



CITY OF DELAND
JOINT MEETING OF THE DELAND CITY COMMISSION AND
THE DOWNTOWN COMMUNITY REDEVELOPMENT AGENCY
JUNE 8, 2023 AT 6:00 PM
CITY COMMISSION CHAMBERS, CITY HALL
120 SOUTH FLORIDA AVENUE
AGENDA

CALL TO ORDER

ROLL CALL

NEW BUSINESS

1. Consideration re West Voorhis Avenue Streetscape Final Design Approval.

ADJOURNMENT

The DeLand City Commission holds its regular meetings on the first and third Mondays of each month at 7:00 p.m. in the DeLand City Commission Chambers, 120 South Florida Avenue, DeLand. Notice of special meetings, workshops, changes in dates, times or locations are provided by separate Public Notices, which are posted at City Hall and on the City's web site.

The City of DeLand may take action on any matter during this meeting, including items that are not set forth within this agenda.

Public participation is encouraged on any matter on the agenda. If you desire to be recognized by the Mayor, please fill out a Speaker's Card and present it to the City Clerk.

Minutes of the DeLand City Commission meetings are not transcribed verbatim. If any person decides to appeal a decision made by the City Commission with respect to any matter considered at a public meeting or hearing, he/she will need a record of the proceedings including all testimony and evidence upon which the appeal is to be based. To that end, such person will want to ensure that a verbatim record of the proceedings is made by a court reporter, at the person's own expense.

In accordance with the American Disabilities Act, persons needing a special accommodation in order to participate in the proceedings should notify the City Clerk's Office at least 48 hours in advance of the meeting: 626-7132.

Assisted Listening System receivers are available for the hearing impaired, and can be obtained from the City Clerk.

If you wish to obtain information regarding the City Commission's Agenda, please call the City Clerk's Office: 626-7132.

We respectfully request that all pagers and cell phones be turned OFF during City Commission meetings.

Electronic Information! City Commission agendas and short form minutes are now available on the City's web page: www.deland.org.

CITY OF DELAND

Request for City Commission and Downtown Community Redevelopment Agency Action June 8, 2023

SUBJECT: Consideration re West Voorhis Avenue Streetscape Final Design Approval.

DEPARTMENT: Admin Services

PREPARED BY: Michael Grebosz, Asst. City Manager

ATTACHMENTS: Voorhis Ave Presentation 2023-06-08, D0932 Voorhis Ave EOPCC 2023-06-03

APPROVED BY: Michael Pleus, City Manager, June 6, 2023

SUMMARY/HIGHLIGHT:

The City of DeLand Downtown CRA has reserved funding for a streetscape project on W. Voorhis Ave. The amount of funding allocated is \$1.4 million. The project has gone through several community input sessions and stakeholder meetings since March of 2022. CPH and city staff have put together a final design plan and an estimated project cost for CRA consideration.

The overall design includes:

- Narrowing of roadway
- Slowing of traffic
- Increased pedestrian area
- Shared use path/bike accommodations
- Aesthetic improvements
- Lighting improvements
- Traffic signal replacement at Clara intersection
- Decorative intersection treatment at Clara intersection

The estimated cost as designed totals \$3.04 million.

Staff is seeking CRA direction on approval of the final design and if staff can move forward with the next step, which will be getting the project out to bid.

STRATEGIC PLAN FOCUS AREA/ACTION STEP:

Creating a connected community

SUSTAINABILITY:

N/A

FISCAL IMPACT:

\$3,040,495.07 if the project was fully funded as proposed. The current funding available is \$1,442,330, which includes approximately \$742,330 in CRA reserve money, along with a \$700,000 loan.

RECOMMENDATION:

Staff is seeking CRA direction on approval of the final design and whether staff can move forward with putting the project out to bid.

BACKGROUND/DISCUSSION:

The West Voorhis Avenue streetscape project has been in the planning stages since March of 2022. The CRA has had several design meetings and talks with stakeholders to culminate in the final design.

