

Estep Construction, Inc.

Fax: 407-884-6904
 689 Binion Road
 Apopka, FL 32703

RECEIVED

AUG 19 2015

LAKE COUNTY
 ROAD OPERATIONS

Invoice

Date	Invoice #
8/19/2015	651

Bill To
Lake County PW Road Operations 12901 County Landfill Rd Tavares, FL 32778

CC/Ship To:
Contract #13-0607, PO #20150035 208 Dixie Ave., Fruitland Pk, 8430 Lakeshore Dr, Yalaha, CR 48, Leesburg, CR19A croospipe, Eustis Clean and Video Pipe

P.O./Contract #	Terms	Due Date	Ship Date	Ship Via	Project
20150035	Due on receipt	8/19/2015	8/19/2015		14-16/BK-BN

Item	Description	Quantity		Unit Pr...	Amount
	8430 Lakeshore Dr, Yalaha				
1	Pipe Cleaning 12" - Heavy	163	LF	3.00	489.00
1	Video Recording 12"	163	LF	1.00	163.00
	CR 48 West of Lakeshore Dr				
1	Pipe Cleaning 30" - Light	53	LF	3.00	159.00
1	Video Recording 30"	53	LF	1.00	53.00
	CR 19A Crosspipe North of CR 44				
1	Pipe Cleaning 24" - Light	41	LF	2.00	82.00
1	Video Recording 24"	41	LF	1.00	41.00
	208 Dixie Ave., Fruitland Park				
1	Pipe Cleaning 20" - Heavy [rated as 24"]	91	LF	5.00	455.00
1	Video Recording 20" [rated as 24"]	91	LF	1.00	91.00

JK 8/24/15

OK TO PAY
ESTEP CONSTRUCTION INC
 PO#: 20150035
 Acct#: 1120.5053200.830460
 Goods Recd: 8 / 17 / 15

Thank you for your business.	Total	\$1,533.00
------------------------------	--------------	------------

Balance Due	\$1,533.00
--------------------	------------

19 8/24/15 BP 8/21/2015
8-21-15
 KK 081915

Project Information

PROJECT NAME: lake county 14-16	CREATED: 2015.08.17	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

Customer: Lake County

Responsible:

Department:

Post-Office Box:

Street:

Location:

Telephone:

Telefax:

Mobile Phone:

E-Mail:

Project Leader: Robert Hersey

Responsible:

Department:

Post-Office Box:

Street:

Location:

Telephone:

Telefax:

Mobile Phone:

E-Mail:

Contractor: Estep Construction Inc

Responsible:

Department:

Post-Office Box:

Street:

Location:

Telephone:

Telefax:

Mobile Phone:

E-Mail:

Table Of Contents

PROJECT NAME: lake county 14-16	CREATED: 2015.08.17	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

Project Information	Page 1
Table Of Contents	Page 2
Section List	Page 3
Defect Grade Description	Page 4
Section: 2a - 2b	Page 5
Section: 1a - 1b (2)	Page 6
Section: 1a - 1b (3)	Page 7
Section: 1a - 1b (4)	Page 8
Section: 1a - 1b (5)	Page 10
Section: 1b - 1a	Page 11

Section List

PROJECT NAME: lake county 14-16	CREATED: 2015.08.17	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

No.	Section	City	Street	Length	Length Total	Date
3	2a - 2b		8430 lakeshore dr yalaha	75.60 ft	75.60 ft	2015.08.17
3	1a - 1b (2)		8430 lakeshore dr yalaha	86.92 ft	162.52 ft	2015.08.17
4	1a - 1b (3)		cr48 west of lakeshore	52.51 ft	215.04 ft	2015.08.17
5	1a - 1b (4)		19a 44 west	40.64 ft	255.68 ft	2015.08.17
6	1a - 1b (5)		208 dixie ave	27.42 ft	283.10 ft	2015.08.17
7	1b - 1a		208 dixie ave	63.93 ft	347.02 ft	2015.08.17
				347.02 ft	347.02 ft	

Defect Grade Description

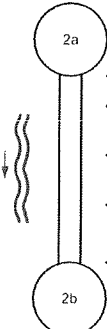
PROJECT NAME: lake county 14-16	CREATED: 2015.08.17	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

1	Excellent Condition	Minor Defects - Failure unlikely in the foreseeable future
2	Good Condition	Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.
3	Fair Condition	Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.
4	Poor Condition	Severe defects that will become grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.
5	Immediate Attention	Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.

