

Date: 1/27/2020 5:09:19 PM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 436292-1-22-01

Letting Date: 01/2099

Description: I-95 INTERCHANGE AT PIONEER TRAIL

District: 05 County: 79 VOLUSIA Market Area: 06 Units: English
 Contract Class: 1 Lump Sum Project: N Design/Build: N Project Length: 2.000 MI

Project Manager: HJG

Version 5 Project Grand Total

\$35,350,836.97

Description: I-95 INTERCHANGE AT PIONEER TRAIL - APPROVED Alternative 3 - Partial Cloverleaf
 (Updated by KNSTERR on 01/27/2020)

Sequence: 1 NDU - New Construction, Divided, Urban

Net Length: 1.121 MI
 5,919 LF

Description: Pioneer Trail from begin project to end project (without bridge)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	60.00 / 60.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	1.121
Top of Structural Course For Begin Section	104.00
Top of Structural Course For End Section	104.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	16.31 AC	\$9,000.00	\$146,790.00
120-6	EMBANKMENT	99,301.27 CY	\$5.50	\$546,156.98

Earthwork Component Total \$692,946.99

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	29.00 / 29.00
Structural Spread Rate	330
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	44,930.88 SY	\$4.15	\$186,463.15
285-709	OPTIONAL BASE,BASE GROUP 09	38,143.89 SY	\$15.50	\$591,230.30
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	6,293.74 TN	\$95.00	\$597,905.30

337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	3,146.87 TN	\$125.00	\$393,358.75
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Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	454.00 EA	\$5.25	\$2,383.50
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	4.48 GM	\$8,500.00	\$38,080.00
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	2.24 GM	\$3,500.00	\$7,840.00
711-16-201	THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6"	4.48 GM	\$8,248.12	\$36,951.58

Roadway Component Total

\$1,854,212.58

SHOULDER COMPONENT**User Input Data**

Description	Value
Total Outside Shoulder Width L/R	13.25 / 13.25
Total Outside Shoulder Perf. Turf Width L/R	3.00 / 3.00
Sidewalk Width L/R	8.00 / 8.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	5,918.88 LF	\$22.00	\$130,215.36
520-1-10	CONCRETE CURB & GUTTER, TYPE F	5,918.88 LF	\$22.00	\$130,215.36
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	10,522.45 SY	\$38.00	\$399,853.10
570-1-1	PERFORMANCE TURF	3,945.92 SY	\$1.75	\$6,905.36

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,470.00 LF	\$265.58	\$390,402.60

Erosion Control**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	11,837.76 LF	\$1.50	\$17,756.64
104-11	FLOATING TURBIDITY BARRIER	280.25 LF	\$9.50	\$2,662.38
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	280.25 LF	\$4.00	\$1,121.00
104-15	SOIL TRACKING PREVENTION DEVICE	2.00 EA	\$2,090.94	\$4,181.88
104-18	INLET PROTECTION SYSTEM	58.00 EA	\$110.00	\$6,380.00
107-1	LITTER REMOVAL	28.53 AC	\$44.00	\$1,255.32
107-2	MOWING	28.53 AC	\$66.50	\$1,897.24

Shoulder Component Total

\$1,092,846.25

MEDIAN COMPONENT**User Input Data**

Description	Value
Total Median Width	22.00
Performance Turf Width	5.34

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	11,837.76 LF	\$18.00	\$213,079.68
570-1-1	PERFORMANCE TURF	3,511.87 SY	\$1.75	\$6,145.77
Median Component Total				\$219,225.45

DRAINAGE COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	20.18 CY	\$1,600.00	\$32,288.00
425-1-351	INLETS, CURB, TYPE P-5, <10'	41.00 EA	\$5,100.00	\$209,100.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	12.00 EA	\$6,565.00	\$78,780.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	6.00 EA	\$3,305.50	\$19,833.00
425-2-41	MANHOLES, P-7, <10'	6.00 EA	\$6,111.86	\$36,671.16
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	2,968.00 LF	\$90.00	\$267,120.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	264.00 LF	\$140.00	\$36,960.00
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	5,608.00 LF	\$187.00	\$1,048,696.00
570-1-1	PERFORMANCE TURF	340.78 SY	\$1.75	\$596.36

Box Culvert 1

Description	Value
Size	Dbl. 8 x 5
Length	40.00
Multiplier	2

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-4-1	CONC CLASS IV, CULVERTS	155.60 CY	\$1,189.78	\$185,129.77
415-1-1	REINF STEEL- ROADWAY	21,236.00 LB	\$1.00	\$21,236.00
Drainage Component Total				\$1,936,410.30

INTERSECTIONS COMPONENT**Intersection 1**

Description	Value
Mainline No. of Left Turn Lanes	1
Mainline No. of Right Turn Lanes	1
Mainline Design Speed	45
Cross Street Thru Lanes	2
Cross Street No. of Left Turn Lanes	1
Cross Street No. of Right Turn Lanes	1
Cross Street Design Speed	40

T-Intersection? Y
 Multiplier 1
 Description Williamson Blvd.

