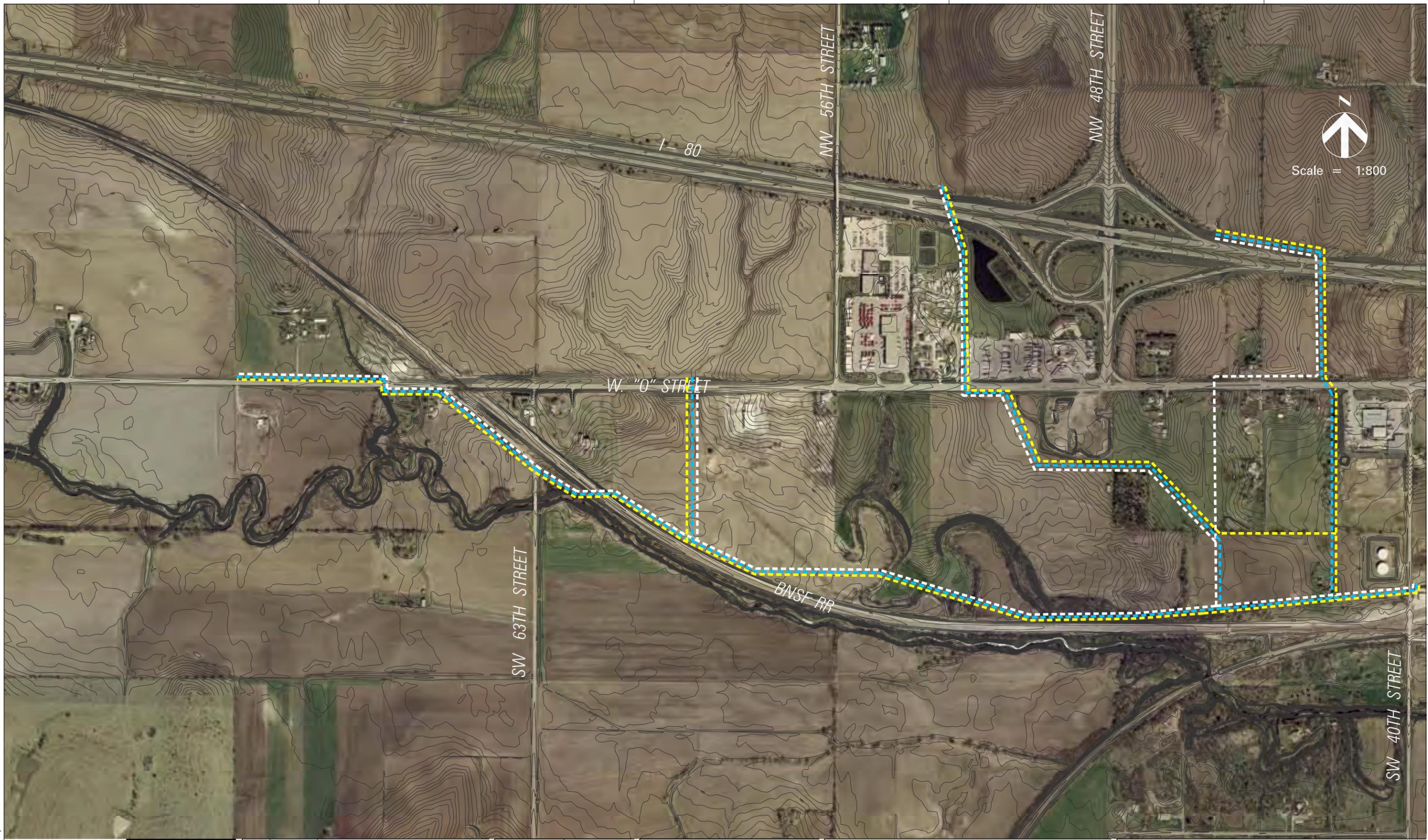


APPENDIX “D”
Alignment Study Figures and Cost Estimate

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ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
CIVIL	
STRUCTURAL	
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PROCESS	
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ELECTRICAL	
INSTRUMENTATION	
PROJECT NUMBER	



**West "O" Street
Trunk Sewer
Extension Project
Lincoln Wastewater System**



ALIGNMENT NO. 1
ALIGNMENT NO. 2
ALIGNMENT NO. 3

FILENAME	FIGURE3A1.DGN
SCALE	

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**West "O" Street Trunk Sewer Extension
 Alignment No. 1**

