CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: November 1, 2021

ITEM:

Resolution - Ordering Construction
Grand Avenue - South 88th Street to South Grand Prairie Parkway

FINANCIAL IMPACT:

The Engineering Estimate of Construction Cost for Grand Avenue - South 88th Street to South Grand Prairie Parkway is $16,758,972.95. Payments will be made from account no. 500.000.000.5250.490 with the ultimate funding intended to come from Grand Prairie Parkway Urban Renewal Area TIF. Microsoft will reimburse the City of West Des Moines for construction of sidewalk along Grand Avenue and South 88th Street adjacent to their data center (Mountain) at 8855 Grand Avenue.

BACKGROUND:

A Bid Letting should be scheduled for 2:00 p.m. on Wednesday, December 1, 2021 and a Public Hearing on the project should be scheduled for 5:35 p.m. on Monday, December 6, 2021. The contract would be awarded on Monday, December 6, 2021 and work will begin shortly thereafter.

This project includes construction of Grand Avenue from just west of South 88th Street to South Grand Prairie Parkway as part of the proposed Ginger West development. Grand Avenue (major arterial) will ultimately be a six-lane divided urban roadway, but only three lanes will be constructed as part of the initial construction. Construction of a 209'x42' pretensioned prestressed concrete beam bridge over Sugar Creek will also be included with the project. The project will include grading, storm sewer, watermain, fiber communications conduit, paving, multi-use trail, sidewalk, and other miscellaneous work. Johnson Creek Conveyance Improvements from Booneville Road to Grand Avenue and Sugar Creek Conveyance Improvements from Grand Avenue to Raccoon River Drive are also included with the project to provide the necessary soil borrow necessary to construct Grand Avenue. An interim completion date of October 1, 2022 has been established for the construction of the fiber communications conduit to meet Microsoft deadlines. The remainder of the project is anticipated to be completed by June 30, 2023.

OUTSTANDING ISSUES:

None.

RECOMMENDATION:

City Council Adopt:

- Resolution Ordering Construction of the Grand Avenue - South 88th Street to South Grand Prairie Parkway.
- Fixing 2:00 p.m. on Wednesday, December 1, 2021 as the time and date for project Bid Letting.
- Ordering the City Clerk to publish notice of Letting and Public Hearing.

Lead Staff Member: Brian J. Hemesath, P.E., City Engineer

STAFF REVIEWS

Department Director	Brian J. Hemesath, P.E., City Engineer
Appropriations/Finance	Tim Stiles, Finance Director
Legal	Richard Scieszinski, City Attorney
Agenda Acceptance	

PUBLICATION(S) (if applicable)

Published In	
Dates(s) Published	

SUBCOMMITTEE REVIEW (if applicable)

Committee	Public Services		
Date Reviewed	October 25, 2021		
Recommendation	Yes	No	Split

RESOLUTION ORDERING CONSTRUCTION AND NOTICE OF PUBLIC HEARING ON PLANS, SPECIFICATIONS, FORM OF CONTRACT, ESTIMATE OF COST, AND DIRECTING ADVERTISEMENT FOR BIDS

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, IOWA, that the following described public improvement:

Grand Avenue - South 88th Street to South Grand Prairie Parkway
Project No. 0510-009-2021

is hereby ordered to be constructed according to the Plans and Specifications prepared by McClure Engineering Company of Clive, Iowa and now on file in the office of the City Clerk.

BE IT FURTHER RESOLVED, that the detailed Plans and Specifications, Form of Contract, Bid Security, and Notice to Bidders are hereby approved, subject to hearing thereon, and that the same are now on file in the office of the City Clerk for public inspection.

BE IT FURTHER RESOLVED, that the City Clerk is hereby directed to publish notice of hearing on the Plans and Specifications, Form of Contract, Bid Security and Estimate of Costs for said project to be held at 5:35 p.m. on Monday, December 6, 2021, with said notice published not less than four (4) days nor more than twenty (20) days prior to the date heretofore fixed.

BE IT FURTHER RESOLVED, that the City Clerk is hereby directed to publish Notice to Bidders for said project with publication not less than thirteen (13) days nor more than forty-five (45) days prior to the date for receiving bids. Said bids are to be filed prior to 2:00 p.m. on Wednesday, December 1, 2021.

BE IT FURTHER RESOLVED, that the bids received for construction of said improvements will be opened, publicly read and tabulated by the City Clerk, Deputy City Clerk, or City Clerk designee at 2:00 p.m. on Wednesday, December 1, 2021 and the results of said bids shall be considered at a meeting of this Council on Monday, December 6, 2021 at 5:35 p.m. and acted upon at said time, or such time as may then be fixed.