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.23 AC	\$9,000.00	\$11,070.00
120-1	REGULAR EXCAVATION	798.47 CY	\$7.50	\$5,988.52
160-4	TYPE B STABILIZATION	1,209.22 SY	\$4.15	\$5,018.26
160-4	TYPE B STABILIZATION	1,927.90 SY	\$4.15	\$8,000.79
285-709	OPTIONAL BASE,BASE GROUP 09	1,209.22 SY	\$15.50	\$18,742.91
285-709	OPTIONAL BASE,BASE GROUP 09	1,927.90 SY	\$15.50	\$29,882.45
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	199.52 TN	\$95.00	\$18,954.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	318.10 TN	\$95.00	\$30,219.50
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	99.76 TN	\$125.00	\$12,470.00
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	159.05 TN	\$125.00	\$19,881.25
520-1-7	CONCRETE CURB & GUTTER, TYPE E	101.42 LF	\$18.00	\$1,825.56
520-1-10	CONCRETE CURB & GUTTER, TYPE F	493.00 LF	\$22.00	\$10,846.00
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	205.00 LF	\$48.25	\$9,891.25
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	335.00 LF	\$48.25	\$16,163.75
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	273.89 SY	\$38.00	\$10,407.82
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	86.94 SY	\$57.25	\$4,977.32
570-1-1	PERFORMANCE TURF	273.89 SY	\$1.75	\$479.31

Intersection 2

Description	Value
Mainline No. of Left Turn Lanes	2
Mainline No. of Right Turn Lanes	1
Mainline Design Speed	45
Cross Street Thru Lanes	2
Cross Street No. of Left Turn Lanes	1
Cross Street No. of Right Turn Lanes	1
Cross Street Design Speed	40
T-Intersection?	N
Multiplier	1
Description	I-95 SB Ramp Terminal

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.46 AC	\$9,000.00	\$22,140.00
120-1	REGULAR EXCAVATION	1,297.09 CY	\$7.50	\$9,728.18
160-4	TYPE B STABILIZATION	1,689.22 SY	\$4.15	\$7,010.26
160-4	TYPE B STABILIZATION	3,131.81 SY	\$4.15	\$12,997.01
285-709	OPTIONAL BASE,BASE GROUP 09	1,689.22 SY	\$15.50	\$26,182.91
285-709	OPTIONAL BASE,BASE GROUP 09	3,131.81 SY	\$15.50	\$48,543.06
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	278.72 TN	\$95.00	\$26,478.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	516.75 TN	\$95.00	\$49,091.25
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	139.36 TN	\$125.00	\$17,420.00
337-7-83		258.37 TN	\$125.00	\$32,296.25

	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22			
520-1-7	CONCRETE CURB & GUTTER, TYPE E	202.84 LF	\$18.00	\$3,651.12
520-1-10	CONCRETE CURB & GUTTER, TYPE F	986.00 LF	\$22.00	\$21,692.00
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	670.00 LF	\$48.25	\$32,327.50
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	205.00 LF	\$48.25	\$9,891.25
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	547.78 SY	\$38.00	\$20,815.64
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	173.89 SY	\$57.25	\$9,955.20
570-1-1	PERFORMANCE TURF	547.78 SY	\$1.75	\$958.62

Intersection 3

Description	Value
Mainline No. of Left Turn Lanes	2
Mainline No. of Right Turn Lanes	1
Mainline Design Speed	45
Cross Street Thru Lanes	2
Cross Street No. of Left Turn Lanes	1
Cross Street No. of Right Turn Lanes	1
Cross Street Design Speed	40
T-Intersection?	N
Multiplier	1
Description	I-95 NB Ramp Terminal

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.46	AC	\$9,000.00	\$22,140.00
120-1	REGULAR EXCAVATION	1,297.09	CY	\$7.50	\$9,728.18
160-4	TYPE B STABILIZATION	1,689.22	SY	\$4.15	\$7,010.26
160-4	TYPE B STABILIZATION	3,131.81	SY	\$4.15	\$12,997.01
285-709	OPTIONAL BASE,BASE GROUP 09	1,689.22	SY	\$15.50	\$26,182.91
285-709	OPTIONAL BASE,BASE GROUP 09	3,131.81	SY	\$15.50	\$48,543.06
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	278.72	TN	\$95.00	\$26,478.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	516.75	TN	\$95.00	\$49,091.25
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	139.36	TN	\$125.00	\$17,420.00
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	258.37	TN	\$125.00	\$32,296.25
520-1-7	CONCRETE CURB & GUTTER, TYPE E	202.84	LF	\$18.00	\$3,651.12
520-1-10	CONCRETE CURB & GUTTER, TYPE F	986.00	LF	\$22.00	\$21,692.00
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	670.00	LF	\$48.25	\$32,327.50
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	205.00	LF	\$48.25	\$9,891.25
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	547.78	SY	\$38.00	\$20,815.64
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	173.89	SY	\$57.25	\$9,955.20
570-1-1	PERFORMANCE TURF	547.78	SY	\$1.75	\$958.62