SUMMARY OF PROJECT COSTS FOR ALIGNMENT NO 1

SEGMENT 1		
Construction Cost Total		\$268,000
Right-of-Way Costs		\$36,000
SEGMENT 2		
Construction Cost Total		\$662,000
Right-of-Way Costs		\$135,000
SEGMENT 3		
Construction Cost Total		\$211,000
Right-of-Way Costs		\$42,000
SEGMENT 4		
Construction Cost Total		\$338,000
Right-of-Way Costs		\$26,000
SEGMENT 5		
Construction Cost Total		\$411,000
Right-of-Way Costs		\$56,000
Engineering, Legal, and Administrative Costs (Excludes ROW Costs)	20%	\$378,000
TOTAL PROJECT COST - ALIGNMENT 1		\$2,563,000

SEGMENT 1-TRUNK SEWER AND CONNECTION TO SUBBASIN SEWERS

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$21,200
36" Sewer Pipe	800	LF	\$162	\$130,000
18" Sewer Pipe	600	LF	\$81	\$49,000
Standard Manhole 4' Dia., 8' Deep or Less	3	EA	\$2,000	\$6,000
Standard and Drop Manhole Additional Depth	17	LF	\$250	\$4,000
6 Foot Average Dewatering Depth for Trunk Sewer	800	LF	\$25	\$20,000
Seeding	8,000	SY	\$0.40	\$3,000
Construction Cost Subtotal				\$233,200
Contingencies			15%	\$34,980
Construction Cost Total				\$268,000
Right-of-Way Costs				
Permanent Easement	56,000	SF	\$0.50	\$28,000
Temporary Construction Easement	84,000	SF	\$0.10	\$8,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 1				\$304,000

**West "O" Street Trunk Sewer Extension
 Alignment No. 1**

SEGMENT 2-WEST SUBBASIN SEWER TO NORTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$52,300
15" Sewer Pipe	4,700	LF	\$68	\$317,000
33 Inch Tunnel West "O" Street near NW 52nd Street	120	LF	\$495	\$59,000
Standard Manhole 4' Dia., 8' Deep or Less	10	EA	\$2,000	\$20,000
Standard and Drop Manhole Additional Depth	60	LF	\$250	\$15,000
Replace Asphalt Pavement	2,300	SY	\$45	\$104,000
Seeding	21,000	SY	\$0.40	\$8,000
Construction Cost Subtotal				\$575,300
Contingencies			15%	\$86,295
Construction Cost Total				\$662,000
Right-of-Way Costs				
Permanent Easement	137,400	SF	\$0.75	\$103,000
Temporary Construction Easement	320,600	SF	\$0.10	\$32,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 2				\$797,000

SEGMENT 3-EAST SUBBASIN SEWER TO NORTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$16,700
15" Sewer Pipe	1,400	LF	\$68	\$95,000
33 Inch Tunnel West "O" Street near NW 44th Street	120	LF	\$495	\$59,000
Standard Manhole 4' Dia., 8' Deep or Less	3	EA	\$2,000	\$6,000
Standard and Drop Manhole Additional Depth	17	LF	\$250	\$4,000
Seeding	8,000	SY	\$0.40	\$3,000
Construction Cost Subtotal				\$183,700
Contingencies			15%	\$27,555
Construction Cost Total				\$211,000
Right-of-Way Costs				
Permanent Easement	42,000	SF	\$0.75	\$32,000
Temporary Construction Easement	98,000	SF	\$0.10	\$10,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 3				\$253,000

**West "O" Street Trunk Sewer Extension
 Alignment No. 1**

SEGMENT 4-WEST SUBBASIN SEWER FROM "O" STREET TO NORTH OF I-80

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$26,720
15" Sewer Pipe	900	LF	\$68	\$61,000
33 Inch Tunnel Interstate 80 near NW 52nd Street	400	LF	\$495	\$198,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$4,000
Standard and Drop Manhole Additional Depth	11	LF	\$250	\$3,000
Seeding	3,000	SY	\$0.40	\$1,200
Construction Cost Subtotal				\$293,920
Contingencies			15%	\$44,088
Construction Cost Total				\$338,000
Right-of-Way Costs				
Permanent Easement	27,000	SF	\$0.75	\$20,000
Temporary Construction Easement	63,000	SF	\$0.10	\$6,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 4				\$364,000

