The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

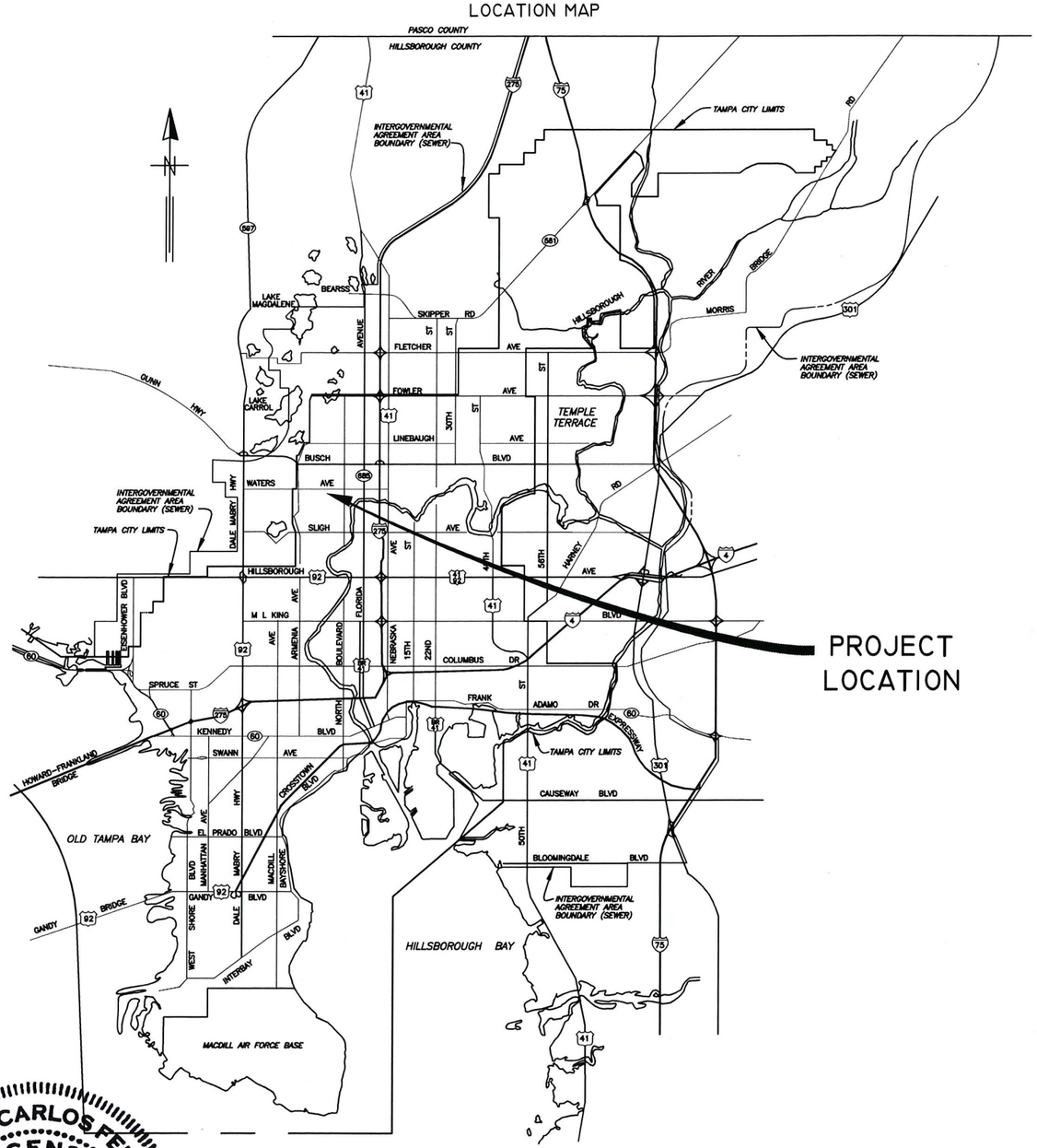
MailTo:ContractAdministration@TampaGov.net

Please Let Us Know If You Plan To Bid

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

B079-001

LOCATION MAP



CITY of TAMPA

CITY OF TAMPA FLORIDA
MASCOTTE
ORGANIZED JULY 15 1887

WASTEWATER DEPARTMENT

PLANS FOR

CONTRACT No.

14-C-00002

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION

JACINTO CARLOS FERRAS
LICENSE
No 49454
STATE OF FLORIDA
PROFESSIONAL ENGINEER

12/9/13

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION CHIEF
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
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DES: CLB
DRN: GAP
CKD:
DATE: 9/19/13

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
COVER SHEET

W.O. 5969
SHEET 01 OF 32

User: ssh5 Drawing Name: K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\General\Cover.dwg
Layout- Dec 04, 2013 - 1:27pm CTB - WW-TOSHIBA.CTB

B079-002

GENERAL NOTES

1. THE SCOPE OF THIS PROJECT SHALL CONSIST OF REHABILITATION OF 8" and 10" DIA WASTEWATER PIPELINE BY INSTALLATION OF CURED IN PLACE PIPE LINER AND ALL APPURTENANCE ASSOCIATED WITH COMPLETION OF THE PROJECT.
2. SHEETS 04–32 ARE THE EXISTING RECORD DRAWINGS OF THE SEWER PIPE TO BE REHABILITATED.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING THE NECESSARY ROAD CLOSURE AND RIGHT–OF–WAY PERMITS FROM THE APPROPRIATE GOVERNMENT AGENCIES HAVING JURISDICTION OVER THE SPECIFIC ROADWAYS. THE TABLE ON THIS SHEET, LISTS THE CONTACT NAMES AND PHONE NUMBERS FOR THE AGENCIES WITH JURISDICTION OVER THE VARIOUS LOCATIONS THROUGHOUT THIS PROJECT.
4. IN ORDER TO OBTAIN ROADWAY CLOSURE OR RIGHT–OF WAY PERMITS, AT MINIMUM, THE CONTRACTOR MUST SUBMIT DETAILED MAINTENANCE OF TRAFFIC (MOT) PLANS ALONG WITH APPLICATIONS TO THE APPROPRIATE AGENCY. THE MOT(S) SHALL CONFORM TO APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) INDEX DRAWINGS (MOST CURRENT EDITION). THE GOVERNING AGENCIES MAY REQUIRE ADDITIONAL INFORMATION AND DICTATE SPECIFIC WORK TIMES DURING NON–PEAK TRAFFIC HOURS. REFER TO SPECIFIC PROVISIONS FOR SPECIFIC TRAFFIC CONTROL REQUIREMENTS.
5. BYPASS PUMPS SHALL BE CAPABLE OF DELIVERING 1000 GPM. THE BYPASS PUMPS SHALL BE OF THE SELF PRIMING QUITE FLOW TYPE PUMP. BYPASS PUMP NOISE SHALL STRICTLY COMPLY TO ALL LOCAL REGULATIONS AND ORDINANCES COVERING NOISE CONTROL. THIS MAY REQUIRE CONSTRUCTING SOUND ATTENUATING ENCLOSURE AROUND PUMPS.
6. THE PROPOSED LINER THICKNESS FOR THE 8" SEWER SHALL BE 6.0 MM THICKNESS AND 10" SEWER SHALL BE 7.5 MM THICKNESS.
7. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING, SPRINKLER SYSTEM PIPING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.
8. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH WASTEWATER PERSONNEL AND PUMPING STATION OPERATIONS.
9. OSHA STANDARD EQUIPMENT SUCH AS SAFETY HARNESSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.

TRAFFIC OPERATIONS - CONTACTS NAMES			
Location	**(Jurisdiction)**	**Contact Name**	**Phone Number**
North Blvd.,Forest Hills Dr., Oregan Cir. and including all other streets not mentioned	(City of Tampa)	David Houseman	274-5656
Armenia Ave.	(County)	Amos Castillo	628-5025

Index	
Sheet Number	Description
GENERAL	
01	COVER SHEET
02	NOTE AND INDEX
PROJECT PLANS	
03	Proposed Plan
PROJECT DETAILS	
04	Asbuilt 092–004 Newport Circle
05	Asbuilt 092–004 Bogie Drive
06	Asbuilt 092–005 Cliff Circle
07	Asbuilt 092–006 Newport Circle
08	Asbuilt 092–007 Oregon Ave
09	Asbuilt 092–008 Angeline Drive
10	Asbuilt 092–009 Divot Lane
11	Asbuilt 092–010 Edgewater Lane
12	Asbuilt 092–010 Fore Drive
13	Asbuilt 092–010 Oregon Ave
14	Asbuilt 092–011 Edgewater Lane and Oregon Circle
15	Asbuilt 092–012 Oregon Circle and Oakleaf Ave
16	Asbuilt 092–012 Oakleaf Ave
17	Asbuilt 092–012 Waterhole Place
18	Asbuilt 092–013 Rome Ave
19	Asbuilt 092–013 Rome Ave and Fairway
20	Asbuilt 092–014 Valle Dr
21	Asbuilt 092–014 Valle Dr and Par Two Pl
22	Asbuilt 092–015 Fleetwood Drive and Valle Drive
23	Asbuilt 092–016 Oakleaf Ave
24	Asbuilt 092–017 Armenia Ave
25	Asbuilt 092–017 Armenia Ave Sta 15+00
26	Asbuilt 093–010 North Blvd
27	Asbuilt 093–011 Cliff Circle
28	Asbuilt 093–012 Forest Hills
29	Asbuilt 093–013 Oregon Ave
30	Asbuilt 120–019 Oregon Ave
31	Asbuilt 112–006 Forest Hills Dr
32	Asbuilt 117–17a N Armenia Ave

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

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CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
NOTE AND INDEX

W.O. 5969
SHEET 02 OF 32

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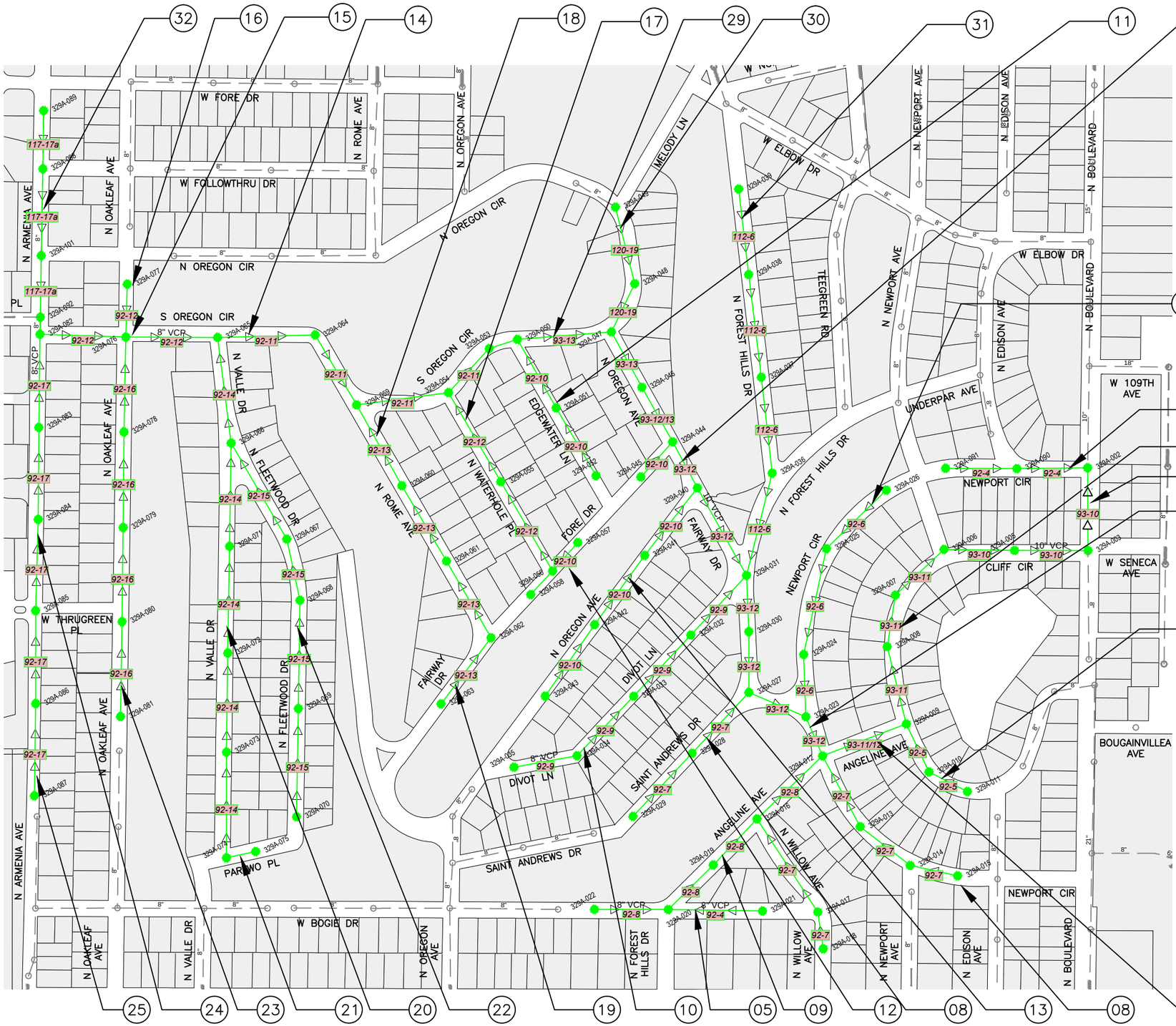

N.T.S.

Index	
Sheet Number	Description
PROJECT DETAILS	
04	Asbuilt 092–004 Newport Circle
05	Asbuilt 092–004 Bogie Drive
06	Asbuilt 092–005 Cliff Circle
07	Asbuilt 092–006 Newport Circle
08	Asbuilt 092–007 Oregon Ave
09	Asbuilt 092–008 Angeline Drive
10	Asbuilt 092–009 Divot Lane
11	Asbuilt 092–010 Edgewater Lane
12	Asbuilt 092–010 Fore Drive
13	Asbuilt 092–010 Oregon Ave
14	Asbuilt 092–011 Edgewater Lane and Oregon Circle
15	Asbuilt 092–012 Oregon Circle and Oakleaf Ave
16	Asbuilt 092–012 Oakleaf Ave
17	Asbuilt 092–012 Waterhole Place
18	Asbuilt 092–013 Rome Ave
19	Asbuilt 092–013 Rome Ave and Fairway
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29	Asbuilt 093–013 Oregon Ave
30	Asbuilt 120–019 Oregon Ave
31	Asbuilt 112–006 Forest Hills Dr
32	Asbuilt 117–17a N Armenia Ave

Legend

- Ex. Wastewater Pipe Proposed CIPP Liner
- Ex. Wastewater Pipe No Rehabilitation Required

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CITY of TAMPA
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FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION PROPOSED PLAN

W.O. 5969
SHEET 03 OF 32

B079-004

329A-002

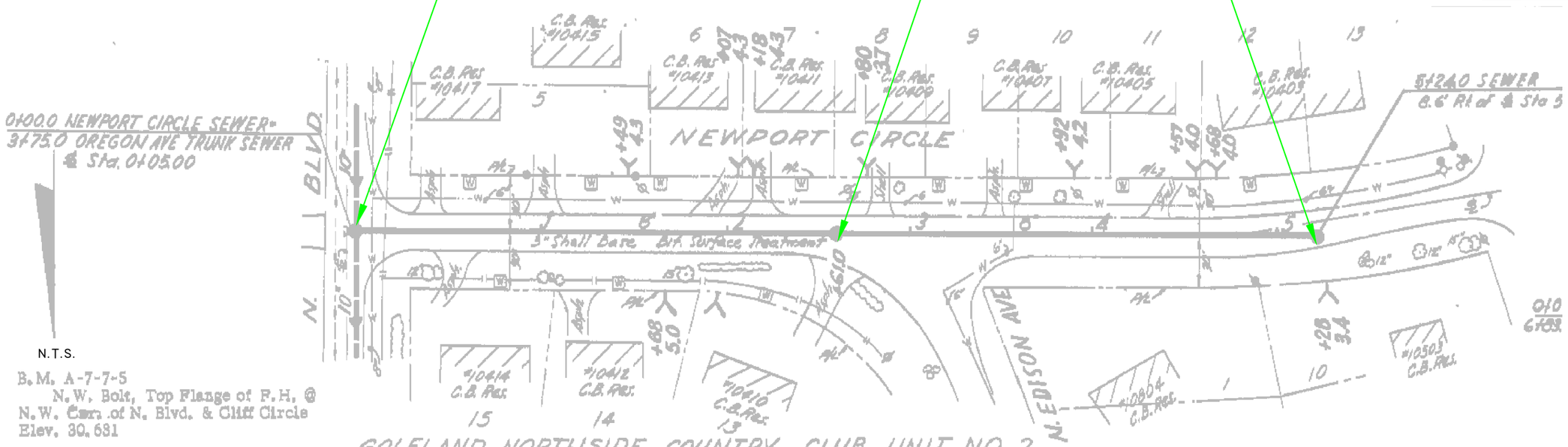
329A-090

329A-091

0100.0 NEWPORT CIRCLE SEWER=
3+75.0 OREGON AVE TRUNK SEWER
@ Sta. 01+05.00

N.T.S.