Intersection 4

Description	Value
Mainline No. of Left Turn Lanes	1
Mainline No. of Right Turn Lanes	0
Mainline Design Speed	45

Cross Street Thru Lanes	3
Cross Street No. of Left Turn Lanes	1
Cross Street No. of Right Turn Lanes	1
Cross Street Design Speed	35
T-Intersection?	Y
Multiplier	1
Description	Turnbull Bay Road

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.18 AC	\$9,000.00	\$10,620.00
120-1	REGULAR EXCAVATION	917.11 CY	\$7.50	\$6,878.33
160-4	TYPE B STABILIZATION	862.56 SY	\$4.15	\$3,579.62
160-4	TYPE B STABILIZATION	2,214.35 SY	\$4.15	\$9,189.55
285-709	OPTIONAL BASE,BASE GROUP 09	862.56 SY	\$15.50	\$13,369.68
285-709	OPTIONAL BASE,BASE GROUP 09	2,214.35 SY	\$15.50	\$34,322.43
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	142.32 TN	\$95.00	\$13,520.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	365.37 TN	\$95.00	\$34,710.15
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	71.16 TN	\$125.00	\$8,895.00
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	182.68 TN	\$125.00	\$22,835.00
520-1-7	CONCRETE CURB & GUTTER, TYPE E	101.42 LF	\$18.00	\$1,825.56
520-1-10	CONCRETE CURB & GUTTER, TYPE F	473.00 LF	\$22.00	\$10,406.00
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	335.00 LF	\$48.25	\$16,163.75
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	195.00 LF	\$48.25	\$9,408.75
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	262.78 SY	\$38.00	\$9,985.64
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	86.94 SY	\$57.25	\$4,977.32
570-1-1	PERFORMANCE TURF	262.78 SY	\$1.75	\$459.86
Intersections Component Total				\$1,128,323.45

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	27.00 AS	\$372.10	\$10,046.70
700-1-12	SINGLE POST SIGN, F&I GM, 12- 20 SF	3.00 AS	\$1,329.12	\$3,987.36
700-2-16	MULTI- POST SIGN, F&I GM, 101- 200 SF	4.00 AS	\$9,789.17	\$39,156.68

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-9-117	WALK-IN DYN MESS SIGN,F&I, MONO,201-	1.00 EA	\$75,000.00	\$75,000.00
700-10-124	DMS SUPPORT STRUCTURE, CANT, 41-50 FT	1.00 EA	\$81,378.36	\$81,378.36

Signing Component Total **\$209,569.10**

SIGNALIZATIONS COMPONENT**Signalization 1**

Description	Value
Type	2 Lane Mast Arm
Multiplier	1
Description	Williamson Blvd. T-Intersection

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$7.00	\$5,600.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	200.00 LF	\$20.00	\$4,000.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$6,554.50	\$6,554.50
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$707.50	\$5,660.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$2,842.45	\$2,842.45
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$5.00	\$300.00
649-21-4	STEEL MAST ARM ASSEMBLY, F&I, 40'- 30'	2.00 EA	\$42,475.00	\$84,950.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	7.00 AS	\$997.00	\$6,979.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	6.00 AS	\$608.00	\$3,648.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	8.00 EA	\$323.25	\$2,586.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	8.00 AS	\$950.00	\$7,600.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	6.00 EA	\$219.98	\$1,319.88
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$29,000.00	\$29,000.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$157.52	\$630.08

Signalization 2

Description	Value
Type	4 Lane Mast Arm
Multiplier	1
Description	I-95 NB and SB Ramp Terminals along Pioneer Trail

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$7.00	\$5,250.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$20.00	\$5,000.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$6,554.50	\$6,554.50
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$707.50	\$5,660.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$2,842.45	\$2,842.45
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$5.00	\$300.00
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	3.00 EA	\$47,500.00	\$142,500.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	6.00 AS	\$997.00	\$5,982.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$608.00	\$4,864.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	8.00 EA	\$323.25	\$2,586.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	8.00 AS	\$950.00	\$7,600.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	4.00 EA	\$219.98	\$879.92

670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$29,000.00	\$29,000.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$157.52	\$630.08

