

Estep Construction, Inc.

820 S Duncan Drive
Tavares, FL 32778

RECEIVED

FEB - 1 2017

LAKE COUNTY
ROAD OPERATIONS

Invoice

Date	Invoice #
2/1/2017	867

Bill To
Lake County PW 12901 County Landfill Rd PO Box 7800 Tavares, FL 32778

CC/Ship To:
Contract #13-0607 mod 4 PO #20170178 12826 - 12848 LAKESHORE DR Clean & Video

P.O./Contract #	Terms	Due Date	Ship Date	Ship Via	Project
20170178	Due on receipt	2/1/2017	2/1/2017		16-17/C

Item	Description	Quantity		Unit Pr...	Amount
	12826 - 12848 Lakeshore Dr				
1	Pipe Cleaning - 18" Heavy [14"x19"]	64	LF	4.50	288.00
1	Pipe Cleaning - 24" Heavy [19"x30"]	150	LF	5.00	750.00
1	Video Recording	214	LF	1.00	214.00

JK 2/9/2017

OK TO PAY - FY 16/17

PO#: 20170178
Acct#: 1120.5053200. 830460
Goods Recd: 1/30/17

KV 02-01-17
JK 2/9/17

Thank you for your business.	Total	\$1,252.00
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RCB 2-8-17

Balance Due	\$1,252.00
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LAKE COUNTY
FLORIDA

Date: 1-12-2017

Estep Construction, Inc.
689 S. Binion Road, Apopka, FL 32703

Subject: Project Order Form
Contract No. 13-0607, Storm Water Pipe/Water Quality Unit
Cleaning, Video Recording and Related Services
Purchase Order No. 20150035

Dear Estep Construction:
Please find below a request for services under the Storm Water Pipe/Water Quality Unit Cleaning, Video Recording and Related Services Contract No. 13-0607. A description of the requested services and project specific information is listed below.

Any questions or discrepancies regarding the pipe size, length or amount of blockage must be addressed and agreed upon between the Contractor and the Project Manager prior to performing any work. Any work performed without agreement by all parties shall be paid in accordance with the terms and conditions of the Contract. Invoices should be sent to 12901 County Landfill Road, Tavares, FL 32778.

Pursuant to the Contract, all work shall begin within fourteen (14) calendar days from receipt of this notice. Please make sure to contact our office regarding the scheduling of this work.

PIPE LOCATION: Road Number: 1040 Segment Number: 2-1040-65

Road Name: Lakeshore Dr. Address: 12826 to 12848 Lakeshore Drive, Clermont

Section: 31 Township: 22 Range: 26 Closest City: Clermont

PIPE SPECIFICATIONS:

Diameter: 14"X19" & 19"X30" Length: 203' LF Number of Manholes/Inlets: four (4)

Percentage of Blockage: 10% or less 11% - 30% above 30% X

WORK DESCRIPTION:

Two sections of pipe between address to be cleaned and videoed. One section starts at Sunset Av. and goes to
mitered end aprox. 45'LF. Other section (158'LF) start twenty yards past first section at box and goes to mitered
end. This section may have a french drain system involved. We would like to be on site for the work.

Work Completed and OK to PAY:	<u>2/8/2017</u> Invoice #	<u>867</u>
	Robert Baker	<u>2/8/2017</u>
	Inspected by	Date