B.M. A-7-7-5
N.W. Bolt, Top Flange of F.H. @
N.W. Corn. of N. Blvd. & Cliff Circle
Elev. 30.681



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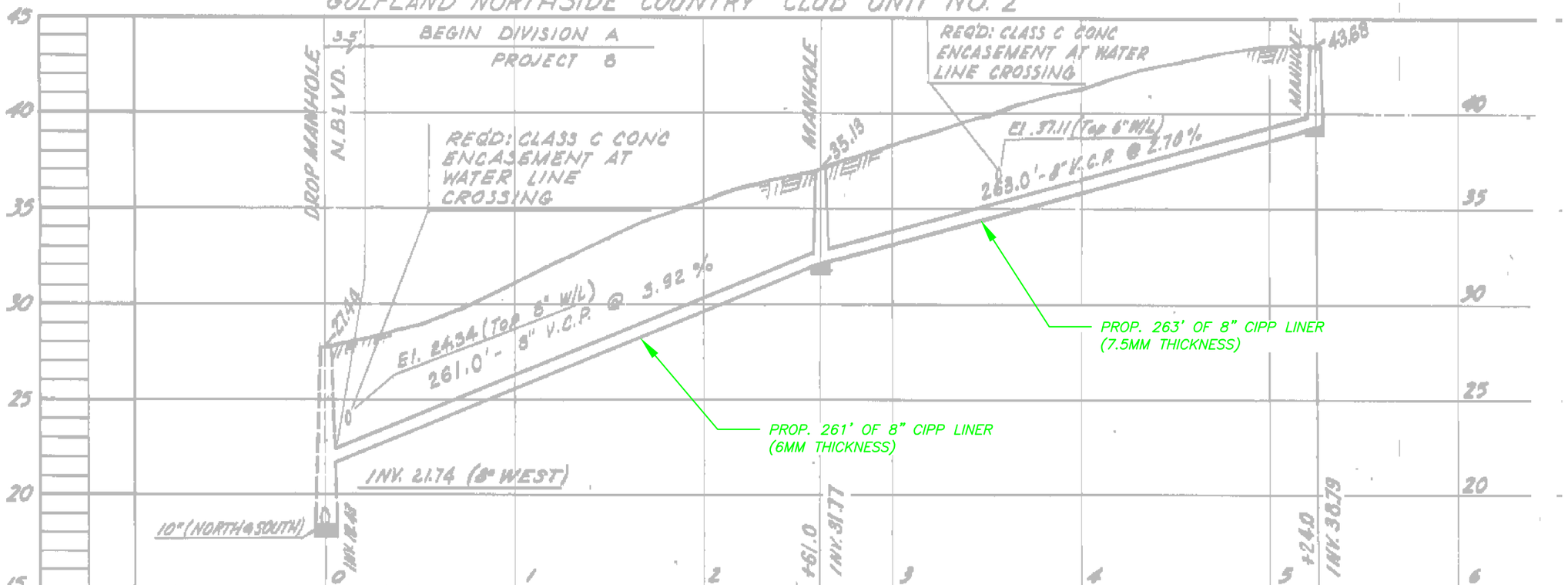

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FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-004 NEWPORT CIRCLE

W.O. 5969
SHEET 04 OF 32

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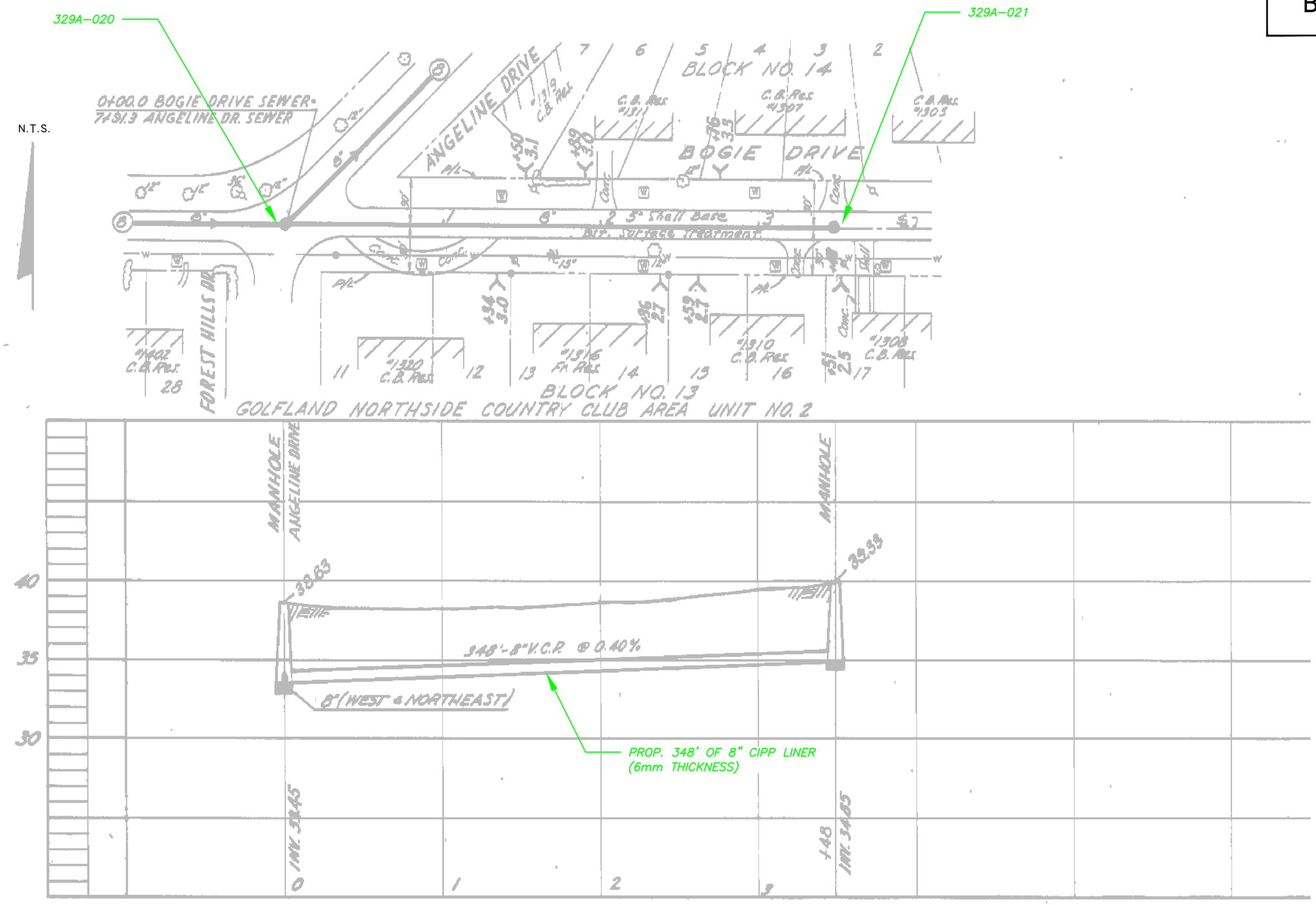

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: CLB DRN: GAP CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION ASBUILT 092-004 BOGIE DRIVE	W.O. 5969 SHEET 05 OF 32
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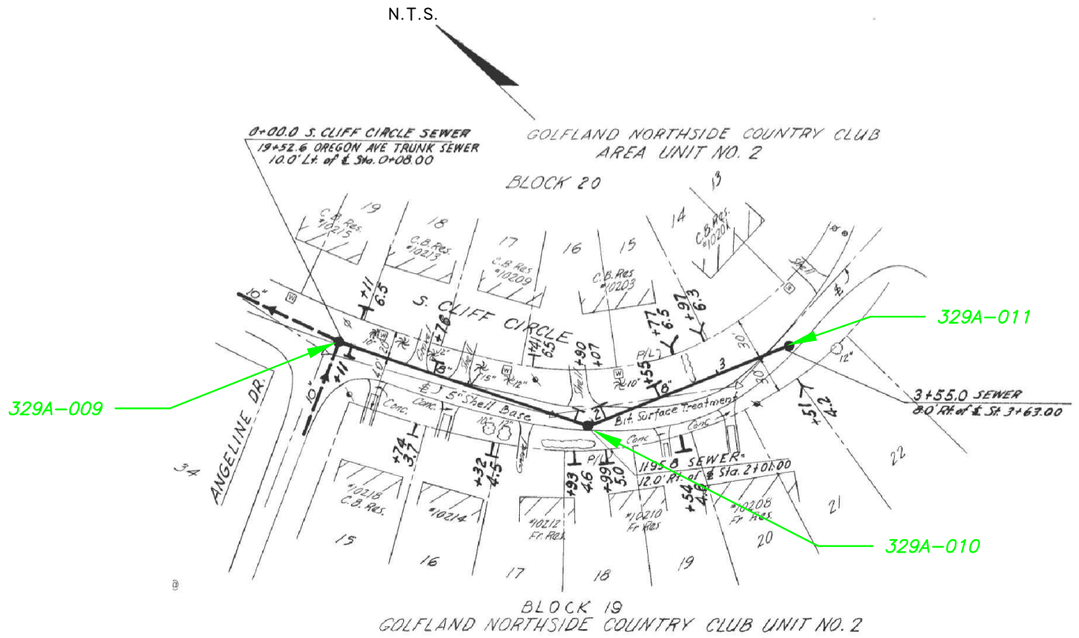

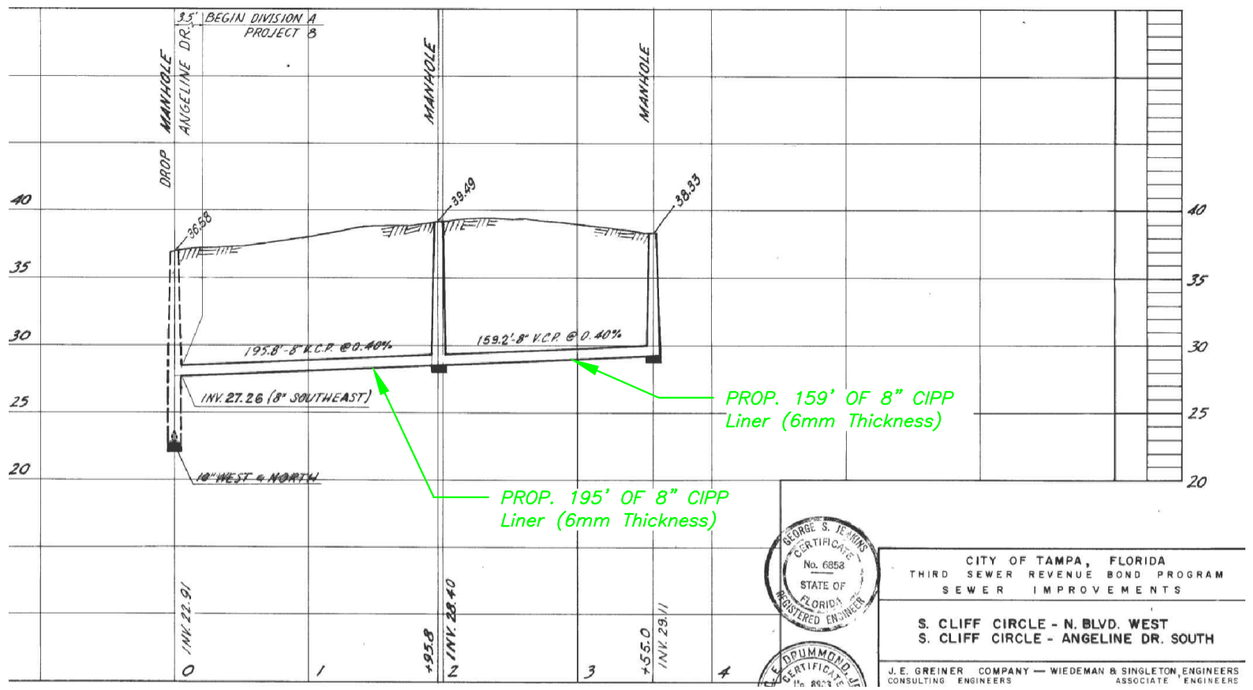

GEORGE S. JENKINS CERTIFICATE No. 6858 STATE OF FLORIDA REGISTERED ENGINEER

E. DRUMMOND CERTIFICATE No. 8674

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

S. CLIFF CIRCLE - N. BLVD. WEST
S. CLIFF CIRCLE - ANGELINE DR. SOUTH

J. E. GREINER COMPANY — WIEDEMAN & SINGLETON ENGINEERS
CONSULTING ENGINEERS ASSOCIATE ENGINEERS

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CITY of TAMPA
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FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-005 CLIFF CIRCLE

W.O. 5969
SHEET 06 OF 32

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B079-007

329A-023

329A-024

329A-025

329A-026

N.T.S.

0+00.0 N. NEWPORT CIRCLE SEWER=
24+41.5 OREGON AVE TRUNK SEWER

2+23.0 SEWER
13.0' Lt. & Sta. 3+54.04 (Bk. Jon)

6+22.3 SEWER
32.0' Lt. of ℄ Sta. 7+43.32

9+31.0 SEWER
5.0' Lt. of ℄ Sta. 10+48.00

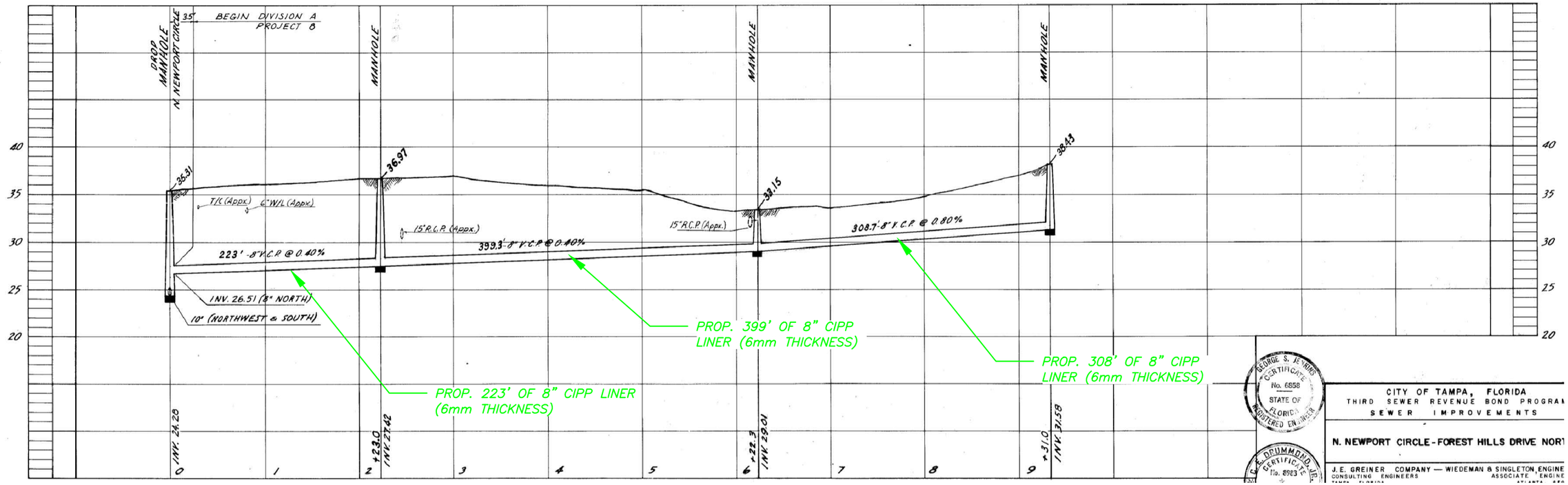
B.M. A-7-7-5-5
Top of Reinforcing Rod in Old Light Pole Conc. Base @ N. E. Cor. of Bogie Dr. & Forest Hills Dr.
Elev. 38.209

N. NEWPORT CIRCLE

FOREST HILLS DRIVE

ANGELINE DRIVE

BLOCK NO. 22
GOLFLAND NORTHSIDE COUNTRY CLUB AREA
UNIT NO. 2



GEORGE S. JENKINS CERTIFICATE No. 6858 STATE OF FLORIDA REGISTERED ENGINEER

C.E. DRUMMOND, JR. CERTIFICATE No. 8923

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

N. NEWPORT CIRCLE - FOREST HILLS DRIVE NORTH

J.E. GREINER COMPANY — WIEDEMAN & SINGLETON, ENGINEERS
CONSULTING ENGINEERS — ASSOCIATE ENGINEERS
TAMPA, FLORIDA — ATLANTA, GEORGIA

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FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-006 NEWPORT CIRCLE

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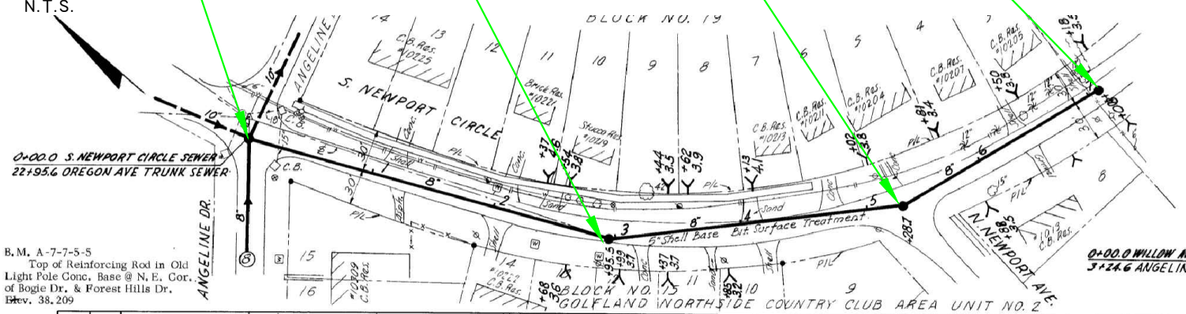

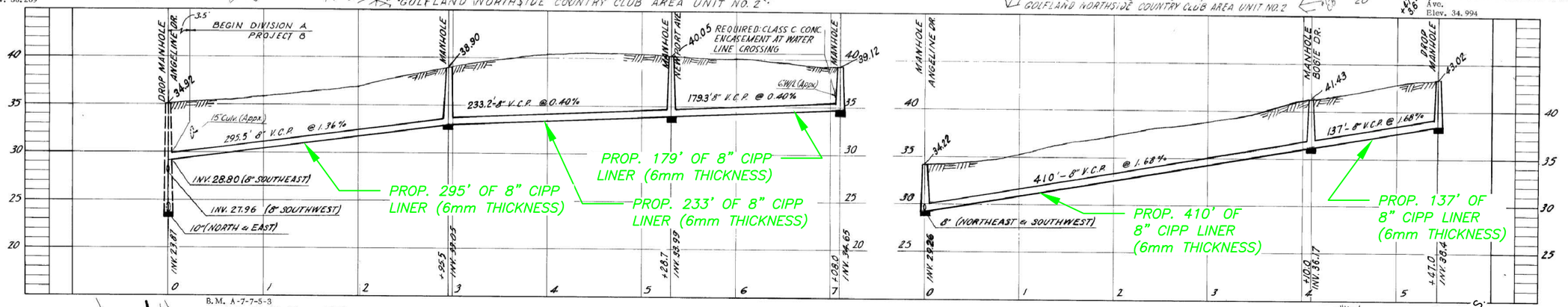

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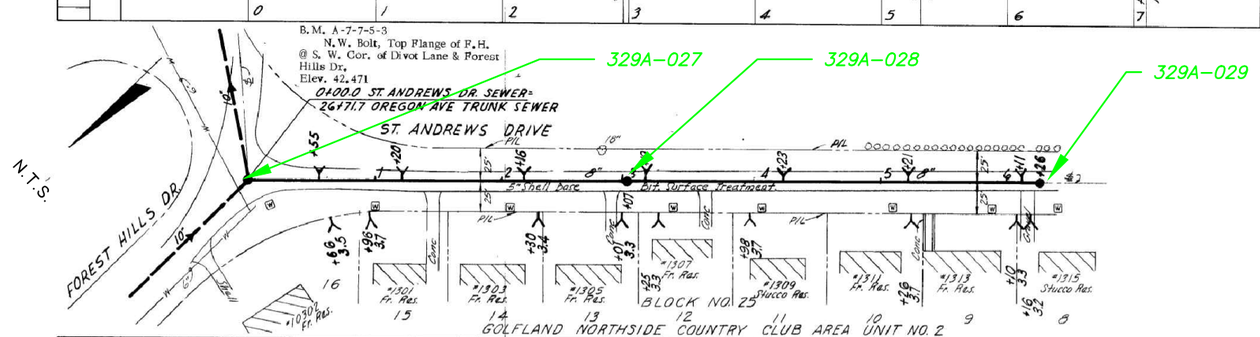

