JOINT POWERS AGREEMENT FOR THE RECONSTRUCTION OF COUNTY STATE AID HIGHWAY 78 HANSON BLVD OVER BNSF RAILWAY IN THE CITY OF COON RAPIDS, MN (SAP 002-678-023, SAP 114-020-051)

THIS AGREEMENT is made and entered into this 20 day of December, 2017 by and between the County of Anoka, a political subdivision of the State of Minnesota, 2100 Third Avenue, Anoka, Minnesota 55303, hereinafter referred to as "County", and the City of Coon Rapids, 11155 Robinson Drive, Coon Rapids, MN 55433, hereinafter referred to as "City".

WITNESSETH

WHEREAS, the parties to this agreement agree it is in the best interest of the traveling public to construct a grade separation project on CSAH 78 (Hanson Blvd) at the BNSF Railway crossing north of CSAH 1 (Coon Rapids Blvd); and,

WHEREAS, said parties mutually agree that the intersection of CSAH 78 and BNSF Railway crossing is in need of grade separation; and,

WHEREAS, the County has prepared final design plans for the grade separation project on CSAH 78 (Hanson Blvd) at the BNSF Railway crossing north of CSAH 1 (Coon Rapids Blvd) in accordance with Anoka County and the Minnesota Department of Transportation standards to a staff approved layout condition; and,

WHEREAS, Anoka County has jurisdiction over County State Aid Highway 78; and,

WHEREAS, the parties agree that it is in their best interest that the cost of said project be shared; and,

WHEREAS, Minn. Stat. § 471.59 authorizes political subdivisions of the state to enter into joint powers agreements for the joint exercise of powers common to each.

NOW, THEREFORE, IT IS MUTUALLY STIPULATED AND AGREED:

I. PURPOSE

The parties have joined together for the purpose of constructing the roadway, drainage, trail, pedestrian overpass, bridge, pedestrian underpass and traffic control systems as well as other utilities for the grade separation project on CSAH 78 (Hanson Blvd) at the BNSF Railway crossing north of CSAH 1 (Coon Rapids Blvd); as described in Exhibit "A". The Final Plan is filed in the office of the Anoka County Highway Department and incorporated herein by reference. The County project number for the reconstruction is SAP 002-678-023 and the City project number is SAP 114-020-051.

The parties to this Joint Powers Agreement (JPA) agree in principle that construction of County State Aid Project No. 002-678-023, a grade separation project on CSAH 78 (Hanson Blvd) at the BNSF

Railway crossing north of CSAH 1 (Coon Rapids Blvd), is in the best interest of the traveling public and that the Exhibit "A" defines the design of the Project.

It is agreed that the Exhibit "A" dated July 14, 2017 has been reviewed and accepted by the parties and is suitable for construction. Any significant changes made hereafter to the design as presented in the Exhibit "A" will require approval by the parties as an amendment to this JPA. These same changes will require a change in the cost share to include any additional design engineering costs that may occur.

II. METHOD

The County shall cause the construction of Anoka County Project SAP 002-678-023, City project number SAP 114-020-051. Anoka County agrees to ensure that Hanson Blvd remains a paved roadway surface that is open to the general public during the winter season between the construction years. Said roadway surface will be safe, passable and maintained as a paved surface in good condition.

IMPROVEMENTS:

It is agreed by the parties that in 2018-2019, CSAH 78 will be constructed into a grade separated four-lane section with concrete median to the extent shown in "Exhibit A".

INTERSECTIONS:

As agreed by the parties, improvements to the following intersections have been incorporated in the Exhibit "A" Layout design:

CSAH 78 / 106th Ave NE: Full Access

CSAH 78 / 108th Lane NW: 3/4 Access Intersection

RIGHT OF WAY:

The parties agree that the County will acquire all necessary right-of-way (ROW) for the Project, including easements. The parties agree that the cost of the ROW shall be covered by the City's 5% of the total project cost contribution. Due to timing and the relocation process the exact cost of ROW expenditures for this project may not be known for some time after construction.

All City owned property or easements required for the construction will be conveyed to the County at no cost.

TRAFFIC SIGNALS:

The parties agree that the existing traffic control signal systems at CSAH 78/CSAH 1 and CSAH 78/111th Ave intersections will be revised with this project. The parties agree that the cost of the revision of these signals shall be covered by the City's 5% project contribution.

DRAINAGE:

The City's 5% of the total project cost contribution covers their portion of drainage cost for the project.

SIDEWALK:

The City's 5% of the total project cost contribution covers their portion of the sidewalk construction cost. The parties agree that the City will be responsible for all future maintenance of the sidewalk constructed with this project.

BITUMINOUS TRAIL:

The City's 5% of the total project cost contribution covers their portion of the trail construction cost. The parties agree that the City will be responsible for all future maintenance of the trail constructed with this project.

TRAFFIC CONTROL:

The parties understand and agree that portions of CSAH 78 will be closed to thru traffic during construction. Access for local traffic will be maintained using a detour during construction. The parties agree and understand the cost share for traffic control for the City shall be included in the City's 5% project contribution.

