	\$7.95
1 – 1/2	inch connection	23.06
2	inch connection	49.21
3	inch connection	142.94
4	inch connection	304.64
6	inch connection	884.91
8	inch connection	1,885.82
10	inch connection	3,391.31
12	inch connection	5,477.87

(4) *Drinking fountain rental.*

Drinking Fountain Rental (per annum)	\$922.20
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(5) Collection or Deferred Payment Charge. All bills for water services not paid within 20 days from the due date thereof, as stated in such bills, shall be subject to a collection or deferred payment charge of 10 percent on the first \$3.00 and three percent on the excess over \$3.00.

(6) Temporary Users. Water furnished to temporary users via a hydrant meter shall be charged in the same manner as any other metered account as set forth on the schedule of metered water service. The cost of installing and removing the temporary connection shall be \$50.00 and payable at the time of the hydrant meter

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deposit. If the hydrant or hydrant meter is damaged, the user shall be billed the cost of repairs.

- (7) Pool Fill. Services connected with the filling of a swimming pool, including water consumption, shall be charged \$150.00 if 20,000 gallons or less and shall be payable in advance. If greater than 20,000 gallons, the charge shall be \$150.00 plus the cost of metered water in excess of 20,000 gallons.

(B) The applicant shall pay in advance the following water tap charges, which shall include equipment used to perform the tap, operator service and labor, and materials needed for the tap, such as the tap saddle or tap sleeve, corporation stop with curb stop or tap valve, and valve box:

Tap Size	Tap Charges
¾-1-inch	\$500.00
1¼ - 1½ -inch	1,250.00
2 – 3 -inch	1,500.00
4-inch	1,800.00
6-inch	2,400.00
8-inch	3,000.00

- (C) The contractor shall give a five-day advance notice to the Water Superintendent as to the time to be scheduled for making the water tap. The applicant or contractor will also perform all excavating needed to complete the tap.
- (D) A five-eighths-inch meter will be supplied by the water utility. Any meter other than a five-eighths-inch meter will be billed by the water utility to the applicant at the current cost.
- (E) A frozen meter charge shall be \$50.00 for a service call plus any cost of materials needed to repair the damaged meter.
- (F) A service charge as outlined in AMC 3.05.020 shall be made for any check offered in payment of a water bill and returned unpaid to the Water Department by any bank.

Section 2. 13.05.180 Domestic connection charge.

In addition to the tap charge in AMC 13.05.150, the applicant shall pay in advance the following domestic connection charge based on service line size:

ORDINANCE NO. 1655-2020

Year	3/4" – 1"	1 1/4" – 1 1/2"	2"	3"	4"	6"	8"
2021	974	4,870	7,792	14,610	24,350	48,700	77,920
2022	1,020	5,100	8,160	15,300	25,500	51,000	81,600
2023	1,057	5,285	8,456	15,855	26,425	52,850	84,560
2024	1,095	5,475	8,760	16,425	27,375	54,750	87,600
2025	1,134	5,670	9,072	17,010	28,350	56,700	90,720
2026	1,175	5,875	9,400	17,625	29,375	58,750	94,000
2027	1,188	5,940	9,504	17,820	29,700	59,400	95,040
2028 and thereafter	1,201	6,005	9,608	18,015	30,025	60,050	96,080

Section 3. 13.05.190 Penalty.

Whoever shall violate any provision of this chapter for which no other penalty is set forth shall be subject to the penalty provision set forth in Chapter 1.15 AMC.

Section 4. Effective Date.

This ordinance shall be in full force and effect January 1, 2021 after passage and adoption by the Common Council and approval by the Mayor.

DULY PASSED AND ADOPTED by the Common Council of the City of Angola, Indiana, on the _____ day of November 2020 by the vote of _____ ayes and _____ nays.

Richard M. Hickman, Mayor
Presiding Officer

Attest:

Debra A. Twitchell, Clerk Treasurer

This ordinance presented by me, the Clerk-Treasurer of the City of Angola, Indiana to the Mayor at the hour of _____ a.m./p.m. this _____ day of November 2020.

Debra A. Twitchell, Clerk Treasurer

ORDINANCE NO. 1655-2020

This ordinance signed and approved by me, the Mayor of the City of Angola, Indiana this _____ day of November 2020.

Richard M. Hickman, Mayor

ORDINANCE NO. 1656-2020

AN ORDINANCE ESTABLISHING RATES AND CHARGES FOR USE AND SERVICES RENDERED BY THE WATERWORKS OF THE CITY OF ANGOLA, INDIANA, AND AMENDING THE ANGOLA MUNICIPAL CODE

WHEREAS, the City of Angola ("City") therefore constructed and has in operation a Waterworks facility for the purpose of treating and distributing water throughout the City; and

WHEREAS, Indiana Code 8-1.5-3-8 provides that a municipality owning a utility and furnishing adequate services and facilities may establish reasonable and just rates and charges for the services rendered by the Waterworks; and

WHEREAS, the Common Council wishes to transition the billing of public fire protection from a Municipal Hydrant Rental Charge to a Fire Protection Charge; and

WHEREAS, the existing water rates and charges are set forth in Ordinance No. 862 adopted on March 7, 1994, as amended by Ordinance No. 957-98 on August 5, 1998, Ordinance No. 1072-2002 on June 3, 2002, Ordinance No. 1086-2002 on September 6, 2002, Ordinance No. 1158-2004 on September 20, 2004, Ordinance No. 1250-2007 on February 5, 2007, Ordinance No. 1402-2011 on December 19, 2011, Ordinance No. 1475-2014 on August 5, 2014, and Ordinance No. 1495-2015 on September 8, 2015, and as codified in Title 13 Public Services, Chapter 13.05 Water, and the Common Council finds that it is necessary to amend such Ordinance;

NOW, THERE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF ANGOLA, STEUBEN COUNTY, INDIANA:

Section 1. Section 13.05.150(A)(3) Fire protection is amended as follows:

(A) There are established for the use of and the service rendered by the Waterworks system of the city the following nondiscriminatory, reasonable, and just rates and charges, based upon the amount of water supplied during each monthly billing period:

(3) *Fire Protection, Hydrant Rental and Private Sprinkler*

		<u>Monthly Fire Protection Charges</u>		
Meter Size		Phase I Charge	Phase II Charge	Phase III Charge
		(1)	(2)	(3)
5/8	inch meter	\$2.97	\$5.95	\$8.92
3/4	inch meter	4.46	8.93	13.38
1	inch meter	7.43	14.88	22.30
1 1/2	inch meter	14.85	29.75	44.60
2	inch meter	23.76	47.60	71.36
3	inch meter	44.55	89.25	133.80
4	inch meter	74.25	148.75	223.00

ORDINANCE NO. 1656-2020

6	inch meter	148.50	297.50	446.00
8	inch meter	237.60	476.00	713.60
10	inch meter	341.55	684.25	1,025.80
(1)	Effective January 1, 2021.			
(2)	Effective January 1, 2022.			
(3)	Effective January 1, 2023 and thereafter.			

Municipal Hydrant Rental (per annum)

Effective January 1, 2021	\$ 589.94
Effective January 1, 2022	\$ 294.97
Effective January 1, 2023	\$ 0.00

Private Hydrant Rental Each (per annum): \$884.91

Private Sprinkler (per annum):

1	inch connection	\$7.95
1 – 1/2	inch connection	23.06
2	inch connection	49.21
3	inch connection	142.94
4	inch connection	304.64
6	inch connection	884.91
8	inch connection	1,885.82
10	inch connection	3,391.31
12	inch connection	5,477.87

Section 2. Effective date.

This ordinance shall be in full force and effect January 1, 2021 after passage and adoption by the Common Council and approval by the Mayor.