LAKE COUNTY FLORIDA

Date: 1-12-2017

Estep Construction, Inc.
689 S. Binion Road, Apopka, FL 32703

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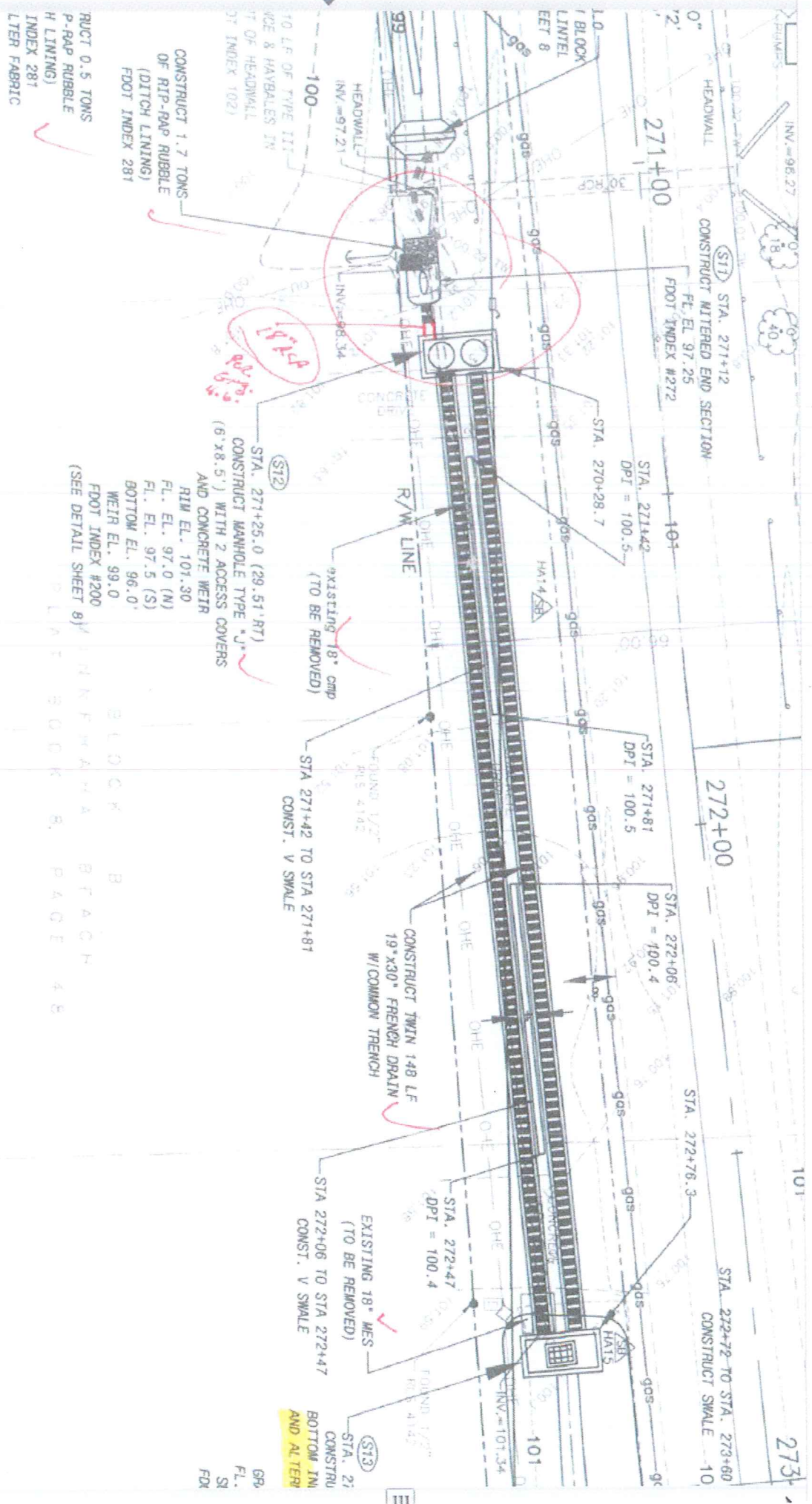
Percentage of Blockage: 10% or less 11% - 30% above 30%

WORK DESCRIPTION:

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Work Completed and OK to PAY: _____	Invoice # _____
Inspected by _____	Date _____

BP
1/12



CONSTRUCT ALTERED END SECTION
 STA. 271+12
 FT. EL. 97.25
 FOOT INDEX #272

272+00

STA. 272+72 TO STA. 273+60
 CONSTRUCT SWALE

CONSTRUCT 1.7 TONS
 OF RIP-RAP RUBBLE
 (DITCH LINING)
 FOOT INDEX 281

CONSTRUCT 0.5 TONS
 P-RAP RUBBLE
 H LINING)
 INDEX 281
 LTER FABRIC

STA. 271+25.0 (29.51' RT)
 CONSTRUCT MANHOLE TYPE "J"
 (6' x 8.5') WITH 2 ACCESS COVERS
 AND CONCRETE WEIR
 RIM EL. 101.30
 FL. EL. 97.0 (N)
 FL. EL. 97.5 (S)
 BOTTOM EL. 96.0'
 WEIR EL. 99.0

FOOT INDEX #200
 (SEE DETAIL SHEET 8)