DRIVEWAYS:

The parties agree that all driveways affected (excluding those identified for removal) by the Project will be reconstructed in kind at 100% project cost with the cost of any upgrades requested by the City, including concrete aprons, to be the sole responsibility of the City.

UTILITIES:

The City's 5% of the total project cost contribution covers their portion of utility costs for the project.

PERMITS:

The parties agree that the County will secure all necessary permits for this Project. The City agrees to coordinate with the County in securing the permits required by the Coon Creek Watershed District, city permits, as well as any other permits that may be required. The County also requests that the City inform the County of any ordinances or city regulations that affect construction at the time of the signing of this JPA (e.g. setbacks, tree clearing ordinances, or any other city ordinances).

III. <u>COSTS</u>

The estimated design cost of the total project is \$1,392,580. This is reflective of the current contract with SRF.

The estimated ROW cost of the total project is \$4,600,000. This is based on the costs developed and contained with the CSAH 78 Study. ROW costs shall include, but are not limited to, land costs, easement costs, appraisal costs, and costs associated with eminent domain if necessary.

Total estimated design and ROW costs are \$5,992,580. The City shall pay for 5% of all project costs. The contract costs of the work, or if the work is not contracted, the cost of all labor, materials, normal engineering costs and equipment rental required to complete the work, shall constitute the "actual construction costs" and shall be so referred to herein. "Estimated construction costs" are good faith projections of the costs, which will be incurred for this project. Actual costs will vary and those will be the costs for which the relevant parties will be responsible.

The estimated construction cost of the total project is \$17,826,605.32 (Exhibit "B").

The total estimated Design and ROW cost of the total project is \$5,992,580

Total Project Costs = \$17,826,605.32 + \$5,992,580.00 = \$23,819,185.32

No Federal funds are available for this project. The City share of this project is set at 5% of the total project cost not including city requested water and sewer improvements beyond what is needed for the construction of this project.

The total estimated cost to the City is \$1,190,959.26

Upon award of the contract, the City shall pay to the County, upon written demand by the County, ninety five percent (95%) of its portion of the cost of the project estimated at \$1,131,411.30. Prior to billing, this estimate will be updated by the County to reflect the actual bid prices as awarded. An updated cost estimate shall be provided to the City at the time of billing. The City's share of the cost of the project shall include design, ROW, construction and construction engineering expense and does not include administrative expenses incurred by the County.

After final completion of the project, including ROW acquisition, the City's share of the cost will be based upon actual costs. If necessary, adjustments to the initial ninety five percent (95%) charged will be made in the form of credit or additional charges to the City's share. Also, the remaining five percent (5%) of the City's portion of the costs shall be paid.

The County agrees to submit to the City for review final quantities and cost within one year of project substantial completion.

IV. TERM

This Agreement shall continue until terminated as provided hereinafter.

V. DISBURSEMENT OF FUNDS

All funds disbursed by the County or City pursuant to this Agreement shall be disbursed by each entity pursuant to the method provided by law.

VI. CONTRACTS AND PURCHASES

All contracts let and purchases made pursuant to this Agreement shall be made by the County in conformance to the State laws.

VII. STRICT ACCOUNTABILITY

A strict accounting shall be made of all funds and report of all receipts and shall be made upon request by either party. Prior to city payment to the County, Anoka County shall provide the City a copy of all cost participation documents submitted to MnDOT State Aid to assist the city in their application for MSA funding.

VIII. TERMINATION

This Agreement may be terminated by either party at any time, with or without cause, upon not less than thirty (30) days written notice delivered by mail or in person to the other party. If notice is delivered by mail, it shall be deemed to be received two days after mailing. Such termination shall not be effective with respect to any solicitation of bids or any purchases of services or goods which occurred prior to such notice of termination. The City shall pay its pro rata share of costs which the County incurred prior to such notice of termination.

IX. SIGNALIZATION POWER

The City shall at their sole expense, install and cause the installation of an adequate electrical power source to the service cabinet for all the previously mentioned CSAH 78 traffic control signal systems including any necessary extension of power lines. The City shall be the lead agency in this matter. Upon completion of said traffic control signal installations, the ongoing cost of the electrical power to the signals shall be the sole cost and expense of the City.

X. MAINTENANCE

- A. Maintenance of the completed watermain, sanitary sewer, storm sewer (except catch basins and catch basin leads), and detention basins (including ponds and their outlet structures and grit chambers/collectors) shall be the sole obligation of the City.
- B. Maintenance of the sidewalk on the east and the bituminous trail on the west side of CSAH 78 shall be the sole responsibility of the City.
- C. Maintenance of crosswalk pavement markings shall be the responsibility of the City and the County. The County will be responsible for the maintenance of the crosswalk pavement marking for the crossings at the signalized intersections. The City will be responsible for all crosswalk pavement markings for any trail/sidewalk crossings at all city streets.
- D. Maintenance of streetlights and cost of electrical power to the streetlights shall be the sole obligation of the City.
- E. The County shall maintain the said traffic signal controllers, traffic signal and pedestrian indications, loop detectors and associated wiring of the said traffic control signals at the sole obligation of the County.
- F. Painting of the traffic signal shall be the sole obligation of the County. Any variation of painting color standards will be billed to the City.
- G. Timing of the completed traffic control signal shall be determined by the County.