CITY OF DELAND

W. Voorhis Avenue Streetscape

*Joint CRA Board / Public Workshop
June 8, 2023*



cph



AGENDA



BRIEF HISTORY



WHERE WE ARE TODAY



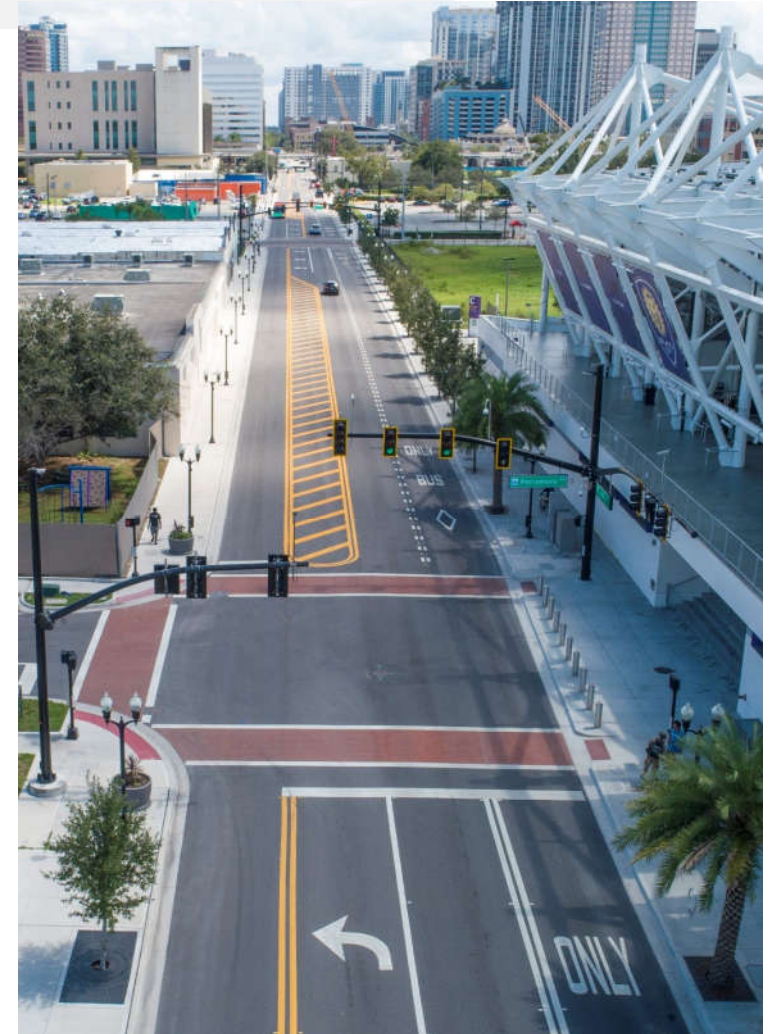
OPEN SESSION



CRA BOARD MEETING



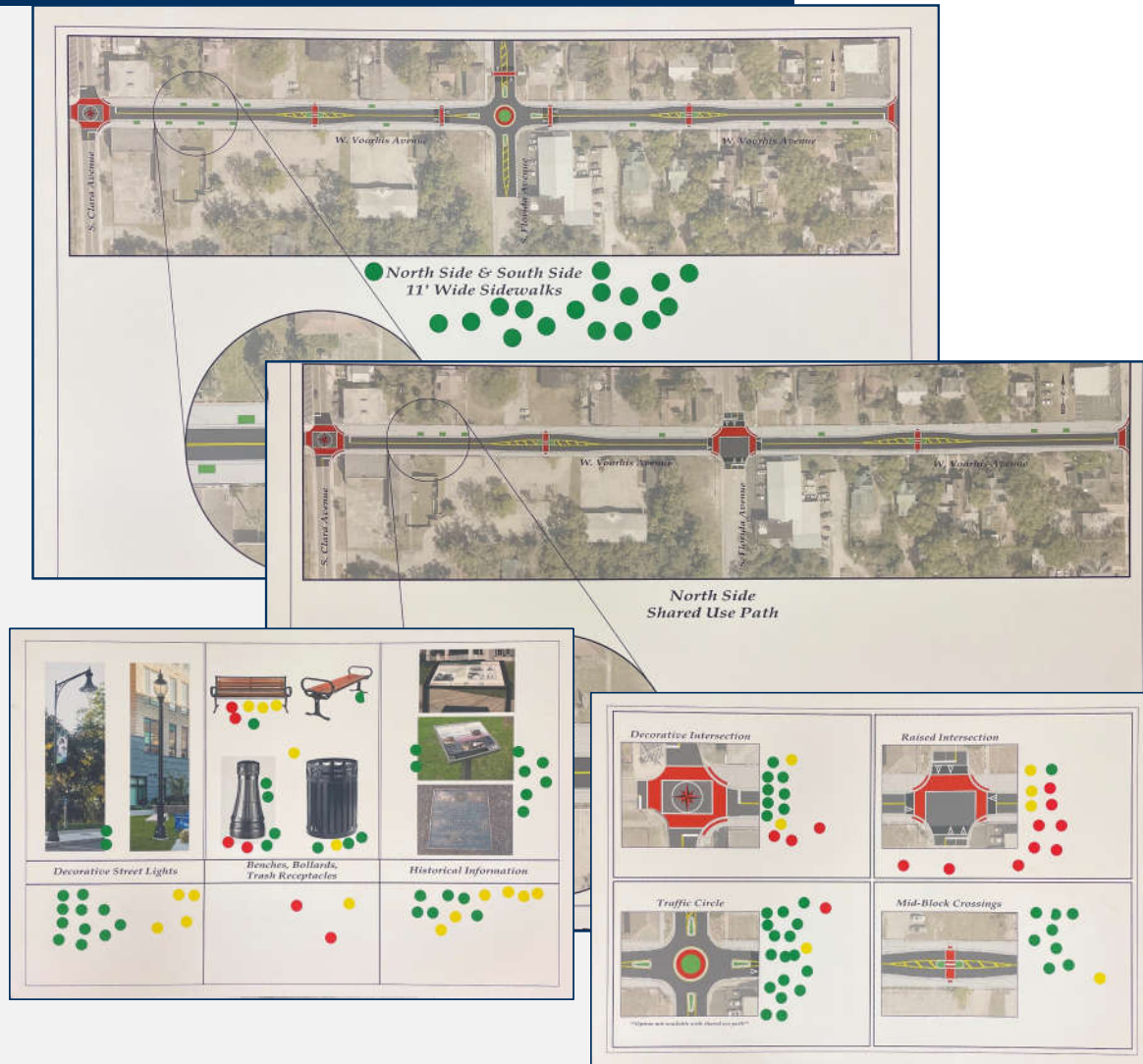
CRA BOARD DISCUSSION/DECISION



BRIEF HISTORY



- CRA HAS SAVED UP A RESERVE FUND
- MARCH 2022, CRA RECEIVED COMMUNITY INPUT THROUGH ONLINE RANKING
- IDENTIFIED THREE MAJOR INITIATIVES
 - Voorhis Avenue Streetscape*
 - Rich/Church Avenue Parking Lot
 - Sunflower Park/Painters Pond Upgrades
- PUBLIC CONCEPT DESIGN MEETING, FEBRUARY 2022
- PUBLIC CONCEPT AND RANKING, AUGUST 2022
- CRA BOARD MEETING, NOVEMBER 2022



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BIKE-FRIENDLY HYBRID URBAN SETTING

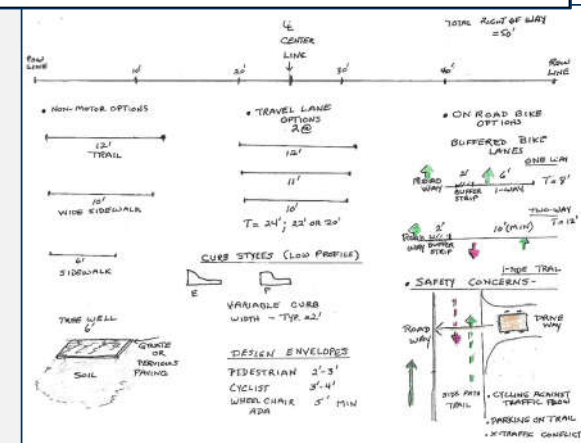
The diagram illustrates a cross-section of a road with the following components from left to right:

- BRUSH FINISH** (5' wide)
- DIAGONAL FINISH** (5' wide)
- TRAVEL LANE** (10' wide) with a green arrow pointing down and a bicycle icon.
- TRAVEL LANE** (10' wide) with a green arrow pointing up and a bicycle icon.
- BRUSH FINISH** (5' wide)
- DIAGONAL FINISH** (5' wide)
- OPTIONAL BING USE ON SIDEWALK** (5' wide)
- OPTIONAL BING USE ON SIDEWALK** (5' wide)

TARGET SPEED < 25 MPH

ON ROAD OPTION SHARROW MARKING

OFF ROAD OPTION DIAGONAL SIDEWALK



WHERE WE ARE TODAY



- COST ANALYSIS

- CRA BUDGET = \$1.20 MILLION
- CLARA TO WOODLAND WITH ALL IMPROVEMENTS = \$3.040 MILLION
- CLARA TO FLORIDA WITH ALL IMPROVEMENTS = \$1.857 MILLION
- FLORIDA TO WOODLAND WITH ALL IMPROVEMENTS = \$1.444 MILLION

		ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST				ESTIMATED BY: AM	
PROJECT: D0932		Voorhis Avenue Streetscape City of DeLand				DATE: 6/1/2023	
						CHECKED BY: KRL	
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION		UNIT	QUANTITY	UNIT COST	TOTAL COST
VOORHIS AVE ROADWAY IMPROVEMENTS							
1	101	1	MOBILIZATION	LS	1	\$139,072.77	\$139,072.77
2	102	1	MAINTENANCE OF TRAFFIC	LS	1	\$53,489.53	\$53,489.53
3	104	1	EROSION CONTROL / STORMWATER POLLUTION PREVENTION PLAN	LS	1	\$13,239.98	\$13,239.98
4			CONSTRUCTION LAYOUT SURVEY	LS	1	\$25,960.75	\$25,960.75
5			AS-BUILT PLANS	LS	1	\$25,451.71	\$25,451.71
6	104	10	3 SEDIMENT BARRIER	LF	1977	\$9.43	\$18,643.11
7	104	18	INLET PROTECTION SYSTEM	EA	2	\$278.05	\$556.10
8	110	1	CLEARING & GRUBBING	AC	1,117	\$32,503.21	\$36,306.09
9	110	4	10 REMOVAL OF EXISTING CONCRETE	SY	1970	\$47.45	\$93,476.50
10	120	1	REGULAR EXCAVATION	CY	1000	\$40.98	\$40,980.00
11	120	6	EMBANKMENT	CY	500	\$40.72	\$20,360.00
12	160	4	TYPE B STABILIZATION (LBR40)(12")	SY	4483	\$16.86	\$75,583.38
13	285	706	OPTIONAL BASE GROUP 06 CRUSHED CONC. (8")	SY	3227	\$57.89	\$186,811.03
14	334	1	13 SUPERPAVE ASPHALT CONC. TRAFFIC C, 2.0"	TN	355	\$256.45	\$91,039.75
15	425	1	321 INLETS, CURB, TYPE P-2, <10'	EA	2	\$15,400.88	\$30,801.76
16	425	5	MANHOLE, ADJUST	EA	4	\$1,853.33	\$7,413.32
17	430	175	118 PIPE CULVERT, OPTIONAL MAT'L, ROUND, 18" S/CD	LF	24	\$149.79	\$3,594.96
18	520	1	10 CONCRETE CURB & GUTTER, TYPE F	LF	2786	\$62.85	\$175,100.10
19	520	2	1 CONCRETE CURB, TYPE A	LF	120	\$47.61	\$5,713.20
20	520	2	4 CONCRETE CURB, TYPE D	LF	13	\$49.38	\$641.94
21	520	2	5 CONCRETE CURB, RIBBON	LF	667	\$60.00	\$40,020.00
22	522	1	CONCRETE, SIDEWALK, 4" THICK	SY	2115	\$83.55	\$176,708.25
23	522	2	CONCRETE, DRIVEWAYS, 6" THICK	SY	950	\$103.56	\$98,362.00
24	522	5	CONCRETE, 8"-12" THICK, REINFORCED (RAISED CROSSWALKS)	SY	467	\$320.00	\$149,440.00
25	527	2	DETECTABLE WARNINGS	SF	423	\$27.14	\$11,480.22
26	700	1	11 SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2	\$748.11	\$1,496.22
27	700	1	50 SINGLE POST SIGN, RELOCATE	AS	2	\$397.96	\$795.92
28	711	11	125 THERMOPLASTIC, STD. SOLID, WHITE, 24"	LF	96	\$8.43	\$809.28
29	711	11	234 THERMOPLASTIC, STD. YELLOW, SOLID, 18"	LF	87	\$6.96	\$605.52
30	711	15	101 THERMOPLASTIC, STD - OP. WHITE, SOLID, 6"	GM	0.4674	\$6,145.10	\$2,872.22
31	711	16	201 THERMOPLASTIC, STD - OP. YELLOW, SOLID, 6"	GM	0.5433	\$5,438.68	\$2,954.83
ROADWAY IMPROVEMENTS - SUBTOTAL							\$1,529,800.44
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION		UNIT	QUANTITY	UNIT COST	TOTAL COST
LIGHTING IMPROVEMENTS							
32	630	2	11 CONDUIT, F&I	LF	4850	\$16.25	\$78,562.50
33	635	2	11 PULL & SPLICE BOX, F&I	EA	26	\$1,600.00	\$41,600.00
34	715	1	12 LIGHTING CONDUCTORS, F&I, INSULATED, NO. 6	LF	4500	\$2.50	\$11,250.00
35	715	1	14 LIGHTING CONDUCTORS, F&I, INSULATED, NO. 1	LF	150	\$8.00	\$1,200.00
36	715	511	325 LIGHT POLE COMPLETE - F&I	EA	24	\$24,000.00	\$576,000.00
37	715	7	12 LOAD CENTER, F&I, PRIMARY VOLTAGE (LIGHTING CONTROL CABINET)	EA	1	\$20,000.00	\$20,000.00
LIGHTING IMPROVEMENTS - SUBTOTAL							\$725,612.50
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION		UNIT	QUANTITY	UNIT COST	TOTAL COST
LANDSCAPE / HARDSCAPE IMPROVEMENTS							
38	580	1	1 LANDSCAPE, SMALL PLANTS	LS	1	\$15,000.00	\$15,000.00
39	580	1	2 LANDSCAPE, LARGE PLANTS	LS	1	\$40,000.00	\$40,000.00
40	580	1	2 HARDSCAPE COMPLETE, (AMENITIES)	LS	1	\$25,000.00	\$25,000.00
41	590	70	2 IRRIGATION SYSTEM, COMPLETE, F&I	LS	1	\$15,000.00	\$15,000.00
LANDSCAPE / HARDSCAPE IMPROVEMENTS - SUBTOTAL							\$95,000.00
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION		UNIT	QUANTITY	UNIT COST	TOTAL COST
SIGNAL IMPROVEMENTS							
42	644	1	1 TRAFFIC SIGNAL POLE, DECORATIVE	LS	4	\$30,000.00	\$120,000.00
43	650	1	14 VEHICULAR TRAFFIC SIGNAL, F&I, 3-SECTION	LS	8	\$4,500.00	\$36,000.00
44	660	2	10 LOOP ASSEMBLY - F&I, TYPE A	LS	4	\$2,500.00	\$10,000.00
45	670	5	500 TRAFFIC CONTROLLER ASSEMBLY, RELOCATE CONTROLLER WITH CABIN	AS	1	\$8,500.00	\$8,500.00
SIGNAL IMPROVEMENTS - SUBTOTAL							\$174,500.00
20% CONTINGENCY							\$504,962.59
COMPLETE PROJECT TOTAL							\$3,029,895.57



WHERE WE ARE TODAY

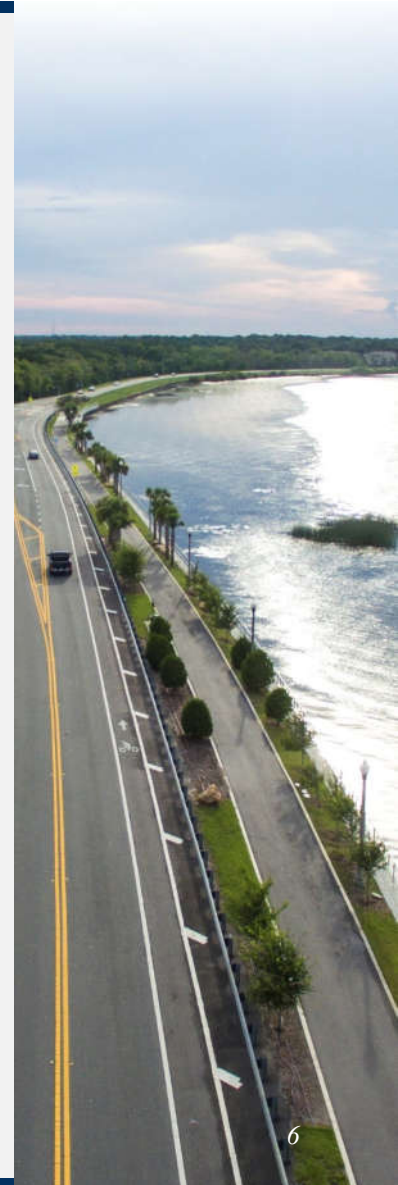


- COST ANALYSIS (cont.)