STA. 271+42 TO STA. 271+81
 CONST. V SWALE

CONSTRUCT TWIN 148 LF
 19" X 30" FRENCH DRAIN
 W/ COMMON TRENCH

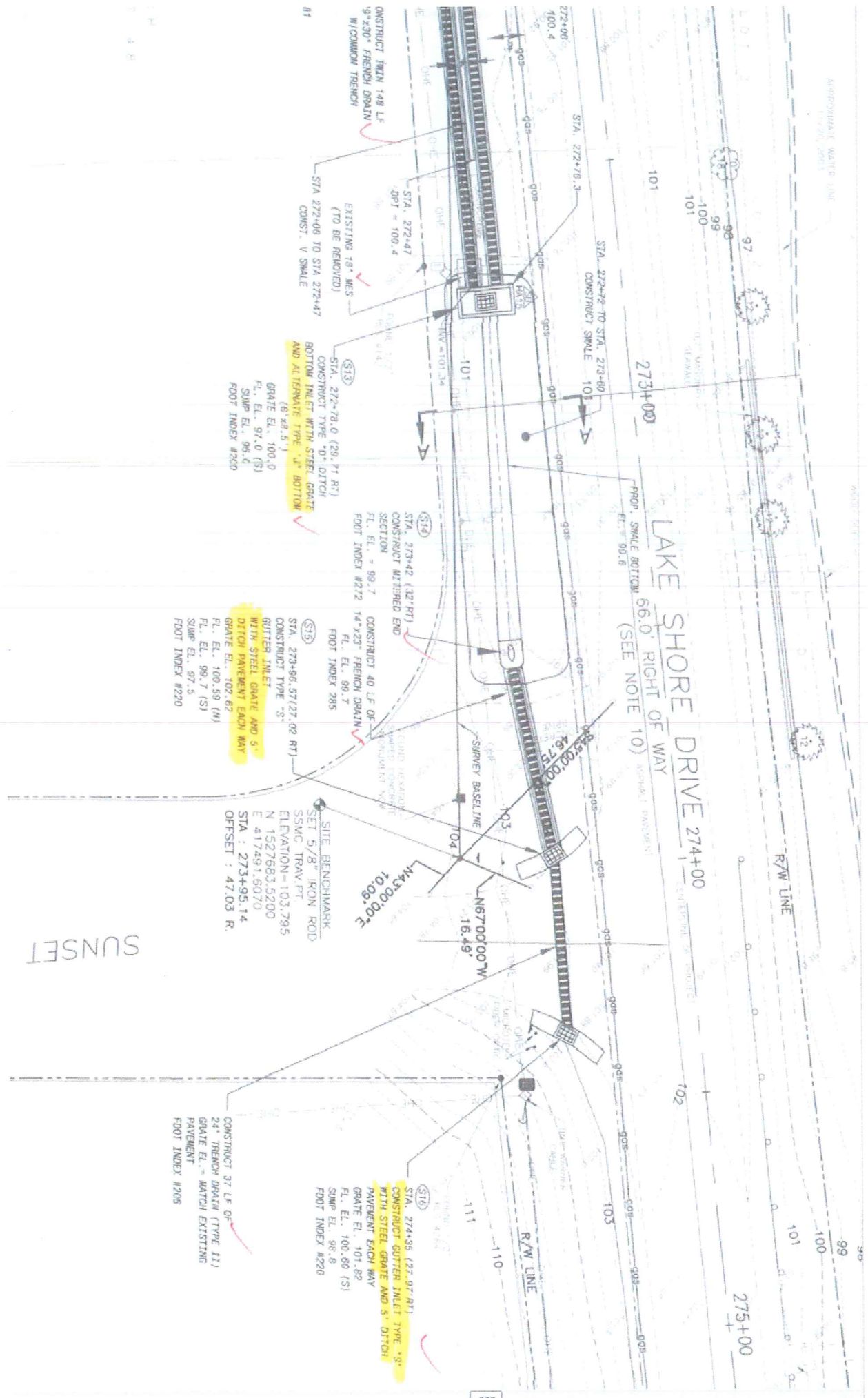
STA. 272+06 TO STA. 272+47
 CONST. V SWALE

EXISTING 18" MES
 (TO BE REMOVED)

CONSTRU
 BOTTOM INI
 AND ALTER

BLOCK B
 IN PHA
 B FACH
 PLAT BOOK B. PAGE 48

GR
 FL.
 SI
 FDI



LAKE SHORE DRIVE 274+00

PROP. SMALL BOTTOM 66.0' RIGHT OF WAY (SEE NOTE 10)