SEGMENT 5-EAST SUBBASIN SEWER FROM "O" STREET TO NORTH OF I-80

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$32,500
15" Sewer Pipe	1,000	LF	\$68	\$68,000
12" Sewer Pipe	900	LF	\$54	\$49,000
33 Inch Tunnel Interstate 80 near NW 44th Street	400	LF	\$495	\$198,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$4,000
Standard and Drop Manhole Additional Depth	11	LF	\$250	\$3,000
Seeding	8,000	SY	\$0.40	\$3,000
Construction Cost Subtotal				\$357,500
Contingencies			15%	\$53,625
Construction Cost Total				\$411,000
Right-of-Way Costs				
Permanent Easement	57,000	SF	\$0.75	\$43,000
Temporary Construction Easement	133,000	SF	\$0.10	\$13,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 5				\$467,000

**West "O" Street Trunk Sewer Extension
 Alignment No. 2**

SUMMARY OF PROJECT COSTS FOR ALIGNMENT NO 2

SEGMENT 1		
Construction Cost Total		\$516,000
Right-of-Way Costs		\$62,000
SEGMENT 2		
Construction Cost Total		\$601,000
Right-of-Way Costs		\$114,000
SEGMENT 3		
Construction Cost Total		\$307,000
Right-of-Way Costs		\$67,000
SEGMENT 4		
Construction Cost Total		\$338,000
Right-of-Way Costs		\$15,000
SEGMENT 5		
Construction Cost Total		\$411,000
Right-of-Way Costs		\$45,000
 Engineering, Legal, and Administrative Costs (Excludes ROW Costs)	 20%	 \$434,600
 TOTAL PROJECT COST - ALIGNMENT 2		 \$2,910,600

SEGMENT 1-TRUNK SEWER AND CONNECTION TO SUBBASIN SEWERS

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$40,800
36" Sewer Pipe	1,800	LF	\$162	\$292,000
18" Sewer Pipe	600	LF	\$81	\$49,000
Standard Manhole 4' Dia., 8' Deep or Less	5	EA	\$2,000	\$10,000
Standard and Drop Manhole Additional Depth	29	LF	\$250	\$7,000
6 Foot Average Dewatering Depth for Trunk Sewer	1,800	LF	\$25	\$45,000
Seeding	13,000	SY	\$0.40	\$5,000
Construction Cost Subtotal				\$448,800
 Contingencies			 15%	 \$67,320
 Construction Cost Total				 \$516,000
 Right-of-Way Costs				
Permanent Easement	96,000	SF	\$0.50	\$48,000
Temporary Construction Easement	144,000	SF	\$0.10	\$14,000
 CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 1				 \$578,000

**West "O" Street Trunk Sewer Extension
 Alignment No. 2**

SEGMENT 2-WEST SUBBASIN SEWER TO NORTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$47,500
15" Sewer Pipe	4,000	LF	\$68	\$270,000
33 Inch Tunnel West "O" Street near NW 52nd Street	120	LF	\$495	\$59,000
Standard Manhole 4' Dia., 8' Deep or Less	10	EA	\$2,000	\$20,000
Standard and Drop Manhole Additional Depth	60	LF	\$250	\$15,000
Replace Asphalt Pavement	2,300	SY	\$45	\$104,000
Seeding	17,000	SY	\$0.40	\$7,000
Construction Cost Subtotal				\$522,500
Contingencies			15%	\$78,375
Construction Cost Total				\$601,000
Right-of-Way Costs				
Permanent Easement	116,400	SF	\$0.75	\$87,000
Temporary Construction Easement	271,600	SF	\$0.10	\$27,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 2				\$715,000

SEGMENT 3-EAST SUBBASIN SEWER TO NORTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$24,300
15" Sewer Pipe	2,400	LF	\$68	\$162,000
33 Inch Tunnel West "O" Street near NW 44th Street	120	LF	\$495	\$59,000
Standard Manhole 4' Dia., 8' Deep or Less	5	EA	\$2,000	\$10,000
Standard and Drop Manhole Additional Depth	29	LF	\$250	\$7,000
Seeding	13,000	SY	\$0.40	\$5,000
Construction Cost Subtotal				\$267,300
Contingencies			15%	\$40,095
Construction Cost Total				\$307,000
Right-of-Way Costs				
Permanent Easement	68,400	SF	\$0.75	\$51,000
Temporary Construction Easement	159,600	SF	\$0.10	\$16,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 3				\$374,000