- H. Only the County shall have access to the controller cabinets.
- I. The traffic control signals shall be the property of the County.
- J. The City shall be responsible for maintenance of the luminaires, luminaire relamping, and luminaire painting.
- K. All maintenance of the EVP System shall be completed by the County. The City shall be billed by the County on a quarterly basis for all incurred costs.
- L. EVP Emitter Units may be installed on and used only by Emergency Vehicles responding to an emergency as defined in Minnesota Statutes §169.011, Subdivision 3, and §169.03. The City shall provide a list to the County Engineer, or the County's duly appointed representative, of all such vehicles with emitter units on an annual basis.
- M. Malfunctions of the EVP System shall be immediately reported to the County.
- N. All timing of said EVP System shall be determined by the County.
- O. In the event said EVP System or components are, in the opinion of the County, being misused, or the conditions set forth are violated, and such misuse or violation continues after receipt by the City, written notice thereof from the County, the County shall remove the EVP System. Upon removal of the EVP System pursuant to this paragraph, the field wiring, cabinet wiring, detector receiver, infrared detector heads and indicator lamps and all other components shall become the property of the County.

XI. NOTICE

For purposes of delivery of any notices herein, the notice shall be effective if delivered to the County Administrator of Anoka County, 2100 Third Avenue, Anoka, Minnesota 55303, on behalf of the County, and to the City Manager of Coon Rapids, 11155 Robinson Drive, Coon Rapids, MN 55433, on behalf of the City.

XII. INDEMNIFICATION

The City and County mutually agree to indemnify and hold harmless each other from any claims, losses, costs, expenses or damages resulting from the acts or omissions of the respective officers, agents, or employees relating to activities conducted by either party under this Agreement.

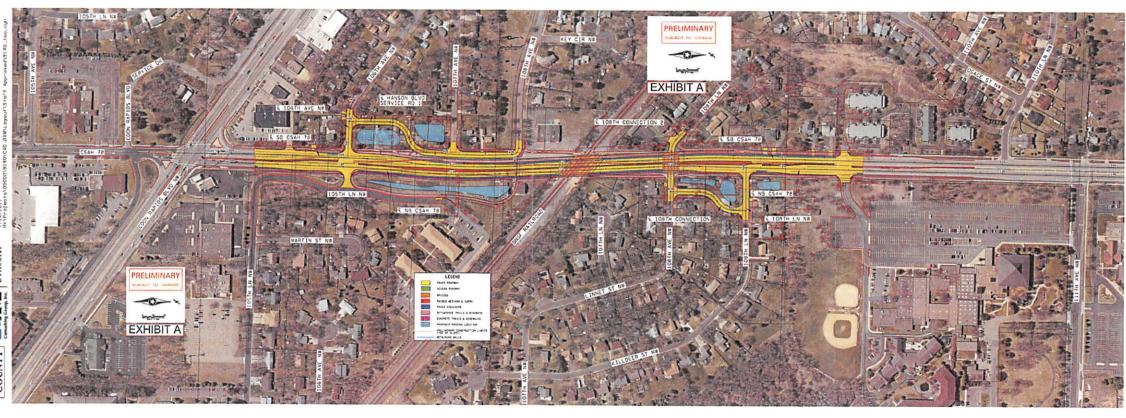
XIII. ENTIRE AGREEMENT REQUIREMENT OF A WRITING

It is understood and agreed that the entire agreement of the parties is contained herein and that this Agreement supersedes all oral agreements and all negotiations between the parties relating to the subject matter thereof, as well as any previous agreement presently in effect between the parties to the subject matter thereof. Any alterations, variations, or modifications of the provisions of this Agreement shall be valid only when they have been reduced to writing and duly signed by the parties.

IN WITNESS WHEREOF, the parties to this Agreement have hereunto set their hands on the dates written below.

COUNTY OF ANOKA	CITY OF COON RAPIDS
By:	By: Jerry Koch Mayor
Dated:	Dated: 1182017
By: Jerry Søma County Administrator	By: Matt Stemwedel City Manager
Dated: $12 - 20 - 17$	Dated: 11/9/2017
By: Douglas W. Fischer, P.E.	By: Tim Himmer
County Engineer	City Engineer
Dated: 12/19/17	Dated: 11/13/17
APPROVED AS TO FORM	
By: Man Mun from from Joan Klint	By: David Brodie
Assistant County Attorney	City Attorney
12.27.17	D. 11/13/17







ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2021.501	MOBILIZATION	LUMP SUM	\$700,000.00	1	\$700,000.00
2031.501	FIELD OFFICE TYPE D	EACH	\$18,000.00	1	\$18,000.00
2031.503	FIELD LABORATORY TYPE DX	EACH	\$6,500.00	1	\$6,500.00
2051.501	MAINT & RESTORATION OF HAUL ROADS	LUMP SUM	\$1,000.00	1	\$1,000.00
2101.501	CLEARING	ACRE	\$5,500.00	1.8	\$9,900.00
2101.506	GRUBBING	ACRE	\$5,500.00	1.8	\$9,900.00
2102.502	PAVEMENT MARKING REMOVAL	LIN FT	\$0.60	960	\$576.00
2104.501	REMOVE WATER MAIN	LIN FT	\$13.00	3093	\$40,209.00
2104.501	REMOVE SEWER PIPE (STORM)	LIN FT	\$13.00	3450	\$44,850.00
2104.501	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$11.00	2784	\$30,624.00
2104.501	REMOVE PIPE SEWERS	LIN FT	\$12.00	365	\$4,380.00
2104.501	REMOVE CURB & GUTTER	LIN FT	\$3.00	12530	\$37,590.00
2104.501	REMOVE RETAINING WALL	LIN FT	\$4.00	70	\$280.00
2104.501	REMOVE NON-METALLIC CONDUIT	LIN FT	\$3.00	2860	\$8,580.00
2104.503	REMOVE CONCRETE WALK	SQ FT	\$2.00	26630	\$53,260.00
2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ FT	\$5.00	2340	\$11,700.00
2104.503	REMOVE CONCRETE MEDIAN	SQ FT	\$11.00	11260	\$123,860.00
2104.503	REMOVE BITUMINOUS PAVEMENT	SQ FT	\$4.00	28720	\$114,880.00
2104.503	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ FT	\$4.00	1480	\$5,920.00
2104.509	REMOVE LIGHTING UNIT	EACH	\$290.00	9	\$2,610.00
2104.509	REMOVE MANHOLE	EACH	\$370.00	12	\$4,440.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2104.509	REMOVE HYDRANT	EACH	\$365.00	3	\$1,095.00
2104.509	REMOVE DRAINAGE STRUCTURE	EACH	\$300.00	52	\$15,600.00
2104.509	REMOVE MARKER	EACH	\$18.00	28	\$504.00
2104.509	REMOVE SIGN TYPE C	EACH	\$38.00	121	\$4,598.00
2104.509	REMOVE SIGN TYPE SPECIAL	EACH	\$50.00	8	\$400.00
2104.509	REMOVE LIGHT FOUNDATION	EACH	\$800.00	9	\$7,200.00
2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$3.50	30	\$105.00
2104.513	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	\$2.50	1200	\$3,000.00
2104.523	SALVAGE SIGN TYPE C	EACH	\$48.00	5	\$240.00
2105.607	COMMON BORROW SPECIAL (CV)	CU YD	\$22.00	1645	\$36,190.00
2106.501	EXCAVATION - COMMON	CU YD	\$6.00	33451	\$200,706.00
2106.521	GRANULAR EMBANKMENT (CV)	CU YD	\$15.00	52413	\$786,195.00
2106.523	COMMON EMBANKMENT (CV)	CU YD	\$4.00	2139	\$8,556.00
2106.607	SELECT GRANULAR EMBANKMENT MOD (CV)	CU YD	\$20.00	658	\$13,160.00
- all Table					
2112.501	SUBGRADE PREPARATION	ROAD STA	\$50.00	39.1	\$1,955.00
2211.503	AGGREGATE BASE (CV) CLASS 5	CU YD	\$23.00	8750	\$201,250.00
2360.501	TYPE SP 12.5 WEARING COURSE MIX (2,C)	TON	\$63.00	1385	\$87,255.00
2360.501	TYPE SP 12.5 WEARING COURSE MIX (3,F)	TON	\$59.00	4975	\$293,525.00
2360.502	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)	TON	\$55.00	3735	\$205,425.00
2401.501	STRUCTURAL CONCRETE (1G52)	CU YD	\$450.00	367	\$165,150.00
2401.501	STRUCTURAL CONCRETE (1G52) (BR NO 02589)	CU YD	\$300.00	1122	\$336,600.00
2401.501	STRUCTURAL CONCRETE (3B52)	CU YD	\$600.00	1185	\$711,000.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2401.501	STRUCTURAL CONCRETE (3B52) (BR NO 02589)	CU YD	\$540.00	2216	\$1,196,640.00
2401.513	TYPE MOD P-1 BARRIER CONC (3S52)	LIN FT	\$100.00	2817	\$281,700.00
2401.515	SIDEWALK CONCRETE (3S52)	SQ FT	\$15.00	6952	\$104,280.00
2401.516	RAISED MEDIAN CONCRETE (3S52)	SQ FT	\$15.00	952	\$14,280.00
2401.541	REINFORCEMENT BARS	POUND	\$1.15	166859	\$191,887.85
2401.541	REINFORCEMENT BARS (EPOXY COATED)	POUND	\$1.25	559584	\$699,480.00
2401.541	REINFORCEMENT BARS (STAINLESS-60KSI)	POUND	\$5.00	840	\$4,200.00
2401.601	STRUCTURE EXCAVATION (BR NO 02J49)	LUMP SUM	\$10,000.00	1	\$10,000.00
2401.601	STRUCTURE EXCAVATION (BR NO 02588)	LUMP SUM	\$12,000.00	1	\$12,000.00
2401.601	STRUCTURE EXCAVATION (BR NO 02589)	LUMP SUM	\$25,000.00	1	\$25,000.00
2401.618	BRIDGE SLAB CONCRETE (3YHPC-S)	SQ FT	\$30.00	19722	\$591,660.00
2402.583	ORNAMENTAL METAL RAILING	LIN FT	\$145.00	2445	\$354,525.00
0.400.500					
2402.583	ORNAMENTAL METAL RAILING TYPE SPECIAL 1	LIN FT	\$180.00	374	\$67,320.00
2402.591	EXPANSION JOINT DEVICES TYPE 5	LIN FT	\$250.00	254	\$63,500.00
2402.595	BEARING ASSEMBLY	EACH	\$1,100.00	58	\$63,800.00
2404.501	CONCRETE WEARING COURSE (3U17A)	SQ FT	\$6.00	23383	\$140,298.00
2405.502	PRESTRESSED CONCRETE BEAMS 27M	LIN FT	\$220.00	1108	\$243,760.00
2405 502	DDESTRESSED CONCRETE DEAMS MAISA	LINET	¢245.00	1004	# 44C 000 0C
2405.502	PRESTRESSED CONCRETE BEAMS MN54	LIN FT	\$245.00	1824	\$446,880.00
2405.511	DIAPHRAGMS FOR TYPE MN54 PREST BEAMS	LIN FT	\$110.00	175	\$19,250.00
2406.531	EXPANSION JOINTS, DESIGN E8H	LIN FT	\$65.00	360	\$23,400.00
2406.553	BRIDGE APPROACH PANELS	SQ YD	\$157.00	1360	\$213,520.00
2411.511	STRUCTURE EXCAVATION CLASS U	CU YD	\$7.30	5116	\$37,346.80