DULY PASSED AND ADOPTED by the Common Council of the City of Angola, Indiana, on the _____ day of November 2020 by the vote of _____ ayes and _____ nays.

Richard M. Hickman, Mayor
Presiding Officer

Attest:

Debra A. Twitchell, Clerk Treasurer

ORDINANCE NO. 1656-2020

This ordinance presented by me, the Clerk-Treasurer of the City of Angola, Indiana to the Mayor at the hour of _____ a.m./p.m. this _____ day of November 2020.

Debra A. Twitchell, Clerk Treasurer

This ordinance signed and approved by me, the Mayor of the City of Angola, Indiana this _____ day of November 2020.

Richard M. Hickman, Mayor

Change Order No. 01

Date of Issuance: November 2, 2020	Effective Date: November 2, 2020
Owner: City of Angola	Owner's Contract No.: N/A
Contractor: Parrish Excavating	Contractor's Project No.: N/A
Engineer: Wessler Engineering	Engineer's Project No.: 225520-06-01
Project: Hires LS Discharge Manhole Rehab	Contract Name: Same as project

The Contract is modified as follows upon execution of this Change Order:

Description: Owner requested changes and reductions in Project Scope. See Attachments A and B for details.

Attachments: See Attachment A - RFQ - 001 and Attachment B - Quote from Parrish, written on the RFQ-001.

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES [note changes in Milestones if applicable]
Original Contract Price: \$ <u>229,605.00</u>	Original Contract Times: Substantial Completion: <u>45 days</u> Ready for Final Payment: <u>60 days</u>
[Increase] Decrease] from previously approved Change Orders No. <u> </u> to No. <u> </u> : \$ <u>N/A</u>	[Increase] [Decrease] from previously approved Change Orders No. <u> </u> to No. <u> </u> : Substantial Completion: <u>N/A</u> Ready for Final Payment: <u> </u> <div style="text-align: right;">days</div>
Contract Price prior to this Change Order: \$ <u>229,605.00</u>	Contract Times prior to this Change Order: Substantial Completion: <u>N/A</u> Ready for Final Payment: <u>N/A</u> <div style="text-align: right;">days or dates</div>
DECREASE of this Change Order: \$ <u>19,560.41</u>	[Increase] [Decrease] of this Change Order: Substantial Completion: <u>No change</u> Ready for Final Payment: <u>No change</u> <div style="text-align: right;">days or dates</div>
Contract Price incorporating this Change Order: \$ <u>210,044.59</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>45 days</u> Ready for Final Payment: <u>60 days</u> <div style="text-align: right;">days or dates</div>

RECOMMENDED:		ACCEPTED:	
By: <u>Charles A. Rutter</u>	By: <u> </u>	By: <u> </u>	By: <u> </u>
Engineer (if required)	Owner (Authorized Signature)	Contractor (Authorized Signature)	
Title: <u>Project Manager</u>	Title <u> </u>	Title <u> </u>	
Date: <u>October 27, 2020</u>	Date <u> </u>	Date <u> </u>	

ATTACHMENT A

RFQ NO. 001

WESSLER ENGINEERING
CITY OF ANGOLA
HIRES LIFT STATION DISCHARGE MANHOLE IMPROVEMENTS
REQUEST FOR QUOTE

CONTRACTOR
PARRISH CONSTRUCTION

MONTH	DAY	YEAR
09	30	2020

SUBJECT: Reduction in Project Scope

REFERENCE: Attachment 1 – SUMMARY OF WORK
Attachment 2 – LANDSCAPING FOR UTILITIES
Attachment 3 – UPDATED CONTRACT DRAWINGS

Request for Quote, RFQ-001

Based on discussions with the City of Angola (Owner) and Parrish Construction (Contractor), the Owner is requesting pricing (savings) for the following changes and reductions in Project Scope.

1. Change in bypass pumping discharge location and reduction in bypass piping.
 - a. Bypass piping will be shortened to approx. 270 LFT and will be discharged into STR MH 1028 – Reference updated Sheet 5.
 - b. Bypass piping ramp will no longer be required, bypass discharge is now on the west side of Nolan Meadows Run.
 - i. **Delete Section 02734 – Bypass Pumping/Sewage Flow Control 2.01 and 3.01 C.**
All other sections remain.
2. Reduction in manhole lining scope.
 - a. New MH 0846 shall be lined. All other lining to be removed from the project – Reference revised Summary of Work specification section and revised Contract Drawings.
3. Additional provided site access and staging area.
 - a. Lot 32 shall be made available to the Contractor for storage and laydown use. – Reference revised Sheet 4.
4. Reduction in Site restoration.
 - a. Finish grading of site shall be the only restoration requirement. Owner to furnish and install topsoil, seeding, mulch, and fertilizer, as necessary. – Reference revised Landscaping For Utilities specification section.
5. Change in HDPE pipe material requirement.
 - a. HDPE force main piping shall be DR-11 instead of DR-21
 - i. Replace Section 02737 – Force Main Sewer System 2.02 A 2. with the following:

2. HDPE pipe shall have DR (Dimension Ratio) 11 for open cut installation, and a nominal DIPS (Ductile Iron Pipe Size) outside diameter.
6. Modification to force main connection at manhole detail.

WESSLER ENGINEERING
CITY OF ANGOLA
HIRES LIFT STATION DISCHARGE MANHOLE IMPROVEMENTS
REQUEST FOR QUOTE

- a. Connection of force main to manhole shall be made using a rubber boot. – Reference revised detail on Sheet 6.
- b. Replace 02730 – Gravity Sanitary Sewer Systems 2.01D with the following:

D. Pipe to Structure Connections

1. Provide flexible neoprene molded boot or resilient seal which conforms to ASTM C923.

- a) Provide Kor-N-Seal boot as manufactured by National Pollution Control Systems, Inc. or approved equal.
- b) Provide resilient seal as manufactured by A-Lok or approved equal.

7. Modifications to connection requirements.

- a. Existing 6" and 12" ductile iron piping is NOT required to be removed unless it conflicts with new pipe routing. If piping is not removed it shall be capped and abandoned in-place. – Reference revised Sheet 05
- b. 12" plug valve is suggested for pipe tie-in sequencing. If Contractor can meet project constraints without the use of the 12" plug valve it may be omitted. – Reference revised Sheet 05.


8. Modification to project constraints.

- a. Current project constraints limit the allowable shut-down duration and time for the existing 12" force main and 6" force main. Changes to the time of day and duration may impact the Owner's operations and required sewage hauling. The goal is to provide the overall best value for the project. Please provide a proposed sequencing, proposed modified shut-down duration and time, and any potential project savings associated with the modified constraints.

Please provide a quote including all labor, materials, etc. required to complete the work by Tuesday, October 13, 2020. Quote shall be itemized.

File 225520

WESSLER ENGINEERING

By	
Name: Aaron Hutton	
Title: SENIOR PROJECT MANAGER	

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01010 - SUMMARY OF WORK

PART 1 - GENERAL

1.01 Summary

A. The Primary bid for this project includes:

Replacement of one (1) manhole; installation of one air release valve and structure and approximately 140 LFT of 14" HDPE forcemain; epoxy lining of one (1) ~~two (2)~~ manholes, and temporary bypass piping.

~~B. As an Alternate, work will also include:~~

~~Epoxy Lining of three (3) additional manholes as indicated in the Drawings.~~

1.02 Contract

A. Work shall be constructed under a Unit Price Contract.

B. The Contractor shall not be allowed extra compensation by reason of any matter or thing concerning which the Contractor might have fully informed himself prior to the bidding. No verbal agreement, understandings or conversations with a representative or employee of the Owner or Engineer either before or after the execution of this Contract, shall affect or modify the terms of obligations herein contained.