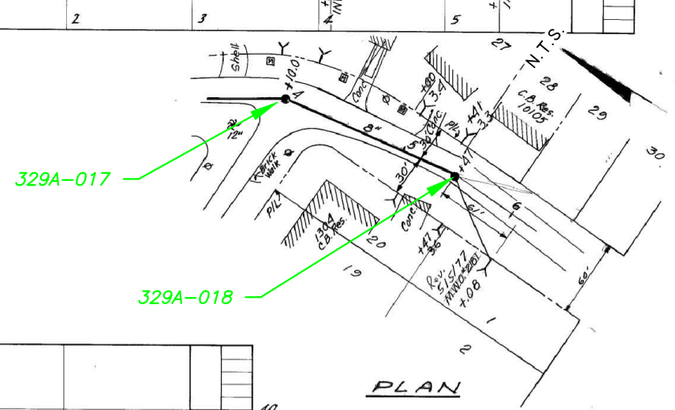

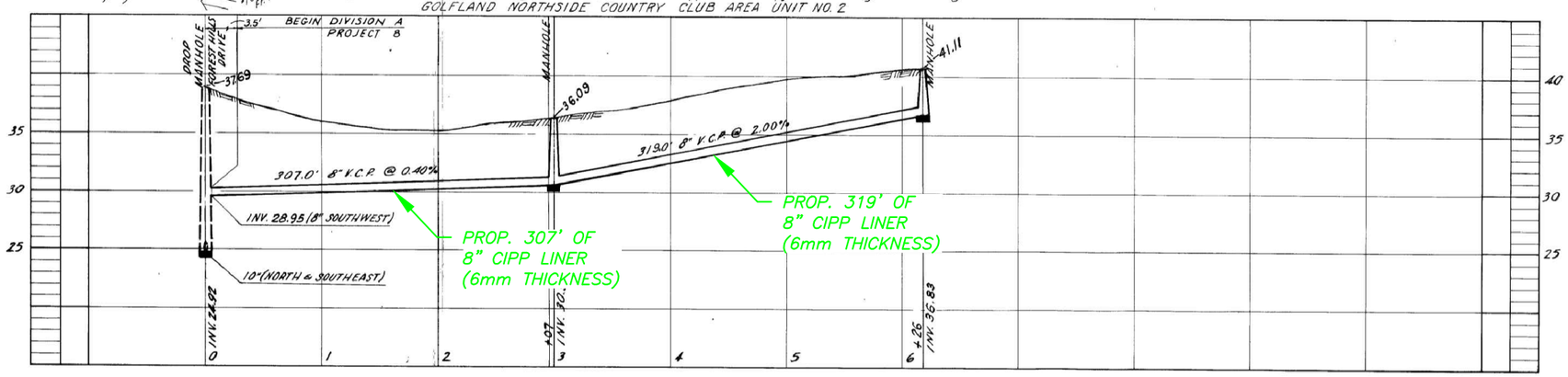

GEORGE S. TEMMINS CERTIFICATE No. 6658 STATE OF FLORIDA REGISTERED ENGINEER

C. E. DRUMMOND, JR. CERTIFICATE No. 8983 STATE OF FLORIDA REGISTERED ENGINEER

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

S. NEWPORT CIRCLE - ANGELINE DR. SOUTH
N. WILLOW AVE. - ANGELINE DR. SOUTH
ST. ANDREWS DRIVE-FOREST HILLS DRIVE SOUTHWEST

J. E. GREINER COMPANY — WIEDEMAN & SINGLETON ENGINEERS
CONSULTING ENGINEERS — ASSOCIATE ENGINEERS

JACINTO CARLOS FERRAS, P.E. #49454
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FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-007 OREGON AVE

W.O. 5969
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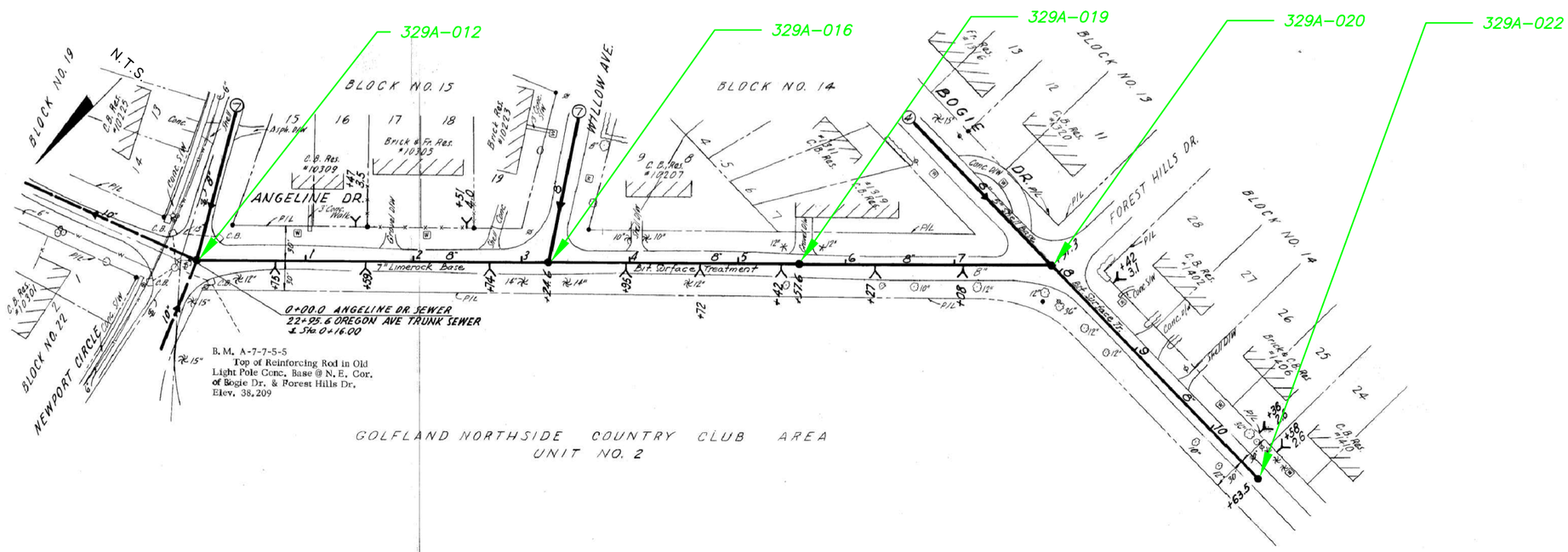

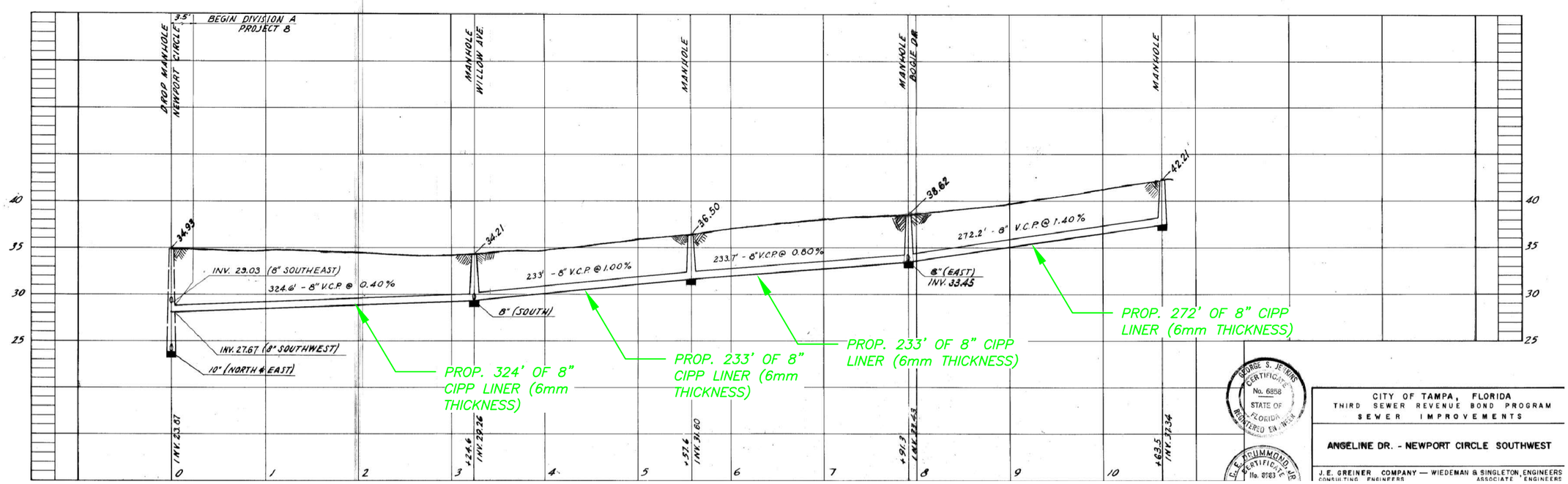

GEORGE S. JENKINS CERTIFICATE No. 6858 STATE OF FLORIDA REGISTERED ENGINEER

J. E. HUMMOND CERTIFICATE No. 8983

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

ANGELINE DR. - NEWPORT CIRCLE SOUTHWEST

J.E. GREINER COMPANY — WIEDEMAN & SINGLETON, ENGINEERS
CONSULTING ENGINEERS ASSOCIATE ENGINEERS

JACINTO CARLOS FERRAS, P.E. #49454
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FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-008 ANGELINE DRIVE

W.O. 5969
SHEET 09 OF 32

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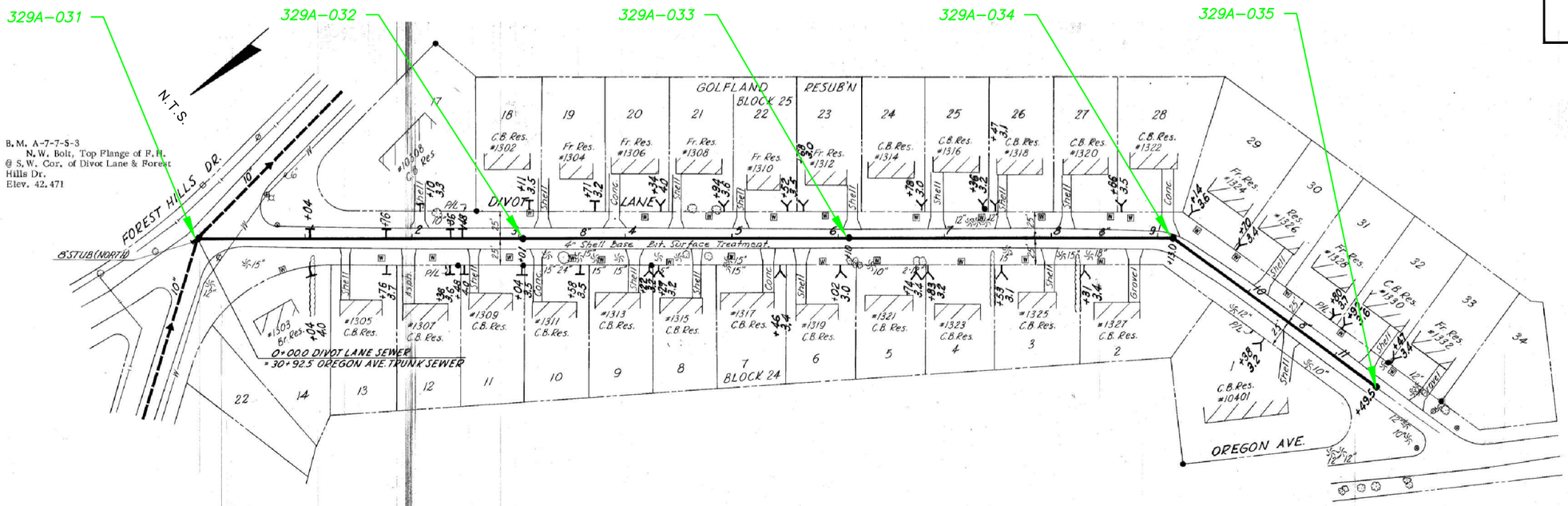

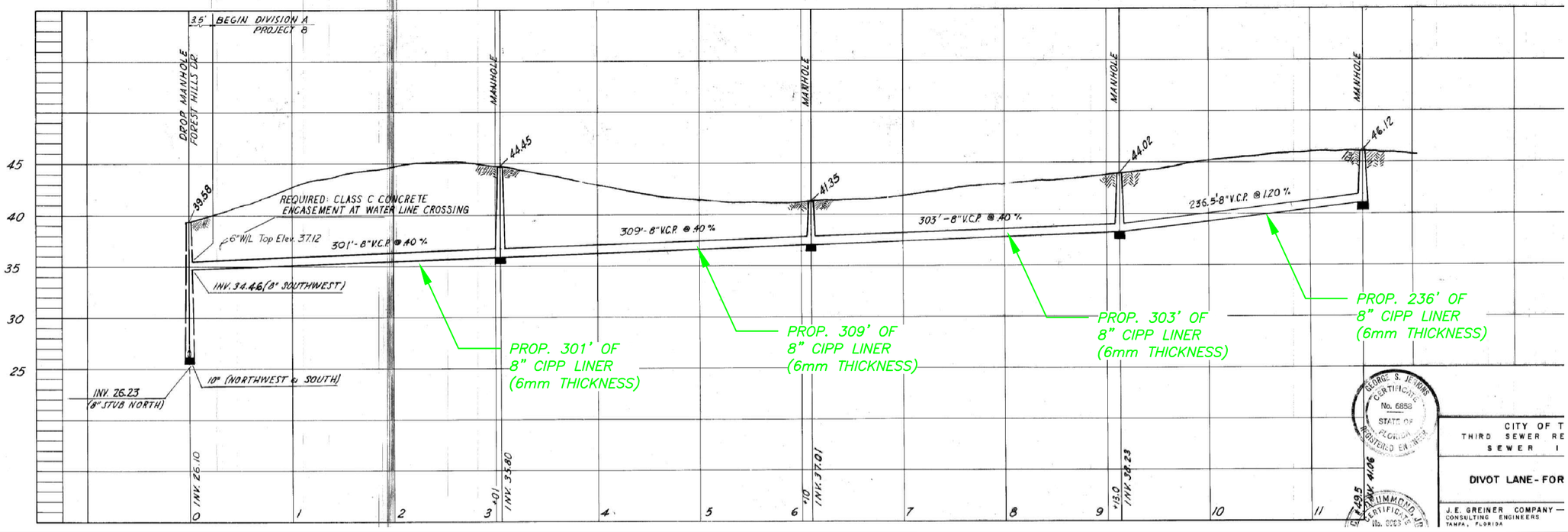

GEORGE S. JENKINS CERTIFICATE No. 6858 STATE OF FLORIDA REGISTERED ENGINEER
RAYMOND CERTIFICATE No. 6063

CITY OF T
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SEWER I

DIVOT LANE - FOR

J.E. GREINER COMPANY — CONSULTING ENGINEERS TAMPA, FLORIDA

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WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-009 DIVOT LANE

W.O. 5969
SHEET 10 OF 32

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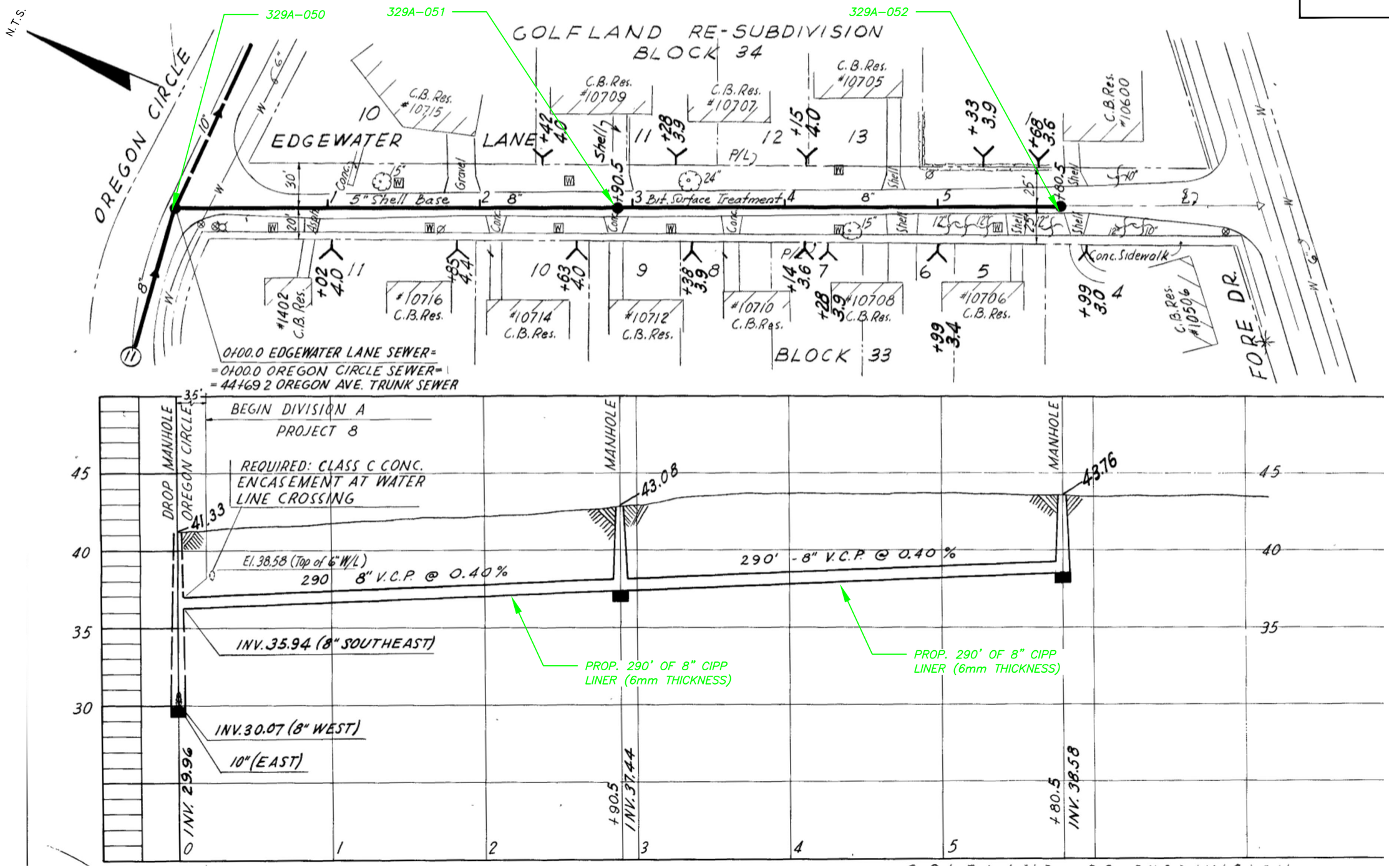