- INDIVIDUAL ELEMENTS*
- ROADWAY – \$1.604 MILLION
- LIGHTING – \$870,735
- LANDSCAPE/HARDSCAPE – \$114,000
- DECORATIVE INT. – \$206,233
- MID-BLOCK CROSSINGS – \$35,586
- SIGNAL REPLACEMENT – \$209,400
- TOTAL = \$3.040 MILLION

*INDIVIDUAL ELEMENT COSTS INCLUDE A 20% CONTINGENCY

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST						
PROJECT: D0932		Voorhis Avenue Streetscape City of Deland			ESTIMATED BY: AM DATE: 6/15/2023 CHECKED BY: KMS	
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
VOORHIS AVE ROADWAY IMPROVEMENTS						
1	101	1	MOBILIZATION	LS	1	\$121,566.26
2	102	1	MAINTENANCE OF TRAFFIC	LS	1	\$46,752.38
3	104	1	EROSION CONTROL / STORMWATER POLLUTION PREVENTION PLAN	LS	1	\$11,572.37
4			CONSTRUCTION LAYOUT SURVEY	LS	1	\$22,680.93
5			AS-BUILT PLANS	LS	1	\$22,348.01
6	104	10	BERMEND BARRIER	LF	1977	\$29.43
7	104	18	PULST PROTECTION SYSTEM	EA	2	\$278.05
8	118	1	1 CLEARING & GRUBBING	AC	1.117	\$32,503.21
9	119	4	10 REMOVAL OF EXISTING CONCRETE	BY	1870	\$47.45
10	120	1	REGULAR EXCAVATION	CV	1000	\$40.98
11	120	6	EMBANKMENT	CV	300	\$40.72
12	150	4	TYPE B STABILIZATION (LBMA90 (2")	SY	4453	\$16.06
13	265	706	OPTIONAL BASE GROUP 06 CRUSHED CONC. (8")	SY	3709	\$57.89
14	334	1	13 SUPERPAVE ASPHALT CONC. TRAFFIC C. 2.0"	TN	408	\$206.45
15	425	1	321 INLETS, CURBS, TYPE P-2, <10"	SA	2	\$15,400.86
16	425	5	MANHOLE ADJUST	EA	4	\$1,853.35
17	430	175	118 PIPE CULVERT, OPTIONAL MAT'L, ROUND, 18" S/C	LF	24	\$149.79
18	520	1	10 CONCRETE CURBS & GUTTER, TYPE F	LF	2798	\$62.85
19	520	2	4 CONCRETE CURBS, TYPE D	LF	13	\$49.38
20	522	1	CONCRETE, SIDEWALK, 4" THICK	SY	2115	\$83.55
21	522	2	CONCRETE, DRIVEWAYS, 6" THICK	SY	880	\$103.56
22	527	2	DETECTABLE WARNING	GF	311	\$27.12
23	700	1	11 SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2	\$748.11
24	700	1	50 SINGLE POST SIGN, RELOCATE	AS	2	\$387.90
25	711	11	153 THERMOPLASTIC, STD. SOLID, WHITE, 12"	LF	460	\$5.17
26	711	11	125 THERMOPLASTIC, STD. SOLID, WHITE, 24"	LF	300	\$6.43
27	711	15	101 THERMOPLASTIC, STD. - OP. WHITE, SOLID, 6"	GM	0.4674	\$6,145.10
28	711	18	201 THERMOPLASTIC, STD. - OP. YELLOW, SOLID, 6"	GM	0.5433	\$5,533.65
20% CONTINGENCY						\$1,604,541.83
ROADWAY IMPROVEMENTS - SUBTOTAL						\$1,604,541.83
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
MID-BLOCK CROSSING						
29	520	2	1 CONCRETE CURBS, TYPE A	LF	120	\$44.97
30	520	2	5 CONCRETE CURBS, RIBBON	LF	90	\$20.00
31	522	2	CONCRETE DRIVEWAYS, 6" THICK	SY	60	\$103.56
32	522	5	CONCRETE, 6" 1/2" THICK, REINFORCED (RAISED CROSSWALKS)	SY	40	\$320.00
33	527	2	DETECTABLE WARNING	GF	112	\$27.12
34	711	11	224 THERMOPLASTIC, STD. YELLOW, SOLID, 18"	LF	87	\$6.90
20% CONTINGENCY						\$5,533.65
MID-BLOCK IMPROVEMENTS - SUBTOTAL						\$35,586.24
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
DECORATIVE INTERSECTION						
35	520	2	5 CONCRETE CURBS, RIBBON	LF	567	\$60.00
36	522	5	CONCRETE, 6" 1/2" THICK, REINFORCED (RAISED CROSSWALKS)	SY	427	\$320.00
20% CONTINGENCY						\$34,372.80
DECORATIVE INTERSECTION IMPROVEMENTS - SUBTOTAL						\$206,232.80
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
LIGHTING IMPROVEMENTS						
37	630	2	11 CONDUIT, F&I	LF	4500	\$16.28
38	635	2	11 PULL & SPLICE BOX, F&I	EA	26	\$1,600.00
39	715	1	12 LIGHTING CONDUCTORS, F&I, INSULATED, NO. 6	LF	4500	\$2.50
40	715	1	14 LIGHTING CONDUCTORS, F&I, INSULATED, NO. 1	LF	150	\$8.00
41	715	511	325 LIGHT POLE COMPLETE - F&I	EA	24	\$24,000.00
42	715	7	12 LOAD CENTER, F&I, PRIMARY VOLTAGE (LIGHTING CONTROL CABINET)	EA	1	\$20,000.00
20% CONTINGENCY						\$145,122.50
LIGHTING IMPROVEMENTS - SUBTOTAL						\$870,735.00
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
LANDSCAPE / HARDSCAPE IMPROVEMENTS						
43	580	1	1 LANDSCAPE, SMALL PLANTS	LS	1	\$15,000.00
44	580	1	2 LANDSCAPE, LARGE PLANTS	LS	1	\$40,000.00
45	580	1	2 HARDSCAPE COMPLETE (ASSEMBLY)	LS	1	\$25,000.00
46	590	70	2 IRRIGATION SYSTEM, COMPLETE, F&I	LS	1	\$15,000.00
20% CONTINGENCY						\$19,000.00
LANDSCAPE/HARDSCAPE IMPROVEMENTS - SUBTOTAL						\$114,000.00
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
SIGNAL IMPROVEMENTS						
47	644	1	1 TRAFFIC SIGNAL POLE, DECORATIVE	LS	4	\$30,000.00
48	650	1	14 VEHICULAR TRAFFIC SIGNAL, 3-SECTION	LS	8	\$4,500.00
49	660	2	10 LOOP ASSEMBLY, F&I, TYPE A	LS	4	\$2,500.00
50	670	5	500 TRAFFIC CONTROLLER ASSEMBLY, RELOCATE CONTROLLER WITH CABINET	LS	1	\$8,500.00
20% CONTINGENCY						\$5,000.00
SIGNAL IMPROVEMENTS - SUBTOTAL						\$209,400.00
20% CONTINGENCY						\$428,076.51
COMPLETE PROJECT TOTAL						\$3,040,495.07



WHERE WE ARE TODAY



- COST ANALYSIS (cont.)