1.03 Completion

A. Commence Work required by the Contract Documents within 10 days after the date of the Notice to Proceed, and fully complete the Work within the Contract Times stated in the Bid Attachment and Agreement unless the Contract Times are extended otherwise by the Contract Documents.

B. The Project will not be ready for substantial completion review until test and performance evaluations are completed, all work is complete and ready for service and the site is clear of construction rubbish and debris.

1.04 Work by Others

A. The Owner reserves the right to let other Contracts in connection with other portions of the project.

1.05 Items to be Provided by Owner

A. Those items shown on the Drawings and/or specified herein.

1.06 Coordination

- A. Refer to Supplementary Conditions, SC-8.02 regarding Owner's intent to contract with other Contractors for the performance of other work at the project Site which could be occurring during the same time as work under this contract.
- B. Select order of work and establish schedule or working hours for construction, subject to approval of Engineer which will assure orderly and expeditious progress of work.
- C. Maintain existing service affected by Contractors' operations under the contract. Schedule construction to minimize interruptions to existing services, and inconveniences to others.

1.07 Rights of Access

- A. The Contractor agrees that representatives of the Engineer, Owner and regulatory agencies will have access to the work wherever it is in preparation or progress and that the Contractor will provide facilities for such access and inspection.

1.08 Safety and Health Regulations for Construction

- A. Obligations prescribed as employer obligations under Chapter XVII of Title 29, Code of Federal Regulations, Part 1926, otherwise known as "Safety and Health Regulations for Construction and CFR Part 1910.46 Permit Required for Confined Space" are the sole responsibility of the Contractor. Provide Engineer the name of the Contractor's Safety Officer, plus the on-site Safety Representative, if other than the Superintendent, as indicated under Article 6.21 of the General Conditions of the Construction Contract.

1.09 Discovery of Hazardous Material

- A. If, during the course of this work, the existence of hazardous material, including asbestos containing material, is observed in the work area, immediately notify the Engineer in writing. Do not perform any work pertinent to the hazardous material prior to receipt of special instructions from the Engineer.

1.10 Easements

- A. The Owner will obtain right-of-way easements over and through certain private lands for construction. The width or limits of such easements will be defined by the Owner before the Work begins. If the methods of construction employed by the Contractor require the use of land beyond these limits, make agreements with the property owners affected for the use of such additional land. Such additional agreements will not include any liability for the Owner or Engineer and shall have no direct effect on the completion of the project, project cost, or the time of completion.
- B. Place backfill to the grade of the existing ground level or as otherwise shown on the Drawings.

- C. Include the cost of all restoration of property in the Contractor's bid. No additional payment will be allowed for restoration work.

1.11 Operations Within Right-of-Way

- A. If the methods of the construction employed are such as to require the use of land beyond the public right-of-way limits, make arrangements with the property owners affected for the use of such additional land. Such additional agreements will not include any liability for the Owner or Engineer and shall have no direct effect on the completion of the project, project cost, or the time of completion.

1.12 Permits

- A. Obtain permits related to construction activities as specified in the General Conditions.
 - 1. All necessary permits or licenses from the city, state or county in connection with construction procedures will be obtained by the Contractor. The construction shall be performed in full accordance with all requirements of the State of Indiana as well as county and local requirements.

1.13 Project Constraints

A. Lift Station Shut Down Timeframes

- 1. All shutdowns, including the 6" forcemain, the 12" forcemain, gravity flow within manholes, laterals, road ways, and other utility services must be submitted and approved in writing at least 7 days prior to the proposed shutdown.
- 2. The 6" forcemain, impacting the Northcrest and Northpointe lift stations cannot be out of service for more than 4 hours. The Owner will manage manual pump down of the lift stations. These lift stations can be shut down any time, with approval as noted above.
- 3. The 12" forcemain, impacting the Hires lift station cannot be out of service for more than 2 hours, and must be completed from 12 a.m. and 5 a.m. on a Sunday, during historical low flows. The Owner can contract out pump trucks to handle this temporary shutdown.
- 4. The shutdown of the 6" forcemain and the 12" forcemain cannot occur at the same time. See Sections 1.15 and 1.16 for Suggested Sequences of Operation.

1.14 Project Notes for Temporary and Permanent Connection of the 6" and 12" Forcemains:

- A. The following is a suggested sequence of operation. The Contractor shall submit their proposed sequencing plan and it may differ from what is provided below.
- B. Submitted sequencing plan shall meet the design requirements and the listed project constraints.

- C. A temporary ARV shall be installed and maintained during temporary bypass pumping and shall be installed at the highest elevation of the temporary bypass piping.
- D. A permanent ARV shall be installed downstream of the 6" and 12" forcemain connection and prior to the discharge manhole 0846. Permanent ARV shall be installed at the highest elevation of the forcemain.

1.15 Suggested Sequence of Operation for the Temporary and Permanent Connection of the 6" and 12" Forcemains:

- A. Temporary bypass piping shall be installed to the greatest extents possible prior to interruption of services. This shall include installation in the discharge manhole, roadway crossing and access ramp, temporary ARV, and all piping up the excavation and existing forcemains. See Specification Section 02734 for Bypass Pumping details.
- B. Excavate to locate 6" and 12" forcemains and proposed connection location. Contractor to confirm elevations and all needed piping for permanent and temporary connection.
- C. Coordinate shutdown of 6" forcemain with Engineer and City. Shutdown 6" forcemain, cut 6" forcemain, install 6", 12" and 14" piping and fitting, including 12" plug valve. Close 12" plug valve and do NOT install final 12" piping connection to existing 12" forcemain.
- D. Connect new permanent piping for 6" forcemain (with 12" valve closed) to temporary bypass piping and restart Northpoint and Northcrest lift stations connected to 6" forcemain.
- E. Coordinate shutdown of 12" forcemain with Engineer and City. Shutdown 12" forcemain, cut 12" forcemain and connect to installed 12" plug valve. Open plug valve and restart Hires Lift Station connected to 12" forcemain.
- F. 6" and 12" forcemains should be operational and being pumped through temporary bypass piping.

1.16 Suggested Sequence of Operation for the Temporary and Permanent Connection of the 6" and 12" Forcemains:

- A. After installation of new manhole, manhole lining, permanent ARV, and new 14" HDPE forcemain up to point of connection to existing piping, coordinate temporary shutdown of both 6" and 12" forcemains.
- B. Shutdown both 6" and 12" forcemains, disconnect temporary bypass piping and connect to new 14" HDPE forcemain.
- C. Restart all lift stations and forcemains.
- D. Remove all temporary piping, backfill, and complete restoration.