CONSTRUCT 148 LF
9" x 20" FRENCH DRAIN
W/COMMON TRENCH

EXISTING 18" MES
(TO BE REMOVED)
CONSTR. V SMALE

STA. 272+06 TO STA. 272+47
CONSTRUCT SMALE 101

STA. 272+78.0 (29.71 RT)
CONSTRUCT TYPE "10" DITCH
BOTTOM INLET WITH STEEL GRATE
AND ALTERNATE TYPE "J" BOTTOM

GRATE EL. 100.0
P.L. EL. 97.0 (SI)
SUMP EL. 95.0
FOOT INDEX #260

STA. 273+42 (32' RT)
CONSTRUCT MITERED END
SECTION
FL. EL. = 99.7
FOOT INDEX #272

CONSTRUCT 40 LF OF
14" x 23" FRENCH DRAIN
FL. EL. 99.7
FOOT INDEX 285

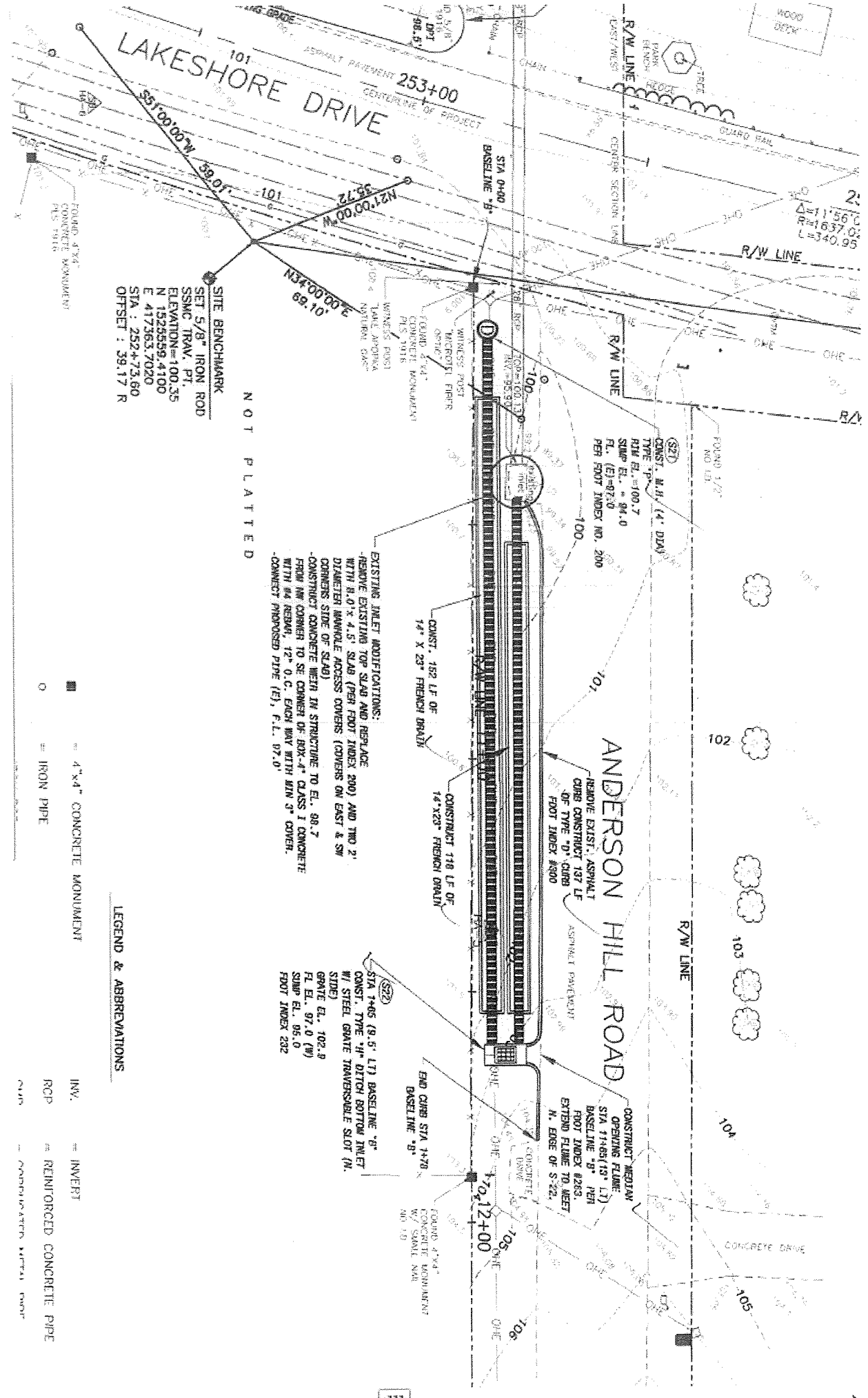
STA. 273+96.57 (27.02 RT)
CONSTRUCT TYPE "S"
GUTTER INLET
WITH STEEL GRATE AND 5"
DITCH PAVEMENT EACH WAY
GRATE EL. 102.62
FL. EL. 100.59 (W)
SUMP EL. 99.7 (S)
FOOT INDEX #220

SITE BENCHMARK
SET 5/8" IRON ROD
SSMC TRAV. PT.
ELEVATION = 103.795
N 1527683.5200
E 4174971.6070
STA : 273+95.14
OFFSET : 47.03 R.