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2411.604	MECHANICALLY STABILIZED EARTH WALL	SQ YD	\$300.00	5242	\$1,572,600,00
2411.618	ANTI-GRAFFITI COATING	SQ FT	\$1.60	16477	\$26,363.20
2411.618	SPECIAL SURFACE FINISH	SQ FT	\$2.00	24073	\$48,146.00
2411.618	ARCH SURFACE FINISH (SINGLE COLOR)	SQ FT	\$3.00	38330	\$114,990.00
2411.618	ARCH CONC TEXTURE (ASHLAR STONE)	SQ FT	\$10.00	38330	\$383,300.00
2412.511	12X10 PRECAST CONCRETE BOX CULVERT	LIN FT	\$950.00	98	\$93,100.00
2451.607	STRUCTURAL BACKFILL	CU YD	\$28.00	50804	\$1,422,512.00
2452.519	C-I-P CONC TEST PILE 40 FT LONG 12"	EACH	\$7,000.00	4	\$28,000.00
2452.519	C-I-P CONC TEST PILE 55 FT LONG 12"	EACH	\$7,500.00	2	\$15,000.00
2452.519	C-I-P CONC TEST PILE 60 FT LONG 16"	EACH	\$10,000.00	8	\$80,000.00
2452.528	PILE ANALYSIS	EACH	\$3,500.00	8	\$28,000.00
2452.601	TEMPORARY VERTICAL SHORING	LUMP SUM	\$200,000.00	1	\$200,000.00
2452.603	PILE SLEEVES	LIN FT	\$30.00	660	\$19,800.00
2452.603	C-I-P CONCRETE PILING 12"	LIN FT	\$35.00	3570	\$124,950.00
2452.603	C-I-P CONCRETE PILING 16"	LIN FT	\$62.00	10700	\$663,400.00
2452.618	STEEL SHEET PILING (PERMANENT)	SQ FT	\$45.00	2780	\$125,100,00
2481.601	MEMBRANE WATERPROOFING SYSTEM	LUMP SUM	\$10,000.00	1	\$10,000.00
2501.515	15" RC PIPE APRON	EACH	\$550.00	2	\$1,100.00
2501.515	18" RC PIPE APRON	EACH	\$600.00	9	\$5,400.00
2501.515	21" RC PIPE APRON	EACH	\$650.00	2	\$1,300.00
2501.515	24" RC PIPE APRON	EACH	\$700.00	3	\$2,100.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2501.515	30" RC PIPE APRON	EACH	\$900.00	1	\$900.00
2501.602	TRASH GUARD FOR 15" PIPE APRON	EACH	\$250.00	1	\$250.00
2501.602	TRASH GUARD FOR 21" PIPE APRON	EACH	\$400.00	2	\$800.00
2501.602	TRASH GUARD FOR 24" PIPE APRON	EACH	\$500.00	2	\$1,000.00
2501.602	TRASH GUARD FOR 30" PIPE APRON	EACH	\$800.00	1	\$800.00
2502.502	DRAINAGE SYSTEM TYPE (B910)	LUMP SUM	\$5,000.00	1	\$5,000.00
2502.521	4" TP PIPE DRAIN	LIN FT	\$4.00	1284	\$5,136.00
2502.541	4" PERF TP PIPE DRAIN	LIN FT	\$5.50	7501	\$41,255.50
2503.511	12" CS PIPE SEWER	LIN FT	\$35.00	86	\$3,010.00
2503.511	18" CS PIPE SEWER	LIN FT	\$40.00	64	\$2,560.00
2503.511	24" CS PIPE SEWER	LIN FT	\$48.00	215	\$10,320.00
2503.541	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$42.00	2413	\$101,346.00
2503.541	18" RC PIPE SEWER DES 3006	LIN FT	\$36.00	721	\$25,956.00
2503.541	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$38.00	222	\$8,436.00
2503.541	18" RC PIPE SEWER DES 3006 CL IV	LIN FT	\$40.00	416	\$16,640.00
2503.541	21" RC PIPE SEWER DES 3006	LIN FT	\$40.00	672	\$26,880.00
2503.541	24" RC PIPE SEWER DES 3006	LIN FT	\$45.00	632	\$28,440.00
2503.541	30" RC PIPE SEWER DES 3006	LIN FT	\$55.00	119	\$6,545.00
2503.601	TEMPORARY SANITARY SEWER CONVEYANCE	LUMP SUM	\$30,000.00	1	\$30,000.00
2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$900.00	8	\$7,200.00
2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$700.00	3	\$2,100.00
2503.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH	\$800.00	7	\$5,600.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2503.602	12"X4" PVC WYE	EACH	\$300.00	4	\$1,200.00