Signalization 3

Description	Value
Type	4 Lane Mast Arm
Multiplier	1
Description	I-95 NB and SB Ramp Terminals

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$7.00	\$5,250.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$20.00	\$5,000.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$6,554.50	\$6,554.50
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00 EA	\$707.50	\$8,490.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$2,842.45	\$2,842.45
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$5.00	\$300.00
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	3.00 EA	\$47,500.00	\$142,500.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	10.00 AS	\$997.00	\$9,970.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	6.00 AS	\$608.00	\$3,648.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	9.00 EA	\$323.25	\$2,909.25
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	9.00 AS	\$950.00	\$8,550.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	6.00 EA	\$219.98	\$1,319.88
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$29,000.00	\$29,000.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$157.52	\$630.08

Signalization 4

Description	Value
Type	2 Lane Mast Arm
Multiplier	1
Description	Turnbull Bay Road T-Intersection

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$7.00	\$5,600.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	200.00 LF	\$20.00	\$4,000.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$6,554.50	\$6,554.50
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$707.50	\$5,660.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$2,842.45	\$2,842.45
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$5.00	\$300.00
649-21-4	STEEL MAST ARM ASSEMBLY, F&I, 40'- 30'	2.00 EA	\$42,475.00	\$84,950.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	8.00 AS	\$997.00	\$7,976.00

653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	2.00 AS	\$608.00	\$1,216.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	6.00 EA	\$323.25	\$1,939.50
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	6.00 AS	\$950.00	\$5,700.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	2.00 EA	\$219.98	\$439.96
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$29,000.00	\$29,000.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$157.52	\$630.08
Signalizations Component Total				\$765,091.51

INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

Description of Work

EX-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
1	ITS - ALL ITEMS	1.12 MI	\$150,000.00	\$168,000.00
Intelligent Traffic System (ITS) Component Total				\$168,000.00

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description		Value		
Spacing		MIN		
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	5,918.88 LF	\$7.00	\$41,432.16
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	1,174.81 LF	\$20.00	\$23,496.20
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	40.00 EA	\$707.50	\$28,300.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	21,617.36 LF	\$2.00	\$43,234.72
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	40.00 EA	\$5,750.00	\$230,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	40.00 EA	\$558.75	\$22,350.00
Subcomponent Total				\$388,813.08
Lighting Component Total				\$388,813.08

RETAINING WALLS COMPONENT

Retaining Wall 1

Description	Value
Length	840.00
Begin height	8.00
End Height	8.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	6,720.00 SF	\$29.15	\$195,888.00

Retaining Wall 2

Description	Value
Length	630.00
Begin height	8.00
End Height	8.00
Multiplier	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	5,040.00	SF	\$29.15	\$146,916.00

Retaining Walls Component Total	\$342,804.00
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Sequence 1 Total	\$8,798,242.71
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Sequence: 2 NDU - New Construction, Divided, Urban**Net Length:** 0.064 MI
337 LF**Description:** Pioneer Trail Bridge at I-95**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	68.50 / 68.50
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.064
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.06	AC	\$9,000.00	\$9,540.00
Earthwork Component Total					\$9,540.00

ROADWAY COMPONENT**User Input Data**

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	28.00 / 28.00
Structural Spread Rate	330
Friction Course Spread Rate	165

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	26.00	EA	\$5.25	\$136.50
711-15-201	THERMOPLASTIC, STD-OP, YELLOW, SOLID, 6"	0.26	GM	\$4,585.18	\$1,192.15
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.26	GM	\$8,500.00	\$2,210.00
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	0.13	GM	\$3,500.00	\$455.00
Roadway Component Total					\$3,993.65

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00 AS	\$372.10	\$744.20
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,329.12	\$1,329.12
Signing Component Total				\$2,073.32

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description				Value
Spacing				MIN
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	336.86 LF	\$7.00	\$2,358.02
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	66.86 LF	\$20.00	\$1,337.20
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$707.50	\$2,122.50
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,230.32 LF	\$2.00	\$2,460.64
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	3.00 EA	\$5,750.00	\$17,250.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$558.75	\$1,676.25
Subcomponent Total				\$27,204.61
Lighting Component Total				\$27,204.61

BRIDGES COMPONENT

Bridge PION95

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	337.00
Width (LF)	137.00
Type	Low Level
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	11,655.00
Default Cost per SF	\$135.00
Factored Cost per SF	\$135.00
Final Cost per SF	\$138.94
Basic Bridge Cost	\$6,232,815.00
Description	PIONEER TRAIL AT I-95

Bridge Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	11,655.00 SF	\$20.00	\$233,100.00
400-2-10	CONC CLASS II, APPROACH SLABS	304.44 CY	\$422.75	\$128,702.01
415-1-9	REINF STEEL- APPROACH SLABS	53,277.00 LB	\$1.00	\$53,277.00
Bridge PION95 Total				\$6,647,894.01