**West "O" Street Trunk Sewer Extension
 Alignment No. 2**

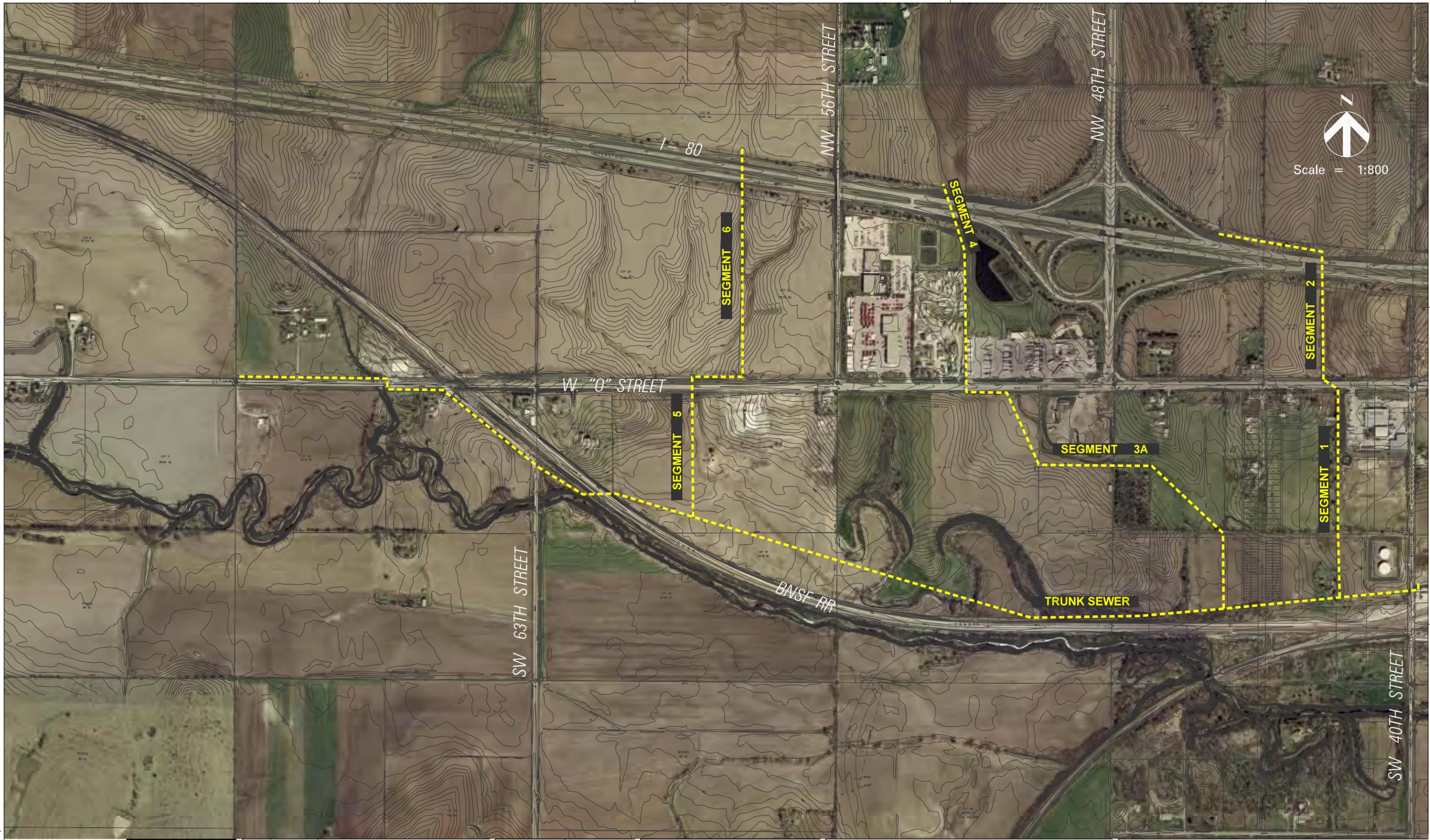
SEGMENT 4-WEST SUBBASIN SEWER FROM "O" STREET TO NORTH OF I-80

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$26,720
15" Sewer Pipe	900	LF	\$68	\$61,000
33 Inch Tunnel Interstate 80 near NW 52nd Street	400	LF	\$495	\$198,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$4,000
Standard and Drop Manhole Additional Depth	11	LF	\$250	\$3,000
Seeding	3,000	SY	\$0.40	\$1,200
Construction Cost Subtotal				\$293,920
Contingencies			15%	\$44,088
Construction Cost Total				\$338,000
Right-of-Way Costs				
Permanent Easement	15,000	SF	\$0.75	\$11,000
Temporary Construction Easement	35,000	SF	\$0.10	\$4,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 4				\$353,000