PASSED AND APPROVED on this **1st** day of **November, 2021.**

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Steven K. Gaer, Mayor

ATTEST:

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Ryan T. Jacobson, City Clerk

Grand Avenue - South 88th Street to South Grand Prairie Parkway
City Proj. No. 0510-009-2021
Preliminary Opinion of Probable Cost
West Des Moines, Iowa
October 25, 2021

Item No.	Item Code	Item	Unit	Unit Price	Quantity	Total Cost
		SECTION 2010 - EARTHWORK, SUBGRADE, AND SUBBASE				
2.01	2010-B	CLEARING AND GRUBBING	AC	$ 5,000.00	22.5	$ 112,500.00
2.02	2010-D-1	TOPSOIL, ON-SITE	CY	$ 5.00	88060	$ 440,300.00
2.03	2010-E	EXCAVATION, CLASS 10, CLASS 12, OR CLASS 13	CY	$ 8.00	209092	$ 1,672,736.00
2.04	2010-E	EXCAVATION, CLASS 10 WASTE	CY	$ 40.00	240	$ 9,600.00
2.05	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	$ 20.00	1000	$ 20,000.00
2.06	2010-G	SUBGRADE PREPARATION, 12 INCH DEPTH	SY	$ 3.50	34653	$ 121,285.50
2.07	2010-H	SUBGRADE TREATMENT, CEMENT	SY	$ 7.50	34653	$ 259,897.50
2.08	2010-J-2-c	REMOVAL OF KNOWN PIPE CULVERT, RCP, 48 IN. DIA.	LF	$ 50.00	48	$ 2,400.00
2.09	2010-J-3-a	REMOVAL OF KNOWN PIPE AND CONDUIT, WATER MAIN, 8 IN DIA	LF	$ 50.00	30	$ 1,500.00
		SECTION 3010 - TRENCH EXCAVATION AND BACKFILL				
3.01	3010-B	ROCK EXCAVATION	CY	$ 25.00	100	$ 2,500.00
3.02	3010-C	TRENCH FOUNDATION	TON	$ 50.00	500	$ 25,000.00
3.03	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	$ 25.00	500	$ 12,500.00
3.04	3010-999-A	STORM SEWER ROCK CHIMNEY	EA	$ 3,000.00	9	$ 27,000.00
		SECTION 4020 - STORM SEWERS				
4.01	4020-A-1	STORM SEWER, TRENCHED, RCP, 15 IN DIA, 2000D	LF	$ 75.00	2132	$ 159,900.00
4.02	4020-A-1	STORM SEWER, TRENCHED, RCP, 18 IN DIA, 2000D	LF	$ 90.00	743	$ 66,870.00
4.03	4020-A-1	STORM SEWER, TRENCHED, RCP, 24 IN DIA, 2000D	LF	$ 100.00	1620	$ 162,000.00
4.04	4020-A-1	STORM SEWER, TRENCHED, RCP, 30 IN DIA, 2000D	LF	$ 120.00	821	$ 98,520.00
4.05	4020-A-1	STORM SEWER, TRENCHED, RCP, 36 IN DIA, 2000D	LF	$ 150.00	1494	$ 224,100.00
4.06	4020-A-1	STORM SEWER, TRENCHED, RCP, 42 IN DIA, 2000D	LF	$ 180.00	888	$ 159,840.00
4.07	4020-A-1	STORM SEWER, TRENCHED, RCP, 48 IN DIA, 2000D	LF	$ 210.00	234	$ 49,140.00
4.08	4020-A-1	STORM SEWER, TRENCHED, RCP, 48 IN DIA, 3000D	LF	$ 220.00	776	$ 170,720.00
4.09	4020-A-1	STORM SEWER, TRENCHED, RCAP, 36 IN x 59 IN, 2000D	LF	$ 260.00	186	$ 48,360.00
4.10	4020-A-1	STORM SEWER, TRENCHED, RCAP, 36 IN x 59 IN, 3000D	LF	$ 280.00	237	$ 66,360.00
4.11	4020-A-1	STORM SEWER, TRENCHED, RCAP, 45 IN x 73 IN, 2000D	LF	$ 350.00	424	$ 148,400.00
		SECTION 4030 - PIPE CULVERTS				
4.12	4030-B	PIPE APRON, RCP, 15 IN DIA	EA	$ 2,000.00	2	$ 4,000.00
4.13	4030-B	PIPE APRON, RCP, 18 IN DIA	EA	$ 2,500.00	2	$ 5,000.00
4.14	4030-B	PIPE APRON, RCP, 30 IN DIA	EA	$ 3,000.00	2	$ 6,000.00
4.15	4030-B	PIPE APRON, RCAP, 36 IN x 59 IN	EA	$ 4,000.00	2	$ 8,000.00
4.16	4030-B	PIPE APRON, RCAP, 45 IN x 73 IN	EA	$ 4,500.00	4	$ 18,000.00
4.17	4030-C	FOOTING FOR CONCRETE PIPE APRON, RCP, 15 IN DIA	EA	$ 500.00	2	$ 1,000.00
4.18	4030-C	FOOTING FOR CONCRETE PIPE APRON, RCP, 18 IN DIA	EA	$ 500.00	2	$ 1,000.00
4.19	4030-C	FOOTING FOR CONCRETE PIPE APRON, RCP, 30 IN DIA	EA	$ 750.00	2	$ 1,500.00
4.20	4030-C	FOOTING FOR CONCRETE PIPE APRON, RCAP, 36 IN x 59 IN	EA	$ 1,500.00	2	$ 3,000.00
4.21	4030-C	FOOTING FOR CONCRETE PIPE APRON, RCAP, 45 IN x 73 IN	EA	$ 1,500.00	4	$ 6,000.00
4.22	4030-D	PIPE APRON GUARD	EA	$ 1,000.00	12	$ 12,000.00