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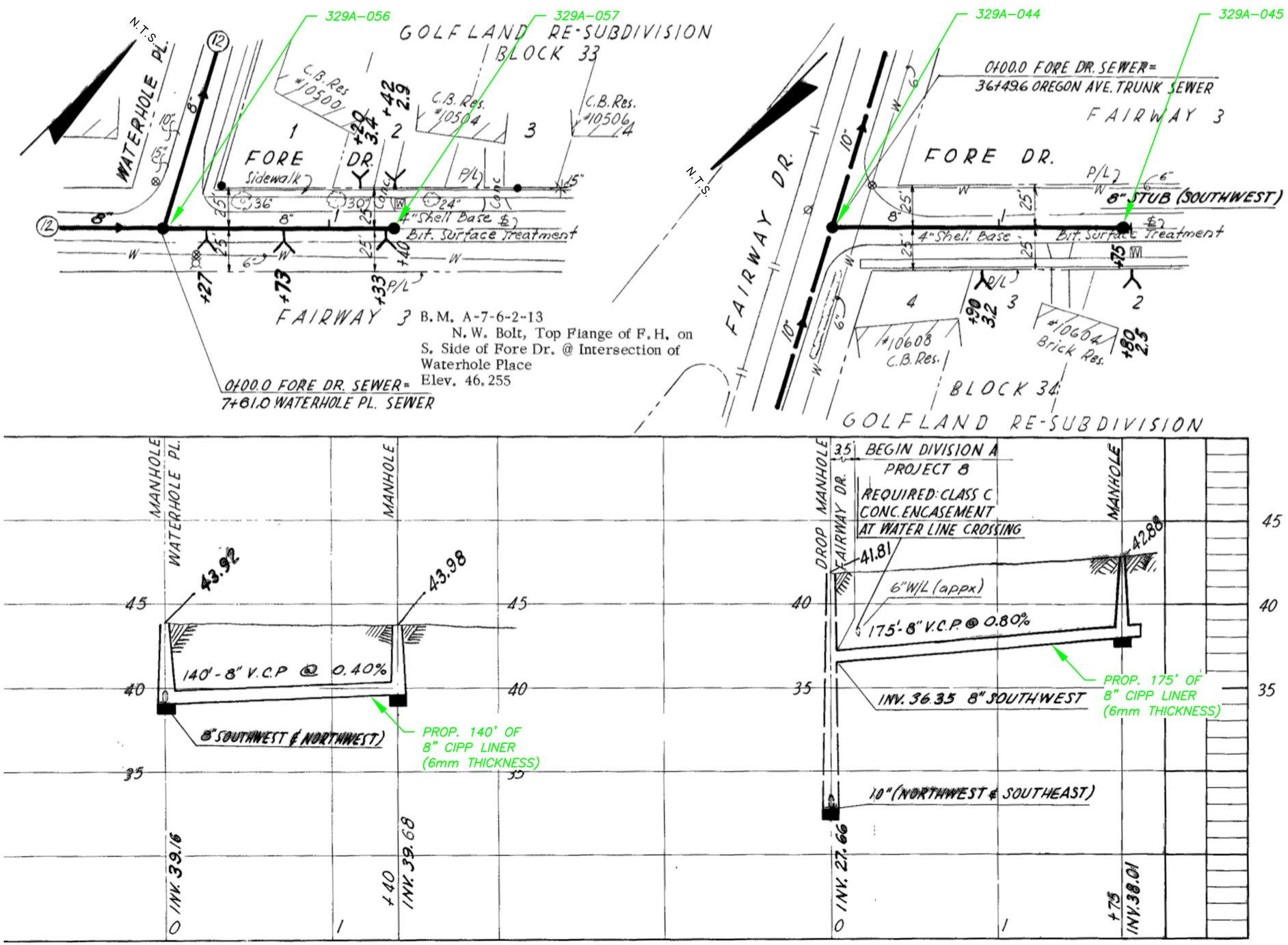
CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-010 EDGEWATER LANE

W.O. 5969
SHEET 11 OF 18

PLOTTED BY Greg Peoples 8:37:59 AM
DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\12 Asbuilt 092-010 Fore Drive.dwg
LAST SAVED BY ssh5
CTB – WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09, 2013

B079-012



No.	DATE	REVISIONS
3		
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JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-010 FORE DRIVE

W.O. 5969
SHEET 12 OF 32

PLOTTED BY Greg Peoples 8:38:01 AM
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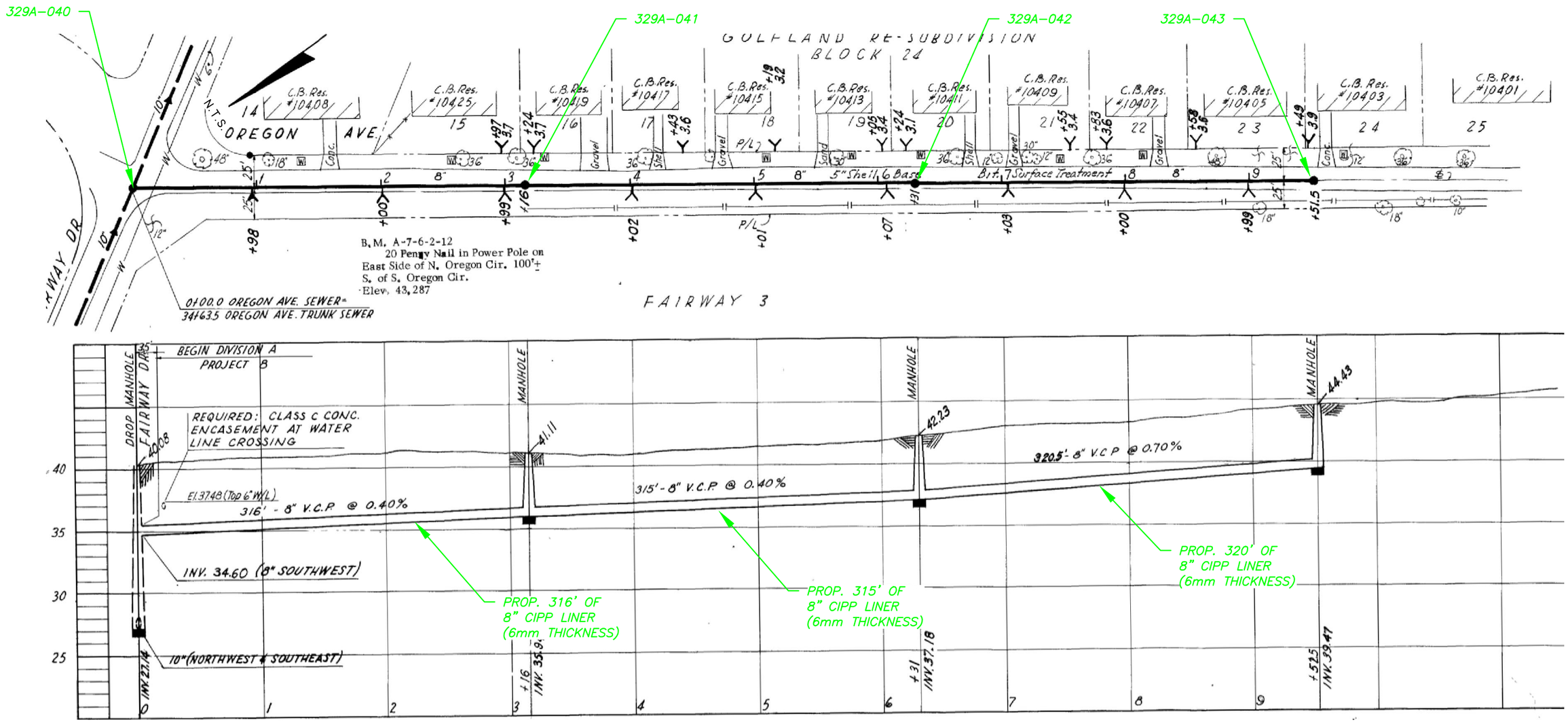
LAST SAVED BY ssh5
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09, 2013

B079-013



	No.	DATE	REVISIONS
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3		
	2		
	1		

DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

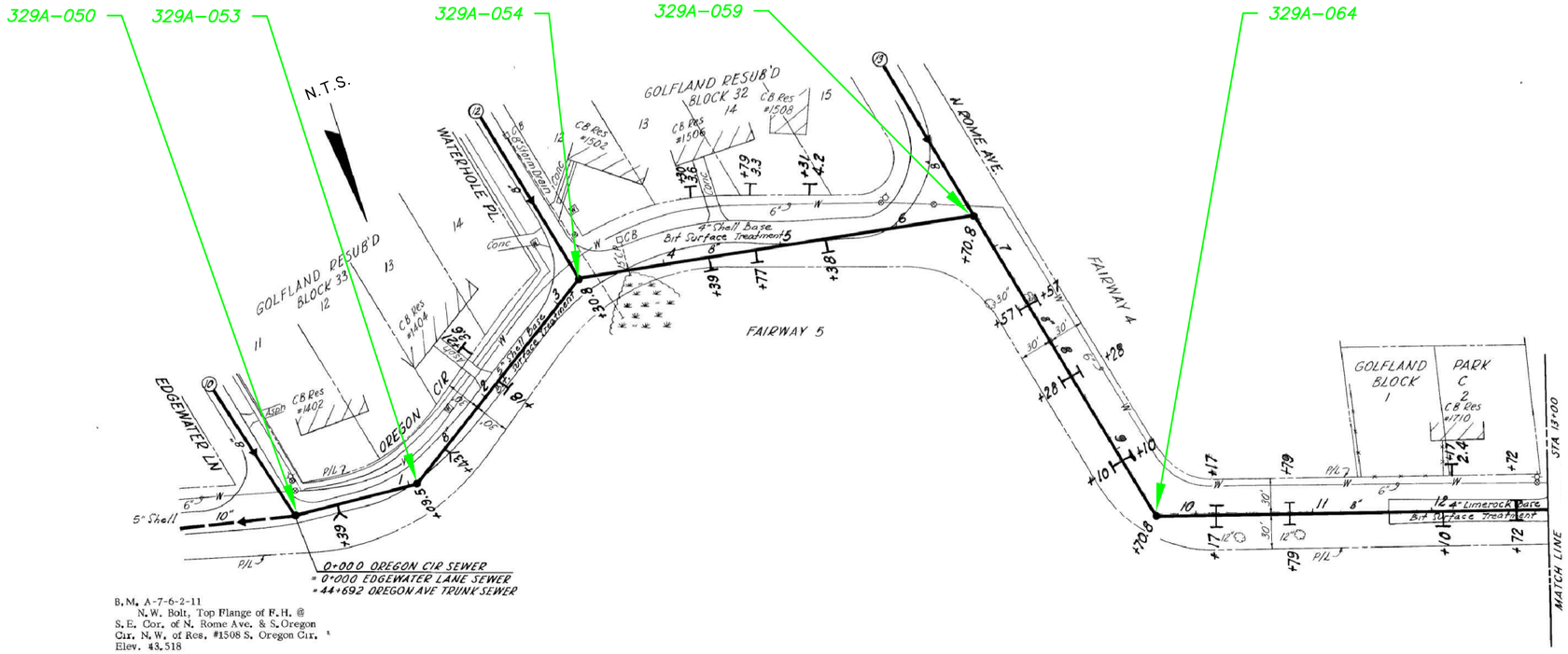
FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-010 OREGON AVE

W.O. 5969
SHEET 13 OF 32

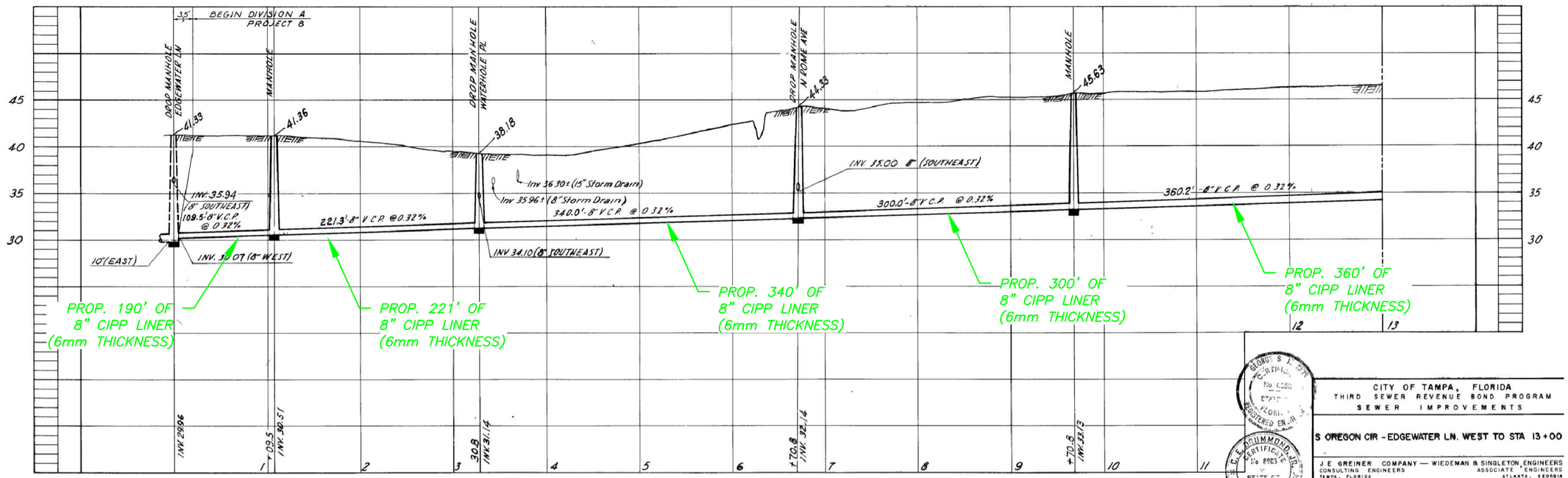
PLOTTED BY 8:38:07 AM Greg Peoples LAST SAVED BY ssh5 DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Dwg\Details\12 Asbuilt 092-010 Fore Drive.dwg CTB - WW-TOSHIBA.CTB PLOT DATE: Monday, December 09, 2013

B079-014

329A-050 329A-053 329A-054 329A-059 329A-064



B.M. A-7-6-2-11
N.W. Bolt, Top Flange of F.H. @
S.E. Cor. of N. Rome Ave. & S. Oregon
Cir. N.W. of Res. #1508 S. Oregon Cir.
Elev. 43.518



CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWER IMPROVEMENTS

S OREGON CIR - EDGEWATER LN. WEST TO STA 13+00

J E GREINER COMPANY — CONSULTING ENGINEERS, TAMPA, FLORIDA
WIEDEMAN & SINGLETON, ENGINEERS — ASSOCIATE ENGINEERS, ATLANTA, GEORGIA