Bridges Component Total	\$6,647,894.01
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Sequence 2 Total	\$6,690,705.59
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Sequence: 3NUR - New Construction, Undivided, Rural**Net Length:** 2.223 MI
11,735 LF**Description:** Ramps (one lane sections). This sequence includes all retention basins.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	70.00 / 70.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	2.220
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	37.71 AC	\$9,000.00	\$339,390.00
120-6	EMBANKMENT	60,427.02 CY	\$5.50	\$332,348.61
Earthwork Component Total				\$671,738.61

ROADWAY COMPONENT**User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	15.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	35,204.40 SY	\$4.15	\$146,098.26
285-709	OPTIONAL BASE,BASE GROUP 09	19,988.28 SY	\$15.50	\$309,818.34
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,689.23 TN	\$95.00	\$255,476.85
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	1,613.54 TN	\$125.00	\$201,692.50

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	1
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	2.22 GM	\$4,634.00	\$10,287.48

711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	2.22 GM	\$4,585.18	\$10,179.10
Roadway Component Total				\$933,552.53

SHOULDER COMPONENT**User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	8,683.75 SY	\$13.00	\$112,888.75
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	430.28 TN	\$95.00	\$40,876.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	645.41 TN	\$125.00	\$80,676.25
570-1-1	PERFORMANCE TURF	7,823.20 SY	\$1.75	\$13,690.60

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	4,400.00 LF	\$265.58	\$1,168,552.00

Erosion Control**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	30,510.48 LF	\$1.50	\$45,765.72
104-11	FLOATING TURBIDITY BARRIER	555.62 LF	\$9.50	\$5,278.39
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	555.62 LF	\$4.00	\$2,222.48
104-15	SOIL TRACKING PREVENTION DEVICE	3.00 EA	\$2,090.94	\$6,272.82
107-1	LITTER REMOVAL	26.94 AC	\$44.00	\$1,185.36
107-2	MOWING	26.94 AC	\$66.50	\$1,791.51

Shoulder Component Total**\$1,479,200.48****DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	40.01 CY	\$1,600.00	\$64,016.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	1,784.00 LF	\$89.75	\$160,114.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	376.00 LF	\$140.00	\$52,640.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	89.00 EA	\$1,453.00	\$129,317.00
570-1-1	PERFORMANCE TURF	1,564.64 SY	\$1.75	\$2,738.12

Retention Basin 1

Description	Value
Size	2 AC
Multiplier	1
Depth	8.00
Description	Wet Pond 3.4 NW quadrant of interchange

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.00 AC	\$9,000.00	\$18,000.00
120-1	REGULAR EXCAVATION	25,813.33 CY	\$7.50	\$193,599.98
400-2-2	CONC CLASS II, ENDWALLS	18.00 CY	\$1,600.00	\$28,800.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$5,085.22	\$5,085.22
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$7,869.52	\$7,869.52
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$165.68	\$9,278.08
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$340.32	\$68,064.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,180.00 LF	\$27.82	\$32,827.60
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN	1.00 EA	\$1,967.87	\$1,967.87
570-1-1	PERFORMANCE TURF	9,680.00 SY	\$1.75	\$16,940.00

Retention Basin 2

Description	Value
Size	5 AC
Multiplier	1
Depth	8.00
Description	Wet Ponds 3.1 & 3.2 SW quadrant of interchange (both ponds total about 5 AC)

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	5.00 AC	\$9,000.00	\$45,000.00
120-1	REGULAR EXCAVATION	64,533.33 CY	\$7.50	\$483,999.98
400-2-2	CONC CLASS II, ENDWALLS	30.00 CY	\$1,600.00	\$48,000.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$5,085.22	\$5,085.22
425-2-71	MANHOLES, J-7, <10'	2.00 EA	\$7,869.52	\$15,739.04
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$165.68	\$9,278.08
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00 LF	\$340.32	\$136,128.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,860.00 LF	\$27.82	\$51,745.20
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN	2.00 EA	\$1,967.87	\$3,935.74
570-1-1	PERFORMANCE TURF	24,200.00 SY	\$1.75	\$42,350.00

Retention Basin 3

Description	Value
Size	5 AC
Multiplier	1
Depth	3.00
Description	

Floodplain Comp Pond 3 (NW
Quadrant)**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	5.00	AC	\$9,000.00	\$45,000.00
120-1	REGULAR EXCAVATION	24,200.00	CY	\$7.50	\$181,500.00
400-2-2	CONC CLASS II, ENDWALLS	30.00	CY	\$1,600.00	\$48,000.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00	EA	\$5,085.22	\$5,085.22
425-2-71	MANHOLES, J-7, <10'	2.00	EA	\$7,869.52	\$15,739.04
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00	LF	\$165.68	\$9,278.08
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00	LF	\$340.32	\$136,128.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,860.00	LF	\$27.82	\$51,745.20
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	2.00	EA	\$1,967.87	\$3,935.74
570-1-1	PERFORMANCE TURF	24,200.00	SY	\$1.75	\$42,350.00