		SECTION 4040 - SUBDRAINS AND FOOTING DRAIN COLLECTORS				
4.23	4040-A	SUBDRAIN, CASE A, TYPE 1, 6 IN DIA	LF	$ 20.00	888	$ 17,760.00
4.24	4040-A	SUBDRAIN, CASE D, TYPE 2, 6 IN DIA	LF	$ 15.00	6279	$ 94,185.00
4.25	4040-C	SUBDRAIN CLEANOUT, TYPE A-1, 6 IN DIA	EA	$ 750.00	5	$ 3,750.00
4.26	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 8 IN DIA, OUTLET TO STRUCTURE	EA	$ 500.00	5	$ 2,500.00
4.27	4040-D	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 8 IN DIA, OUTLET TO DITCH	EA	$ 1,000.00	2	$ 2,000.00
4.28	4040-999-A	FIELD TILE REPAIR AND FITTINGS, PVC, 10 IN DIA	LF	$ 30.00	344	$ 10,320.00
4.29	4040-999-B	FIELD TILE REPAIR AND FITTINGS, PVC, 15 IN DIA	LF	$ 40.00	493	$ 19,720.00
4.30	4040-999-B	FIELD TILE REPAIR AND FITTINGS, PVC, UNSPECIFIED DIA	LF	$ 25.00	1000	$ 25,000.00
		SECTION 5010 - PIPE AND FITTINGS				
5.01	5010-A-1	WATER MAIN, TRENCHED, PVC C900, 8 IN DIA	LF	$ 150.00	30	$ 4,500.00
5.02	5010-A-1	WATER MAIN, TRENCHED, PVC C900, 16 IN DIA	LF	$ 125.00	5941	$ 742,625.00
5.03	5010-A-1	WATER MAIN, TRENCHED, PVC C900, 16 IN DIA, RESTRAINED JOINT	LF	$ 150.00	401	$ 60,150.00
5.04	5010-A-1	WATER MAIN, TRENCHED, DIP, 16 IN DIA, RESTRAINED JOINT	LF	$ 250.00	480	$ 120,000.00
5.05	5010-A-2	WATER MAIN, TRENCHLESS, DIP, 16 IN DIA, RESTRAINED JOINT	LF	$ 500.00	160	$ 80,000.00
5.06	5010-C-2	FITTING, MECHANICAL JOINT, 8 IN DIA	LB	$ 10.00	250	$ 2,500.00
5.07	5010-C-2	FITTING, MECHANICAL JOINT, 16 IN DIA	LB	$ 10.00	2803	$ 28,030.00
		SECTION 5020 - VALVES, FIRE HYDRANTS, AND APPURTENANCES				
5.08	5020-A	VALVE, GATE, 16 IN DIA	EA	$ 10,000.00	13	$ 130,000.00
5.09	5020-C	FIRE HYDRANT ASSEMBLY	EA	$ 7,500.00	24	$ 180,000.00
5.10	5020-F	VALVE BOX EXTENSION	EA	$ 1,500.00	2	$ 3,000.00
5.11	5020-H	FIRE HYDRANT RELOCATION	EA	$ 2,500.00	1	$ 2,500.00
5.12	5020-J	VALVE REMOVAL	EA	$ 1,000.00	2	$ 2,000.00
		SECTION 6010 - STRUCTURES FOR SANITARY AND STORM SEWERS				
6.01	6010-A	MANHOLE TYPE SW-401, 72 IN DIA	EA	$ 8,000.00	1	$ 8,000.00
6.02	6010-A	MANHOLE TYPE SW-402, 48 IN x 84 IN	EA	$ 10,000.00	1	$ 10,000.00
6.03	6010-A	MANHOLE TYPE SW-402, 84 IN x 96 IN	EA	$ 14,000.00	1	$ 14,000.00
6.04	6010-A	MANHOLE TYPE SW-402, 60 IN x 108 IN	EA	$ 15,000.00	2	$ 30,000.00
6.05	6010-B	INTAKE TYPE SW-505	EA	$ 5,000.00	26	$ 130,000.00
6.06	6010-B	INTAKE TYPE SW-506	EA	$ 10,000.00	14	$ 140,000.00
6.07	6010-B	INTAKE TYPE SW-506, MODIFIED	EA	$ 12,500.00	2	$ 25,000.00
6.08	6010-B	INTAKE TYPE SW-506, MODIFIED - 1 FT EXTENSION	EA	$ 14,000.00	9	$ 126,000.00
6.09	6010-B	INTAKE TYPE SW-506, MODIFIED - 2.5 FT EXTENSION	EA	$ 15,000.00	1	$ 15,000.00
6.10	6010-F	MANHOLE ADJUSTMENT, MAJOR	EA	$ 3,000.00	6	$ 18,000.00
		SECTION 7010 - PORTLAND CEMENT CONCRETE PAVEMENT				
7.01	7010-A	PAVEMENT, PCC, 9 IN REINFORCED	SY	$ 80.00	28637	$ 2,290,960.00
7.02	7010-999-A	BRIDGE APPROACH PAVEMENT, BR-203	SY	$ 250.00	678	$ 169,500.00
7.03	7010-999-B	LONGITUDINAL GROOVING IN CONCRETE	SY	$ 5.00	1527	$ 7,635.00
7.04	7010-999-C	CONCRETE BARRIER, TAPERED END, BA-108	EA	$ 5,000.00	4	$ 20,000.00
		SECTION 7030 - SIDEWALKS, SHARED USED PATHS, AND DRIVEWAYS				
7.05	7030-B	REMOVAL OF CURB	LF	$ 75.00	15	$ 1,125.00
7.06	7030-C	SHARED USE PATH, PCC, 6 IN REINFORCED	SY	$ 50.00	10791	$ 539,550.00
7.07	7030-D	SPECIAL SUBGRADE PREPARATION FOR SHARED USE PATH	SY	$ 2.50	12934	$ 32,335.00
7.08	7030-E	SIDEWALK, PCC, 4 IN	SY	$ 50.00	1711	$ 85,550.00
7.09	7030-G	DETECTABLE WARNING	SF	$ 60.00	20	$ 1,200.00