CONSTRUCT 37 LF OF
24" TRENCH GRATE (TYPE 11)
GRATE EL. = MATCH EXISTING
PAVEMENT
FOOT INDEX #208

STA. 274+35 (27.97 RT)
CONSTRUCT GUTTER INLET TYPE "S"
WITH STEEL GRATE AND 5" DITCH
PAVEMENT EACH WAY
GRATE EL. 101.82
FL. EL. 100.60 (SI)
SUMP EL. 98.8
FOOT INDEX #220

SUNSET



SITE BENCHMARK
 SET 5/8" IRON ROD
 SSMC TRAV. PT.
 ELEVATION=100.35
 N 152355.4100
 E 417363.7020
 STA : 252+73.60
 OFFSET : 39.17 R

NOT PLATTED

EXISTING INLET MODIFICATIONS:
 -REMOVE EXISTING TOP SLAB AND REPLACE WITH 8.0' x 4.5' SLAB (PER FOOT INDEX 200) AND TWO 2" DIAMETER MANHOLE ACCESS COVERS (COVERS ON EAST & SW CORNERS SIDE OF SLAB)
 -CONSTRUCT CONCRETE WEIR IN STRUCTURE TO EL. 98.7 FROM NW CORNER TO SE CORNER OF 30X-4" CLASS 1 CONCRETE WITH #4 REBAR, 12" O.C. EACH WAY WITH MIN 3" COVER.
 -CONNECT PROPOSED PIPE (E), F.L. 97.0'

STA 1+06 (9.5' LT) BASELINE "B"
 CONST. TYPE "H" DITCH BOTTOM INLET W/ STEEL GRATE TRANSVERSABLE SLOT (N. SIDE)
 GRATE EL. 102.8
 FL EL. 97.0 (W)
 SUMP EL. 95.0
 FOOT INDEX 232