1.17 Re-establishment of Survey Markers

Any survey markers that are disturbed or removed during construction are to be replaced by Contractor. Contractor shall submit for Engineer review all site survey data documenting the re-establishment of the survey markers. Contractor is responsible for any additional survey work required to re-establish survey markers.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

-END-

SECTION 02902 - LANDSCAPING FOR UTILITIES

PART 1 - GENERAL

1.01 Summary

A. Section Includes

- ~~1. Providing topsoil, fertilizer, seed, mulch, sod, trees, bushes, ornamental plants, fencing and related items shown or specified.~~

B. Related Sections

1. Section 02101 - Storm Water Pollution Prevention and Erosion Control

1.02 Definitions

- ~~A. Lawn Areas: grassed areas which are cut and maintained on a routine basis, including lawns at homes and businesses and grass shoulders of streets, roads, and highways.~~

~~1.03 Submittals~~

~~A. Lawns and Grasses Product Data~~

~~B. Top Soil Product Data:~~

- ~~1. Composition and analysis of topsoil from off site sources.~~

~~C. Fertilizer Product Data:~~

- ~~1. Composition and analysis of commercial fertilizers.~~

~~D. Seed Mixture Product Data:~~

- ~~1. Seed mixture for each type of seed and each seed lot.~~

~~1.04 Warranty~~

- ~~A. Regrade, reseed, and restraw as necessary and when requested, to satisfaction of Engineer during the one year warranty period.~~

- ~~B. Guarantee all disturbed and replaced trees, shrubs, and ornamental plants during the one year warranty period.~~

PART 2 - PRODUCTS

2.01 ~~——~~ Lawn Products

- A. ~~Limestone: as specified in Section 02101~~
- B. ~~Fertilizer: as specified in Section 02101~~
- C. ~~Grass (permanent seed or sod): as specified in Section 02101~~
- D. ~~Mulch: as specified in Section 02101~~
- E. ~~Erosion control blanket: as specified in Section 02101~~
- F. ~~Wood cellulose fiber shall not contain any growth or germination-inhibiting factors and shall be dyed an appropriate color to facilitate visual metering during application. Composition on air-dry weight basis shall be: 9 to 15 percent moisture, pH range from 4.5 to 6.0.~~

2.02 ~~——~~ Topsoil:

- A. ~~All soil accepted as topsoil, whether obtained from on-site or off-site sources, shall comply with specified topsoil requirements.~~
- B. ~~Provide fertile, friable, natural topsoil, surface soil, capable of sustaining vigorous plant growth; free of any admixture of subsoil, clods of hard earth, plants or roots, sticks, stones larger than 1/2 inch in diameter, or other extraneous material harmful to plant growth, in compliance with ASTM D5268.~~
- C. ~~Topsoil Source: Reuse surface soil stockpiled on site, where possible. Verify suitability of stockpiled surface soil to produce topsoil, as specified. If not suitable, amend topsoil to meet requirements approved by the Engineer. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.~~
- D. ~~Supplement acceptable on-site soil with manufactured topsoil from off-site sources, when quantities available on site are insufficient to complete the Work.~~

2.03 Items Damaged or Destroyed

- A. Replacement fences, mailboxes, planters, and other items shall be:
 - 1. new and unused,
 - 2. the same type as the items removed, and
 - 3. of equal or better quality as the items being replaced when the items were new.
- B. Remove and relocate undamaged fence, mailboxes, planters, and other items when possible. Coordinate locations with property owner.

PART 3 - EXECUTION

3.01 General

- A. Replacement of underbrush in fields and woods, along farm fences and roads, and in similar areas is not required, unless otherwise shown on the Drawings.

3.02 Grading

- A. Fine grade all non-paved areas disturbed during construction. Areas shall be smooth and uniform. Finish elevations and grades shall be the same as elevations and grades prior to construction, unless otherwise shown on the Drawings.

~~3.03 Grass~~

- ~~A. Apply grass seed or install sod as specified in Section 02101.~~
- ~~B. Seed between February 15 and June 1 and between August 15 and November 1. Do not sow seed during adverse weather conditions. Do not broadcast seed during high wind. Do not sow seed when the moisture content of the soil is too low or too high for seed germination.~~

~~3.04 Erosion Control Blanket Installation~~

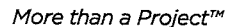
- ~~A. Erosion control blanket shall be used where shown on the Drawings, in areas where construction activities have disrupted vegetation in drainage ditch bottoms, and other areas where steep grade prohibits revegetation by standard seeding methods. In the case of drainage ditches, the erosion control blanket must extend up the sides of the ditch to 1 foot above the ordinary high water mark or to top of bank.~~

3.05 Clean-Up

- A. Clean up the job site following landscaping. Remove rubbish, excess materials, temporary structures, and equipment. Leave the work in a neat and presentable condition.

-END-

CITY OF ANGOLA, INDIANA



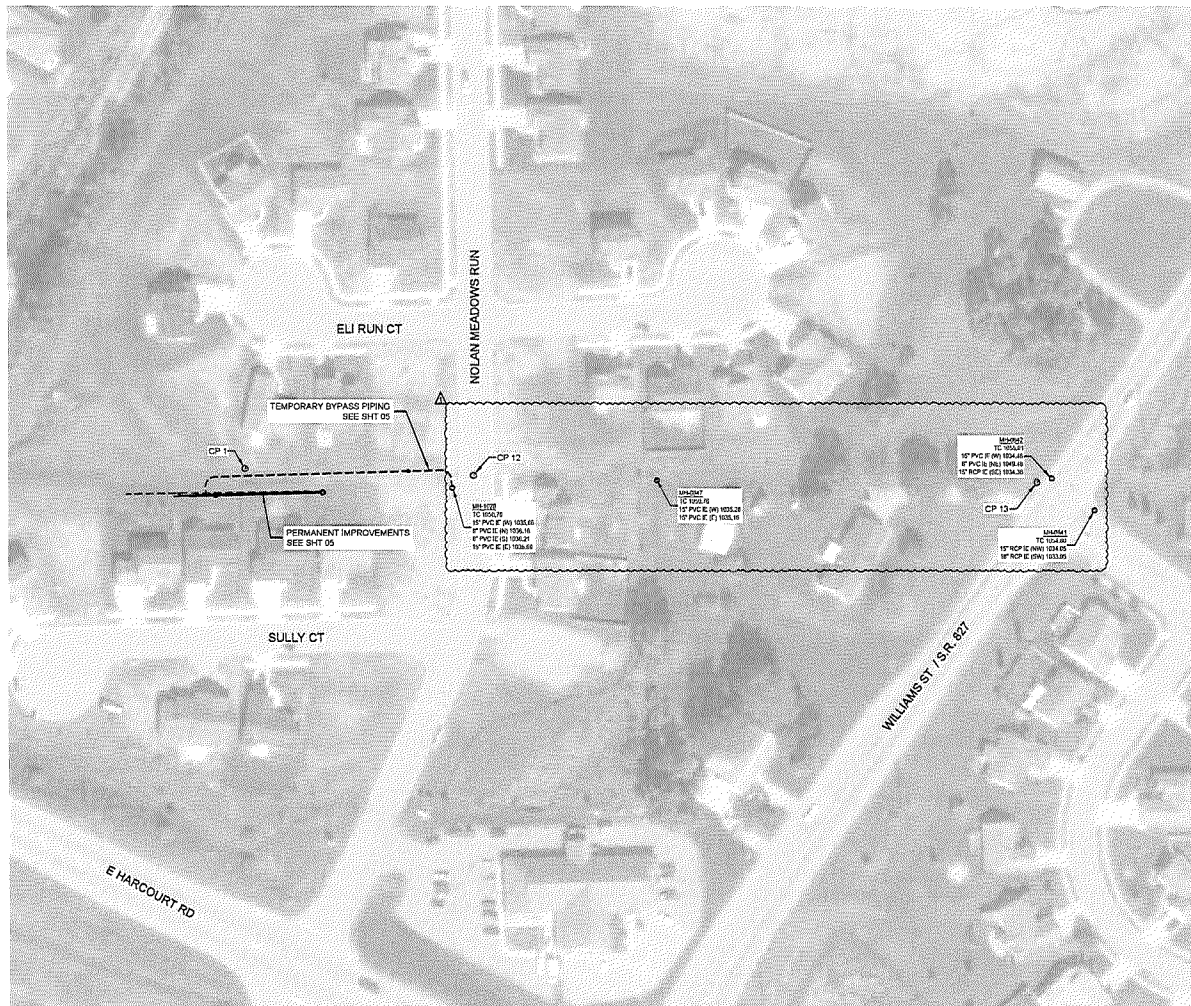
PROJECT NO. 191515-04-001

AUGUST 2020



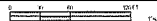
CHARLES A. HUTTON
REGISTERED ENGINEER STATE OF INDIANA NO. 10809535

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ESRI WORLD IMAGERY

LOCATION AND SCOPE OF WORK PLAN



HORIZONTAL AND VERTICAL CONTROL INFORMATION

- NOTES:
1. A FIELD SURVEY WAS PERFORMED IN MAY 2020.
 2. COORDINATES (INDIANA STATE PLANE, EAST ZONE, NAD 83) AND ELEVATIONS (NAVD 88) ARE BASED ON INCORP.
 3. UNITS ARE U.S. SURVEY FEET.
 4. CONTROL POINTS WERE SET USING GPS.