2503.603	PLUG FILL & ABANDON PIPE SEWER	LIN FT	\$10.00	197	\$1,970.00
2503.603	4" PVC PIPE SEWER	LIN FT	\$15.00	58	\$870.00
2503.603	8" PVC PIPE SEWER	LIN FT	\$29.00	572	\$16,588.00
2503.603	12" PVC PIPE SEWER	LIN FT	\$40.00	1900	\$76,000.00
2503.603	20" STEEL CASING PIPE	LIN FT	\$100.00	255	\$25,500.00
2503.603	22" STEEL CASING PIPE	LIN FT	\$140.00	121	\$16,940.00
			e e e		
2503.603	24" STEEL CASING PIPE	LIN FT	\$160.00	732	\$117,120.00
2503.603	24" STEEL CASING PIPE (JACKED)	LIN FT	\$360.00	284	\$102,240.00
2503.603	30" STEEL CASING PIPE	LIN FT	\$270.00	16	\$4,320.00
2503.603	48" STEEL CASING PIPE	LIN FT	\$360.00	733	\$263,880.00
2503.603	48" STEEL CASING PIPE (JACKED)	LIN FT	\$710.00	284	\$201,640.00
2504.601	TEMPORARY WATER SERVICE	LUMP SUM	\$50,000.00	1	\$50,000.00
2504.602	WATER SERVICE TAP & HOOKUP	EACH	\$700.00	4	\$2,800.00
2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,300.00	8	\$10,400.00
2504.602	HYDRANT	EACH	\$3,800.00	3	\$11,400.00
2504.602	30" BUTTERFLY VALVE & BOX	EACH	\$20,000.00	4	\$80,000.00
2504.602	6" GATE VALVE & BOX	EACH	\$1,850.00	8	\$14,800.00
2504.602	8" GATE VALVE & BOX	EACH	\$3,100.00	1	\$3,100.00
2504.602	6" MEGALUG	EACH	\$60.00	36	\$2,160.00
2504.602	8" MEGALUG	EACH	\$80.00	11	\$880.00
2504.602	30" MEGALUG	EACH	\$300.00	18	\$5,400.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2504.603	1" PVC PIPE	LIN FT	\$30.00	106	\$3,180.00
2504.603	6" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$110.00	524	\$57.640.00
2504.603	8" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$135.00	207	\$27,945.00
2504.603	30" WATERMAIN HDPE	LIN FT	\$200.00	1013	\$202,600.00
2504.603	30" PVC WATERMAIN	LIN FT	\$150.00	878	\$131,700.00
2504.604	4" POLYSTYRENE INSULATION	SQ YD	\$40.00	14.2	\$568.00
2504.608	WATERMAIN FITTINGS	POUND	\$10.00	7610	\$76,100.00
2506.501	CONST DRAINAGE STRUCTURE DESIGN F	LIN FT	\$250.00	357.4	\$89,350.00
2506.501	CONST DRAINAGE STRUCTURE DESIGN G	LIN FT	\$300.00	48.7	\$14,610.00
2506.501	CONST DRAINAGE STRUCTURE DESIGN H	LIN FT	\$250.00	63.5	\$15,875.00
2506.501	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	\$400.00	21.7	\$8,680.00
2506.501	CONST DRAINAGE STRUCTURE DESIGN SPEC 1	LIN FT	\$250.00	43.9	\$10,975.00
2506.501	CONST DRAINAGE STRUCTURE DESIGN SPEC 3	LIN FT	\$400.00	35.8	\$14,320.00
2506.501	CONST DRAINAGE STRUCTURE DES 48-4020	LIN FT	\$300.00	61.8	\$18,540.00
2506.501	CONST DRAINAGE STRUCTURE DES 54-4020	LIN FT	\$350.00	37.1	\$12,985.00
2506.501	CONST DRAINAGE STRUCTURE DES 60-4020	LIN FT	\$425.00	7.1	\$3,017.50
2506.501	CONST DRAINAGE STRUCTURE DES 72-4020	LIN FT	\$600.00	34.1	\$20,460.00
2506.501	CONST DRAINAGE STRUCTURE DES 84-4020	LIN FT	\$700.00	20.5	\$14,350.00
2506.501	CONST DRAINAGE STRUCTURE DES 120-4020	LIN FT	\$850.00	11.2	\$9,520.00
2506.502	CONST DRAINAGE STRUCTURE DESIGN SPEC 2	EACH	\$5,000.00	2	\$10,000.00
0500 516	24071112 4207147111				
2506.516	CASTING ASSEMBLY	EACH	\$700.00	105	\$73,500.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2506.522	ADJUST FRAME & RING CASTING	EACH	\$570.00	4	\$2,280.00