Item No.	Item Code	Item	Unit	Unit Price	Quantity	Total Cost
7.10	7030-H-1	DRIVEWAY, PAVED, PCC, 6 IN	SY	$ 60.00	432	$ 25,920.00
7.11	7030-H-1	DRIVEWAY, PAVED, PCC, 6 IN REINFORCED	SY	$ 65.00	92	$ 5,980.00
7.12	7030-H-2	DRIVEWAY, GRANULAR	TON	$ 30.00	825	$ 24,750.00
7.13	7030-999-A	GRANULAR SURFACING - TAILGATE SPREAD BY CONTRACTOR	TON	$ 20.00	500	$ 10,000.00
		SECTION 7040 - PAVEMENT REHABILITATION				
7.14	7040-H	PAVEMENT REMOVAL	SY	$ 100.00	28	$ 2,800.00
		SECTION 8010 - TRAFFIC SIGNALS				
8.01	8010-999-A	REMOVAL OF SIGNS	LS	$ 500.00	1	$ 500.00
		SECTION 8020 - PAVEMENT MARKINGS				
8.02	8020-B	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	STA	$ 100.00	211.5	$ 21,150.00
8.03	8020-G	PAINTED SYMBOLS AND LEGENDS	EA	$ 300.00	11	$ 3,300.00
8.04	8020-K	PAVEMENT MARKINGS REMOVED	STA	$ 100.00	17	$ 1,700.00
		SECTION 8030 - TEMPORARY TRAFFIC CONTROL				
8.05	8030-A	TEMPORARY TRAFFIC CONTROL	LS	$ 10,000.00	1	$ 10,000.00
8.06	8030-999-A	PROJECT SIGN	EA	$ 1,000.00	1	$ 1,000.00
		SECTION 9010 - SEEDING				
9.01	9010-A	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING - TYPE 4	AC	$ 2,000.00	70	$ 140,000.00
9.02	9010-B	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING - RESCUE PLUS MIXTURE	AC	$ 3,500.00	86	$ 301,000.00
9.03	9010-B	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING - TYPE 2	AC	$ 3,000.00	29	$ 87,000.00
9.04	9010-D	WATERING	MGAL	$ 60.00	3500	$ 210,000.00
		SECTION 9040 - EROSION AND SEDIMENT CONTROL				
9.05	9040-A-1	SWPPP PREPARATION	LS	$ 2,500.00	1	$ 2,500.00
9.06	9040-A-2	SWPPP MANAGEMENT	LS	$ 10,000.00	1	$ 10,000.00
9.07	9040-D-1	FILTER SOCK, 12 IN DIA.	LF	$ 2.50	21000	$ 52,500.00
9.08	9040-D-2	FILTER SOCK, REMOVAL	LF	$ 0.25	21000	$ 5,250.00
9.09	9040-E-0	TEMPORARY RECP, TYPE 2.B	SQ	$ 2.00	5910	$ 11,820.00
9.10	9040-J-0	RIP RAP, CLASS E	TON	$ 60.00	2445	$ 146,700.00
9.11	9040-N-1	SILT FENCE OR SILT FENCE DITCH CHECK	LF	$ 2.00	50000	$ 100,000.00
9.12	9040-N-2	SILT FENCE OR SILT FENCE DITCH CHECK, REMOVAL OF SEDIMENT	LF	$ 0.25	50000	$ 12,500.00
9.13	9040-N-3	SILT FENCE OR SILT FENCE DITCH CHECK, REMOVAL OF DEVICE	LF	$ 0.25	50000	$ 12,500.00
9.14	9040-O-2	STABILIZED CONSTRUCTION ENTRANCE	TON	$ 50.00	500	$ 25,000.00
9.15	9040-Q-2	EROSION CONTROL MULCHING, HYDROMULCHING	AC	$ 1,500.00	70	$ 105,000.00
9.16	9040-R	TURF REINFORCEMENT MATS, TYPE 1	SQ	$ 10.00	1420	$ 14,200.00
9.17	9040-T-1	INLET PROTECTION DEVICE, DROP-IN INTAKE	EA	$ 200.00	52	$ 10,400.00
9.18	9040-T-2	INLET PROTECTION DEVICE, MAINTENANCE	EA	$ 50.00	52	$ 2,600.00
9.19	9040-999-A	TRACK OUT DEVICE	EA	$ 50,000.00	1	$ 50,000.00
9.20	9040-999-B	PLOWING AND DISCING TEMPORARY EASEMENTS	LS	$ 10,000.00	1	$ 10,000.00
9.21	9040-999-C	MOWING	EA	$ 2,500.00	10	$ 25,000.00
		SECTION 9060 - CHAIN LINK FENCE				
9.22	9060-A	CHAIN LINK FENCE, ZINC COATED, 6 FT	LF	$ 50.00	90	$ 4,500.00
9.23	9060-E	REMOVAL OF FENCE	LF	$ 10.00	390	$ 3,900.00
		SECTION 11010 - CONSTRUCTION SURVEY				
11.01	11010-A	CONSTRUCTION SURVEY	LS	$ 50,000.00	1	$ 50,000.00
11.02	11010-B	MONUMENT PRESERVATION AND REPLACEMENT	LS	$ 5,000.00	1	$ 5,000.00
		SECTION 11050 - CONCRETE WASHOUT				
11.03	11050-A	CONCRETE WASHOUT	LS	$ 15,000.00	1	$ 15,000.00
		MISCELLANEOUS				
12.01	12000-999-A	RAILROAD PROTECTIVE LIABILITY INSURANCE AND ENTRY AGREEMENT	LS	$ 25,000.00	1	$ 25,000.00
12.02	12000-999-B	RAILROAD PROTECTION SERVICES	CDAY	$ 1,792.00	5	$ 8,960.00
12.03	12000-999-C	MONUMENT SIGN	EA	$ 50,000.00	4	$ 200,000.00
		DIVISION 13 - FIBER CONDUIT INTER-CONNECT (MS)				
13.01	0000-999-A	PORTLAND CEMENT CONCRETE (PCC) VAULT (4'X6'X7'), FURNISH AND INSTALL	EA	$ 16,000.00	1	$ 16,000.00
13.02	0000-999-B	HANDHOLE (2.5'X4'X4'), FURNISH AND INSTALL	EA	$ 3,750.00	4	$ 15,000.00