CONTROL POINTS			
POINT	NORTHING	EASTING	ELEVATION
CP 1	2335271.63	512601.50	1048.9
CP 12	2335264.97	512629.08	1050.1
CP 13	2335258.46	513389.56	1056.2

UTILITY CONTACTS

WATER
300 W MILL STREET
ANGOLA, IN 46703
(260) 665-2063
TOM SELMAN

WASTEWATER
1025 REDDING ROAD
ANGOLA, IN 46703
(260) 624-2699
CRAIG WILLIAMS

ELECTRIC
STUBBEN COUNTY REMC
335 S OLD ST
ANGOLA, IN 46703
(260) 665-3563

ELECTRIC
NIPSCO
700 W BROAD STREET
ANGOLA, IN 46703
(260) 668-1214
JEFF FULLTZ

GAS
NIPSCO GAS - NFPL
1153 AUBURN DR
AUBURN, IN 46706
(260) 855-2700 EXT 242
GARY FREED

TELEPHONE AND FIBER
FRONTIER
112 W BROAD STREET
ANGOLA, IN 46703
(260) 665-4072
DAVID SHORT

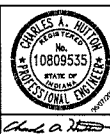
FIBER
IMAN FIBER OPTIC
1701 N WAYNE ST
ANGOLA, IN 46703
(260) 668-3111
BILL OEBER

CABLE TV
MEDIACOM LLC
139 E FIFTH STREET
AUBURN, IN 46706
(260) 927-3015
CR
3900 26TH AVE
MOLINE, IL 61255
(309) 783-4750
DENNIS JARDING

RAILROAD
INDIANA NORTH-EASTERN RAILROAD
PO BOX 123
SOUTH MILFORD, IN 46786
(260) 351-2421

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	LOCATION AND SCOPE OF WORK PLAN, AND INDEX
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MISCELLANEOUS DETAILS	
06	MISCELLANEOUS DETAILS
07	EROSION CONTROL DETAILS

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JLJ	1	09/25/2020	MRE	CHANGE ORDER NO. 1
	APPROVED BY	CAH				
	ISSUE DATE					
	AUGUST 2020					
	PROJECT NUMBER					
	225520-04-001					



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HIRES LIFT STATION DISCHARGE MANHOLE IMPROVEMENTS

CITY OF ANGOLA, INDIANA

LOCATION AND SCOPE OF WORK PLAN, AND INDEX

SHEET NO.

02

TOTAL SHEETS

7

D:\Engineering\Projects\202504\Angola\Hires Lift Station Discharge Manhole Improvements\Drawings\202504-001.dwg | User: jlu | Plot Date: 06/05/25 | Plot Scale: 1"=40'-0" | Title: Hires Lift Station Discharge Manhole Improvements

EXISTING FEATURES LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BENCH MARK		CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
	TEMPORARY BENCH MARK		ELECTRIC METER		LOT BOUNDARY
	SOIL BORING LOCATION		AIR CONDITIONING UNIT		PROPERTY BOUNDARY
	SECTION CORNER		UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT		UTILITY PRESTIGAL (DEFINED BY UTILITY)		SECTION BOUNDARY
	CONTROL POINT (SET/FOUND)		UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE		CONTOUR - INTERMEDIATE ELEVATION
	BOAT SPIKE (SET/FOUND)		LIGHT POLE		CONTOUR - INDEX ELEVATION
	PK NAIL (SET/FOUND)		LIGHT ON POWER POLE		OVERHEAD ELECTRIC
	RAILROAD SPIKE (SET/FOUND)		LIGHT ON JOINT POLE		OVERHEAD CABLE TV
	RAW MARKER - CONCRETE/GRANITE/STONE		POWER POLE		OVERHEAD TELEPHONE
	IRON PIPE/REBAR (WITH DIAMETER)		TELEPHONE POLE		UNDERGROUND CABLE TV
	BRASS PLUG		LAMP POST		UNDERGROUND ELECTRIC
	CABLE TV MANHOLE		GUY ANCHOR		UNDERGROUND FIBER OPTIC
	ELECTRIC MANHOLE		GUY POLE OR STUB		GAS MAIN
	GAS MANHOLE		CONTROLLER CABINET		DIGESTER GAS
	OTHER MANHOLE		FLAG POLE		PETROLEUM MAIN
	TELEPHONE MANHOLE		POST		UNDERGROUND TELEPHONE
	TELEPHONE VAULT		GROUND LIGHT		WATER MAIN
	TRAFFIC MANHOLE		MAILBOX		WATER SERVICE
	TRAFFIC MANHOLE		DOUBLE/MULTIPLE MAILBOX		FORCE MAIN
	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST		FENCE - FIELD
	SEPTIC TANK		SIGN - DOUBLE POST		FENCE - METAL
	VALVE VAULT		SIGN - RAILROAD SIGNAL		FENCE - WOOD
	BEEHIVE INLET		SIGN - RAILROAD CROSSING		GUARDRAIL
	CURB INLET		BUSH		STREAM
	DROP INLET		STUMP		TREE/BRUSH LINE
	CATCH BASIN		TREE - CONIFEROUS		
	DOWNSPOUT		TREE - DECIDUOUS		
	GAS METER		ROCK OUTCROP		
	GAS VALVE		SATELLITE		
	GAS SERVICE VALVE		SPRINKLER CONTROL VALVE		
	PETROLEUM VALVE		WATER METER		
	PETROLEUM SHUTOFF VALVE		WATER VALVE		
	GAS STATION MONITORING WELL		WATER SERVICE VALVE		
	GAS STATION FILL CAP		WATER WELL		
	NATURAL GAS WELL/STORAGE WELL		WET WELL		
	SPRINKLER HEAD		FIRE HYDRANT		
	YARD HYDRANT		PROCESS VALVE		

*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ALL PROPOSED ITEMS WILL BE CALLED OUT ON THEIR PLAN SHEETS. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL, NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