SEGMENT 5-EAST SUBBASIN SEWER FROM "O" STREET TO NORTH OF I-80

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$32,500
15" Sewer Pipe	1,000	LF	\$68	\$68,000
12" Sewer Pipe	900	LF	\$54	\$49,000
33 Inch Tunnel Interstate 80 near NW 44th Street	400	LF	\$495	\$198,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$4,000
Standard and Drop Manhole Additional Depth	11	LF	\$250	\$3,000
Seeding	8,000	SY	\$0.40	\$3,000
Construction Cost Subtotal				\$357,500
Contingencies			15%	\$53,625
Construction Cost Total				\$411,000
Right-of-Way Costs				
Permanent Easement	45,000	SF	\$0.75	\$34,000
Temporary Construction Easement	105,000	SF	\$0.10	\$11,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 5				\$456,000

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ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
CIVIL	
STRUCTURAL	
ARCHITECTURAL	
PROCESS	
MECHANICAL	
ELECTRICAL	
INSTRUMENTATION	
PROJECT NUMBER	



**West "O" Street
Trunk Sewer
Extension Project
Lincoln Wastewater System**



ALIGNMENT A

FILENAME	
SCALE	

SHEET	
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**West "O" Street Trunk Sewer Extension
 Alignment No. 3**

SUMMARY OF PROJECT COSTS FOR ALIGNMENT NO 3

SEGMENT 1		
Construction Cost Total		\$199,000
Right-of-Way Costs		\$21,000
SEGMENT 2		
Construction Cost Total		\$816,000
Right-of-Way Costs		\$123,000
SEGMENT 3		
Construction Cost Total		\$277,000
Right-of-Way Costs		\$59,000
SEGMENT 4		
Construction Cost Total		\$338,000
Right-of-Way Costs		\$15,000
SEGMENT 5		
Construction Cost Total		\$411,000
Right-of-Way Costs		\$45,000
 Engineering, Legal, and Administrative Costs (Excludes ROW Costs)	 20%	 \$408,200
 TOTAL PROJECT COST - ALIGNMENT 3		 \$2,712,200

SEGMENT 1-TRUNK SEWER AND CONNECTION TO SUBBASIN SEWERS

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$15,700
36" Sewer Pipe	800	LF	\$162	\$130,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$3,000
Standard and Drop Manhole Additional Depth	10	LF	\$250	\$2,000
6 Foot Average Dewatering Depth for Trunk Sewer	800	LF	\$25	\$20,000
Seeding	4,000	SY	\$0.40	\$2,000
Construction Cost Subtotal				\$172,700
 Contingencies			 15%	 \$25,905
 Construction Cost Total				 \$199,000
 Right-of-Way Costs				
Permanent Easement	32,000	SF	\$0.50	\$16,000
Temporary Construction Easement	48,000	SF	\$0.10	\$5,000
 CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 1				 \$220,000

**West "O" Street Trunk Sewer Extension
 Alignment No. 3**

SEGMENT 2-WEST SUBBASIN SEWER TO NORTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$49,800
36" Sewer Pipe	1,000	LF	\$162	\$162,000
15" Sewer Pipe	4,300	LF	\$68	\$290,000
33 Inch Tunnel West "O" Street near NW 52nd Street	120	LF	\$495	\$59,000
Standard Manhole 4' Dia., 8' Deep or Less	10	EA	\$2,000	\$20,000
Standard and Drop Manhole Additional Depth	60	LF	\$250	\$15,000
Replace Asphalt Pavement	2,300	SY	\$45	\$104,000
Seeding	24,000	SY	\$0.40	\$10,000
Construction Cost Subtotal				\$709,800
Contingencies			15%	\$106,470
Construction Cost Total				\$816,000
Right-of-Way Costs				
Permanent Easement	125,400	SF	\$0.75	\$94,000
Temporary Construction Easement	292,600	SF	\$0.10	\$29,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 2				\$939,000