■ 4"x4" CONCRETE MONUMENT
 ○ IRON PIPE

LEGEND & ABBREVIATIONS

INV. = INVERT
 RCP = REINFORCED CONCRETE PIPE
 M.H. = MANHOLE
 M.H. = MANHOLE

Pipe Size	MINIMUM COVER (IN. MIN.)		MINIMUM COVER (IN. MIN.)	
	Street	Suburban	Rural	Highway
12"	18"	18"	18"	18"
15"	24"	24"	24"	24"
18"	30"	30"	30"	30"
21"	36"	36"	36"	36"
24"	42"	42"	42"	42"
27"	48"	48"	48"	48"
30"	54"	54"	54"	54"
36"	66"	66"	66"	66"
42"	78"	78"	78"	78"
48"	90"	90"	90"	90"
54"	102"	102"	102"	102"
60"	114"	114"	114"	114"
66"	126"	126"	126"	126"
72"	138"	138"	138"	138"
78"	150"	150"	150"	150"
84"	162"	162"	162"	162"
90"	174"	174"	174"	174"
96"	186"	186"	186"	186"
102"	198"	198"	198"	198"
108"	210"	210"	210"	210"
114"	222"	222"	222"	222"
120"	234"	234"	234"	234"
126"	246"	246"	246"	246"
132"	258"	258"	258"	258"
138"	270"	270"	270"	270"
144"	282"	282"	282"	282"
150"	294"	294"	294"	294"
156"	306"	306"	306"	306"
162"	318"	318"	318"	318"
168"	330"	330"	330"	330"
174"	342"	342"	342"	342"
180"	354"	354"	354"	354"
186"	366"	366"	366"	366"
192"	378"	378"	378"	378"
198"	390"	390"	390"	390"
204"	402"	402"	402"	402"
210"	414"	414"	414"	414"
216"	426"	426"	426"	426"
222"	438"	438"	438"	438"
228"	450"	450"	450"	450"
234"	462"	462"	462"	462"
240"	474"	474"	474"	474"
246"	486"	486"	486"	486"
252"	498"	498"	498"	498"
258"	510"	510"	510"	510"
264"	522"	522"	522"	522"
270"	534"	534"	534"	534"
276"	546"	546"	546"	546"
282"	558"	558"	558"	558"
288"	570"	570"	570"	570"
294"	582"	582"	582"	582"
300"	594"	594"	594"	594"
306"	606"	606"	606"	606"
312"	618"	618"	618"	618"
318"	630"	630"	630"	630"
324"	642"	642"	642"	642"
330"	654"	654"	654"	654"
336"	666"	666"	666"	666"
342"	678"	678"	678"	678"
348"	690"	690"	690"	690"
354"	702"	702"	702"	702"
360"	714"	714"	714"	714"
366"	726"	726"	726"	726"
372"	738"	738"	738"	738"
378"	750"	750"	750"	750"
384"	762"	762"	762"	762"
390"	774"	774"	774"	774"
396"	786"	786"	786"	786"
402"	798"	798"	798"	798"
408"	810"	810"	810"	810"
414"	822"	822"	822"	822"
420"	834"	834"	834"	834"
426"	846"	846"	846"	846"
432"	858"	858"	858"	858"
438"	870"	870"	870"	870"
444"	882"	882"	882"	882"
450"	894"	894"	894"	894"
456"	906"	906"	906"	906"
462"	918"	918"	918"	918"
468"	930"	930"	930"	930"
474"	942"	942"	942"	942"
480"	954"	954"	954"	954"
486"	966"	966"	966"	966"
492"	978"	978"	978"	978"
498"	990"	990"	990"	990"
504"	1002"	1002"	1002"	1002"
510"	1014"	1014"	1014"	1014"
516"	1026"	1026"	1026"	1026"
522"	1038"	1038"	1038"	1038"
528"	1050"	1050"	1050"	1050"
534"	1062"	1062"	1062"	1062"
540"	1074"	1074"	1074"	1074"
546"	1086"	1086"	1086"	1086"
552"	1098"	1098"	1098"	1098"
558"	1110"	1110"	1110"	1110"
564"	1122"	1122"	1122"	1122"
570"	1134"	1134"	1134"	1134"
576"	1146"	1146"	1146"	1146"
582"	1158"	1158"	1158"	1158"
588"	1170"	1170"	1170"	1170"
594"	1182"	1182"	1182"	1182"
600"	1194"	1194"	1194"	1194"
606"	1206"	1206"	1206"	1206"
612"	1218"	1218"	1218"	1218"
618"	1230"	1230"	1230"	1230"
624"	1242"	1242"	1242"	1242"
630"	1254"	1254"	1254"	1254"
636"	1266"	1266"	1266"	1266"
642"	1278"	1278"	1278"	1278"
648"	1290"	1290"	1290"	1290"
654"	1302"	1302"	1302"	1302"
660"	1314"	1314"	1314"	1314"
666"	1326"	1326"	1326"	1326"
672"	1338"	1338"	1338"	1338"
678"	1350"	1350"	1350"	1350"
684"	1362"	1362"	1362"	1362"
690"	1374"	1374"	1374"	1374"
696"	1386"	1386"	1386"	1386"
702"	1398"	1398"	1398"	1398"
708"	1410"	1410"	1410"	1410"
714"	1422"	1422"	1422"	1422"
720"	1434"	1434"	1434"	1434"
726"	1446"	1446"	1446"	1446"
732"	1458"	1458"	1458"	1458"
738"	1470"	1470"	1470"	1470"
744"	1482"	1482"	1482"	1482"
750"	1494"	1494"	1494"	1494"
756"	1506"	1506"	1506"	1506"
762"	1518"	1518"	1518"	1518"
768"	1530"	1530"	1530"	1530"
774"	1542"	1542"	1542"	1542"
780"	1554"	1554"	1554"	1554"
786"	1566"	1566"	1566"	1566"
792"	1578"	1578"	1578"	1578"
798"	1590"	1590"	1590"	1590"
804"	1602"	1602"	1602"	1602"
810"	1614"	1614"	1614"	1614"
816"	1626"	1626"	1626"	1626"
822"	1638"	1638"	1638"	1638"
828"	1650"	1650"	1650"	1650"
834"	1662"	1662"	1662"	1662"
840"	1674"	1674"	1674"	1674"
846"	1686"	1686"	1686"	1686"
852"	1698"	1698"	1698"	1698"
858"	1710"	1710"	1710"	1710"
864"	1722"	1722"	1722"	1722"
870"	1734"	1734"	1734"	1734"
876"	1746"	1746"	1746"	1746"
882"	1758"	1758"	1758"	1758"
888"	1770"	1770"	1770"	1770"
894"	1782"	1782"	1782"	1782"
900"	1794"	1794"	1794"	1794"
906"	1806"	1806"	1806"	1806"
912"	1818"	1818"	1818"	1818"
918"	1830"	1830"	1830"	1830"
924"	1842"	1842"	1842"	1842"
930"	1854"	1854"	1854"	1854"
936"	1866"	1866"	1866"	1866"
942"	1878"	1878"	1878"	1878"
948"	1890"	1890"	1890"	1890"
954"	1902"	1902"	1902"	1902"
960"	1914"	1914"	1914"	1914"
966"	1926"	1926"	1926"	1926"
972"	1938"	1938"	1938"	1938"
978"	1950"	1950"	1950"	1950"
984"	1962"	1962"	1962"	1962"
990"	1974"	1974"	1974"	1974"
996"	1986"	1986"	1986"	1986"
1002"	1998"	1998"	1998"	1998"
1008"	2010"	2010"	2010"	2010"
1014"	2022"	2022"	2022"	2022"
1020"	2034"	2034"	2034"	2034"
1026"	2046"	2046"	2046"	2046"
1032"	2058"	2058"	2058"	2058"
1038"	2070"	2070"	2070"	2070"
1044"	2082"	2082"	2082"	2082"
1050"	2094"	2094"	2094"	2094"
1056"	2106"	2106"	2106"	2106"
1062"	2118"	2118"	2118"	2118"
1068"	2130"	2130"	2130"	2130"
1074"	2142"	2142"	2142"	2142"
1080"	2154"	2154"	2154"	2154"
1086"	2166"	2166"	2166"	2166"
1092"	2178"	2178"	2178"	2178"
1098"	2190"	2190"	2190"	2190"
1104"	2202"	2202"	2202"	2202"
1110"	2214"	2214"	2214"	2214"
1116"	2226"	2226"	2226"	2226"
1122"	2238"	2238"	2238"	2238"
1128"	2250"	2250"	2250"	2250"
1134"	2262"	2262"	2262"	2262"
1140"	2274"	2274"	2274"	2274"
1146"	2286"	2286"	2286"	2286"
1152"	2298"	2298"	2298"	2298"
1158"	2310"	2310"	2310"	2310"
1164"	2322"	2322"	2322"	2322"
1170"	2334"	2334"	2334"	2334"
1176"	2346"	2346"	2346"	2346"
1182"	2358"	2358"	2358"	2358"
1188"	2370"	2370"	2370"	2370"
1194"	2382"	2382"	2382"	2382"
1200"	2394"	2394"	2394"	2394"
1206"	2406"	2406"	2406"	2406"
1212"	2418"	2418"	2418"	2418"
1218"	2430"	2430"	2430"	2430"
1224"	2442"	2442"	2442"	2442"
1230"	2454"	2454"	2454"	2454"
1236"	2466"	2466"	2466"	2466"
1242"	2478"	2478"	2478"	2478"
1248"	2490"	2490"	2490"	2490"
1254"	2502"	2502"	2502"	2502"
1260"	2514"	2514"	2514"	2514"
1266"	2526"	2526"	2526"	2526"
1272"	2538"	2538"	2538"	2538"
1278"	2550"	2550"	2550"	2550"
1284"	2562"	2562"	2562"	2562"
1290"	2574"	2574"	2574"	2574"
1296"	2586"	2586"	2586"	2586"
1302"	2598"	2598"	2598"	2598"
1308"	2610"	2610"	2610"	2610"
1314"	2622"	2622"	2622"	2622"
1320"	2634"	2634"	2634"	2634"
1326"	2646"	2646"	2646"	2646"
1332"	2658"	2658"	2658"	2658"
1338"	2670"	2670"	2670"	2670