TABLE OF ABBREVIATIONS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ALUM	ALUMINUM	IPCS	INDIANA STATE PLANE COORDINATE
APP	APPROXIMATE	LB	POUND(S)
APPROX	APPROXIMATE(LY)	LF	LINEAR FEET
ASPH	ASPHALT	LH	LAKE
ASSOC	ASSOCIATES	LS	LIFT STATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MA EX	MATCH EXISTING
AVE	AVENUE	MAJ	MECHANICAL JOINT
AVG	AVERAGE	MATL	MATERIAL
BLDG	BUILDING	MAX	MAXIMUM
BLVD	BOULEVARD	MH	MANHOLE
BM	BENCHMARK	MIN	MINIMUM
CO	CLEANOUT	MISC	MISCELLANEOUS
CI	CAST IRON	N	NORTHING, NORTH
CL	CENTER LINE	NGS	NATIONAL GEODETTIC SURVEY
CMA	COLD MIX ASPHALT	NO.	NUMBER
CMP	CORRUGATED METAL PIPE	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
CONC	CONCRETE	PC	POINT OF CURVE (BEGIN CURVE)
CONT	CONTINUOUS	POLY	POLYETHYLENE
CNR	CORNER	PI	POINT OF INTERSECTION
CP	CONTROL POINT	PIPT	POINT ON TANGENT
CPP	CORRUGATED PLASTIC PIPE	PT	POINT OF TANGENT (END CURVE)
CR STN	CRUSHED STONE	PSI	POUNDS PER SQUARE INCH
CYD	CUBIC YARD	PT	POINT
D	DEPTH	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON	R	RADIUS
DI MJ	DUCTILE IRON MECHANICAL JOINT	ROW	RIGHT-OF-WAY
DBL	DOUBLE	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	RD	ROAD
DIP	DUCTILE IRON PIPE	S	SOUTH
DIPS	DUCTILE IRON PIPE SIZE	SR	STATE ROUTE
DRIVE	DRIVE	SST	STAINLESS STEEL
E	EASTING, EAST	SVA	SERVICE VALVE ASSEMBLY
EF	EACH FACE	SB	SOIL BORING
EW	EACH WAY	SCHED	SCHEDULE
EA	EACH	SDR	STANDARD DIMENSION RATIO
EJ	EAST JORDAN IRON WORKS	SECT	SECTION
EL	ELEVATION	SF	SQUARE FEET
EX	EXISTING	SWT	SWIFT
EXP	EXPANSION	SPECS	SPECIFICATION(S)
FIE	FINISH FLOOR ELEVATION	SQ	SQUARE
FM	FORCE MAIN	SRP	STATE REVOLVING FUND
FND	FOUND	ST	STREET
FT	FEET	STA	STATION
FTG	FOOTING	SYD	SQUARE YARD
GAUV	GALVANIZED	TBM	TEMPORARY BENCHMARK
GPS	GLOBAL POSITIONING SYSTEM	TC	TOP OF CASTING
HMA	HOT MIX ASPHALT	TPY	TYPICAL
HDPPE	HIGH DENSITY POLYETHYLENE	USGS	US GEOLOGICAL SURVEY
HORIZ	HORIZONTAL	VERT	VERTICAL
ID	INSIDE DIAMETER	VLV	VALVE
IE	INVERT ELEVATION	W	WIDTH, WEST
INC	INCORPORATED	WSE	WATER SURFACE ELEVATION
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	YR	YEAR
INSTR	INSTRUMENT		
INV	INVERT		

*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

- GENERAL NOTES:
- NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION. ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.
 - USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY. REPAIR ALL DAMAGES AS A RESULT OF OPERATIONS, INCLUDING DAMAGE TO DRAINAGE STRUCTURES, FIELD TILES, PUBLIC/PRIVATE ROADS, AND LANDSCAPING (INCLUDING FENCING). REPAIR AND REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER. PERFORM ALL REPAIR AND REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE OWNER AND THE ENGINEER. TAKE CARE TO AVOID DAMAGE TO PAVED AREAS WHICH ARE NOT SPECIFICALLY CALLED OUT FOR REPAIR OR REPLACEMENT. REPAIR OR REPLACE ALL SUCH PAVEMENTS WHICH ARE DAMAGED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.
 - OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
 - COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABLE PERMITS ISSUED TO THE OWNER WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGENCIES WITHIN THE TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
 - ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING BUT NOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. THE ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE, ALL INCLUSIVE OR EVEN APPROXIMATE. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY.
 - DETERMINE WHICH UTILITIES MAY CONFLICT WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
 - EXISTING UTILITY SERVICE LINES TO INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT UNDERGROUND SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
 - COORDINATE ALL WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
 - COORDINATE PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES AFFECTED CUSTOMERS. GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED INTERRUPTION OF UTILITY SERVICE.
 - USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC AND PRIVATE FACILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
 - MAINTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT. DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
 - ALL EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION SHALL FIRST BE OFFERED TO THE OWNER FOR SALVAGE. DELIVER SALVAGED ITEMS SELECTED BY OWNER TO A LOCATION DESIGNATED BY THE OWNER OR ENGINEER. IN THE EVENT THE OWNER DOES NOT ELECT TO KEEP THE REMOVED ITEMS, REMOVE SUCH ITEMS FROM THE SITE AND DISPOSE OF AT A LOCATION APPROVED FOR SUCH DISPOSAL AT THE CONTRACTOR'S EXPENSE.
 - COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
 - ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.
 - TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY, VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
 - LENGTHS OF SEWERS AS SHOWN ON THE DRAWINGS AND INDICATED AS LINEAR FEET (L.F.).
 - NORTHING AND EASTING INFORMATION IS GIVEN AT CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
 - PLACE NO. 8 CRUSHED AGGREGATE BETWEEN PIPES AT ALL PIPE CROSSINGS TO PREVENT PIPE SETTLEMENT UNLESS SHOWN OTHERWISE.
 - VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
 - RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.

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	APPROVED BY	CAH				
	ISSUE DATE					
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	PROJECT NUMBER					
	225520-04-001					



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HIRES LIFT STATION DISCHARGE MANHOLE IMPROVEMENTS

CITY OF ANGOLA, INDIANA

GENERAL NOTES AND ABBREVIATIONS

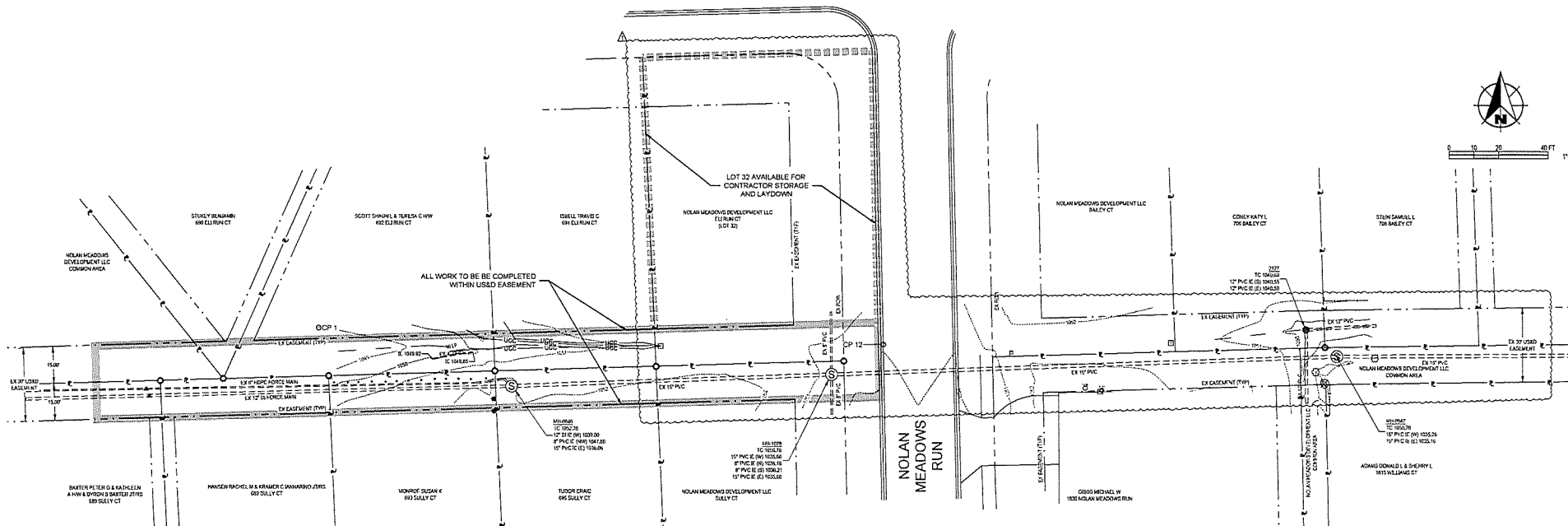
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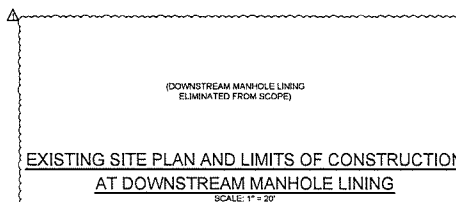
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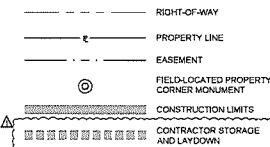