Section Protocol

SECTION NAME: 2a - 2b	SECTION NUMBER: 3	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 2a	DOWNSTREAM MANHOLE NUMBER: 2b
MUNICIPAL:	START NODE STREET NAME: 8430 lakeshore dr yalaha
LOCATION CODE:	DIRECTION OF SURVEY: Downstream
	CALCULATED LENGTH: 75.60 ft
INSPECTION DATE: 2015.08.17	PURPOSE OF SURVEY:
WEATHER:	SEWER MATERIAL: Reinforced Plastic Pipe (Truss Pipe)
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 12
PRE-CLEANED:	SEWER SHAPE: Circular
COMMON REMARKS:	

1 : 900	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	<u>0.00 ft</u>		AEP	End of Pipe, start of pipe footage	00:00:00	
	<u>12.20 ft</u>		JSM	Joint Separated Medium, 0 ° displacement	00:00:25	
	<u>32.11 ft</u>		IW	Infiltration Weeper, at 7 o'clock	00:02:12	
	<u>52.15 ft</u>		IR	Infiltration Runner, at 11 o'clock	00:02:54	
	<u>75.60 ft</u>		ACB	Catch Basin, end of video	00:03:52	

Section Protocol

SECTION NAME 1a - 1b (2)	SECTION NUMBER: 3	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 1a	DOWNSTREAM MANHOLE NUMBER: 1b
MUNICIPAL:	START NODE STREET NAME: 8430 lakeshore dr yalaha
LOCATION CODE:	DIRECTION OF SURVEY: Downstream
	CALCULATED LENGTH: 86.92 ft
INSPECTION DATE: 2015.08.17	PURPOSE OF SURVEY:
WEATHER:	SEWER MATERIAL: Reinforced Plastic Pipe (Truss Pipe)
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 12
PRE-CLEANED:	SEWER SHAPE: Circular
COMMON REMARKS:	

1 : 650	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	<u>0.00 ft</u>		AEP	End of Pipe, start of pipe footage	00:00:01	
	<u>22.96 ft</u>		IR	Infiltration Runner, at 7 o'clock	00:01:31	
	<u>22.96 ft</u>		IW	Infiltration Weeper, at 5 o'clock	00:01:04	
	<u>42.71 ft</u>		IR	Infiltration Runner, at 5 o'clock	00:02:16	
	<u>42.74 ft</u>		JSM	Joint Separated Medium, 0 ° displacement	00:02:25	
	<u>47.30 ft</u>		RTJ	Roots Tap Joint, at 2 o'clock, 5 % of cross sectional area	00:02:40	
	<u>62.84 ft</u>		IW	Infiltration Weeper, at 7 o'clock	00:03:57	
	<u>86.92 ft</u>		ACB	Catch Basin	00:05:05	

Section Protocol

SECTION NAME: 1a - 1b (3)	SECTION NUMBER: 4	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 1a	DOWNSTREAM MANHOLE NUMBER: 1b	
MUNICIPAL:	START NODE STREET NAME: cr48 west of lakeshore	
LOCATION CODE:	DIRECTION OF SURVEY: Downstream	CALCULATED LENGTH: 52.51 ft
INSPECTION DATE: 2015.08.17	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Reinforced concrete pipe	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 30	
PRE-CLEANED:	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 1600	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	1a		AEP	End of Pipe, start of pipe footage	00:00:00	
		0.00 ft				
		52.51 ft	AEP	End of Pipe, end of video	00:02:57	

Section Protocol

SECTION NAME: 1a - 1b (4)	SECTION NUMBER: 5	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 1a	DOWNSTREAM MANHOLE NUMBER: 1b
MUNICIPAL:	START NODE STREET NAME: 19a 44 west
LOCATION CODE:	DIRECTION OF SURVEY: Upstream
	CALCULATED LENGTH: 40.64 ft
INSPECTION DATE: 2015.08.17	PURPOSE OF SURVEY:
WEATHER:	SEWER MATERIAL: Reinforced concrete pipe
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 24
PRE-CLEANED: Jetting	SEWER SHAPE: Circular
COMMON REMARKS:	