01.11.2017 13:04



01:11:2017 12:57

12848A -> 12826B

2017-01-27 15 24 23

-7.97 %
147.87 ft

Project Information

PROJECT NAME: 16-17/C	CREATED: 2017.01.27	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

Customer: Lake County

Responsible:

Department:

Post-Office Box:

Street:

Location:

Telephone:

Telefax:

Mobile Phone:

E-Mail:

Project Leader: James Rash

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:

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PROJECT NAME: 16-17/C	CREATED: 2017.01.27	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

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Section: 12848C - 12848B	Page 7

Section List

PROJECT NAME: 16-17/C	CREATED: 2017.01.27	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

No.	Section	City	Street	Length	Length Total	Date
1	12826B - 12826A		Lakeshore Dr.	16.04 ft	16.04 ft	2017.01.27
2	12848A - 12826B		Lakeshore Dr.	150.32 ft	166.36 ft	2017.01.27
3	12848C - 12848B		Lakeshore Dr.	48.38 ft	214.74 ft	2017.01.30
				214.74 ft	214.74 ft	

Defect Grade Description

PROJECT NAME: 16-17/C	CREATED: 2017.01.27	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	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: 12826B - 12826A	SECTION NUMBER: 1	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 12826B	DOWNSTREAM MANHOLE NUMBER: 12826A
MUNICIPAL:	START NODE STREET NAME: Lakeshore Dr.
LOCATION CODE:	DIRECTION OF SURVEY: Upstream
INSPECTION DATE: 2017.01.27	CALCULATED LENGTH: 16.04 ft
WEATHER:	PURPOSE OF SURVEY:
LINING METHOD:	SEWER MATERIAL: Reinforced concrete pipe
PRE-CLEANED:	SEWER DIAMETER OR HEIGHT: 14
	SEWER SHAPE: Oval or Elliptical
COMMON REMARKS:	