Retention Basin 4

Description	Value
Size	1 AC
Multiplier	1
Depth	3.00
Description	Floodplain Comp Pond 2 (SW Quadrant)

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.00	AC	\$9,000.00	\$9,000.00
120-1	REGULAR EXCAVATION	4,840.00	CY	\$7.50	\$36,300.00
400-2-2	CONC CLASS II, ENDWALLS	18.00	CY	\$1,600.00	\$28,800.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00	EA	\$5,085.22	\$5,085.22
425-2-71	MANHOLES, J-7, <10'	1.00	EA	\$7,869.52	\$7,869.52
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00	LF	\$165.68	\$9,278.08
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00	LF	\$340.32	\$68,064.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	840.00	LF	\$27.82	\$23,368.80
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00	EA	\$1,967.87	\$1,967.87
570-1-1	PERFORMANCE TURF	4,840.00	SY	\$1.75	\$8,470.00

Retention Basin 5

Description	Value
Size	5 AC
Multiplier	1
Depth	8.00
Description	Wet Pond 3.3 NE Quadrant of Interchange

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	5.00	AC	\$9,000.00	\$45,000.00
120-1	REGULAR EXCAVATION	64,533.33	CY	\$7.50	\$483,999.98

400-2-2	CONC CLASS II, ENDWALLS	30.00 CY	\$1,600.00	\$48,000.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$5,085.22	\$5,085.22
425-2-71	MANHOLES, J-7, <10'	2.00 EA	\$7,869.52	\$15,739.04
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$165.68	\$9,278.08
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00 LF	\$340.32	\$136,128.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,860.00 LF	\$27.82	\$51,745.20
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN	2.00 EA	\$1,967.87	\$3,935.74
570-1-1	PERFORMANCE TURF	24,200.00 SY	\$1.75	\$42,350.00

Retention Basin 6

Description	Value
Size	2.5 AC
Multiplier	1
Depth	3.00
Description	Floodplain Comp Pond 1 (NE Quadrant)

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.50 AC	\$9,000.00	\$22,500.00
120-1	REGULAR EXCAVATION	12,100.00 CY	\$7.50	\$90,750.00
400-2-2	CONC CLASS II, ENDWALLS	18.00 CY	\$1,600.00	\$28,800.00
425-1-361	INLETS, CURB, TYPE P-6, <10'	1.00 EA	\$7,733.88	\$7,733.88
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$7,869.52	\$7,869.52
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$165.68	\$9,278.08
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$340.32	\$68,064.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,335.00 LF	\$27.82	\$37,139.70
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN	1.00 EA	\$1,967.87	\$1,967.87
570-1-1	PERFORMANCE TURF	12,100.00 SY	\$1.75	\$21,175.00
Drainage Component Total				\$3,506,022.73

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	5.00 AS	\$372.10	\$1,860.50
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	45.00 AS	\$1,329.12	\$59,810.40
Signing Component Total				\$61,670.90

LIGHTING COMPONENT

Rural Lighting Subcomponent

Description	Value
Multiplier (Number of Poles)	47

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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630-2-11	CONDUIT, F& I, OPEN TRENCH	9,400.00 LF	\$7.00	\$65,800.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	47.00 EA	\$707.50	\$33,252.50
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	28,200.00 LF	\$2.00	\$56,400.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	47.00 EA	\$6,800.00	\$319,600.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	47.00 EA	\$558.75	\$26,261.25
Subcomponent Total				\$501,313.75
Lighting Component Total				\$501,313.75

RETAINING WALLS COMPONENT

Retaining Wall 1

Description	Value
Length	860.00
Begin height	8.00
End Height	8.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	6,880.00 SF	\$29.15	\$200,552.00

Retaining Wall 2

Description	Value
Length	870.00
Begin height	8.00
End Height	8.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	6,960.00 SF	\$29.15	\$202,884.00

Retaining Wall 3

Description	Value
Length	910.00
Begin height	8.00
End Height	8.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	7,280.00 SF	\$29.15	\$212,212.00

Retaining Wall 4

Description	Value
Length	800.00
Begin height	8.00
End Height	8.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	6,400.00 SF	\$29.15	\$186,560.00

Retaining Wall 5

Description	Value
Length	960.00
Begin height	8.00
End Height	8.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	7,680.00 SF	\$29.15	\$223,872.00