13.03	0000-999-C	CONDUIT, FURNISH AND INSTALL, SDR 7 HDPE, 4 IN. DIA., DIRECTIONAL DRILLED	LF	$ 35.00	996	$ 34,860.00
13.04	0000-999-D	CONDUIT, FURNISH AND INSTALL, SDR 7 HDPE, 4 IN. DIA., W/STEEL CASING PIPE, RAILROAD BORE	LF	$ 195.00	100	$ 19,500.00
13.05	0000-999-E	CONDUIT, FURNISH AND INSTALL, SDR 11 HDPE, 4 IN. DIA., DUCT BANK, DIRECTIONAL DRILLED	LF	$ 25.00	7060	$ 176,500.00
13.06	0000-999-F	CONDUIT PATHWAY, FURNISH AND INSTALL, 7-WAY MULTI-DUCT, INSTALLED-IN-PLACE	LF	$ 12.00	8270	$ 99,240.00
13.07	0000-999-G	TEST STATION/FIBER OPTIC LINE MARKER COMBINATION, ABOVE GRADE, FURNISH AND INSTALL	EA	$ 300.00	3	$ 900.00
13.08	0000-999-H	FIBER CONDUIT/STRUCTURES AS-BUILT DOCUMENTATION (MS)	LS	$ 10,000.00	1	$ 10,000.00
13.09	0000-999-I	CONDUIT AND TRACER WIRE ACCEPTANCE TESTING (MS)	LS	$ 10,000.00	1	$ 10,000.00
13.10	0000-999-J	CONSTRUCTION SURVEY - FIBER CONDUIT INTER-CONNECT (MS)	LS	$ 5,000.00	1	$ 5,000.00
		DIVISION 14 - FIBER CONDUIT INTER-CONNECT (CITY)				
14.01	0000-999-A	CITY-PROVIDED VAULT, INSTALL ONLY, LARGE ROUND (IAP)	EA	$ 1,500.00	8	$ 12,000.00
14.02	0000-999-B	CONDUIT, FURNISH AND INSTALL, SDR 13.5 HDPE, 1 IN. DIA.,BLUE WITH BLACK STRIPE, DUCT BANK, DIRECTIONAL DRILLED	LF	$ 8.00	17695	$ 141,560.00
14.03	0000-999-C	CONDUIT PATHWAY, FURNISH AND INSTALL, 7-WAY MULTI-DUCT, DUCT BANK, DIRECTIONAL DRILLED	LF	$ 13.50	8857	$ 119,569.50
14.04	0000-999-D	CONDUIT, FURNISH AND INSTALL, SDR 13.5 HDPE, 1.5 IN. ORANGE, DUCT BANK, DIRECTIONAL DRILLED	LF	$ 12.00	8848	$ 106,176.00
14.05	0000-999-E	CONDUIT, FURNISH AND INSTALL, SDR 13.5 HDPE, 1.5 IN. DIA.,BLUE, DUCT BANK, DIRECTIONAL DRILLED	LF	$ 12.00	8848	$ 106,176.00
14.06	0000-999-F	TEST STATION, BELOW GRADE, FURNISH AND INSTALL	EA	$ 500.00	4	$ 2,000.00
14.07	0000-999-G	FIBER CONDUIT/STRUCTURES AS-BUILT DOCUMENTATION (CITY)	LS	$ 10,000.00	1	$ 10,000.00
14.08	0000-999-H	CONDUIT AND TRACER WIRE ACCEPTANCE TESTING (CITY)	LS	$ 10,000.00	1	$ 10,000.00
14.09	0000-999-I	CONSTRUCTION SURVEY - FIBER CONDUIT INTER-CONNECT (CITY)	LS	$ 5,000.00	1	$ 5,000.00
		DIVISION 15 - STRUCTURES				
15.01	2402-2720000	EXCAVATION, CLASS 20	CY	$ 30.00	401	$ 12,030.00
15.02	2402-2721000	EXCAVATION, CLASS 21	CY	$ 280.00	504	$ 141,120.00
15.03	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	$ 700.00	472.1	$ 330,470.00
15.04	2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	CY	$ 750.00	467.9	$ 350,925.00
15.05	2404-7775000	REINFORCING STEEL	LB	$ 1.35	63673	$ 85,958.55
15.06	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	$ 1.40	123972	$ 173,560.80
15.07	2404-7775009	REINFORCING STEEL, STAINLESS STEEL	LB	$ 3.45	3668	$ 12,654.60
15.08	2407-0562855	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB55	EA	$ 12,500.00	14	$ 175,000.00
15.09	2407-0562895	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB95	EA	$ 25,000.00	7	$ 175,000.00
15.10	2408-7800000	STRUCTURAL STEEL	LB	$ 4.00	7128	$ 28,512.00
15.11	2414-6424110	CONCRETE BARRIER RAILING	LF	$ 100.00	226.3	$ 22,630.00
15.12	2414-6425410	CONCRETE BARRIER, REINFORCED, SEPARATION	LF	$ 70.00	212.2	$ 14,854.00
15.13	2414-6446100	ALUMINUM PEDESTRIAN HAND RAIL	LF	$ 150.00	237	$ 35,550.00
15.14	2414-6460000	ORNAMENTAL METAL RAILING	LF	$ 260.00	224	$ 58,240.00
15.15	2501-0201057	PILE, STEEL, HP 10X57	LF	$ 60.00	810	$ 48,600.00
15.16	2501-0201284	PILE, STEEL, HP 12X84	LF	$ 65.00	1680	$ 109,200.00
15.17	2501-6335010	PREBORED HOLES	LF	$ 60.00	180	$ 10,800.00
15.18	2507-2638650	BRIDGE WING ARMORING - EROSION STONE	SY	$ 135.00	9	$ 1,215.00
15.19	2507-3250005	ENGINEERING FABIRC	SY	$ 3.50	1075	$ 3,762.50
15.20	2507-6800061	REVETMENT, CLASS E	TON	$ 55.00	1150	$ 63,250.00