2506.602	CONSTRUCT CONTROL STRUCTURE	EACH	\$10,000.00	3	\$30,000.00
2511.501	RANDOM RIPRAP CLASS II	CU YD	\$70.00	40.5	\$2,835.00
2511.501	RANDOM RIPRAP CLASS III	CU YD	\$70.00	6.8	\$476.00
2511.515	GEOTEXTILE FILTER TYPE IV	SQ YD	\$3.00	181.3	\$543.90
2514.501	CONCRETE SLOPE PAVING	SQ YD	\$120.00	50	\$6,000.00
2521.501	4" CONCRETE WALK	SQ FT	\$4.00	26475	\$105,900.00
2521.501	6" CONCRETE WALK	SQ FT	\$8.00	3130	\$25,040.00
2521.511	2.5" BITUMINOUS WALK	SQ FT	\$4.50	26165	\$117,742.50
2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	9145	\$137,175.00
2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$16.00	5455	\$87,280.00
2531.618	TRUNCATED DOMES	SQ FT	\$42.00	330	\$13,860.00
2533.507	PORTABLE PRECAST CONC BARRIER DES 8337	LIN FT	\$13.00	250	\$3,250.00
2540.602	RELOCATE MAIL BOX SUPPORT	EACH	\$90.00	7	\$630.00
125		- Imp			
2545.509	CONDUIT SYSTEM (LIGHTING) (BR NO 02588)	LUMP SUM	\$8,000.00	1	\$8,000.00
2545.509	CONDUIT SYSTEM (SIGNALS) (BR NO 02588)	LUMP SUM	\$12,000.00	1	\$12,000.00
2545.509	CONDUIT SYSTEM (FUTURE) (BR NO 02588)	LUMP SUM	\$12,000.00	1	\$12,000.00
2545.509	CONDUIT SYSTEM (SIGNALS) (BR NO 02589)	LUMP SUM	\$14,000.00	1	\$14,000.00
2545.509	CONDUIT SYSTEM (FUTURE) (BR NO 02589)	LUMP SUM	\$14,000.00	1	\$14,000.00
2545.509	CONDUIT SYSTEM (LIGHTING) (BR NO 02589)	LUMP SUM	\$8,000.00	1	\$8,000.00
2545.509	CONDUIT SYSTEM (LIGHTING) (BR NO 02J49)	LUMP SUM	\$9,000.00	1	\$9,000.00
2545.509	CONDUIT SYSTEM (LIGHTING) (WALLS)	LUMP SUM	\$10,000.00	1	\$10,000.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2545.511	LIGHTING UNIT TYPE SPECIAL 1	EACH	\$3,250.00	15	\$48,750.00
2545.514	UNDERPASS LUMINAIRES TYPE LED	EACH	\$1,429.67	8	\$11,437.36
2545.515 2545.523	LIGHT FOUNDATION DESIGN E MODIFIED 2" NON-METALLIC CONDUIT	EACH LIN FT	\$1,341.00 \$8.46	5 1817	\$6,705.00 \$15.371.82
2545.531	UNDERGROUND WIRE 1 COND NO 6	LIN FT	\$1.38	22062	\$30,445.56
2545.531	UNDERGROUND WIRE 1 COND NO 10	LIN FT	\$1.18	2601	\$3,069,18
2545.551	JUNCTION BOX	EACH	\$960.00	6	\$5,760.00
2545.553 2545.602	HANDHOLE MODIFY FEED POINT	EACH EACH	\$798.00 \$450.00	10	\$7,980.00 \$450.00
2545.603	0.75" LIQUIDTIGHT FLEXIBLE CONDUIT	LIN FT	\$18.13	235	\$4,260.55
2545.603	1" LIQUIDTIGHT FLEXIBLE CONDUIT	LIN FT	\$24.00	12	\$288.00
2554.509	GUIDE POST TYPE B	EACH	\$55.00	12	\$660.00
2554.615	IMPACT ATTENUATOR	ASSEMBLY	\$2,500.00	2	\$5,000.00
2557.517	VEHICULAR GATE-SINGLE	EACH	\$1,700.00	1	\$1,700.00
2563.601	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	\$40,000.00	1	\$40,000.00
2563.601	TRAFFIC CONTROL	LUMP SUM	\$100,000.00	1	\$100,000.00
2563.602	RAISED PAVEMENT MARKER TEMPORARY	EACH	\$1.50	238	\$357.00
2563.602	PORTABLE CONCRETE BARRIER DELINEATOR	EACH	\$7.00	13	\$91.00
2563.602 2563.613	TUBE DELINEATOR TRAFFIC CONTROL SPECIAL 1	EACH UNIT DAY	\$33.00	100	\$3,300.00
2564.531	SIGN PANELS TYPE SPECIAL	SQ FT	\$1,600.00 \$50.00	180 97.5	\$288,000.00
2564.531	SIGN PANELS TYPE SPECIAL SIGN PANELS TYPE C	SQ FT	\$32.00	297.4	\$4,875.00 \$9,516.80