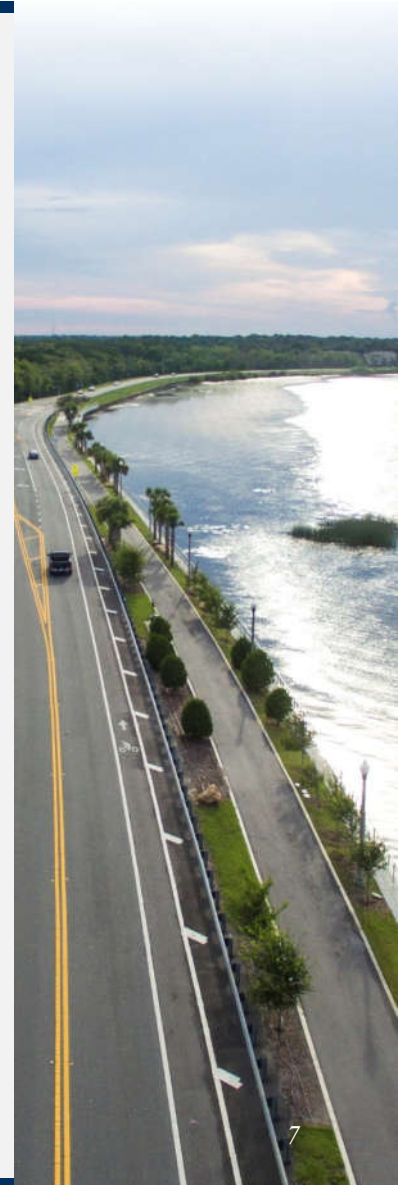
- CLARA TO FLORIDA INDIVIDUAL ELEMENTS*
- ROADWAY – \$1.143 MILLION
- LIGHTING – \$447,367
- LANDSCAPE/HARDSCAPE – \$57,000
- SIGNAL REPLACEMENT – \$209,400
- TOTAL = \$1.857 MILLION

INCLUDED IN THE ROADWAY COSTS

- DECORATIVE INTS. – \$195,920
- MID-BLOCK CROSSINGS – \$17,793

*INDIVIDUAL ELEMENT COSTS INCLUDE A 20% CONTINGENCY

			ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST					ESTIMATED BY: AM	
PROJECT: D0937			Voorhis Avenue Streetscape City of DeLand					DATE: 6/1/2023 CHECKED BY: KHL	
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST			
CLARA AVE TO FLORIDA AVE ROADWAY IMPROVEMENTS									
1	101	1	MOBILIZATION	LS	1	\$88,833.39	\$88,833.39		
2	102	1	MAINTENANCE OF TRAFFIC	LS	1	\$33,320.53	\$33,320.53		
3	104	1	EROSION CONTROL / STORMWATER POLLUTION PREVENTION PLAN	LS	1	\$6,247.66	\$6,247.66		
4			CONSTRUCTION LAYOUT SURVEY	LS	1	\$18,171.88	\$18,171.88		
5			AS-BUILT PLANS	LS	1	\$15,884.78	\$15,884.78		
6	104	10	SEDIMENT BARRIER	LF	1,122	\$9.43	\$10,585.46		
7	104	18	INLET PROTECTION SYSTEM	EA	2	\$275.05	\$550.10		
8	110	1	CLEARING & GRUBBING	AC	0.712	\$32,503.21	\$23,142.29		
9	110	4	REMOVAL OF EXISTING CONCRETE	SY	880	\$47.45	\$41,756.00		
10	120	1	REGULAR EXCAVATION	CY	500	\$40.98	\$20,490.00		
11	120	6	REMARKMENT	CY	250	\$40.72	\$10,180.00		
12	180	4	TYPE B STABILIZATION (LBR40)(12")	SY	2,751	\$16.86	\$46,381.86		
13	285	708	OPTIONAL BASE GROUP OR CRUSHED CONC. (8")	SY	1878	\$57.89	\$108,717.42		
14	304	1	SUPERPAVE ASPHALT CONC. TRAFFIC C, 2.0"	TN	207	\$255.45	\$53,085.15		
15	425	1	INLETS, CURB, TYPE P-2, 4'x10'	EA	2	\$15,400.86	\$30,801.76		
16	425	5	MANHOLE, ADJUST	EA	4	\$1,853.33	\$7,413.32		
17	430	175	PIPE CULVERT, OPTIONAL MAT'L, ROUND, 18" SCD	LF	24	\$149.79	\$3,594.96		
18	520	1	CONCRETE CURB & GUTTER, TYPE F	LF	1,177	\$67.85	\$80,000.00		
19	520	2	CONCRETE CURB, TYPE A	LF	60	\$47.61	\$2,856.60		
20	520	2	CONCRETE CURB, TYPE D	LF	13	\$49.38	\$641.94		
21	520	2	CONCRETE CURB, RIBBON	LF	571	\$60.00	\$34,260.00		
22	522	1	CONCRETE, SIDEWALK, 4" THICK	SY	1,123	\$83.55	\$93,926.65		
23	522	2	CONCRETE, DRIVEWAYS, 6" THICK	SY	557	\$103.56	\$57,582.92		
24	522	5	CONCRETE, 8"-12" THICK, REINFORCED (RAISED CROSSWALKS)	SY	417	\$320.00	\$133,440.00		
25	527	2	DETECTABLE WARNING	SF	933	\$27.14	\$25,420.62		
26	700	1	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2	\$748.11	\$1,496.22		
27	700	1	SING F. POST SIGN, RFL OCATE	AS	2	\$367.69	\$735.38		
28	711	11	THERMOPLASTIC, STD. SOLID, WHITE, 24"	LF	86	\$5.43	\$467.58		
29	711	11	THERMOPLASTIC, STD. YELLOW, SOLID, 18"	LF	43	\$6.96	\$299.28		
30	711	15	THERMOPLASTIC, STD. -OP. WHITE, SOLID, 6"	GM	0.2589	\$6,145.10	\$1,591.26		
31	711	16	THERMOPLASTIC, STD. -OP. YELLOW, SOLID, 6"	GM	0.2589	\$1,438.86	\$372.88		
ROADWAY IMPROVEMENTS - SUBTOTAL							\$952,967.27		
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST			
LIGHTING IMPROVEMENTS									
32	630	2	CONDUIT, F&I	LF	2325	\$16.25	\$37,781.25		
33	635	2	PULL & SPICE BOX, F&I	EA	13	\$1,600.00	\$20,800.00		
34	715	1	LIGHTING CONDUCTORS, F&I INSULATED, NO. 6	LF	2,250	\$2.50	\$5,625.00		
35	715	1	LIGHTING CONDUCTORS, F&I INSULATED, NO. 1	LF	75	\$8.00	\$600.00		
36	715	511	LIGHT POLE COMPLETE, F&I	EA	12	\$24,000.00	\$288,000.00		
37	715	7	LOAD CENTER, F&I PRIMARY VOLTAGE (LIGHTING CONTROL CABINET)	EA	1	\$20,000.00	\$20,000.00		
LIGHTING IMPROVEMENTS - SUBTOTAL							\$372,806.25		
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST			
LANDSCAPE / HARDSCAPE IMPROVEMENTS									
38	590	1	LANDSCAPE, SMALL PLANTS	LS	1	\$7,500.00	\$7,500.00		
39	590	1	LANDSCAPE, LARGE PLANTS	LS	1	\$20,000.00	\$20,000.00		
40	590	1	HARDSCAPE COMPLETE, (AMENITIES)	LS	1	\$12,500.00	\$12,500.00		
41	590	70	IRRIGATION SYSTEM, COMPLETE, F&I	LS	1	\$7,500.00	\$7,500.00		
LANDSCAPE / HARDSCAPE IMPROVEMENTS - SUBTOTAL							\$47,500.00		
20% CONTINGENCY							\$274,654.70		
PROJECT TOTAL							\$1,647,928.23		
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST			
SIGNAL IMPROVEMENTS									
42	844	1	TRAFFIC SIGNAL POLE, DECORATIVE	LS	4	\$30,000.00	\$120,000.00		
43	650	1	VEHICULAR TRAFFIC SIGNAL, F&I, 3-SECTION	LS	8	\$4,500.00	\$36,000.00		
44	660	2	LOOP ASSEMBLY, F&I, TYPE A	LS	4	\$2,500.00	\$10,000.00		
45	670	5	TRAFFIC CONTROLLER ASSEMBLY, RELOCATE CONTROLLER WITH CABIN	AS	1	\$8,500.00	\$8,500.00		
SIGNAL IMPROVEMENTS - SUBTOTAL							\$174,500.00		
20% CONTINGENCY							\$309,554.70		
PROJECT TOTAL (WITH SIGNAL)							\$1,857,328.23		