SEGMENT 3-EAST SUBBASIN SEWER TO NORTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$21,900
15" Sewer Pipe	2,100	LF	\$68	\$142,000
33 Inch Tunnel West "O" Street near NW 44th Street	120	LF	\$495	\$59,000
Standard Manhole 4' Dia., 8' Deep or Less	4	EA	\$2,000	\$8,000
Standard and Drop Manhole Additional Depth	25	LF	\$250	\$6,000
Seeding	11,000	SY	\$0.40	\$4,000
Construction Cost Subtotal				\$240,900
Contingencies			15%	\$36,135
Construction Cost Total				\$277,000
Right-of-Way Costs				
Permanent Easement	59,400	SF	\$0.75	\$45,000
Temporary Construction Easement	138,600	SF	\$0.10	\$14,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 3				\$336,000

**West "O" Street Trunk Sewer Extension
 Alignment No. 3**

SEGMENT 4-WEST SUBBASIN SEWER FROM "O" STREET TO NORTH OF I-80

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$26,720
15" Sewer Pipe	900	LF	\$68	\$61,000
33 Inch Tunnel Interstate 80 near NW 52nd Street	400	LF	\$495	\$198,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$4,000
Standard and Drop Manhole Additional Depth	11	LF	\$250	\$3,000
Seeding	3,000	SY	\$0.40	\$1,200
Construction Cost Subtotal				\$293,920
Contingencies			15%	\$44,088
Construction Cost Total				\$338,000
Right-of-Way Costs				
Permanent Easement	15,000	SF	\$0.75	\$11,000
Temporary Construction Easement	35,000	SF	\$0.10	\$4,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 4				\$353,000