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
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DES: CLB
DRN: GAP
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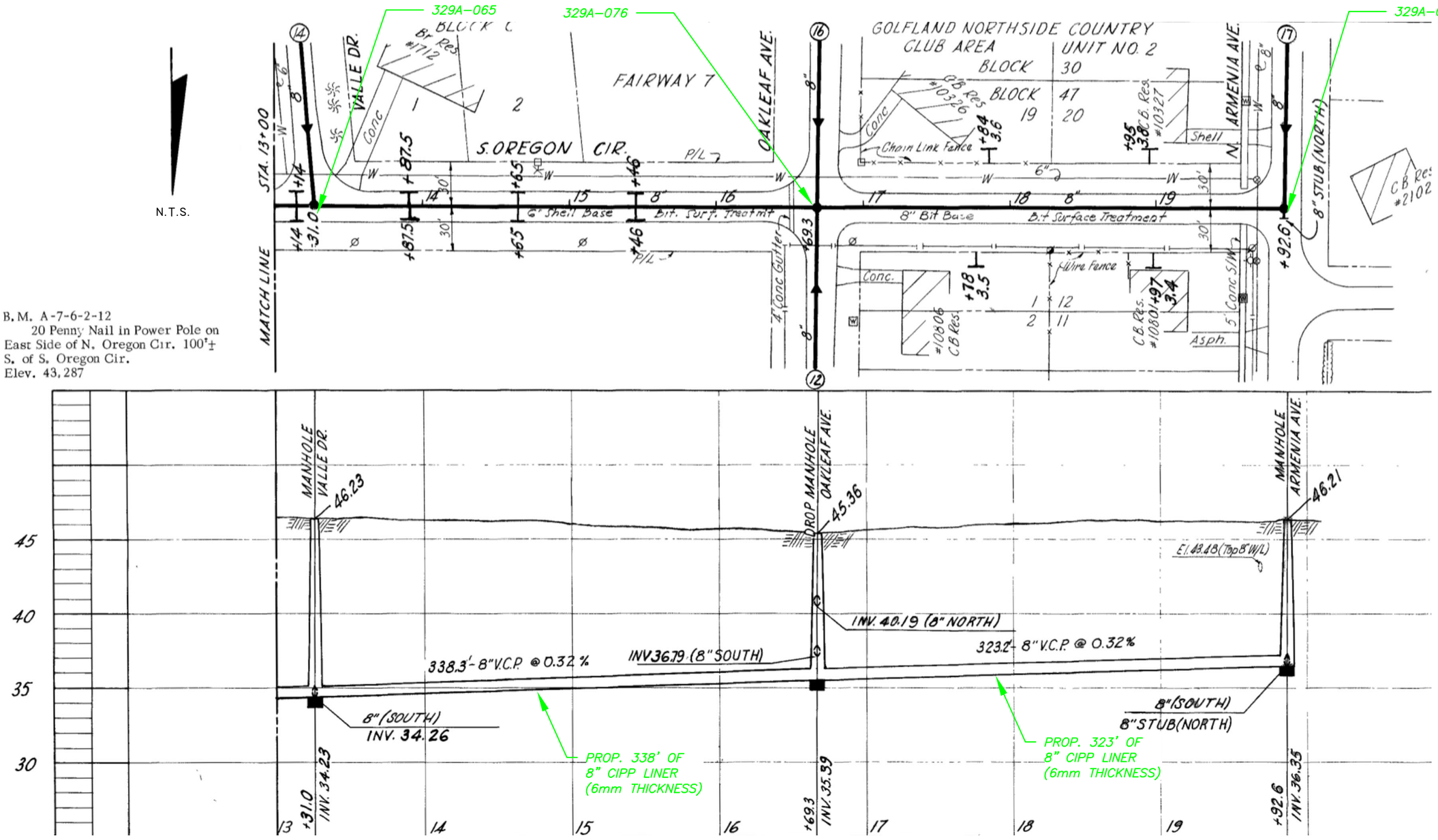
CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-011 EDGEWATER LANE AND OREGON CIRCLE

W.O. 5969
SHEET 14 OF 32

PLOTTED BY Greg Peoples DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\14 Asbuilt 092-011 Edgewater Lane and Oregon Circle.dwg PLOT DATE:
Monday, December 09, 2013 8:38:16 AM LAST SAVED BY ssh5 CTB - WW-TOSHIBA.CTB

B079-015



PLOTTED BY Greg Peoples 2013 8:38:24 AM
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LAST SAVED BY ssh5
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09,

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
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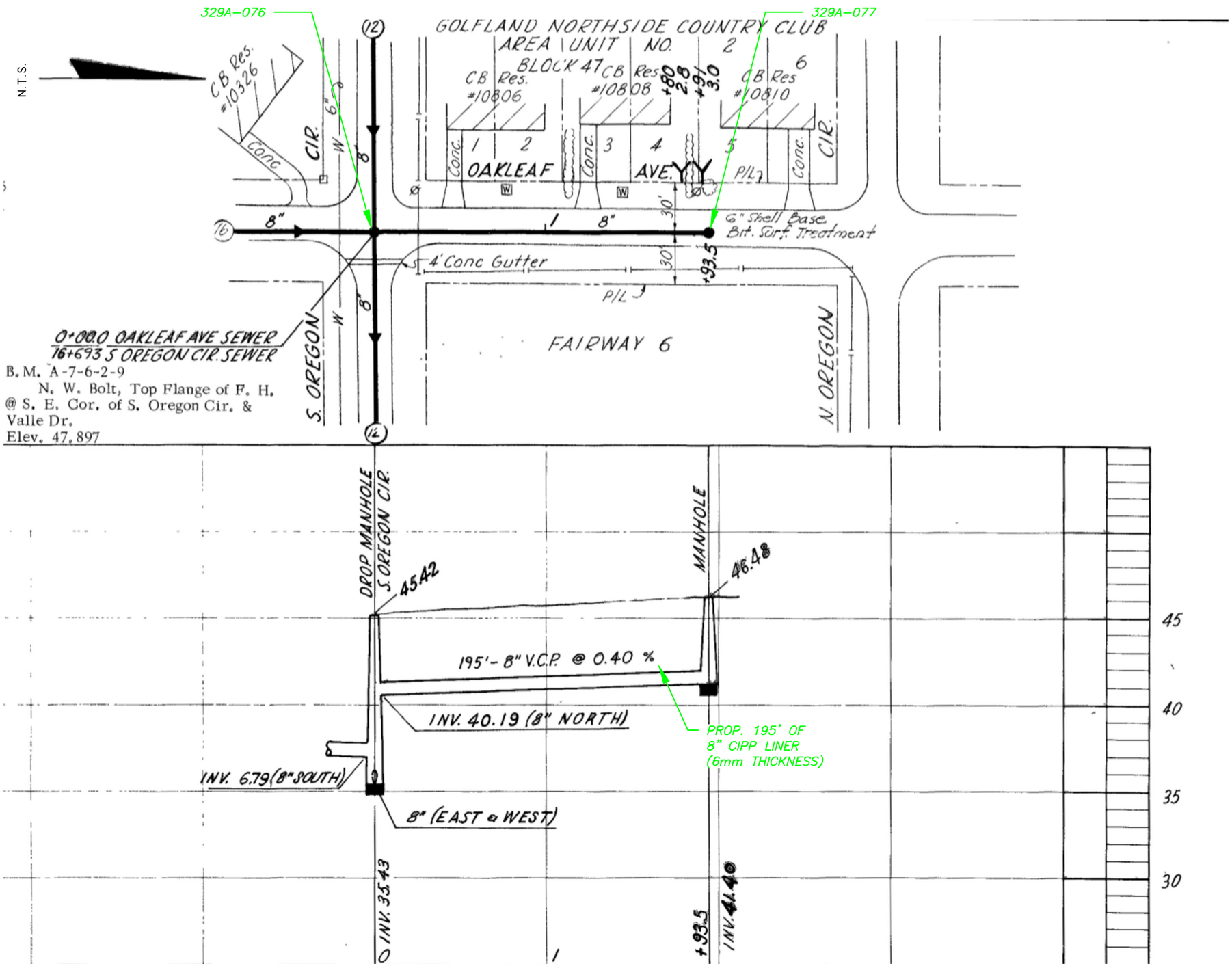
DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-012 OREGON CIRCLE AND OAKLEAF AVE

W.O. 5969
SHEET 15 OF 32

B079-016



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JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-012 OAKLEAF AVE

W.O. 5969
SHEET 16 OF 32

PLOTTED BY Greg Peoples 2013 8:38:26 AM
LAST SAVED BY ssh5
DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\17 Asbuilt 092-012 Waterhole Place.dwg
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09,

B079-017

329A-054 329A-055 329A-056

N.T.S.

S. OREGON CIR.

GOLFLAND RESUB'N BLOCK 33

WATERHOLE PL.

FORE DR.

4" Shell Base Bit. Surface Treatment

0+000 WATERHOLE PL. SEWER
3+30.4 OREGON CIR. SEWER

#10718 C.B. Res.
#10716 C.B. Res.
#10714 C.B. Res.
#10712 C.B. Res.
#10710 C.B. Res.
#10708 C.B. Res.
#10713 C.B. Res.
#10711 C.B. Res.
#10709 C.B. Res.
#10707 C.B. Res.
#10705 C.B. Res.
#10500 C.B. Res.
#10406 C.B. Res.

BLOCK 32

329A-056 329A-058

N.T.S.

0+000 FORE DR SEWER
=7+61.0 WATERHOLE PL SEWER

FAIRWAY 3

4" Shell Base Bit. Surf. Treatment

#10406 C.B. Res.
#10404 C.B. Res.

BLOCK 32 RESUB'D

GOLFLAND

B.M. A-7-6-2-11
N.W. Bolt, Top Flange of F.H. S. E. Cor. of N. Rome Ave. & S. Cir. N. W. of Res. #1508 S. Oregon
Elev. 43.518

DROP MANHOLE S. OREGON CIR.

38.98

REQUIRED: CLASS C CONC. ENCASEMENT AT WATER LINE CROSSING.

El. 36.51 (Top C'N/L)

381'-8" V.C.P @ 0.90%

INV. 34.10 (8" SOUTHEAST)

8" (WEST & NORTHEAST)

INV. 31.14

MANHOLE

42.81

+81.0 INV. 37.33

381.0'-8" V.C.P @ 0.40%

8" (NORTHEAST & SOUTHWEST)

MANHOLE FORE DR.

43.98

+61.0 INV. 39.16

8" (NORTHWEST & NORTHEAST)

MANHOLE WATERHOLE PL.

43.92

INV. 39.16

118.5-8" V.C.P @ 0.40%

MANHOLE

44.42

+18.5 INV. 39.51

PROP. 381' OF 8" CIPP LINER (6mm THICKNESS)

PROP. 381' OF 8" CIPP LINER (6mm THICKNESS)

PROP. 118' OF 8" CIPP LINER (6mm THICKNESS)

45 40 35 30 25

0 1 2 3 4 5 6 7

PLOTTED BY Greg Peoples 2013 8:38:32 AM
LAST SAVED BY ssh5
DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\17 Asbuilt 092-012 Waterhole Place.dwg
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09,

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
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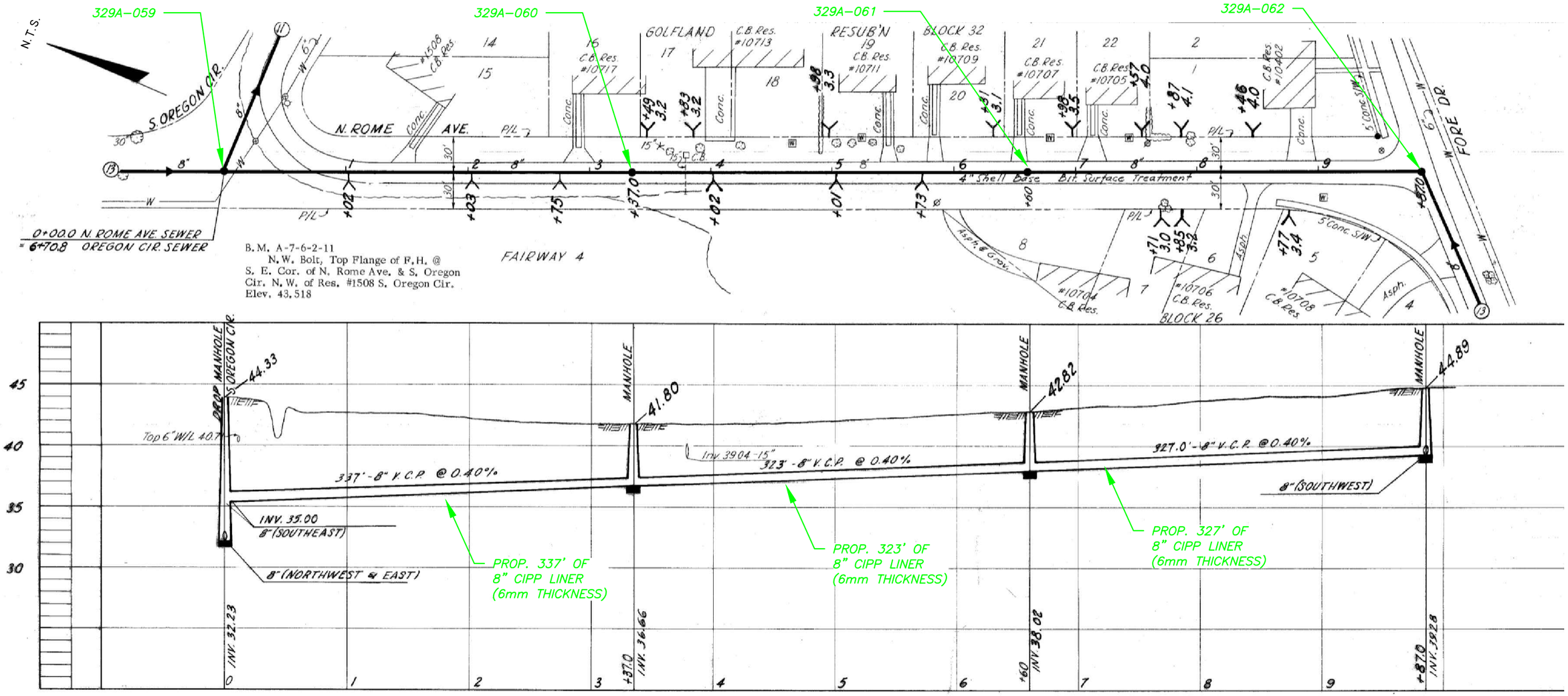
DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-012 WATERHOLE PLACE

W.O. 5969
SHEET 17 OF 32

B079-018



	No.	DATE	REVISIONS
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3		
	2		
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DES: CLB
DRN: GAP
CKD:
DATE:

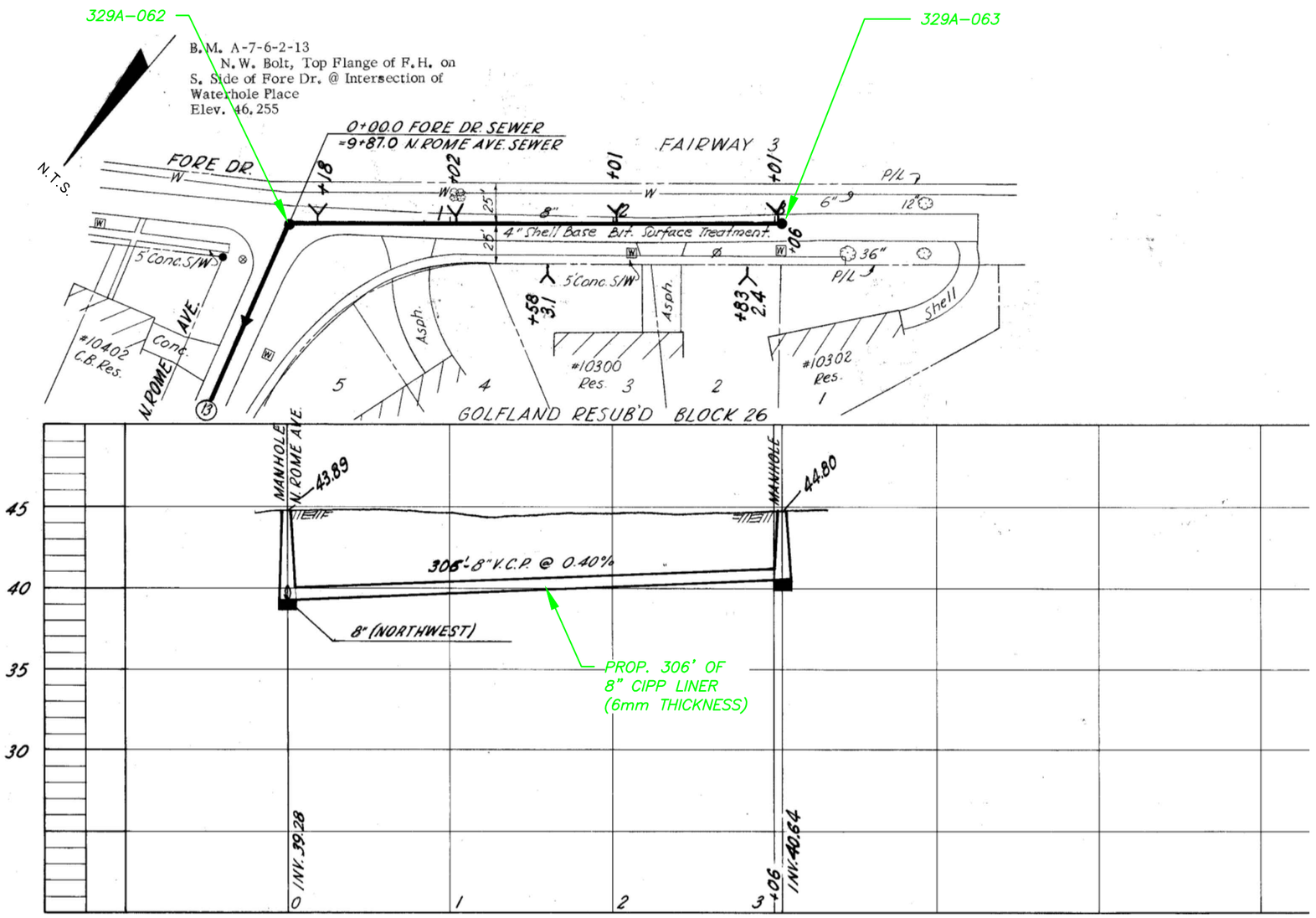
CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-013 ROME AVE

W.O. 5969
SHEET 18 OF 32

PLOTTED BY Greg Peoples
December 09, 2013 8:38:39 AM
DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\19 Asbuilt 092-013 Rome Ave and Fairway.dwg
LAST SAVED BY ssh5
PLOT DATE: Monday,
CTB - WW-TOSHIBA.CTB

B079-019



	No.	DATE	REVISIONS			
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3			DES: CLB DRN: GAP CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION ASBUILT 092-013 ROME AVE AND FAIRWAY
	2					
	1					