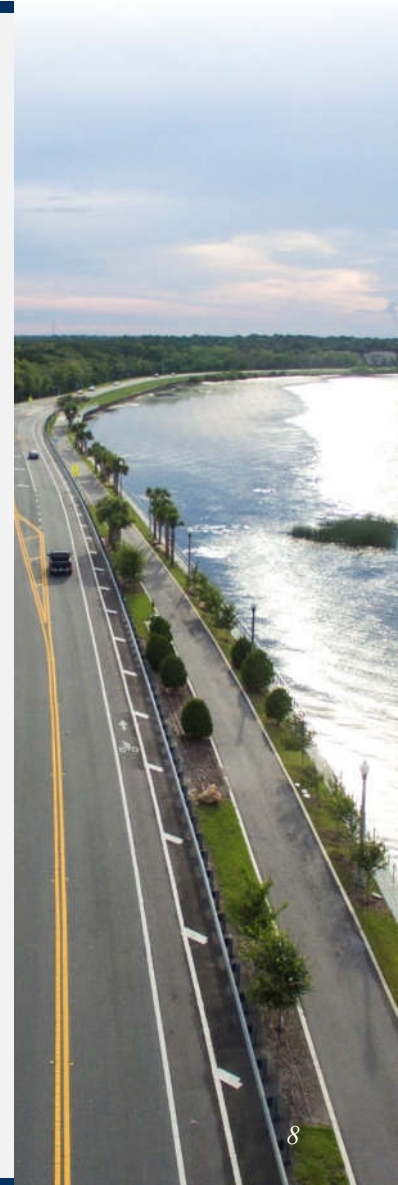
WHERE WE ARE TODAY



- COST ANALYSIS (cont.)
 - FLORIDA TO WOODLAND INDIVIDUAL ELEMENTS*
 - ROADWAY – \$939,829
 - LIGHTING – \$447,367
 - LANDSCAPE/HARDSCAPE – \$57,000
 - TOTAL = \$1.444 MILLION
- INCLUDED IN THE ROADWAY
- DECORATIVE INT – \$51,558
 - MID-BLOCK CROSSINGS - \$17,793

*INDIVIDUAL ELEMENT COSTS INCLUDE A 20% CONTINGENCY

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST						
PROJECT: D0932			Vooch's Avenue Streetscape City of Deland		ESTIMATED BY: AM DATE: 8/10/2023 CHECKED BY: KSL	
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
FLORIDA AVE TO WOODLAND BLVD ROADWAY IMPROVEMENTS						
1	101	1	MOBILIZATION	LS	1	\$71,198.17
2	102	1	MAINTENANCE OF TRAFFIC	LS	1	\$27,384.30
3	104	1	EROSION CONTROL / STORMWATER POLLUTION PREVENTION PLAN	LS	1	\$6,778.29
4			CONSTRUCTION LAYOUT SURVEY	LS	1	\$13,290.77
5			AS-BUILT PLANS	LS	1	\$13,290.16
8	104	10	3 SEDIMENT BARRIER	LF	937	\$8,435.91
7	110	1	1 CLEARING & GRUBBING	AC	0.577	\$32,503.21
8	110	4	10 REMOVAL OF EXISTING CONCRETE	SY	1164	\$47.40
9	120	1	1 REGULAR EXCAVATION	CY	500	\$40.98
10	120	6	1 EMBANKMENT	CY	250	\$40.72
11	160	4	1 TYPE B STABILIZATION (LOR40)(12")	SY	2369	\$16.80
12	285	708	1 OPTIONAL BASE GROUP OR CRUSHED CONC. (8")	SY	1755	\$57.89
13	334	1	13 SUPERPAVE ASPHALT CONC. TRAFFIC C, 2.0"	TN	193	\$256.46
14	520	1	10 CONCRETE CURB & GUTTER, TYPE F	LF	1555	\$62.85
15	520	2	1 CONCRETE CURB, TYPE A	LF	80	\$47.81
16	520	2	5 CONCRETE CURB, REBORN	LF	330	\$60.00
17	522	1	1 CONCRETE SIDEWALK, 4" THICK	SY	1012	\$83.55
18	522	2	1 CONCRETE DRIVEWAYS, 6" THICK	SY	850	\$103.58
19	522	5	1 CONCRETE, 8"-12" THICK, REINFORCED (RAISED CROSSWALKS)	SY	190	\$320.00
20	527	2	1 DETECTABLE WARNINGS	SF	287	\$27.14
21	700	1	11 SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2	\$748.11
22	700	1	60 SINGLE POST SIGN, RELOCATE	AS	2	\$397.96
23	711	11	125 THERMOPLASTIC, STD. SOLID, WHITE, 24"	LF	55	\$8.43
24	711	11	224 THERMOPLASTIC, STD. YELLOW, SOLID, 18"	LF	44	\$9.96
25	711	15	101 THERMOPLASTIC, STD.-OP. WHITE, SOLID, 6"	GM	0.2515	\$6,145.10
26	711	16	201 THERMOPLASTIC, STD.-OP. YELLOW, SOLID, 6"	GM	0.2581	\$6,439.89
ROADWAY IMPROVEMENTS - SUBTOTAL						\$783,190.87
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
LIGHTING IMPROVEMENTS						
29	630	2	11 CONDUIT, F&I	LF	2325	\$18.25
28	635	2	11 PULL & SPRUCE BOX, F&I	EA	13	\$1,600.00
29	715	1	12 LIGHTING CONDUCTORS, F&I, INSULATED, NO. 6	LF	2250	\$2.50
30	715	1	14 LIGHTING CONDUCTORS, F&I, INSULATED, NO. 1	LF	75	\$8.00
31	715	511	325 LIGHT POLE COMPLETE, F&I	EA	12	\$24,000.00
32	715	7	12 LOAD CENTER, F&I, PRIMARY VOLTAGE (LIGHTING CONTROL CABINET)	EA	1	\$20,000.00
LIGHTING IMPROVEMENTS - SUBTOTAL						\$372,806.25
ITEM NUMBER	PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
LANDSCAPE / HARDSCAPE IMPROVEMENTS						
33	590	1	1 LANDSCAPE, SMALL PLANTS	LS	1	\$7,500.00
34	590	1	2 LANDSCAPE, LARGE PLANTS	LS	1	\$20,000.00
35	590	1	2 HARDSCAPE, COMPLETE, (AMENITIES)	LS	1	\$12,500.00
36	590	70	1 IRRIGATION SYSTEM, COMPLETE, F&I	LS	1	\$7,500.00
LANDSCAPE / HARDSCAPE IMPROVEMENTS - SUBTOTAL						\$47,500.00
20% CONTINGENCY						\$240,699.42
PROJECT TOTAL						\$1,444,196.54