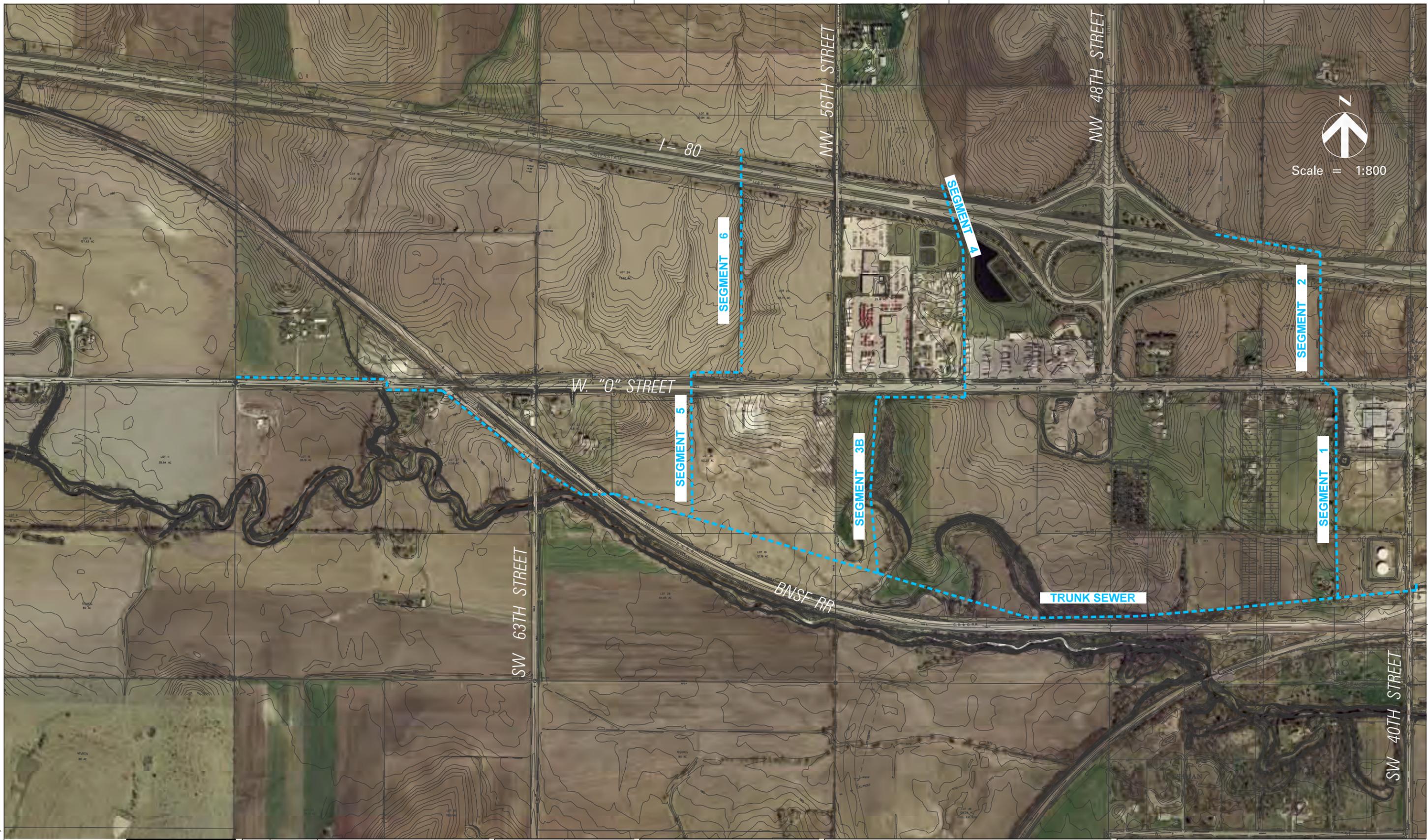
SEGMENT 5-EAST SUBBASIN SEWER FROM "O" STREET TO NORTH OF I-80

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$32,500
15" Sewer Pipe	1,000	LF	\$68	\$68,000
12" Sewer Pipe	900	LF	\$54	\$49,000
33 Inch Tunnel Interstate 80 near NW 44th Street	400	LF	\$495	\$198,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$4,000
Standard and Drop Manhole Additional Depth	11	LF	\$250	\$3,000
Seeding	8,000	SY	\$0.40	\$3,000
Construction Cost Subtotal				\$357,500
Contingencies			15%	\$53,625
Construction Cost Total				\$411,000
Right-of-Way Costs				
Permanent Easement	45,000	SF	\$0.75	\$34,000
Temporary Construction Easement	105,000	SF	\$0.10	\$11,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 5				\$456,000

SEGMENT 3A - SUBBASIN SEWER TO NORTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$31,800
15" Sewer Pipe	3,110	LF	\$60	\$187,000
18" Sewer Pipe	1,620	LF	\$72	\$117,000
33 Inch Tunnel West "O" Street near NW 52nd Street	120	LF	\$495	\$59,000
Standard Manhole 4' Dia., 8' Deep or Less	9	EA	\$2,000	\$19,000
Standard and Drop Manhole Additional Depth	38	LF	\$250	\$9,000
Replace Asphalt Pavement	2,300	SY	\$45	\$104,000
Seeding	26,000	SY	\$0.40	\$10,000
Construction Cost Subtotal				\$536,800
Contingencies			10%	\$53,680
Construction Cost Total				\$590,000
Right-of-Way Costs				
Permanent Easement	141,900	SF	\$0.50	\$71,000
Temporary Construction Easement	331,100	SF	\$0.10	\$33,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 3A				\$694,000
Developer Charge for Collection Sewer				
8" Sewer	2,500	LF	\$32	\$80,000
REVISED CONST AND RIGHT-OF-WAY COSTS-SEGMENT 3A				\$614,000

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ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
CIVIL	
STRUCTURAL	
ARCHITECTURAL	
PROCESS	
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ELECTRICAL	
INSTRUMENTATION	
PROJECT NUMBER	