W.O. 5969
SHEET 19 OF 32

PLOTTED BY Greg Peoples
December 09, 2013 8:38:42 AM
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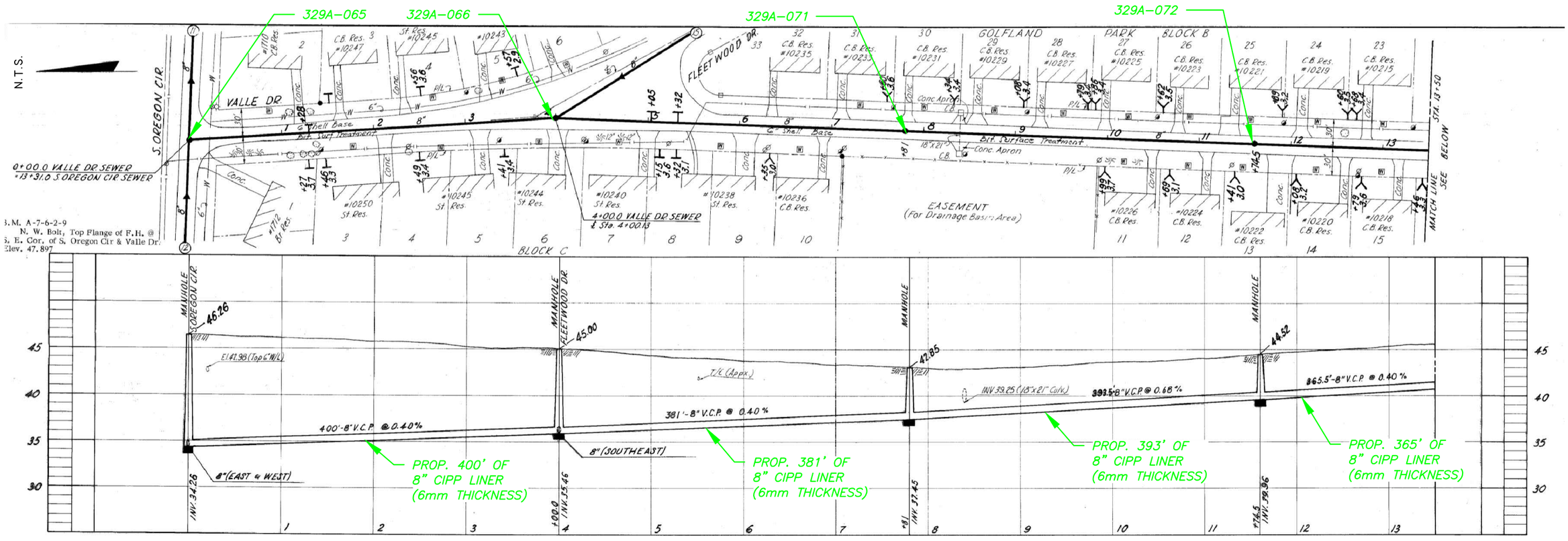
PLOT DATE: Monday,

B079-020



PLOTTED BY Greg Peoples DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\21 Asbuilt 092-014 Valle Dr and Par Two Pl.dwg PLOT DATE: Monday, December 09, 2013 8:38:49 AM LAST SAVED BY ssh5 CTB - WW-TOSHIBA.CTB

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
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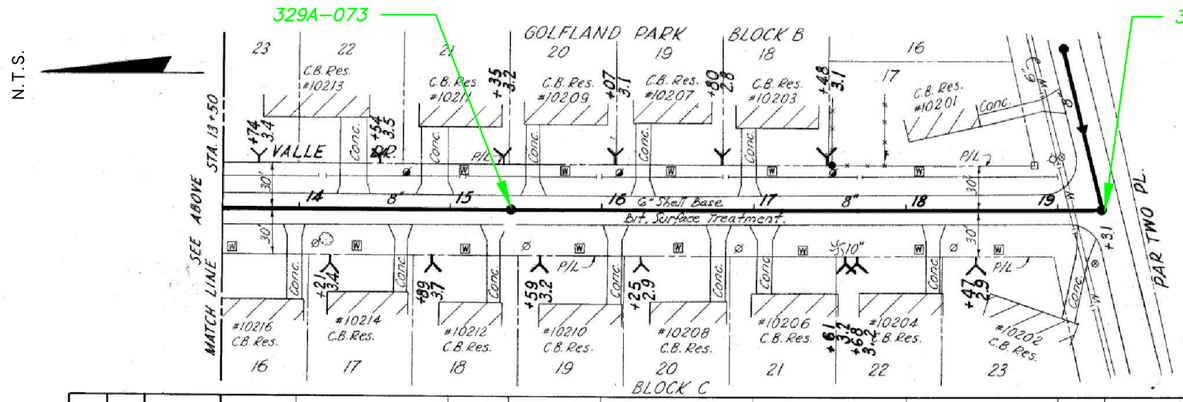
DES: CLB
DRN: GAP
CKD:
DATE:

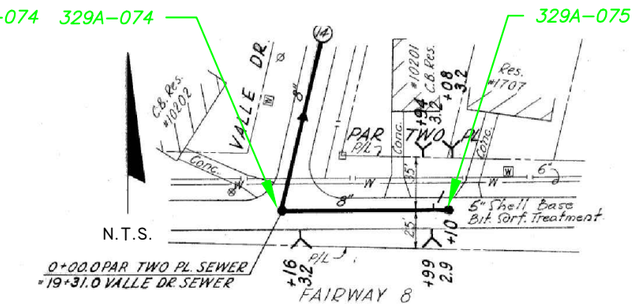
CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-014 VALLE DR

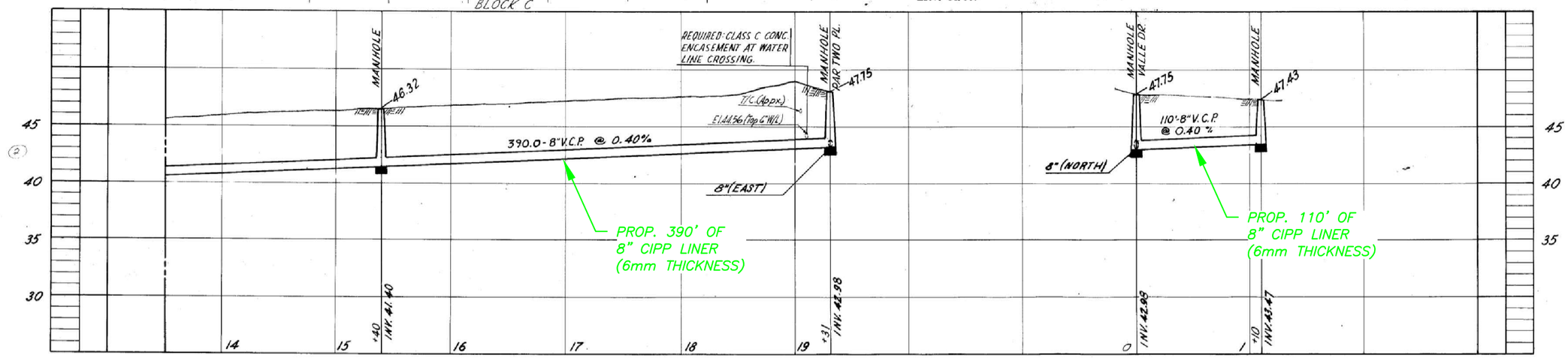
W.O. 5969
SHEET 20 OF 32

B079-021





B.M. A-7-6-2-5
20 Penny Nail in Power Pole @ N. E Corn. of Meadowbrook Ave. & Valle Dr.
Elev. 44.889



PLOTTED BY Greg Peoples
December 09, 2013 8:38:52 AM
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LAST SAVED BY ssh5
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday,

No.	DATE	REVISIONS
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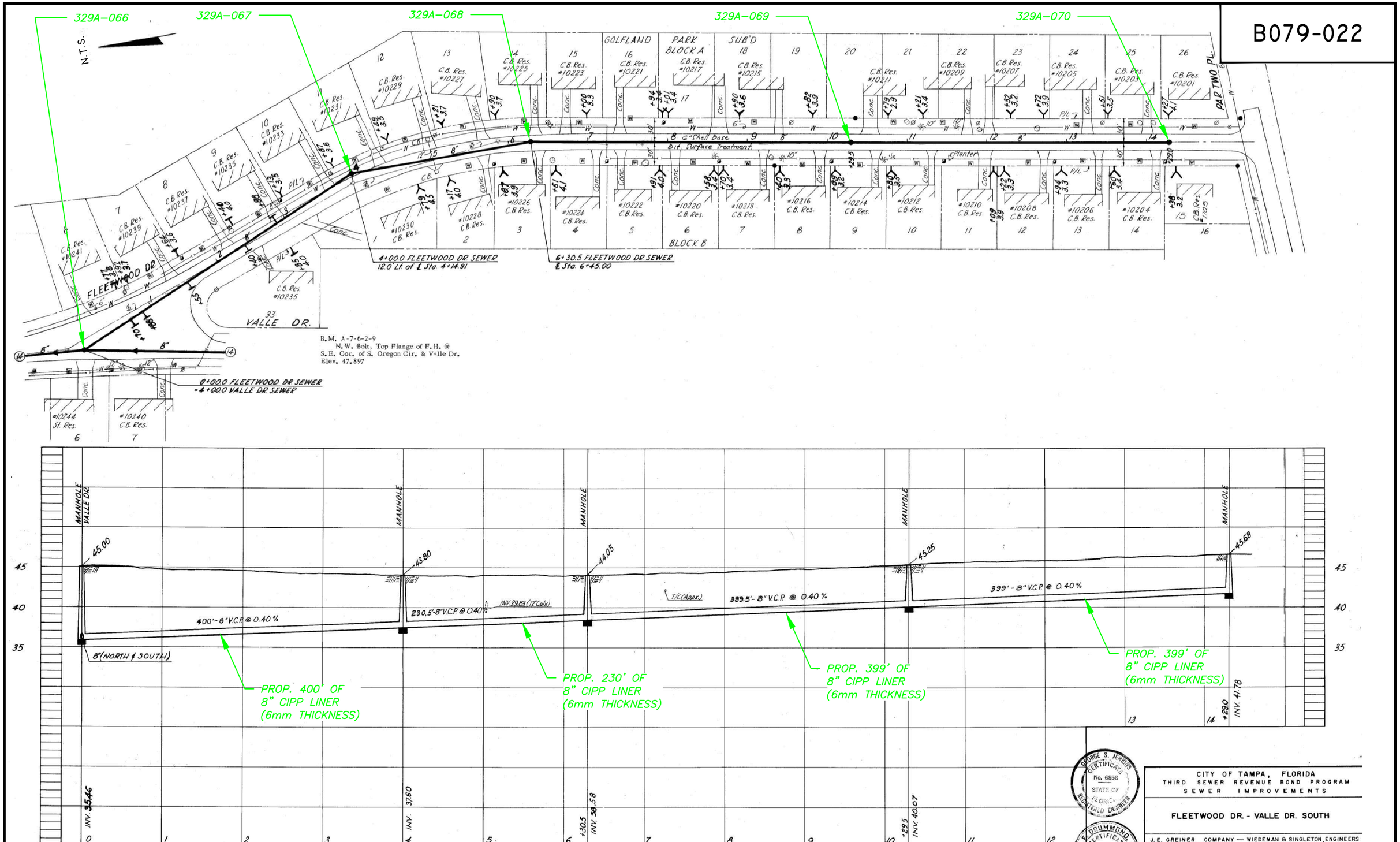
JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-014 VALLE DR AND PAR TWO PL

W.O. 5969
SHEET 21 OF 32



PLOTTED BY Greg Peoples DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\22 Asbuilt 092-015 Fleetwood Drive and Valle Drive.dwg PLOT DATE: Monday, December 09, 2013 8:39:00 AM LAST SAVED BY ssh5 CTB - WW-TOSHIBA.CTB

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
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DES: CLB
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CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-015 FLEETWOOD DRIVE AND VALLE DRIVE

W.O. 5969
SHEET 22 OF 32

B079-023

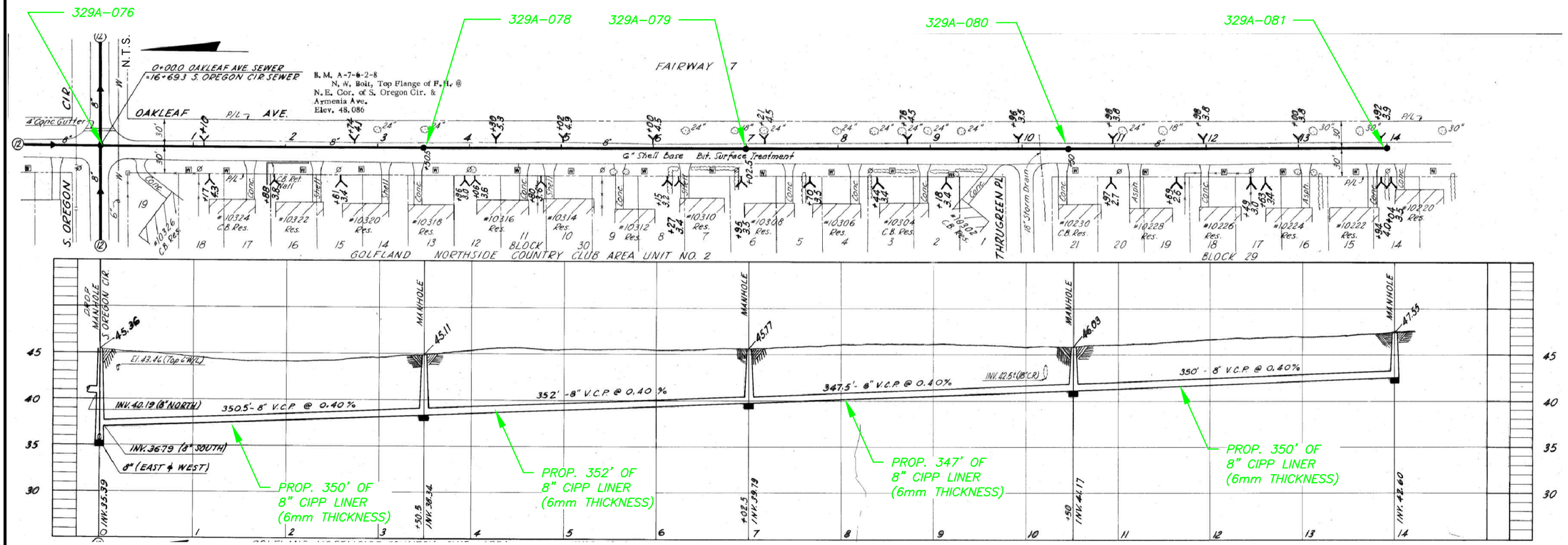
329A-076

329A-078

329A-079

329A-080

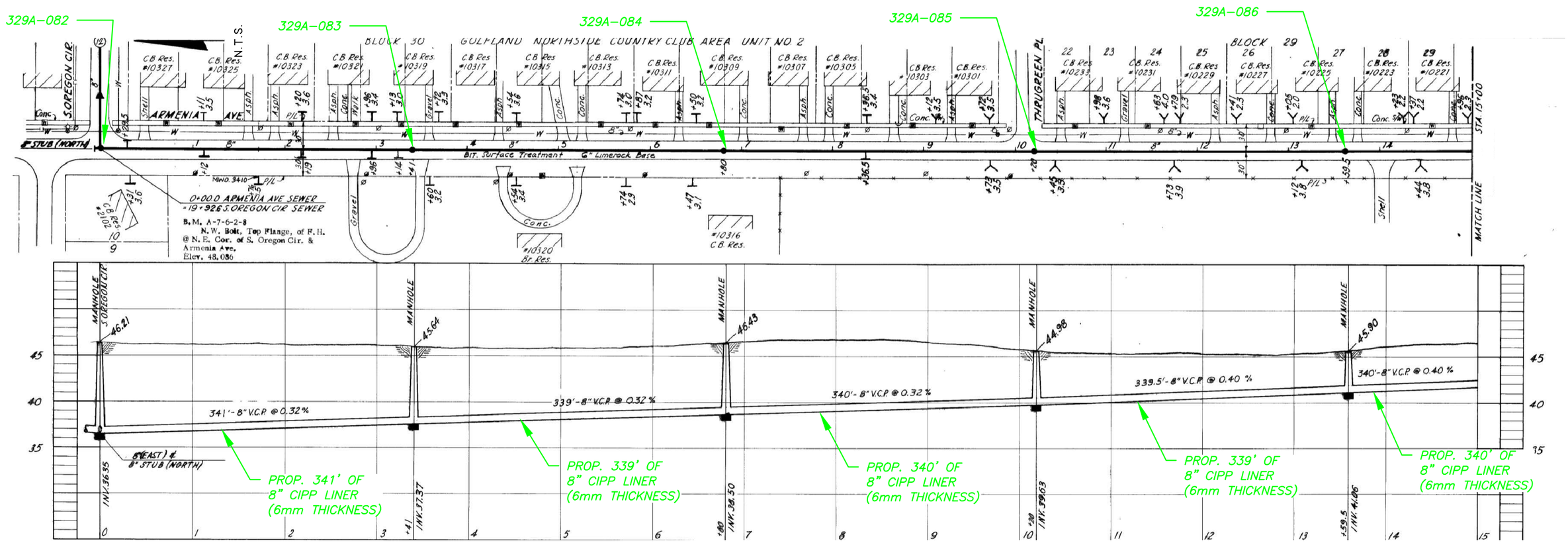
329A-081



	No.	DATE	REVISIONS			
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3			DES: CLB DRN: GAP CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION ASBUILT 092-016 OAKLEAF AVE	W.O. 5969 SHEET 23 OF 32
	2						
	1						

PLOTTED BY Greg Peoples 12 December 09, 2013 8:39:08 AM DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\23 Asbuilt 092-016 Oregon Cir and Oakleaf Ave.dwg PLOT DATE: Monday, LAST SAVED BY ssh5 CTB - WW-TOSHIBA.CTB

B079-024



PLOTTED BY Greg Peoples
December 09, 2013 8:39:13 AM
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LAST SAVED BY ssh5
PLOT DATE: Monday,
CTB - WW-TOSHIBA.CTB

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JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

DES: CLB
DRN: GAP
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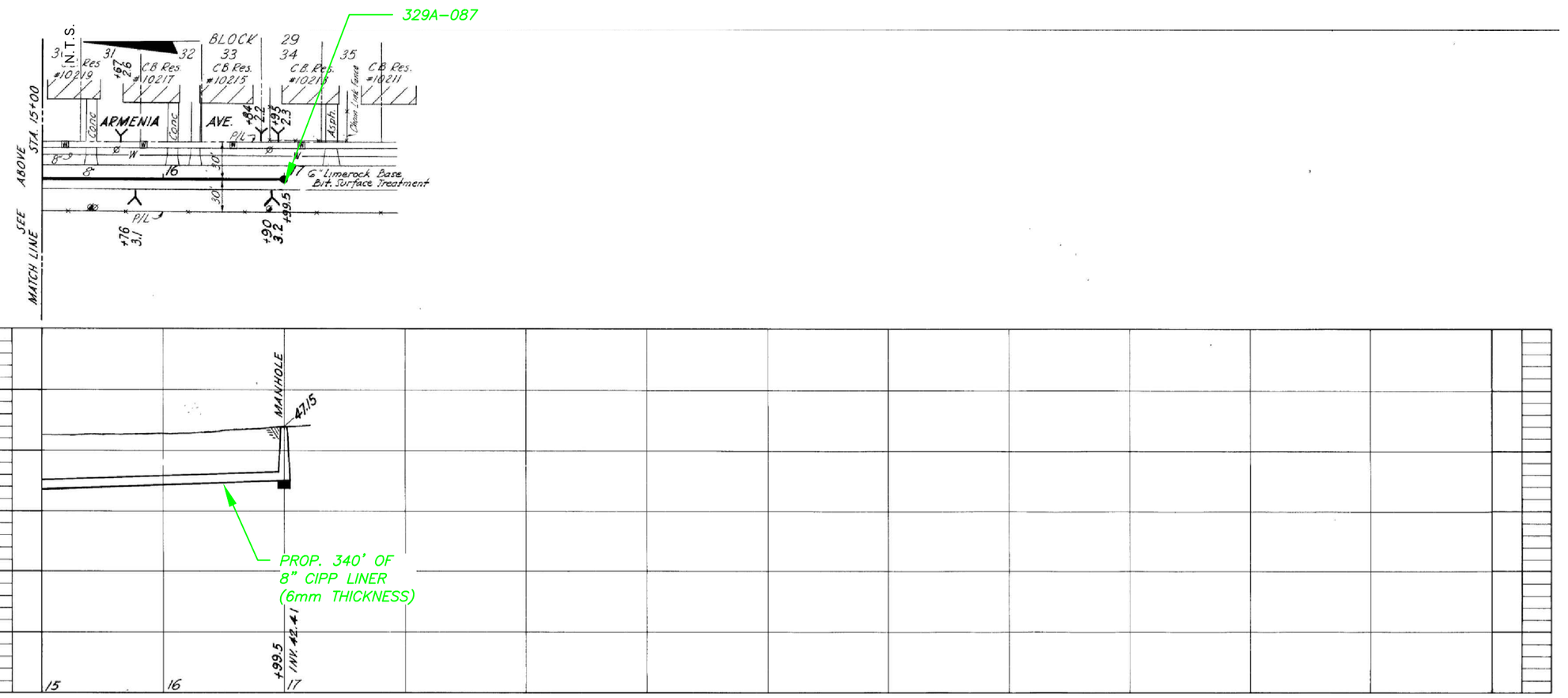
CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-017 ARMENIA AVE

W.O. 5969
SHEET 24 OF 32

B079-025



	No.	DATE	REVISIONS
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3		
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DES: CLB
DRN: GAP
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DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 092-017 ARMENIA AVE STA 15+00

W.O. 5969
SHEET 25 OF 32

PLOTTED BY Greg Peoples
December 09, 2013 8:39:18 AM
DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\25 Asbuilt 092-017 Armenia Ave Sta 15+00.dwg
LAST SAVED BY ssh5
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday,

B079-026

329A-002

329A-003

329A-005

N.T.S.