EXISTING SITE PLAN AND LIMITS OF CONSTRUCTION
AT DISCHARGE IMPROVEMENTS
SCALE: 1" = 20'

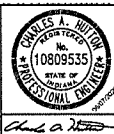


EXISTING SITE PLAN AND LIMITS OF CONSTRUCTION
AT DOWNSTREAM MANHOLE LINING
SCALE: 1" = 20'

LEGEND



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	ISSUE DATE					
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CITY OF ANGOLA, INDIANA

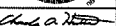
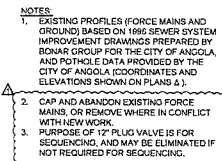
EXISTING SITE PLAN AND LIMITS OF CONSTRUCTION

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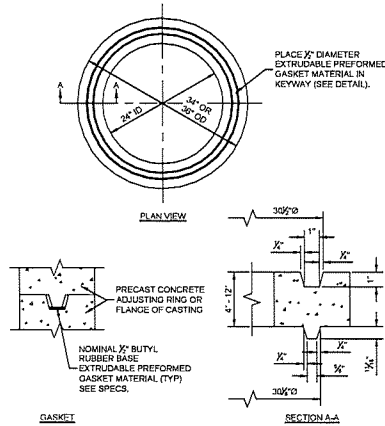
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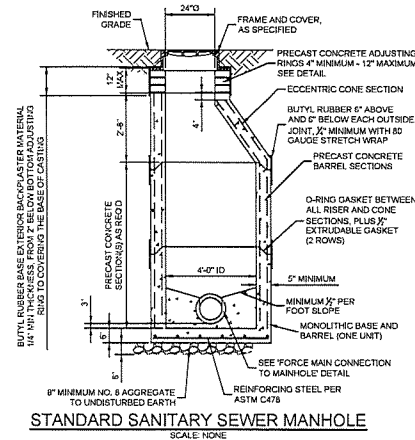
DISCHARGE REHAB PLANS

SHEET NO.
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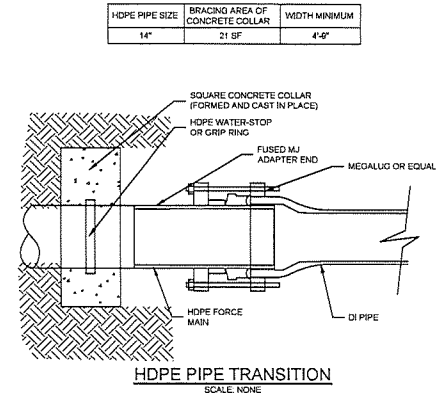
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ADJUSTING RING
SCALE: NONE

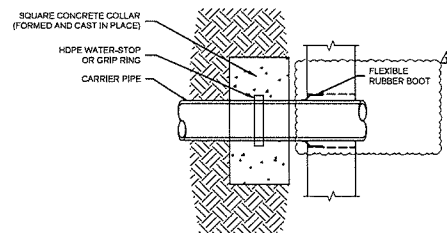


STANDARD SANITARY SEWER MANHOLE
SCALE: NONE

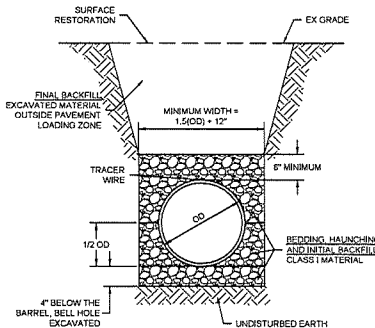


HDPE PIPE TRANSITION
SCALE: NONE

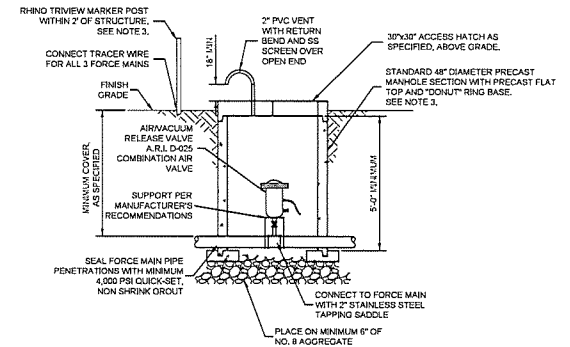
HDPE PIPE SIZE	BRACING AREA OF CONCRETE COLLAR	WIDTH MINIMUM
14"	21 SF	4'-0"



FORCE MAIN CONNECTION AT MANHOLE
SCALE: NONE



FLEXIBLE PIPE TRENCH (PRESSURE)
SCALE: NONE



- NOTES:**
1. THE CONTRACTOR SHALL DETERMINE THE REQUIRED FORCE MAIN DEPTH AT THE STRUCTURE TO ENSURE THAT THE VALVE VAULT STRUCTURE DOES NOT EXTEND ABOVE FINISHED GRADE.
 2. LOCATION OF AIRVACUUM RELEASE STRUCTURES ARE APPROXIMATE. THE FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT THE HIGH ELEVATION POINT OF THE FORCE MAIN.
 3. VAULT AND MARKER POST APPLICABLE FOR PERMANENT INSTALLATION ONLY, AND DO NOT APPLY TO ARV ON TEMPORARY BYPASS LINE.

AIRVACUUM RELEASE VALVE AND VAULT
SCALE: NONE

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	PROJECT NUMBER			225520-04-001		



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HIRES LIFT STATION DISCHARGE MANHOLE IMPROVEMENTS

CITY OF ANGOLA, INDIANA

MISCELLANEOUS DETAILS

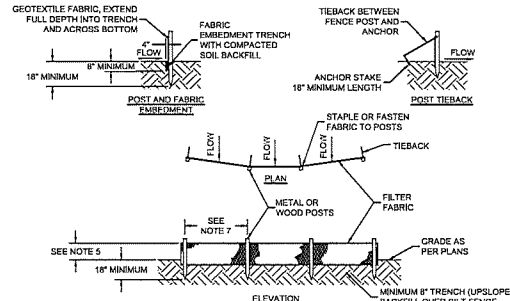
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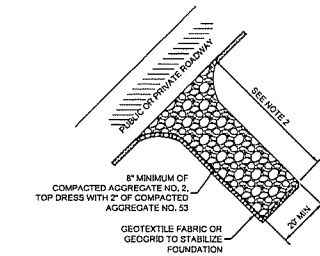
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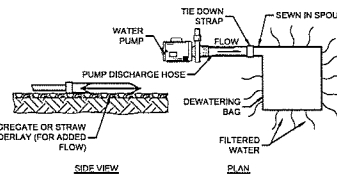
- NOTES:**
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
 - a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
 - b. WOVEN EXTRA STRENGTH - 50 LB/INCH INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
 - c. WOVEN STANDARD STRENGTH - 30 LB/INCH INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
 - d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
 - e. PERMITTIVITY - 0.25 5" (MAXIMUM), ASTM D4911.
 2. POSTS FOR SILT FENCES SHALL BE EITHER 2"x2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
 3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x4" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
 4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 8".
 5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".
 6. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPILED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 8" OVERLAP, AND SECURELY SEALED.
 7. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18"). WHEN STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6'.
 8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
 9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1/4" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 30" ABOVE THE ORIGINAL GROUND SURFACE.
 11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 30" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.
 12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6', THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
 13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
 14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.
- MAINTENANCE:**
1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
 3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
 4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE
SCALE: NONE