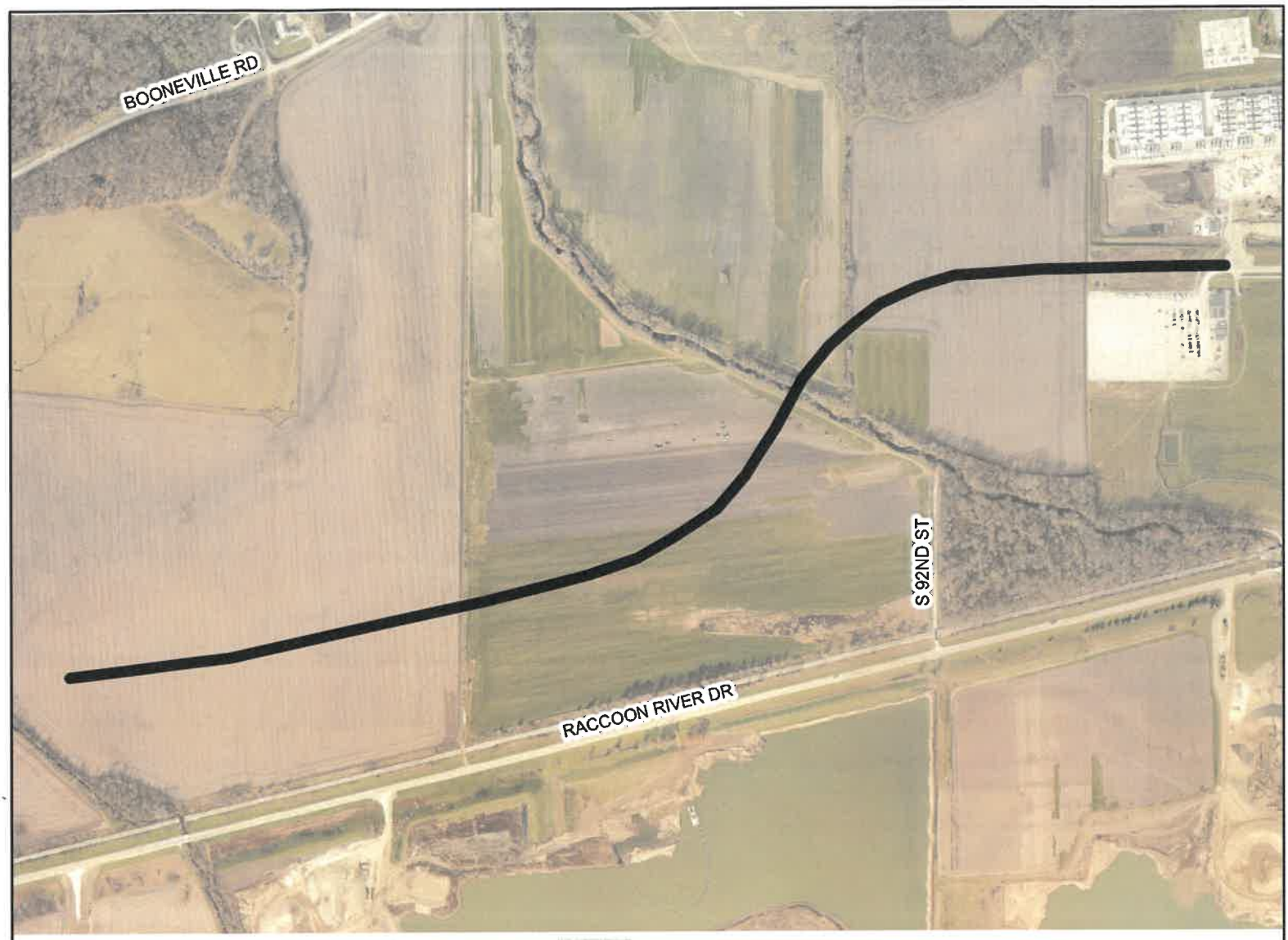
Item No.	Item Code	Item	Unit	Unit Price	Quantity	Total Cost
15.21	2533-4980005	MOBILIZATION	LS	$ 150,000.00	1	$ 150,000.00
15.22	2599-9999018	BRIDGE WING ARMORING - CONCRETE SLOPE PROTECTION	SY	$ 150.00	9	$ 1,350.00
		DIVISION 16 - SUGAR CREEK CONVEYANCE				
2.01	2010-108-B-0	CLEARING AND GRUBBING	ACRE	$ 5,000.00	14.4	$ 72,000.00
2.02	2010-108-D-1	TOPSOIL STRIP, SALVAGE, AND RESPREAD	CY	$ 5.00	40200	$ 201,000.00
2.03	2010-108-E-0	EXCAVATION, CLASS 10	CY	$ 8.00	275400	$ 2,203,200.00
2.04	Special	REMOVAL OF EXISTING DEBRIS	LS	$ 2,000.00	1	$ 2,000.00
8.01	Special	PERMANENT ROAD CLOSURE, SI-181	LS	$ 1,000.00	1	$ 1,000.00
9.01	9010-108-B-0	HYDRAULIC SEEDING AND FERTILIZING, TYPE 2 SEEDING	ACRE	$ 3,000.00	29.2	$ 87,600.00
9.02	9040-108-Q-2	EROSION CONTROL MULCHING, HYDROMULCHING	ACRE	$ 1,500.00	26	$ 39,000.00
9.03	9040-108-Q-2	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	$ 1,000.00	29.2	$ 29,200.00
9.04	9040-108-D-1	FILTER SOCK, 12"	LF	$ 2.50	6240	$ 15,600.00
9.05	9040-108-D-2	FILTER SOCK REMOVAL	LF	$ 0.25	6240	$ 1,560.00