B.M. A-7-7-6
Cut on East Sidewalk of N. Blvd.
26'± South of 109th Avenue
Elev 27 380

0+00 0 OREGON AVE TRUNK SEWER
7+19 1 N BLVD TRUNK SEWER

6+83 0 SEWER
℄ Sta 6+88 83

9+54 0 SEWER
25 2' of ℄ Sta 9+58 81

BLOCK 40

BLOCK 21

BLOCK 20

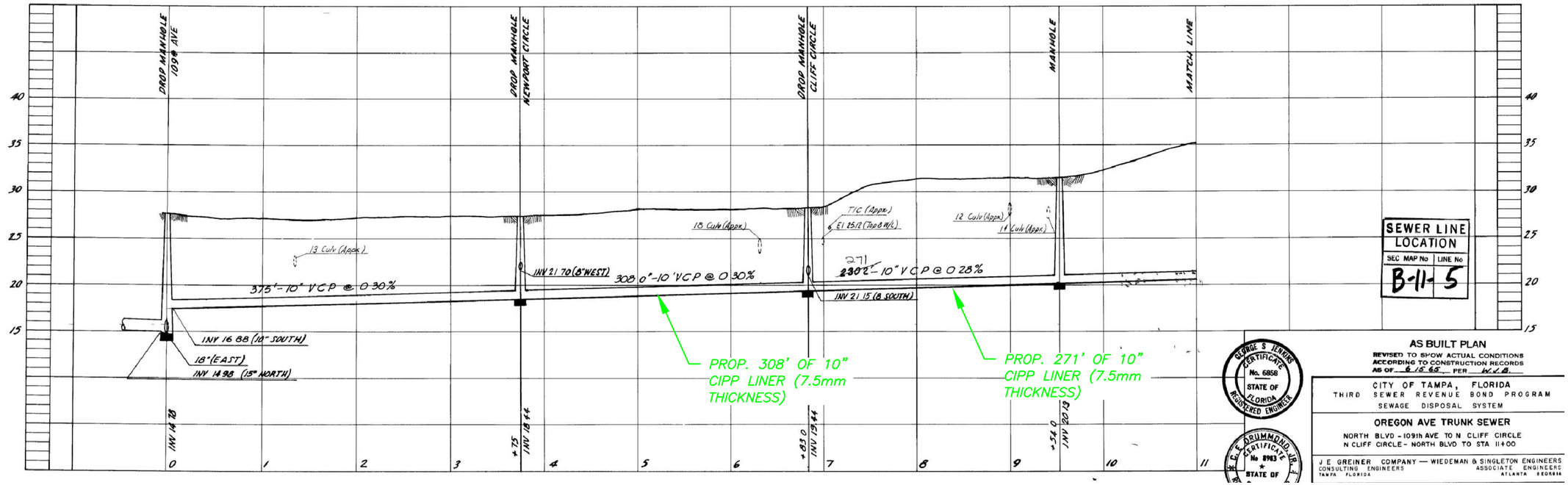
NEWPORT CIRCLE

SENECA

N CLIFF CIRCLE

GOLFLAND NORTHSIDE COUNTRY CLUB AREA
UNIT NO 2

MATCH LINE STA 11+00



SEWER LINE LOCATION
SEC MAP No B-11 | LINE No 5

AS BUILT PLAN
REVISED TO SHOW ACTUAL CONDITIONS ACCORDING TO CONSTRUCTION RECORDS AS OF 6-15-65 PER W.L.B.

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWAGE DISPOSAL SYSTEM

OREGON AVE TRUNK SEWER
NORTH BLVD - 109th AVE TO N CLIFF CIRCLE
N CLIFF CIRCLE - NORTH BLVD TO STA 11+00

J.E. GREINER COMPANY — WIEDEMAN & SINGLETON ENGINEERS
CONSULTING ENGINEERS TAMPA FLORIDA
ASSOCIATE ENGINEERS ATLANTA GEORGIA

GEORGE S. TERKINS CERTIFICATE No. 6858 STATE OF FLORIDA REGISTERED ENGINEER

J.E. DRUMMOND CERTIFICATE No. 8963 STATE OF

PLOTTED BY Greg Peoples 8:39:26 AM
DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\26 Asbuilt 093-010 North Blvd.dwg
LAST SAVED BY ssh5
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09, 2013

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
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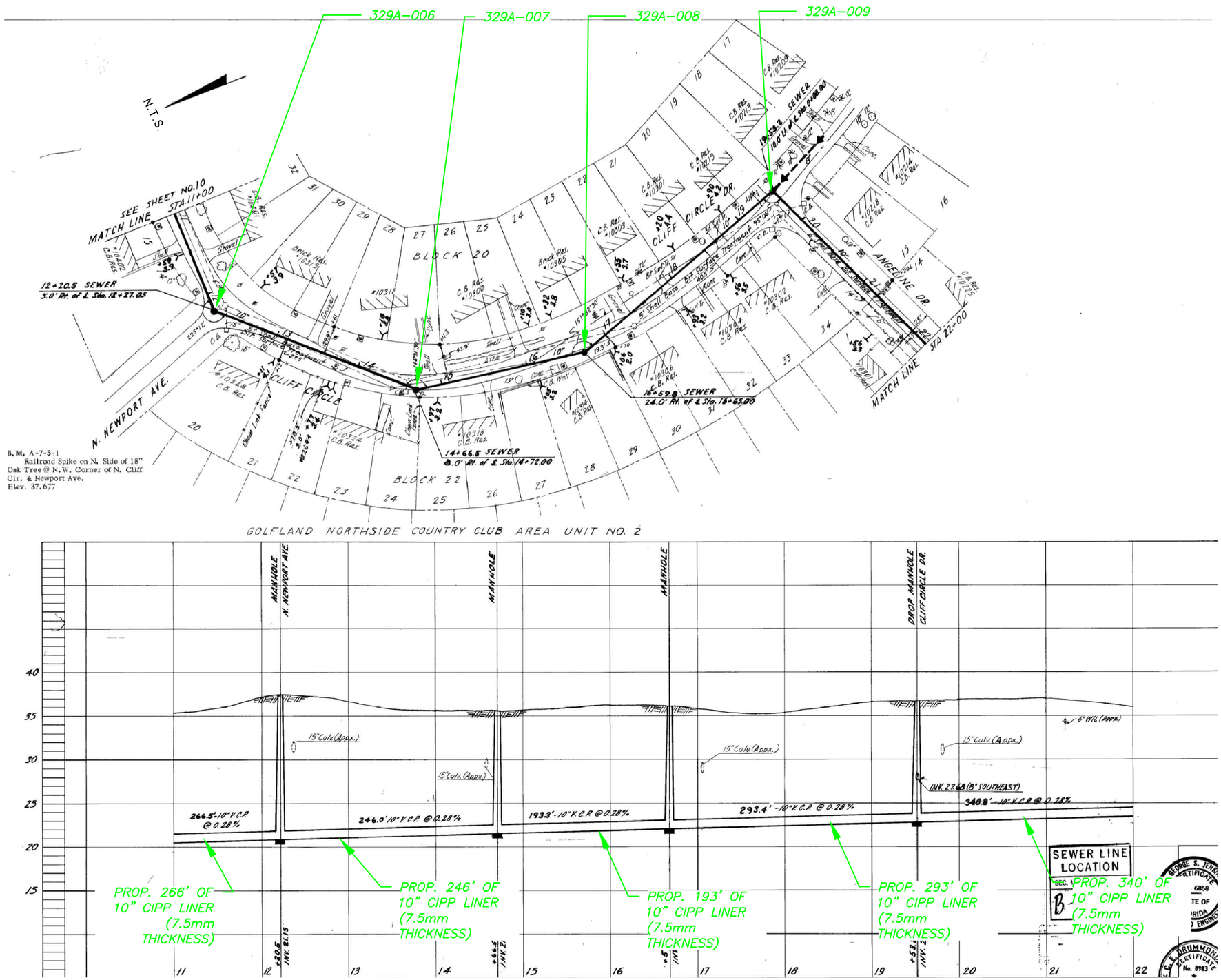
DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 093-010 NORTH BLVD

W.O. 5969
SHEET 26 OF 32

B079-027



	No.	DATE	REVISIONS			
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3			DES: CLB DRN: GAP CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION ASBUILT 093-011 CLIFF CIRCLE	W.O. 5969 SHEET 27 OF 32
	2						
	1						

PLOTTED BY Greg Peoples 8:39:35 AM
LAST SAVED BY ssh5
DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\27 Asbuilt 093-011 Cliff Circle.dwg
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09, 2013

PLOTTED BY Greg Peoples 8:39:46 AM
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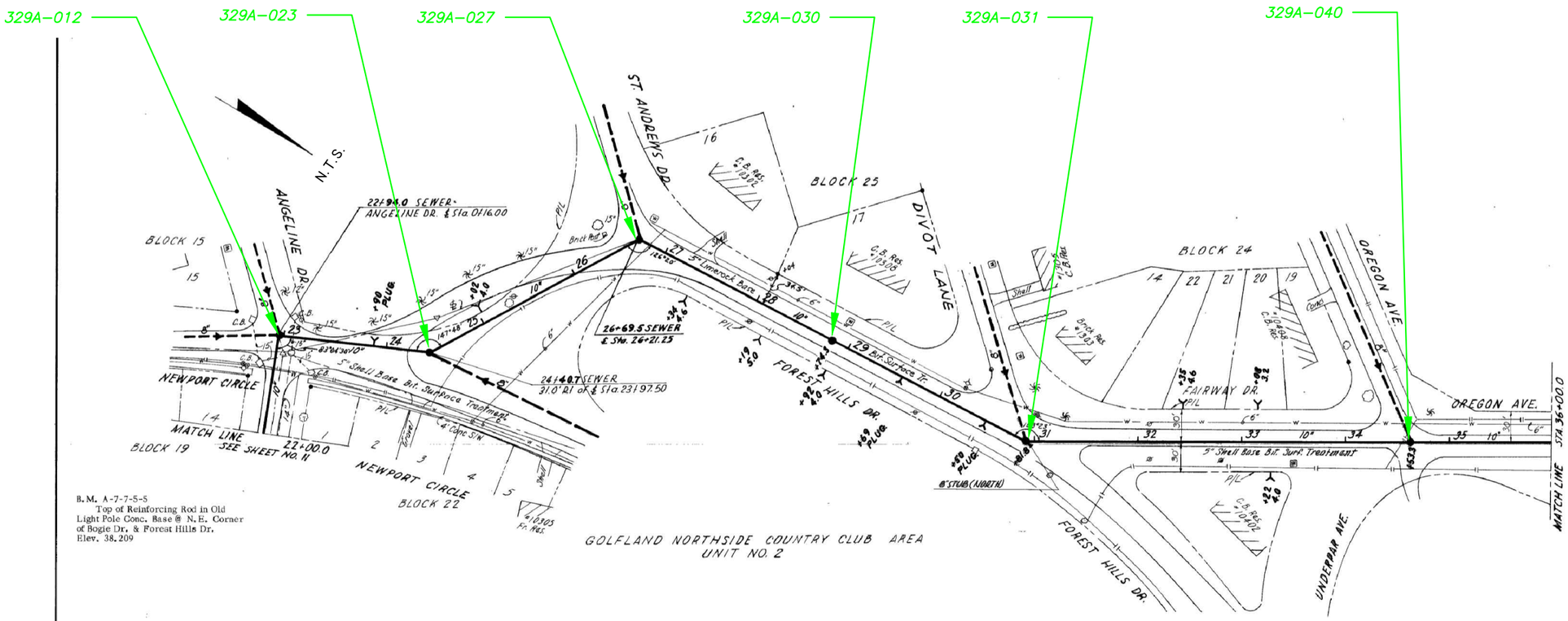
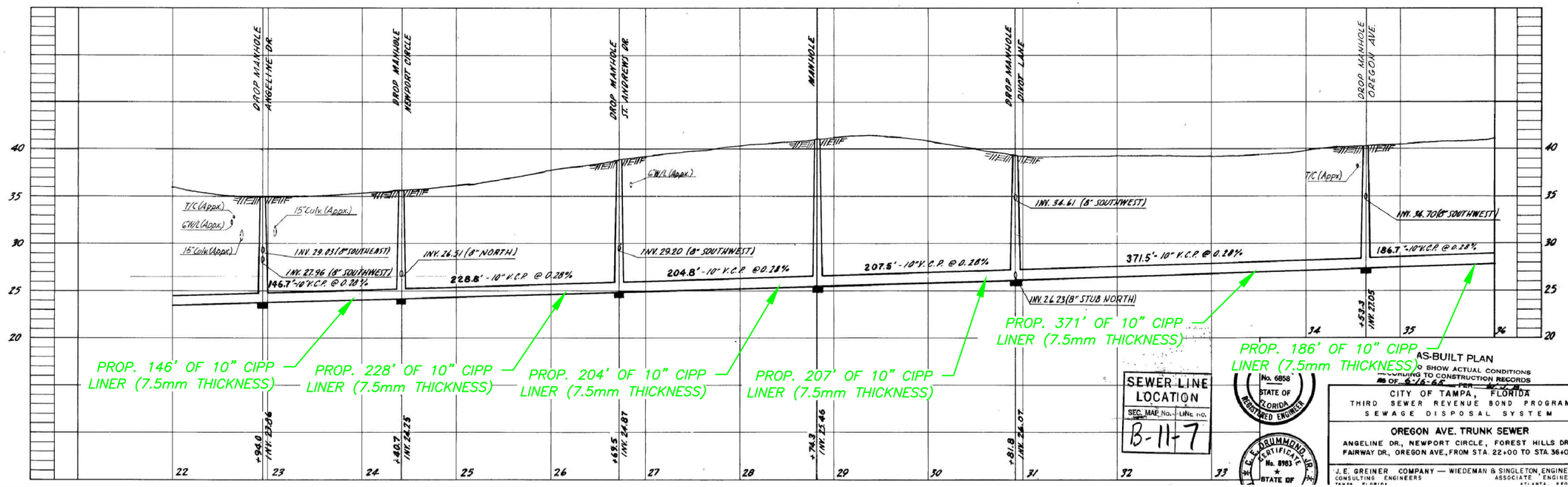
LAST SAVED BY ssh5
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09, 2013

B079-028

329A-012 329A-023 329A-027 329A-030 329A-031 329A-040





SEWER LINE LOCATION
SEC. MAP No. B-11-7 LINE no.

AS-BUILT PLAN
To show actual conditions pertaining to construction records
As of 8-16-65 per K.C.F.