1 : 100 POSITION DG CODE OBSERVATION VIDEO POS PHOTO

	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
1b	0.00 ft		AEP	End of Pipe, start of pipe footage	00:00:00	
	3.08 ft		JSL	Joint Separated Large, 0 ° displacement	00:01:19	
	3.08 ft		HVV	Hole Void Visible, from 1 o'clock, to 11 o'clock	00:01:27	
	3.08 ft		JOL	Joint Offset Large, 0 ° displacement	00:01:19	
	6.46 ft		JOM	Joint Offset Medium, 0 ° displacement	00:01:55	
	15.19 ft		JOM	Joint Offset Medium, 0 ° displacement	00:03:24	
	18.50 ft		JSM	Joint Separated Medium, 0 ° displacement	00:03:54	
	18.50 ft		JOM	Joint Offset Medium, 0 ° displacement	00:03:53	
	21.52 ft		JOM	Joint Offset Medium, 0 ° displacement	00:04:21	
	24.60 ft		JSL	Joint Separated Large, 0 ° displacement	00:04:47	
	24.60 ft		JOM	Joint Offset Medium, 0 ° displacement	00:04:47	
	27.62 ft		JOL	Joint Offset Large, 0 ° displacement	00:05:10	
	27.62 ft		JSL	Joint Separated Large, 0 ° displacement	00:05:10	
	30.80 ft		JSL	Joint Separated Large, 0 ° displacement	00:05:56	

Section Protocol

SECTION NAME: 1a - 1b (4)	SECTION NUMBER: 5	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

	30.80 ft	JOL	Joint Offset Large, 0 ° displacement	00:05:56
	30.80 ft	HVV	Hole Void Visible, at 7 o'clock	00:05:44
	30.80 ft	HSV	Hole Soil Visible, at 7 o'clock	00:05:35
	<u>33.32 ft</u>	JOL	Joint Offset Large, 0 ° displacement	00:06:19
	<u>33.32 ft</u>	JSL	Joint Separated Large, 0 ° displacement	00:06:19
	<u>37.10 ft</u>	JOL	Joint Offset Large, 0 ° displacement	00:07:18
	<u>37.10 ft</u>	JSL	Joint Separated Large, 0 ° displacement	00:07:19
	40.64 ft	AEP	End of Pipe, end of video	00:07:49

Section Protocol

SECTION NAME: 1a - 1b (5)	SECTION NUMBER: 6	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 1a	DOWNSTREAM MANHOLE NUMBER: 1b	
MUNICIPAL:	START NODE STREET NAME: 208 dixie ave	
LOCATION CODE:	DIRECTION OF SURVEY: Upstream	CALCULATED LENGTH: 27.42 ft
INSPECTION DATE: 2015.08.17	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Reinforced Plastic Pipe (Truss Pipe)	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 20	
PRE-CLEANED:	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 400	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	0.00 ft		AEP	End of Pipe, start of pipe footage	00:00:00	
	13.12 ft		JSM	Joint Separated Medium, 0 ° displacement	00:00:57	
	26.37 ft		D	Deformed, 5 % changed	00:02:03	
	27.42 ft		MGO	Reversal Inspection, deformed pipe	00:02:53	

Section Protocol

SECTION NAME: 1b - 1a	SECTION NUMBER: 7	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: Robert Hersey	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 1b	DOWNSTREAM MANHOLE NUMBER: 1a	
MUNICIPAL:	START NODE STREET NAME: 208 dixie ave	
LOCATION CODE:	DIRECTION OF SURVEY: Downstream	CALCULATED LENGTH: 63.93 ft
INSPECTION DATE: 2015.08.17	PURPOSE OF SURVEY:	
WEATHER:	SEWER MATERIAL: Reinforced Plastic Pipe (Truss Pipe)	
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 20	
PRE-CLEANED:	SEWER SHAPE: Circular	
COMMON REMARKS:		

1 : 650	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	1b					
	0.00 ft		MGO	Reversal Inspection	00:00:00	
	0.00 ft		AEP	End of Pipe, start of pipe footage	00:00:01	
	25.29 ft		JOL	Joint Offset Large, 0 ° displacement	00:01:46	
	62.88 ft		JOL	Joint Offset Large, 0 ° displacement	00:04:01	
	63.93 ft		MGO	Reversal Inspection, end of video	00:04:30	
	63.93 ft		AEP	End of Pipe, end of video	00:04:30	
1a						