**West "O" Street
Trunk Sewer
Extension Project
Lincoln Wastewater System**

ALIGNMENT B

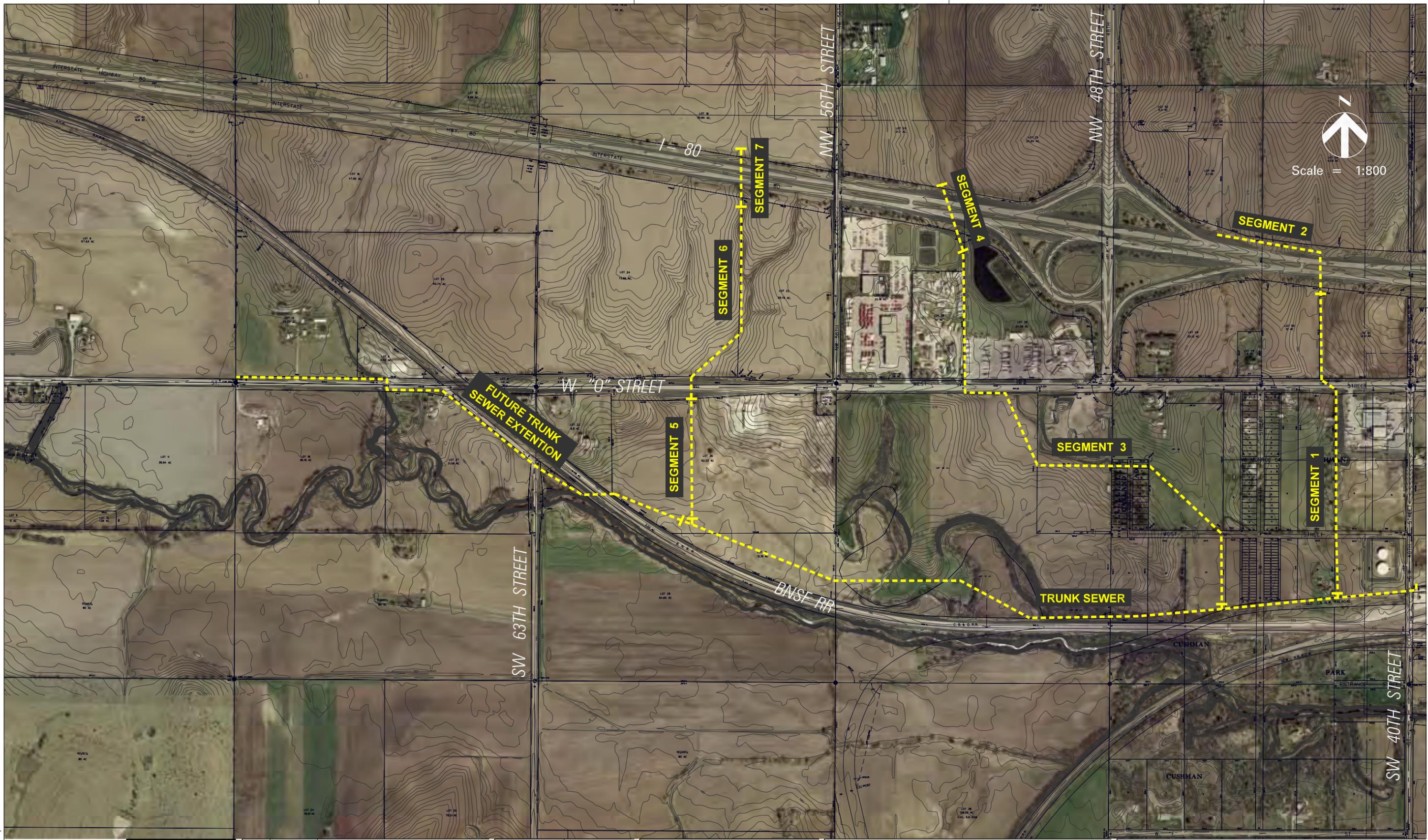
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SEGMENT 3B - SUBBASIN SEWER TO NORTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$45,300
18" Sewer Pipe	3,540	LF	\$72	\$255,000
36 Inch Tunnel West "O" Street near NW 52nd Street	120	LF	\$540	\$65,000
Standard Manhole 4' Dia., 8' Deep or Less	7	EA	\$2,000	\$14,000
Standard and Drop Manhole Additional Depth	28	LF	\$250	\$7,000
Replace Asphalt Pavement	2,300	SY	\$45	\$104,000
Seeding	20,000	SY	\$0.40	\$8,000
Construction Cost Subtotal				\$498,300
Contingencies			10%	\$49,830
Construction Cost Total				\$548,000
Right-of-Way Costs				
Permanent Easement	106,200	SF	\$0.50	\$53,000
Temporary Construction Easement	247,800	SF	\$0.10	\$25,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 3B				\$626,000
Increase Trunk Sewer from 30 to 36 inches				
Additional 6" Sewer Pipe	3,200	LF	\$24	\$77,000
REVISED CONST AND RIGHT-OF-WAY COSTS-SEGMENT 3B				\$703,000

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ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
CIVIL	
STRUCTURAL	
ARCHITECTURAL	
PROCESS	
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ELECTRICAL	
INSTRUMENTATION	
PROJECT NUMBER	



**West "O" Street
 Trunk Sewer
 Extension Project
 Lincoln Wastewater System**

**TRUNK SEWER EXTENSION
 AND SUBBASIN SEWER PLAN**

FILENAME	
SCALE	

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