- NOTES:**
1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
 2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.
 3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTENANCE:**
1. INSPECT DAILY AND REPLACE DISPLACED STONE.
 2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
 3. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

CONSTRUCTION ENTRANCE
SCALE: NONE



MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4532	KN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4532	%	50 X 50
PUNCTURE STRENGTH	ASTM D4533	KN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	KPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	KN (LB)	0.38 (85) X 0.38 (85)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/MP (GAL/MIN/FT ²)	3866 (95)
PERMITTIVITY	ASTM D4491	S ²	1.2

- MAINTENANCE:**
1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
 2. DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.
 3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

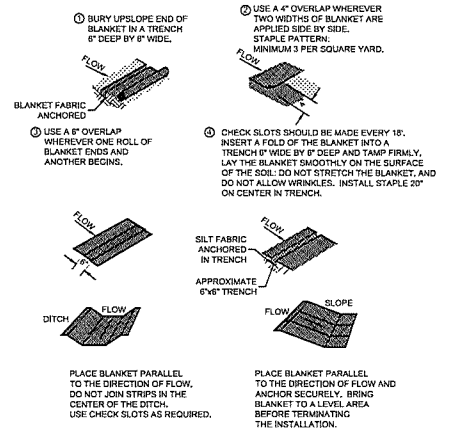
SOURCE:
KRISTAR
DANDY DEWATERING BAG
SEDCATCH

PUMPING BAG
SCALE: NONE

SEASONAL SOIL PROTECTION CHART											
STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
PERMANENT SEEDING											
DORMANT SEEDING											
TEMPORARY SEEDING											
SODDING											
MULCHING											

- A. = KENTUCKY BLUEGRASS 40 LB/ACRE
B. = KENTUCKY BLUEGRASS 210 LB/ACRE
C. = SPRING OATS 100 LB/ACRE (1" PLANTING DEPTH)
D. = WHEAT OR RYE 150 LB/ACRE (1" - 1.2" PLANTING DEPTH)
E. = ANNUAL RYEGRASS 40 LB/ACRE (1/4" PLANTING DEPTH)
F. = SOD
G. = ANCHORED STRAWHAY (2 TONS/ACRE) OR WOOD FIBER/CELLULOSE (1 TON/ACRE)

- NOTES:**
1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
 2. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
 3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
 4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
 5. SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.
- MAINTENANCE:**
1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
 3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
 4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.



- PRODUCT:**
1. NORTH AMERICAN GREEN SC150, OR EQUAL.
- NOTES:**
1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.
- MAINTENANCE:**
1. INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
 3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

EROSION CONTROL BLANKET
SCALE: NONE

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JLJ				
	APPROVED BY	CAH				
	ISSUE DATE	AUGUST 2020				
	PROJECT NUMBER	225520-04-001				



W
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HIRES LIFT STATION DISCHARGE MANHOLE IMPROVEMENTS

CITY OF ANGOLA, INDIANA

EROSION CONTROL DETAILS

SHEET NO.

07

TOTAL SHEETS

7

Attachment B

RFQ NO. 001

WESSLER ENGINEERING
CITY OF ANGOLA
HIRES LIFT STATION DISCHARGE MANHOLE IMPROVEMENTS
REQUEST FOR QUOTE

CONTRACTOR
PARRISH CONSTRUCTION

MONTH	DAY	YEAR
09	30	2020

SUBJECT: Reduction in Project Scope

REFERENCE: Attachment 1 – SUMMARY OF WORK
Attachment 2 – LANDSCAPING FOR UTILITIES
Attachment 3 – UPDATED CONTRACT DRAWINGS

Request for Quote, RFQ-001

Based on discussions with the City of Angola (Owner) and Parrish Construction (Contractor), the Owner is requesting pricing (savings) for the following changes and reductions in Project Scope.

1. Change in bypass pumping discharge location and reduction in bypass piping.
 - a. Bypass piping will be shortened to approx. 270 LFT and will be discharged into STR MH 1028 – Reference updated Sheet 5.
 - b. Bypass piping ramp will no longer be required, bypass discharge is now on the west side of Nolan Meadows Run.
 - i. **Delete Section 02734 – Bypass Pumping/Sewage Flow Control 2.01 and 3.01 C.**
All other sections remain.
 $11,225.00 - 9,830.00 = (1,395.00)$
2. Reduction in manhole lining scope.
 - a. New MH 0846 shall be lined. All other lining to be removed from the project – Reference revised Summary of Work specification section and revised Contract Drawings.
 $(10,016.00 - 5,737.60) = (4,278.40)$
3. Additional provided site access and staging area.
 - a. Lot 32 shall be made available to the Contractor for storage and laydown use. – Reference revised Sheet 4. $(36 \text{ HRS /MAN + TRUCK}) 36 \times \$6.00 = (2,160.00)$
4. Reduction in Site restoration.
 - a. Finish grading of site shall be the only restoration requirement. Owner to furnish and install topsoil, seeding, mulch, and fertilizer, as necessary. – Reference revised Landscaping For Utilities specification section. $165 \text{ BEDOCT TOPSOIL, SEED, MULCH @ 6.6} = (1,098.00)$
5. Change in HDPE pipe material requirement.
 - a. HDPE force main piping shall be DR-11 instead of DR-21
 - i. Replace Section 02737 – Force Main Sewer System 2.02 A 2. with the following:
 2. **HDPE pipe shall have DR (Dimension Ratio) 11 for open cut installation, and a nominal DIPS (Ductile Iron Pipe Size) outside diameter.**
 $NO \text{ SAVINGS} - \text{IPS MAYBE?}$
6. Modification to force main connection at manhole detail.

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CITY OF ANGOLA
HIRES LIFT STATION DISCHARGE MANHOLE IMPROVEMENTS
REQUEST FOR QUOTE

- a. Connection of force main to manhole shall be made using a rubber boot. – Reference revised detail on Sheet 6.
- b. Replace 02730 – Gravity Sanitary Sewer Systems 2.01D with the following:

D. Pipe to Structure Connections

1. Provide flexible neoprene molded boot or resilient seal which conforms to ASTM C923.

- a) Provide Kor-N-Seal boot as manufactured by National Pollution Control Systems, Inc. or approved equal.
- b) Provide resilient seal as manufactured by A-Lok or approved equal.

$$[304.17 \times 33.00 \text{ ft}] - 378.00 = (612.00)$$

7. Modifications to connection requirements.

- a. Existing 6" and 12" ductile iron piping is NOT required to be removed unless it conflicts with new pipe routing. If piping is not removed it shall be capped and abandoned in place. – Reference revised Sheet 05

- b. 12" plug valve is suggested for pipe tie-in sequencing. If Contractor can meet project constraints without the use of the 12" plug valve it may be omitted. – Reference revised Sheet 05.

$$\rightarrow \text{DELETE PLUG VALVE} = (4,468.75)$$

8. Modification to project constraints.


- a. Current project constraints limit the allowable shut-down duration and time for the existing 12" force main and 6" force main. Changes to the time of day and duration may impact the Owner's operations and required sewage hauling. The goal is to provide the overall best value for the project. Please provide a proposed sequencing, proposed modified shut-down duration and time, and any potential project savings associated with the modified constraints.

*WORK TO BE COMPLETED AS CRAWB
ALLOW'S IT TO BE → NO COST SAVINGS*

Please provide a quote including all labor, materials, etc. required to complete the work by Tuesday, October 13, 2020. Quote shall be itemized.

File 225520

WESSLER ENGINEERING

By	
Name:	Aaron Hutton
Title:	SENIOR PROJECT MANAGER