OPEN SESSION

15-20 MINUTES



CRA BOARD MEETING





ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

PROJECT: D0932

Voorhis Avenue Streetscape

City of DeLand

ESTIMATED BY:	AM
DATE:	6/1/2023
CHECKED BY:	KRL

ITEM NUMBER		PAY ITEM NUMBER		ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
1	101	1		MOBILIZATION	LS	1	\$121,556.20	\$121,556.20
2	102	1		MAINTENANCE OF TRAFFIC	LS	1	\$46,752.38	\$46,752.38
3	104	1		EROSION CONTROL / STORMWATER POLLUTION PREVENTION PLAN	LS	1	\$11,572.37	\$11,572.37
4				CONSTRUCTION LAYOUT SURVEY	LS	1	\$22,690.93	\$22,690.93
5				AS-BUILT PLANS	LS	1	\$22,246.01	\$22,246.01
6	104	10	3	SEDIMENT BARRIER	LF	1977	\$9.43	\$18,643.11
7	104	18		INLET PROTECTION SYSTEM	EA	2	\$278.05	\$556.10
8	110	1	1	CLEARING & GRUBBING	AC	1.117	\$32,503.21	\$36,302.84
9	110	4	10	REMOVAL OF EXISTING CONCRETE	SY	1970	\$47.45	\$93,476.50
10	120	1		REGULAR EXCAVATION	CY	1000	\$40.98	\$40,980.00
11	120	6		EMBANKMENT	CY	500	\$40.72	\$20,360.00
12	160	4		TYPE B STABILIZATION (LBR40)(12")	SY	4483	\$16.86	\$75,583.38
13	285	706		OPTIONAL BASE GROUP 06 CRUSHED CONC. (8")	SY	3709	\$57.89	\$214,714.01
14	334	1	13	SUPERPAVE ASPHALT CONC. TRAFFIC C, 2.0"	TN	408	\$256.45	\$104,631.60
15	425	1	321	INLETS, CURB, TYPE P-2, <10'	EA	2	\$15,400.88	\$30,801.76
16	425	5		MANHOLE, ADJUST	EA	4	\$1,853.33	\$7,413.32
17	430	175	118	PIPE CULVERT, OPTIONAL MAT'L, ROUND, 18" S/CD	LF	24	\$149.79	\$3,594.96
18	520	1	10	CONCRETE CURB & GUTTER, TYPE F	LF	2786	\$62.85	\$175,100.10
19	520	2	4	CONCRETE CURB, TYPE D	LF	13	\$49.38	\$641.94
20	522	1		CONCRETE, SIDEWALK, 4" THICK	SY	2115	\$83.55	\$176,708.25
21	522	2		CONCRETE, DRIVEWAYS, 6" THICK	SY	890	\$103.56	\$92,168.40
22	527	2		DETECTABLE WARNINGS	SF	311	\$27.14	\$8,440.54
23	700	1	11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2	\$748.11	\$1,496.22
24	700	1	50	SINGLE POST SIGN, RELOCATE	AS	2	\$397.96	\$795.92
25	711	11	123	THERMOPLASTIC, STD, SOLID, WHITE, 12"	LF	460	\$5.17	\$2,378.20
26	711	11	125	THERMOPLASTIC, STD, SOLID, WHITE, 24"	LF	200	\$8.43	\$1,686.00
27	711	15	101	THERMOPLASTIC, STD - OP, WHITE,SOLID,6"	GM	0.4674	\$6,145.10	\$2,872.40
28	711	16	201	THERMOPLASTIC, STD - OP, YELLOW,SOLID,6"	GM	0.5433	\$5,438.68	\$2,954.76
ROADWAY IMPROVEMENTS - SUBTOTAL								\$1,337,118.19
ITEM NUMBER		PAY ITEM NUMBER		ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
MID-BLOCK CROSSING								
29	520	2	1	CONCRETE CURB, TYPE A	LF	120	\$44.97	\$5,396.40
30	520	2	5	CONCRETE CURB, RIBBON	LF	80	\$20.00	\$1,600.00
31	522	2		CONCRETE, DRIVEWAYS, 6" THICK	SY	60	\$103.56	\$6,213.60
32	522	5		CONCRETE, 8"-12" THICK, REINFORCED (RAISED CROSSWALKS)	SY	40	\$320.00	\$12,800.00
33	527	2		DETECTABLE WARNINGS	SF	112	\$27.14	\$3,039.68
34	711	11	224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF	87	\$6.96	\$605.52
MID-BLOCK CROSSING - SUBTOTAL								\$29,655.20
ITEM NUMBER		PAY ITEM NUMBER		ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
DECORATIVE INTERSECTION								
35	520	2	5	CONCRETE CURB, RIBBON	LF	587	\$60.00	\$35,220.00
36	522	5		CONCRETE, 8"-12" THICK, REINFORCED (RAISED CROSSWALKS)	SY	427	\$320.00	\$136,640.00
DECORATIVE INTERSECTION - SUBTOTAL								\$171,860.00
ITEM NUMBER		PAY ITEM NUMBER		ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
LIGHTING IMPROVEMENTS								
37	630	2	11	CONDUIT, F&I	LF	4650	\$16.25	\$75,562.50
38	635	2	11	PULL & SPLICE BOX, F&I	EA	26	\$1,600.00	\$41,600.00
39	715	1	12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 6	LF	4500	\$2.50	\$11,250.00
40	715	1	14	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 1	LF	150	\$8.00	\$1,200.00
41	715	511	325	LIGHT POLE COMPLETE - F&I	EA	24	\$24,000.00	\$576,000.00
42	715	7	12	LOAD CENTER, F&I, PRIMARY VOLTAGE (LIGHTING CONTROL CABINET)	EA	1	\$20,000.00	\$20,000.00
LIGHTING IMPROVEMENTS - SUBTOTAL								\$725,612.50
ITEM NUMBER		PAY ITEM NUMBER		ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
LANDSCAPE / HARDSCAPE IMPROVEMENTS								
43	580	1	1	LANDSCAPE, SMALL PLANTS	LS	1	\$15,000.00	\$15,000.00
44	580	1	2	LANDSCAPE, LARGE PLANTS	LS	1	\$40,000.00	\$40,000.00
45	580	1	2	HARDSCAPE COMPLETE, (AMENITIES)	LS	1	\$25,000.00	\$25,000.00
46	590	70		IRRIGATION SYSTEM, COMPLETE, F&I	LS	1	\$15,000.00	\$15,000.00
LANDSCAPE / HARDSCAPE IMPROVEMENTS - SUBTOTAL								\$95,000.00
ITEM NUMBER		PAY ITEM NUMBER		ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
SIGNAL IMPROVEMENTS								
47	644	1	1	TRAFFIC SIGNAL POLE, DECORATIVE	LS	4	\$30,000.00	\$120,000.00
48	650	1	14	VEHICULAR TRAFFIC SIGNAL, F&I, 3-SECTION	LS	8	\$4,500.00	\$36,000.00
49	660	2	10	LOOP ASSEMBLY- F&I, TYPE A	LS	4	\$2,500.00	\$10,000.00
50	670	5	500	TRAFFIC CONTROLLER ASSEMBLY, RELOCATE CONTROLLER WITH CABINE	AS	1	\$8,500.00	\$8,500.00
SIGNAL IMPROVEMENTS - SUBTOTAL								\$174,500.00
20% CONTINGENCY								\$506,749.18
COMPLETE PROJECT TOTAL								\$3,040,495.07