9.06	9040-108-N-1	SILT FENCE	LF	$ 2.00	14940	$ 29,880.00
9.07	9040-108-N-3	REMOVAL OF SILT FENCE	LF	$ 0.25	14940	$ 3,735.00
9.08	9040-108-E-0	ROLLED EROSION CONTROL PRODUCT (RECP), TYPE 1D	SY	$ 2.00	13200	$ 26,400.00
9.09	9040-108-R-0	TURF REINFORCEMENT MATS, TYPE 1	SQ	$ 10.00	210	$ 2,100.00
9.10	Special	FIELD FENCE GATE, 16'	LS	$ 1,000.00	1	$ 1,000.00
		DIVISION 17 - S. GRAND PRAIRIE PARKWAY SPECIAL GRADING				
2.01	2010-D-1	TOPSOIL, ON-SITE	CY	$ 5.00	4426	$ 22,130.00
9.01	9010-B	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING - TYPE 1	AC	$ 3,500.00	4.22	$ 14,770.00
9.02	9010-B	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING - TYPE 4	AC	$ 3,000.00	4.22	$ 12,660.00
9.03	9040-N-1	SILT FENCE OR SILT FENCE DITCH CHECK	LF	$ 2.00	4400	$ 8,800.00
9.04	9040-N-2	SILT FENCE OR SILT FENCE DITCH CHECK, REMOVAL OF SEDIMENT	LF	$ 0.25	4400	$ 1,100.00
9.05	9040-N-3	SILT FENCE OR SILT FENCE DITCH CHECK, REMOVAL OF DEVICE	LF	$ 0.25	4400	$ 1,100.00
9.06	9040-Q-1	EROSION CONTROL MULCHING, CONVENTIONAL MULCH	AC	$ 1,000.00	4.22	$ 4,220.00
		TOTAL CONSTRUCTION				**$ 16,758,972.95**