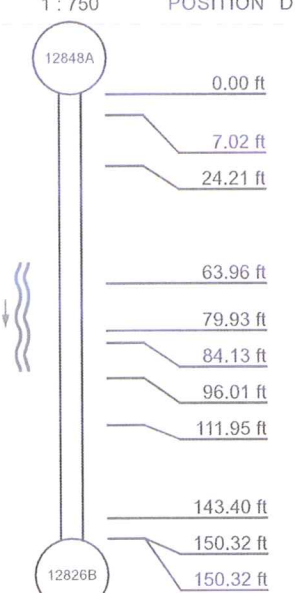
1 : 300	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	12826A		AEP	End of Pipe, 12826A	00:00:03	
	0.75 ft		MGO	General Observation, Purforation	00:00:55	0000
	16.04 ft		AMH	Manhole, 12826B	00:02:17	

outfall to WQ unit

Section Protocol

SECTION NAME: 12848A - 12826B	SECTION NUMBER: 2	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 12848A	DOWNSTREAM MANHOLE NUMBER: 12826B
MUNICIPAL:	START NODE STREET NAME: Lakeshore Dr.
LOCATION CODE:	DIRECTION OF SURVEY: Downstream
INSPECTION DATE: 2017.01.27	CALCULATED LENGTH: 150.32 ft
WEATHER:	PURPOSE OF SURVEY:
LINING METHOD:	SEWER MATERIAL: Reinforced concrete pipe
PRE-CLEANED:	SEWER DIAMETER OR HEIGHT: 19
	SEWER SHAPE: Oval or Elliptical
COMMON REMARKS:	

1 : 750	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	0.00 ft		ACB	Catch Basin, 12848A. Bottom of structure not even with pipe, starting inside pipe.	00:00:08	
	7.02 ft		MGO	General Observation, Purforation cuts through pipe.	00:00:27	0000
	24.21 ft		B	Broken, at 12 o'clock, within 8 inch	00:01:41	0001
	63.96 ft		B	Broken, at 1 o'clock, within 8 inch	00:04:11	0003
	79.93 ft		RFJ	Roots Fine Joint, at 5 o'clock, within 8 inch	00:05:08	0002
	84.13 ft		RFJ	Roots Fine Joint, at 7 o'clock	00:05:27	0004
	96.01 ft		B	Broken, at 11 o'clock, within 8 inch	00:06:07	0005
	111.95 ft		B	Broken, at 1 o'clock, within 8 inch	00:07:17	0006
	143.40 ft		B	Broken, at 1 o'clock, within 8 inch	00:09:28	0007
	150.32 ft		AMH	Manhole, 12826B	00:10:07	
	150.32 ft		MGO	General Observation, This manhole lid has been covered over by driveway pavers.	00:10:08	0008

Section Protocol

SECTION NAME: 12848C - 12848B	SECTION NUMBER: 3	CATALOG NAME: NASSCO PACP-4
CUSTOMER: Lake County	PROJECT LEADER: James Rash	CONTRACTOR: Estep Construction Inc

UPSTREAM MANHOLE NUMBER: 12848C	DOWNSTREAM MANHOLE NUMBER: 12848B
MUNICIPAL:	START NODE STREET NAME: Lakeshore Dr.
LOCATION CODE:	DIRECTION OF SURVEY: Upstream
	CALCULATED LENGTH: 48.38 ft
INSPECTION DATE: 2017.01.30	PURPOSE OF SURVEY:
WEATHER:	SEWER MATERIAL: Reinforced concrete pipe
LINING METHOD:	SEWER DIAMETER OR HEIGHT: 14
PRE-CLEANED:	SEWER SHAPE: Oval or Elliptical
COMMON REMARKS:	

1 : 350	POSITION	DG	CODE	OBSERVATION	VIDEO POS	PHOTO
	0.00 ft		AEP	End of Pipe, 12848B	00:00:03	
	6.46 ft		RFJ	Roots Fine Joint, from 4 o'clock, to 7 o'clock, within 8 inch	00:00:21	0000
	9.25 ft		MGO	General Observation, Purforation cuts through pipe.	00:00:54	0001
	11.74 ft		RFB	Roots Fine Barrell, at 4 o'clock, Start	00:01:05	0002, 0003
	25.91 ft		RFB	Roots Fine Barrell, at 4 o'clock, Finish	00:02:35	0004
	32.57 ft		RFJ	Roots Fine Joint, at 3 o'clock, within 8 inch	00:03:01	0005, 0006
	37.98 ft		RFJ	Roots Fine Joint, at 4 o'clock, within 8 inch	00:03:22	0007
	48.38 ft		ACB	Catch Basin, 12848C	00:04:27	