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRAM
SEWAGE DISPOSAL SYSTEM
OREGON AVE. TRUNK SEWER
ANGELINE DR., NEWPORT CIRCLE, FOREST HILLS DR., FAIRWAY DR., OREGON AVE., FROM STA. 22+00 TO STA. 36+00
J. E. GREINER COMPANY — WIEDEMAN & SINGLETON, ENGINEERS
CONSULTING ENGINEERS — ASSOCIATE ENGINEERS
TAMPA, FLORIDA — ATLANTA, GEORGIA

No. 6858 STATE OF FLORIDA REGISTERED ENGINEER
C. E. ARUMMOND, JR. CERTIFICATE No. 8983 STATE OF

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
3		
2		
1		

DES: CLB
DRN: ----
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 093-012 FOREST HILLS

W.O. 5969
SHEET 28 OF 32

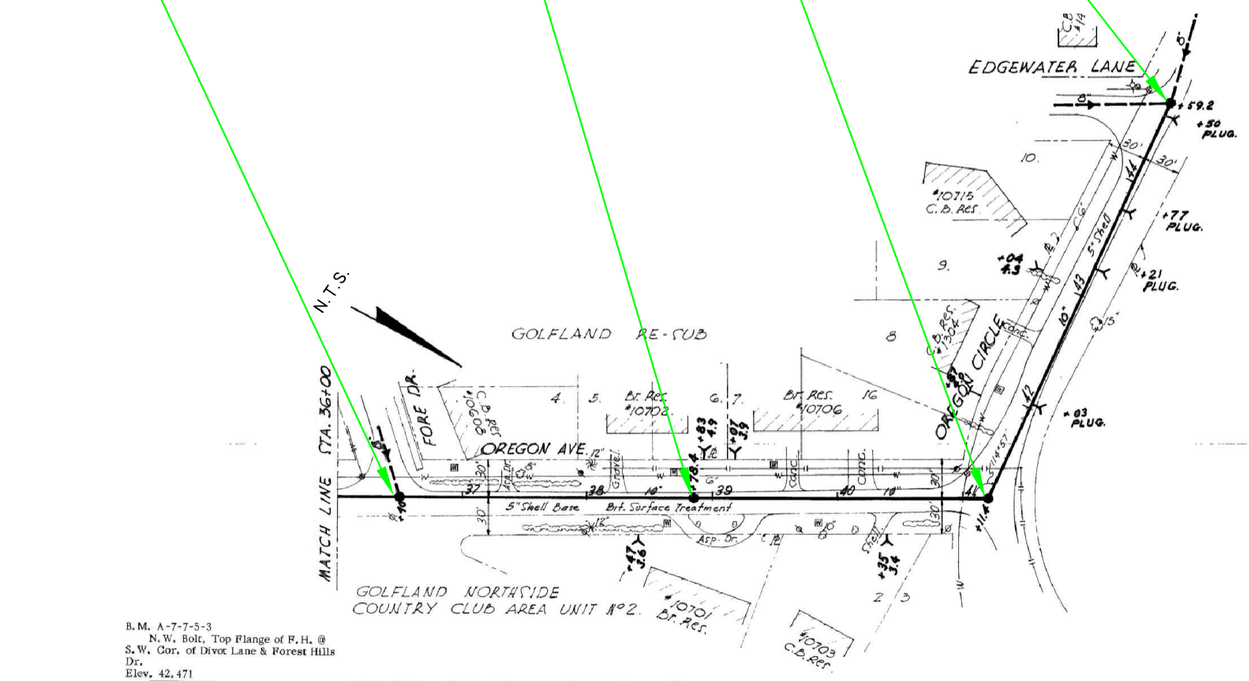
B079-029

329A-044

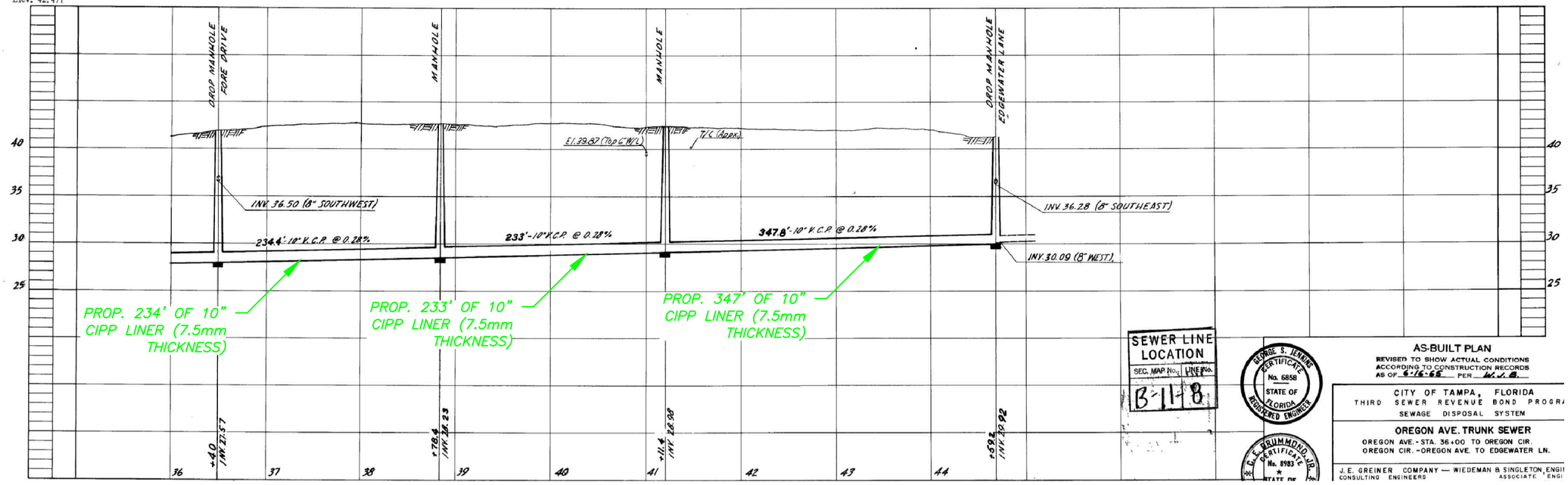
329A-046

329A-047

329A-050



B.M. A-7-7-5-3
N.W. Bolt, Top Flange of F.H. @ S.W. Cor. of Divot Lane & Forest Hills Dr.
Elev. 42.471



SEWER LINE LOCATION
SEC. MAP No. B-11-8 LINE No.

GEORGE S. JENNINGS CERTIFICATE No. 6858 STATE OF FLORIDA REGISTERED ENGINEER

C.E. BRUMMOND, JR. CERTIFICATE No. 8983 STATE OF

AS-BUILT PLAN
REVISED TO SHOW ACTUAL CONDITIONS ACCORDING TO CONSTRUCTION RECORDS AS OF 6-16-65 PER W.J.B.

CITY OF TAMPA, FLORIDA
THIRD SEWER REVENUE BOND PROGRA
SEWAGE DISPOSAL SYSTEM

OREGON AVE. TRUNK SEWER
OREGON AVE. - STA. 36+00 TO OREGON CIR.
OREGON CIR. - OREGON AVE. TO EDGEWATER LN.

J.E. GREINER COMPANY — WIEDEMAN & SINGLETON, ENGI
CONSULTING ENGINEERS ASSOCIATE ENGI

PLOTTED BY 8:39:56 AM Greg Peoples LAST SAVED BY ssh5 DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\29 Asbuilt 093-013 Oregon Ave.dwg CTB - WW-TOSHIBA.CTB PLOT DATE: Monday, December 09, 2013

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
3		
2		
1		

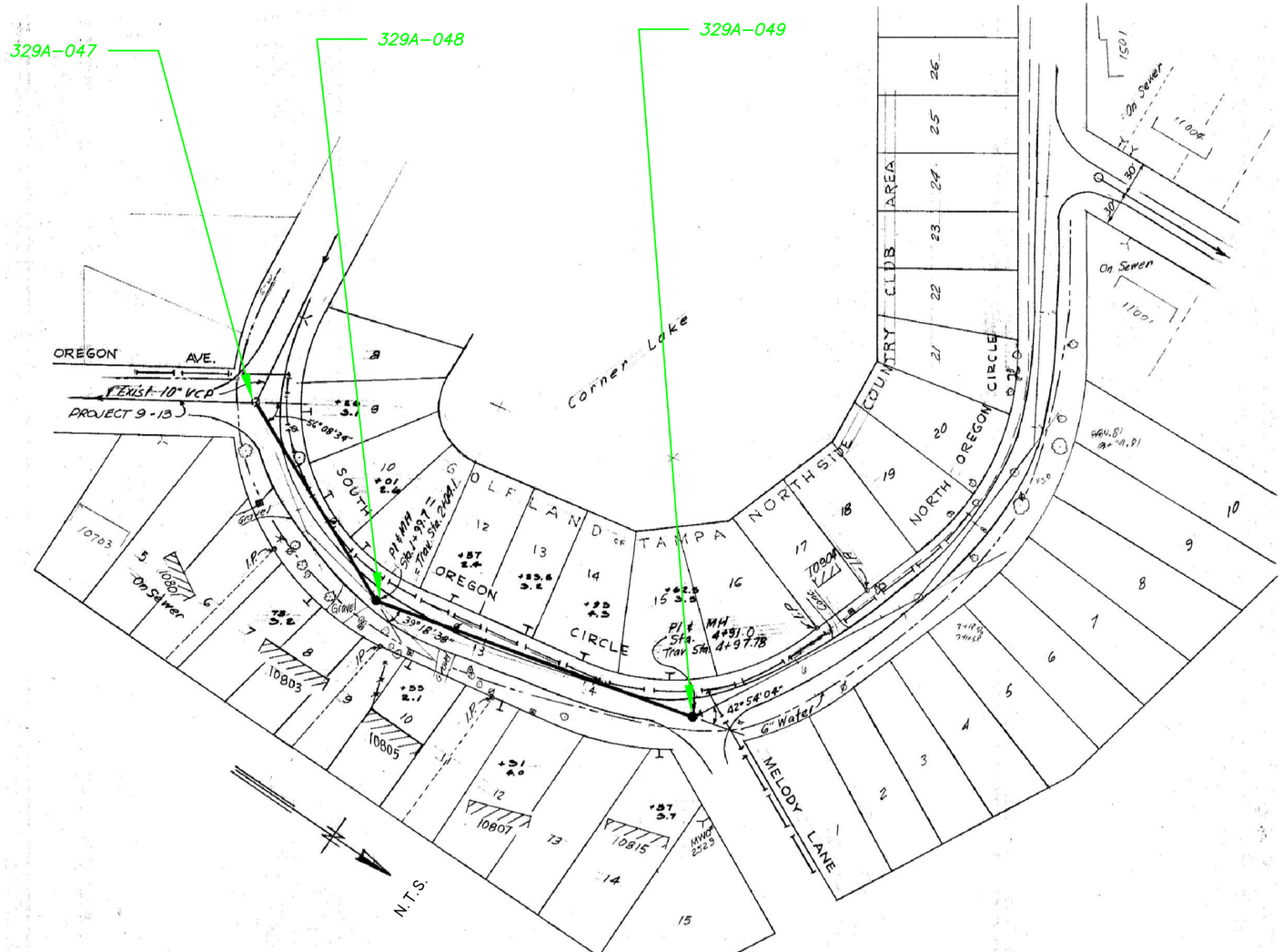
DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 093-013 OREGON AVE

W.O. 5969
SHEET 29 OF 32

B079-030



No.	DATE	REVISIONS
3		
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1		

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 120-019 OREGON AVE

W.O. 5969
SHEET 30 OF 32

PLOTTED BY Greg Peoples LAST SAVED BY ssh5 8:40:05 AM
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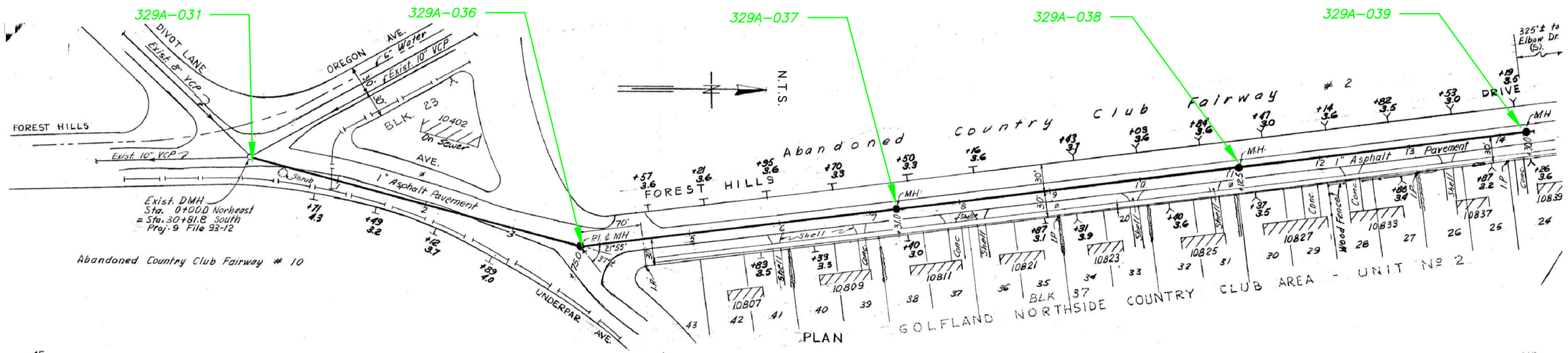
CTB - WW-TOSHIBA.CTB
PLOT DATE: Monday, December 09, 2013

B079-031



NOTES:
1. Datum: T.B.M. A-7-7-5-3 (3rd Prog.); Elev. 42.41' N.W. Bolt, Top Flange of Fire hydrant @ S.W. corner of Divot Lane and Forest Hills Drive.

PLOTTED BY Greg Peoples DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\31 Asbuilt 112-006 Forest Hills Dr.dwg PLOT DATE: Monday, December 09, 2013 8:40:15 AM LAST SAVED BY ssh5 CTB - WW-TOSHIBA.CTB

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
3		
2		
1		

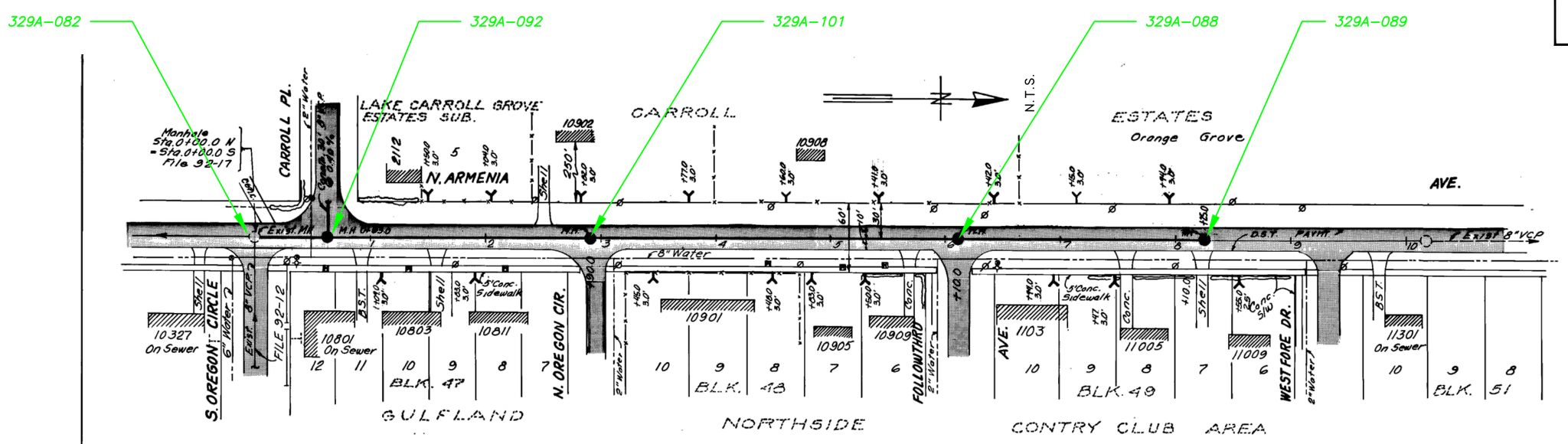
DES: CLB
DRN: GAP
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

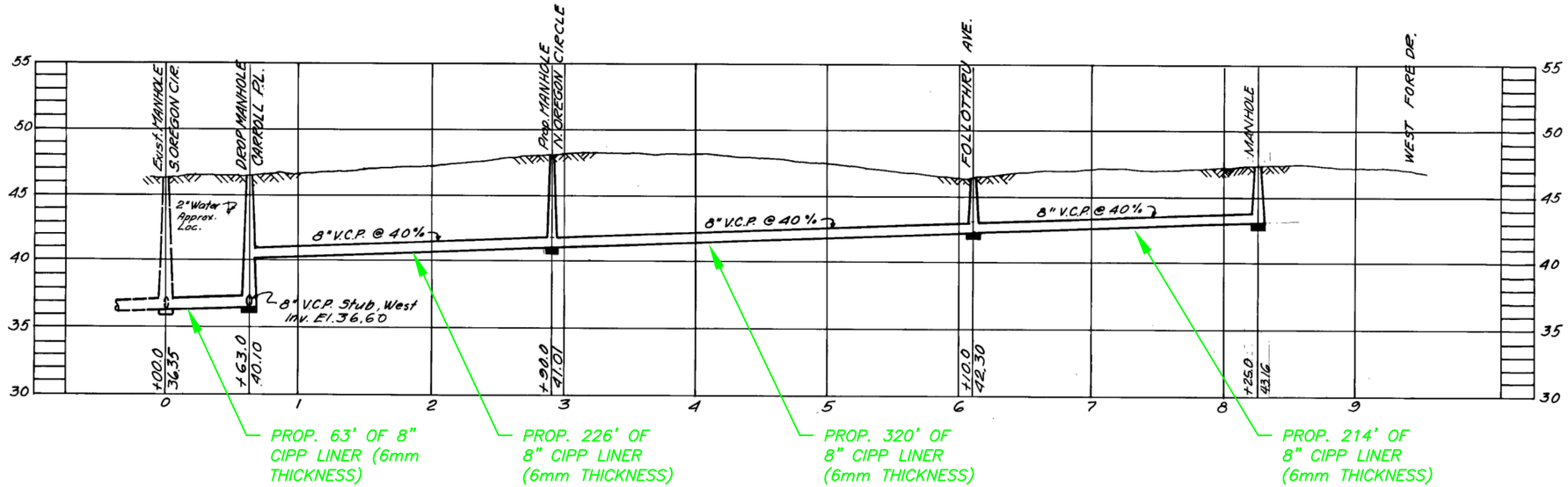
FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION
ASBUILT 112-006 FOREST HILLS DR

W.O. 5969
SHEET 31 OF 32

B079-032



PLAN



	No.	DATE	REVISIONS			
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3			DES: CLB DRN: GAP CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FOREST HILLS COLLECTION SYSTEM CIPP REHABILITATION ASBUILT 117-17A N ARMENIA AVE	W.O. 5969 SHEET 32 OF 32
	2						
	1						

PLOTTED BY 8:40:22 AM Greg Peoples LAST SAVED BY ssh5 DRAWING FILE K:\WW_Projects\2013\2013_WO_FOREST HILLS COLLECTION\Dwg\Details\Asbuilt 117-17a N.Armenia Ave.dwg CTB – WW-TOSHIBA.CTB PLOT DATE: Monday, December 09, 2013