PROJECT: D0932

Voorhis Avenue Streetscape

City of DeLand

ESTIMATED BY:	AM
DATE:	6/1/2023
CHECKED BY:	KRL

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				ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST									
PROJECT: D0932				Voorhis Avenue Streetscape City of DeLand						ESTIMATED BY: AM			
										DATE: 6/1/2023			
										CHECKED BY: KRL			
ITEM NUMBER	PAY ITEM NUMBER			ITEM DESCRIPTION			UNIT	QUANTITY	UNIT COST	TOTAL COST			
FLORIDA TO WOODLAND ROADWAY IMPROVEMENTS													
1	101	1		MOBILIZATION			LS	1	\$71,199.17	\$71,199.17			
2	102	1		MAINTENANCE OF TRAFFIC			LS	1	\$27,384.30	\$27,384.30			
3	104	1		EROSION CONTROL / STORMWATER POLLUTION PREVENTION PLAN			LS	1	\$6,778.29	\$6,778.29			
4				CONSTRUCTION LAYOUT SURVEY			LS	1	\$13,290.77	\$13,290.77			
5				AS-BUILT PLANS			LS	1	\$13,030.16	\$13,030.16			
6	104	10	3	SEDIMENT BARRIER			LF	937	\$9.43	\$8,835.91			
7	110	1	1	CLEARING & GRUBBING			AC	0.577	\$32,503.21	\$18,738.10			
8	110	4	10	REMOVAL OF EXISTING CONCRETE			SY	1164	\$47.45	\$55,231.80			
9	120	1		REGULAR EXCAVATION			CY	500	\$40.98	\$20,490.00			
10	120	6		EMBANKMENT			CY	250	\$40.72	\$10,180.00			
11	160	4		TYPE B STABILIZATION (LBR40)(12")			SY	2369	\$16.86	\$39,932.91			
12	285	706		OPTIONAL BASE GROUP 06 CRUSHED CONC. (8")			SY	1755	\$57.89	\$101,596.95			
13	334	1	13	SUPERPAVE ASPHALT CONC. TRAFFIC C, 2.0"			TN	193	\$256.45	\$49,494.85			
14	520	1	10	CONCRETE CURB & GUTTER, TYPE F			LF	1555	\$62.85	\$97,731.75			
15	520	2	1	CONCRETE CURB, TYPE A			LF	60	\$47.61	\$2,856.60			
16	520	2	5	CONCRETE CURB, RIBBON			LF	330	\$60.00	\$19,800.00			
17	522	1		CONCRETE, SIDEWALK, 4" THICK			SY	1012	\$83.55	\$84,552.60			
18	522	2		CONCRETE, DRIVEWAYS, 6" THICK			SY	650	\$103.56	\$67,314.00			
19	522	5		CONCRETE, 8"-12" THICK, REINFORCED (RAISED CROSSWALKS)			SY	190	\$320.00	\$60,800.00			
20	527	2		DETECTABLE WARNINGS			SF	287	\$27.14	\$7,789.18			
21	700	1	11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF			AS	2	\$748.11	\$1,496.22			
22	700	1	50	SINGLE POST SIGN, RELOCATE			AS	2	\$397.96	\$795.92			
23	711	11	125	THERMOPLASTIC, STD, SOLID, WHITE, 24"			LF	55	\$8.43	\$463.65			
24	711	11	224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"			LF	44	\$6.96	\$306.24			
25	711	15	101	THERMOPLASTIC, STD - OP, WHITE,SOLID,6"			GM	0.2515	\$6,145.10	\$1,545.49			
26	711	16	201	THERMOPLASTIC, STD - OP, YELLOW,SOLID,6"			GM	0.2861	\$5,438.68	\$1,556.01			
ROADWAY IMPROVEMENTS - SUBTOTAL										\$783,190.87			
ITEM NUMBER	PAY ITEM NUMBER			ITEM DESCRIPTION			UNIT	QUANTITY	UNIT COST	TOTAL COST			
LIGHTING IMPROVEMENTS													
27	630	2	11	CONDUIT, F&I			LF	2325	\$16.25	\$37,781.25			
28	635	2	11	PULL & SPLICE BOX, F&I			EA	13	\$1,600.00	\$20,800.00			
29	715	1	12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 6			LF	2250	\$2.50	\$5,625.00			
30	715	1	14	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 1			LF	75	\$8.00	\$600.00			
31	715	511	325	LIGHT POLE COMPLETE - F&I			EA	12	\$24,000.00	\$288,000.00			
32	715	7	12	LOAD CENTER, F&I, PRIMARY VOLTAGE (LIGHTING CONTROL CABINET)			EA	1	\$20,000.00	\$20,000.00			
LIGHTING IMPROVEMENTS - SUBTOTAL										\$372,806.25			
ITEM NUMBER	PAY ITEM NUMBER			ITEM DESCRIPTION			UNIT	QUANTITY	UNIT COST	TOTAL COST			
LANDSCAPE / HARDSCAPE IMPROVEMENTS													
33	580	1	1	LANDSCAPE, SMALL PLANTS			LS	1	\$7,500.00	\$7,500.00			
34	580	1	2	LANDSCAPE, LARGE PLANTS			LS	1	\$20,000.00	\$20,000.00			
35	580	1	2	HARDSCAPE COMPLETE, (AMENITIES)			LS	1	\$12,500.00	\$12,500.00			
36	590	70		IRRIGATION SYSTEM, COMPLETE, F&I			LS	1	\$7,500.00	\$7,500.00			
LANDSCAPE / HARDSCAPE IMPROVEMENTS - SUBTOTAL										\$47,500.00			
										20% CONTINGENCY		\$240,699.42	
										PROJECT TOTAL		\$1,444,196.54	