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2564.537	INSTALL SIGN TYPE C	EACH	\$200.00	5	\$1,000.00
2564.55	DELINEATOR TYPE X4-13	EACH	\$46.00	5	\$230.00
2564.552	OBJECT MARKER TYPE X4-2	EACH	\$72.00	6	\$432.00
2564.602	SIGN TYPE C (BRIDGE MOUNTED)	EACH	\$2,500.00	1	\$2,500.00
2565.514	TRAFFIC CONTROL INTERCONNECT	LUMP SUM	\$142,000.00	1	\$142,000.00
2565.61 6	REVISE FLASHER SYSTEM	SYSTEM	\$6,000.00	1	\$6,000.00
2565.616	REVISE SIGNAL SYSTEM A STAGE 1	SYSTEM	\$5,000.00	1	\$5,000.00
2565.616	REVISE SIGNAL SYSTEM A	SYSTEM	\$16,500.00	1	\$16,500.00
2565.616	REVISE SIGNAL SYSTEM B	SYSTEM	\$13,000.00	1	\$13,000.00
2573.502	SILT FENCE, TYPE MS	LIN FT	\$2.00	5050	\$10,100.00
2573.515	FILTER BERM TYPE 3	LIN FT	\$28.00	262	\$7,336.00
2573.53	STORM DRAIN INLET PROTECTION	EACH	\$186.00	122	\$22,692.00
2573.533	SEDIMENT CONTROL LOG TYPE WOOD CHIP	LIN FT	\$5.50	2335	\$12,842.50
2573.535	STABILIZED CONSTRUCTION EXIT	LUMP SUM	\$5,800.00	1	\$5,800.00
2573.55	EROSION CONTROL SUPERVISOR	LUMP SUM	\$5,000.00	1	\$5,000.00
2573.56	CULVERT END CONTROLS	EACH	\$150.00	8	\$1,200.00
2574.508	FERTILIZER TYPE 3	POUND	\$0.80	1220	\$976.00
2574.508	FERTILIZER TYPE 4	POUND	\$0.90	270	\$243.00
2574.525	FILTER TOPSOIL BORROW	CU YD	\$45.00	710	\$31,950.00
2574.55	COMPOST GRADE 2	CU YD	\$60.00	317	\$19,020.00
2574.575	SUBSOILING	ACRE	\$470.00	5.9	\$2,773.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
2574.576	LIME	POUND	\$0.10	36000	\$3,600.00
2574.578	SOIL BED PREPARATION	ACRE	\$125.00	5.9	\$737.50
2575.501	SEEDING	ACRE	\$180.00	5.9	\$1,062.00
2575.502	SEED MIXTURE 25-121	POUND	\$3.00	195	\$585.00
2575.502	SEED MIXTURE 33-261	POUND	\$20.00	75	\$1,500.00
2575.502	SEED MIXTURE 35-221	POUND	\$15.00	70	\$1,050.00
2575.505	SODDING TYPE LAWN	SQ YD	\$8.00	828	\$6,624.00
2575.523	EROSION CONTROL BLANKETS CATEGORY 0	SQ YD	\$1.50	14510	\$21,765.00
2575.523	EROSION CONTROL BLANKETS CATEGORY 3N	SQ YD	\$1.40	15500	\$21,700.00
2575.545	WEED SPRAYING	ACRE	\$20.00	3	\$60.00
2575.547	WEED SPRAY MIXTURE	GALLON	\$20.00	1.75	\$35.00
2575.571	RAPID STABILIZATION METHOD 3	M GALLON	\$335.00	0.3	\$100.50
2581.501	REMOVABLE PREFORM PAVEMENT MARKING TAPE	LIN FT	\$1.20	2940	\$3,528.00
2582.501	PAVT MSSG PAINT	SQ FT	\$18.20	124	\$2,256.80
2582.501	PAVT MSSG PREF THERMO	SQ FT	\$25.00	105	\$2,625.00
2582.502	4" SOLID LINE PAINT	LIN FT	\$0.10	8025	\$802.50
2582.502	4" DBLE SOLID LINE PAINT	LIN FT	\$0.30	2640	\$792.00
2582.502	4" SOLID LINE EPOXY	LIN FT	\$0.30	15150	\$4,545.00
2582.502	24" SOLID LINE EPOXY	LIN FT	\$0.20	90	\$18.00
2582.502	4" BROKEN LINE EPOXY	LIN FT	\$0.40	1090	\$436.00
2582.502	4" DBLE SOLID LINE EPOXY	LIN FT	\$0.40	10	\$4.00
2582.503	CROSSWALK PREF THERMO	SQ FT	\$14.00	300	\$4,200.00



ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	TOTAL PROJECT QUANTITIES	ESTIMATED TOTAL AMOUNT
	ESTIMATED TOTAL COST				\$17,826,605.32
	EGTIMATED TOTAL GOOT				ψ11,020,000.02
	3				

,					
		11			
	,	1			