LICENSED PROFESSIONAL ENGINEER
THOMAS M. STOVIE 15588
IOWA

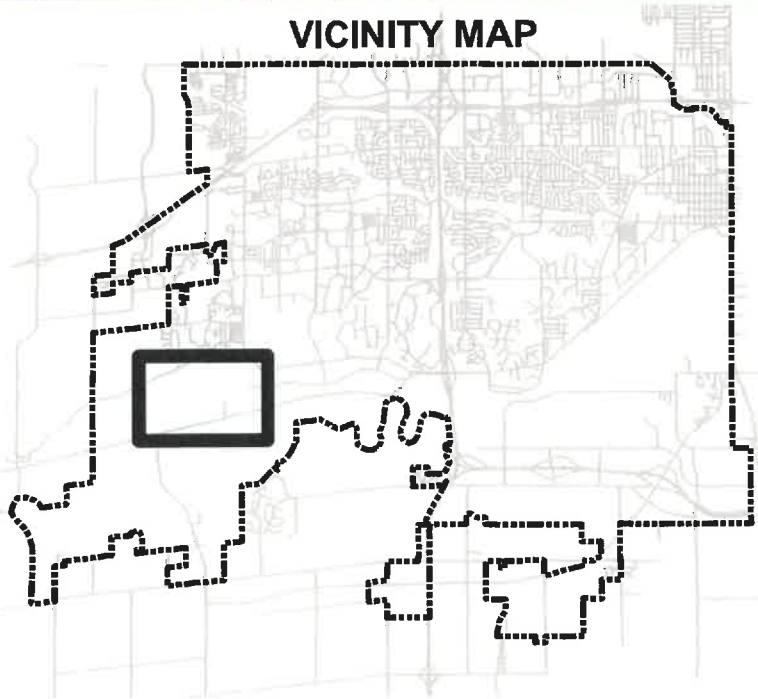
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2022.

THOMAS M. STOVIE, P.E. LICENSE NO. 15588 DATE 10/25/21



VICINITY MAP



LEGEND

PROJECT LOCATION

N
W E
S

THE CITY OF WEST DES MOINES

PROJECT:

Grand Avenue

LOCATION: **South 88th Street to South Grand Prairie Parkway**

DRAWN BY: JDR	DATE: 10/19/2020	PROJECT NUMBER/NAME: 0510-009-2021	SHT. 1 of 1