Retaining Walls Component Total \$1,026,080.00

Sequence 3 Total \$8,179,579.00

Sequence: 4 NUR - New Construction, Undivided, Rural

Net Length: 0.528 MI
2,785 LF

Description: Ramps (two lane sections)

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	80.00 / 80.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.530
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	10.24	AC	\$9,000.00	\$92,160.00
120-6	EMBANKMENT	28,795.54	CY	\$5.50	\$158,375.47
Earthwork Component Total					\$250,535.47

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	13,616.53	SY	\$4.15	\$56,508.60
285-709	OPTIONAL BASE,BASE GROUP 09	7,631.45	SY	\$15.50	\$118,287.48
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,021.24	TN	\$95.00	\$97,017.80
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	612.74	TN	\$125.00	\$76,592.50

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	71.00	EA	\$5.25	\$372.75

711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.06 GM	\$4,634.00	\$4,912.04
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.53 GM	\$1,546.06	\$819.41
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	1.06 GM	\$4,585.18	\$4,860.29
Roadway Component Total				\$359,370.87

SHOULDER COMPONENT**User Input Data**

Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips $\frac{1}{2}$ No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	4,536.78 SY	\$13.00	\$58,978.14
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	238.29 TN	\$95.00	\$22,637.55
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	357.43 TN	\$125.00	\$44,678.75
570-1-1	PERFORMANCE TURF	1,856.80 SY	\$1.75	\$3,249.40

Erosion Control**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	7,241.52 LF	\$1.50	\$10,862.28
104-11	FLOATING TURBIDITY BARRIER	131.88 LF	\$9.50	\$1,252.86
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	131.88 LF	\$4.00	\$527.52
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,090.94	\$2,090.94
107-1	LITTER REMOVAL	6.39 AC	\$44.00	\$281.16
107-2	MOWING	6.39 AC	\$66.50	\$424.94
Shoulder Component Total				\$144,983.54

DRAINAGE COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	9.49 CY	\$1,600.00	\$15,184.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	424.00 LF	\$89.75	\$38,054.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	88.00 LF	\$140.00	\$12,320.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	22.00 EA	\$1,453.00	\$31,966.00
570-1-1	PERFORMANCE TURF	371.36 SY	\$1.75	\$649.88
Drainage Component Total				\$98,173.88

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00	AS	\$372.10	\$744.20
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	11.00	AS	\$1,329.12	\$14,620.32
Signing Component Total					\$15,364.52

LIGHTING COMPONENT**Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

Value

11

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,200.00	LF	\$7.00	\$15,400.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	11.00	EA	\$707.50	\$7,782.50
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,600.00	LF	\$2.00	\$13,200.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	11.00	EA	\$6,800.00	\$74,800.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	11.00	EA	\$558.75	\$6,146.25
Subcomponent Total					\$117,328.75
Lighting Component Total					\$117,328.75

Sequence 4 Total**\$985,757.03**

Sequence: 5NUR - New Construction, Undivided, Rural**Net Length:** 0.269 MI
1,420 LF**Description:** Ramps (three lane sections)**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	90.00 / 90.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.270
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	5.87 AC	\$9,000.00	\$52,830.00
120-6	EMBANKMENT	16,532.74 CY	\$5.50	\$90,930.07
Earthwork Component Total				\$143,760.07

ROADWAY COMPONENT**User Input Data**

Description	Value
Number of Lanes	3
Roadway Pavement Width L/R	18.00 / 18.00
Structural Spread Rate	275
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	8,834.26 SY	\$4.15	\$36,662.18
285-709	OPTIONAL BASE,BASE GROUP 09	5,783.29 SY	\$15.50	\$89,641.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	780.89 TN	\$95.00	\$74,184.55
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	468.53 TN	\$125.00	\$58,566.25

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	145.00 EA	\$5.25	\$761.25

711-15-102	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	0.54 GM	\$7,587.25	\$4,097.12
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.54 GM	\$1,546.06	\$834.87
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	0.54 GM	\$4,585.18	\$2,476.00
Roadway Component Total				\$267,223.22

SHOULDER COMPONENT**User Input Data**

Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips $\bar{y}_i \frac{1}{2}$ No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	2,312.68 SY	\$13.00	\$30,064.84
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	121.47 TN	\$95.00	\$11,539.65
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	182.21 TN	\$125.00	\$22,776.25
570-1-1	PERFORMANCE TURF	946.53 SY	\$1.75	\$1,656.43

Erosion Control**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,691.46 LF	\$1.50	\$5,537.19
104-11	FLOATING TURBIDITY BARRIER	67.22 LF	\$9.50	\$638.59
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	67.22 LF	\$4.00	\$268.88
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,090.94	\$2,090.94
107-1	LITTER REMOVAL	3.26 AC	\$44.00	\$143.44
107-2	MOWING	3.26 AC	\$66.50	\$216.79
Shoulder Component Total				\$74,933.00

DRAINAGE COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	4.84 CY	\$1,600.00	\$7,744.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	216.00 LF	\$89.75	\$19,386.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00 LF	\$140.00	\$6,720.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	11.00 EA	\$1,453.00	\$15,983.00
570-1-1	PERFORMANCE TURF	189.31 SY	\$1.75	\$331.29
Drainage Component Total				\$50,164.29

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$372.10	\$372.10
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	6.00 AS	\$1,329.12	\$7,974.72
Signing Component Total				\$8,346.82

LIGHTING COMPONENT**Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

Value

6

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,200.00 LF	\$7.00	\$8,400.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00 EA	\$707.50	\$4,245.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,600.00 LF	\$2.00	\$7,200.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	6.00 EA	\$6,800.00	\$40,800.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	6.00 EA	\$558.75	\$3,352.50
Subcomponent Total				\$63,997.50
Lighting Component Total				\$63,997.50

Sequence 5 Total**\$608,424.90**

Sequence: 6 RSD - Resurfacing, Divided**Net Length:** 1.383 MI
7,300 LF**Description:** I-95 Milling & Resurfacing**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	0
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-19	MILLING EXIST ASPH PAVT, 3/4" AVG DEPTH	58,401.02 SY	\$3.00	\$175,203.06
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	2,336.04 TN	\$131.91	\$308,147.04

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	4

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	933.00 EA	\$6.59	\$6,148.47
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	5.53 GM	\$4,634.00	\$25,626.02
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	5.53 GM	\$1,546.06	\$8,549.71
711-15-201	THERMOPLASTIC, STD-OP, YELLOW, SOLID, 6"	5.53 GM	\$4,585.18	\$25,356.05

Roadway Component Total

\$549,030.35

SHOULDER COMPONENT**User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2No. of Sides	0

Erosion Control**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	138.26 LF	\$9.50	\$1,313.47
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	138.26 LF	\$4.00	\$553.04
107-1	LITTER REMOVAL	10.05 AC	\$44.00	\$442.20
107-2	MOWING	10.05 AC	\$66.50	\$668.32

Shoulder Component Total

\$2,977.04

SIGNING COMPONENT**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-2-16	MULTI- POST SIGN, F&I GM, 101-200 SF	5.00	AS	\$9,789.17	\$48,945.85
700-3-207	SIGN PANEL, F&I OM, 201-300 SF	5.00	EA	\$7,729.79	\$38,648.95
700-4-114	OH STATIC SIGN STR, F&I, C 41-50 FT	5.00	EA	\$85,759.38	\$428,796.90
700-9-117	WALK-IN DYN MESS SIGN,F&I, MONO,201-	1.00	EA	\$75,000.00	\$75,000.00
700-9-600	WALK-IN DYN MESS SIGN, REMOVE	1.00	EA	\$1,693.93	\$1,693.93
700-10-124	DMS SUPPORT STRUCTURE, CANT, 41-50 FT	1.00	EA	\$81,378.36	\$81,378.36
700-10-600	DMS SUPPORT STRUCTURE, REMOVE	1.00	EA	\$6,724.00	\$6,724.00
Signing Component Total					\$681,187.99

INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT**Description of Work****EX-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
1	ITS _ ALL ITEMS	1.38	MI	\$150,000.00	\$207,000.00
Intelligent Traffic System (ITS) Component Total					\$207,000.00

Sequence 6 Total

\$1,440,195.38

Date: 1/27/2020 5:09:21 PM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 436292-1-22-01

Letting Date: 01/2099

Description: I-95 INTERCHANGE AT PIONEER TRAIL

District: 05

County: 79 VOLUSIA

Market Area: 06

Units: English

Contract Class: 1 Lump Sum Project: N

Design/Build: N

Project Length: 2.000 MI

Project Manager: HJG

Version 5 Project Grand Total

\$35,350,836.97

Description: I-95 INTERCHANGE AT PIONEER TRAIL - APPROVED Alternative 3 - Partial Cloverleaf
(Updated by KNSTERR on 01/27/2020)

Project Sequences Subtotal **\$26,702,904.61**

102-1	Maintenance of Traffic	12.00 %	\$3,204,348.55
101-1	Mobilization	10.00 %	\$2,990,725.32

Project Sequences Total **\$32,897,978.48**

Project Unknowns	7.00 %	\$2,302,858.49
Design/Build	0.00 %	\$0.00

Non-Bid Components:

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)		LS	\$150,000.00	\$150,000.00

Project Non-Bid Subtotal **\$150,000.00**

Version 5 Project Grand Total

\$35,350,836.97