

REVISION	DATE	DESCRIPTION	BY

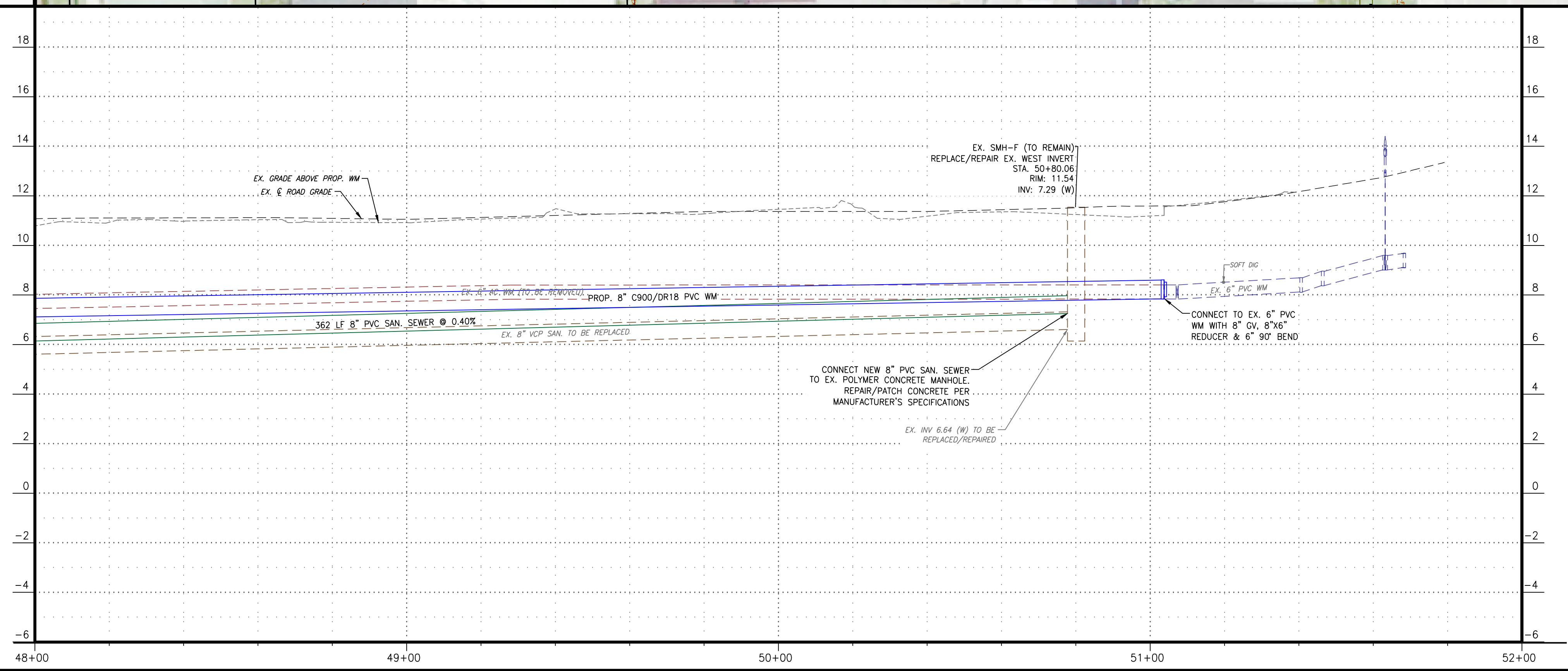
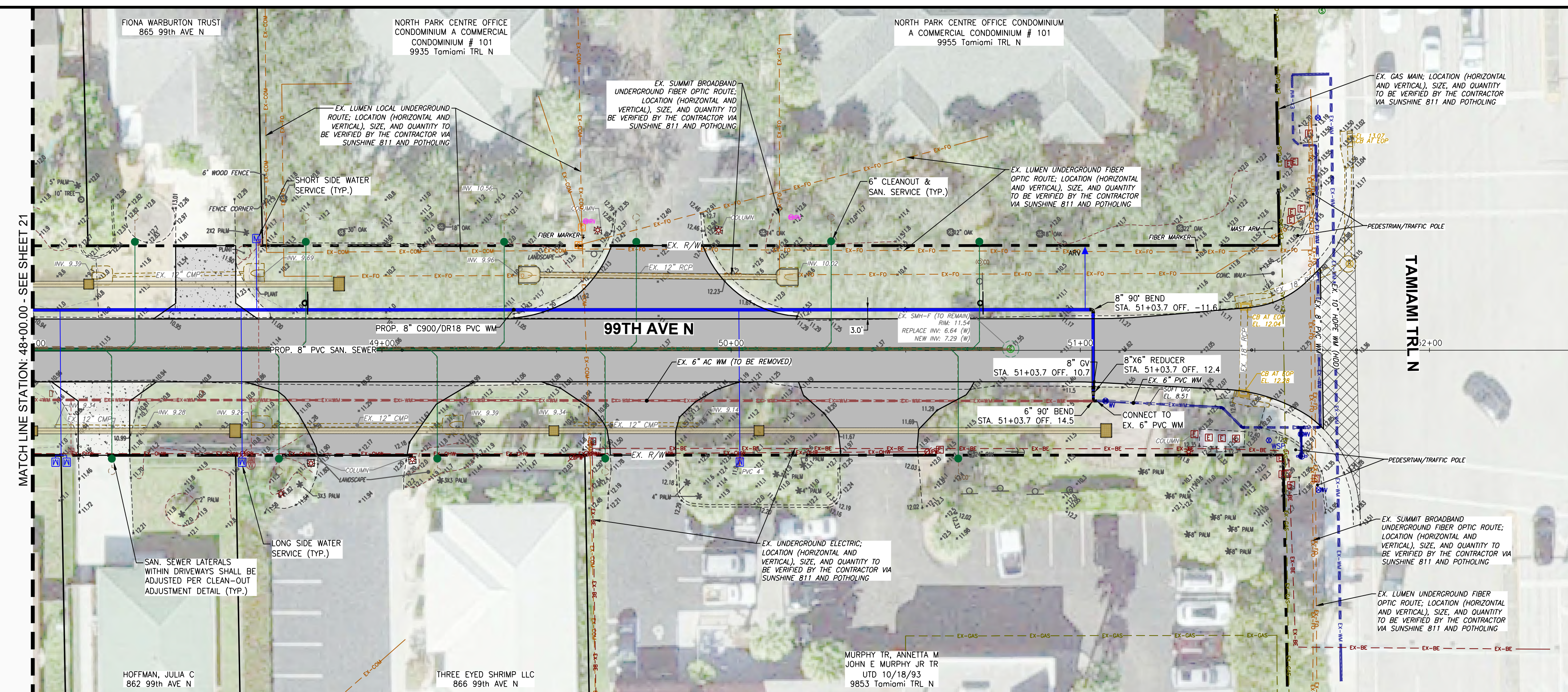
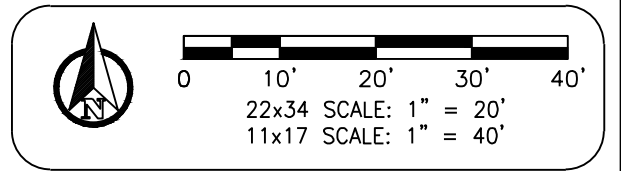
DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285  
 22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

**GradyMinor**  
 Q. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134  
 Civil Engineers • Land Surveyors • Planners • Landscape Architects  
 Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151 Business LC 26000266  
 Fort Myers: 239.947.1144 www.GradyMinor.com

**98th & 99th Avenue North - Public Utilities Renewal**  
**99TH AVE. N. - UTILITY PLAN & PROFILE**  
**STA. 42+00.00 TO 48+00.00**  
 ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
 SEC/TWN/RGE: 28/48/25  
 DATE: MARCH, 2022  
 SUBMITTAL TYPE: BID  
 SHEET 21 OF 99  
 JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 66086

G:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - UTILITY PLAN & PROFILE.dwg 4/21/2023 2:09 PM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL: 1" = 6'  
 HORIZONTAL: 1" = 40'  
 11X17 SCALE:  
 VERTICAL: 1" = 3'  
 HORIZONTAL: 1" = 20'

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O. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134  
 Business LC 26000266

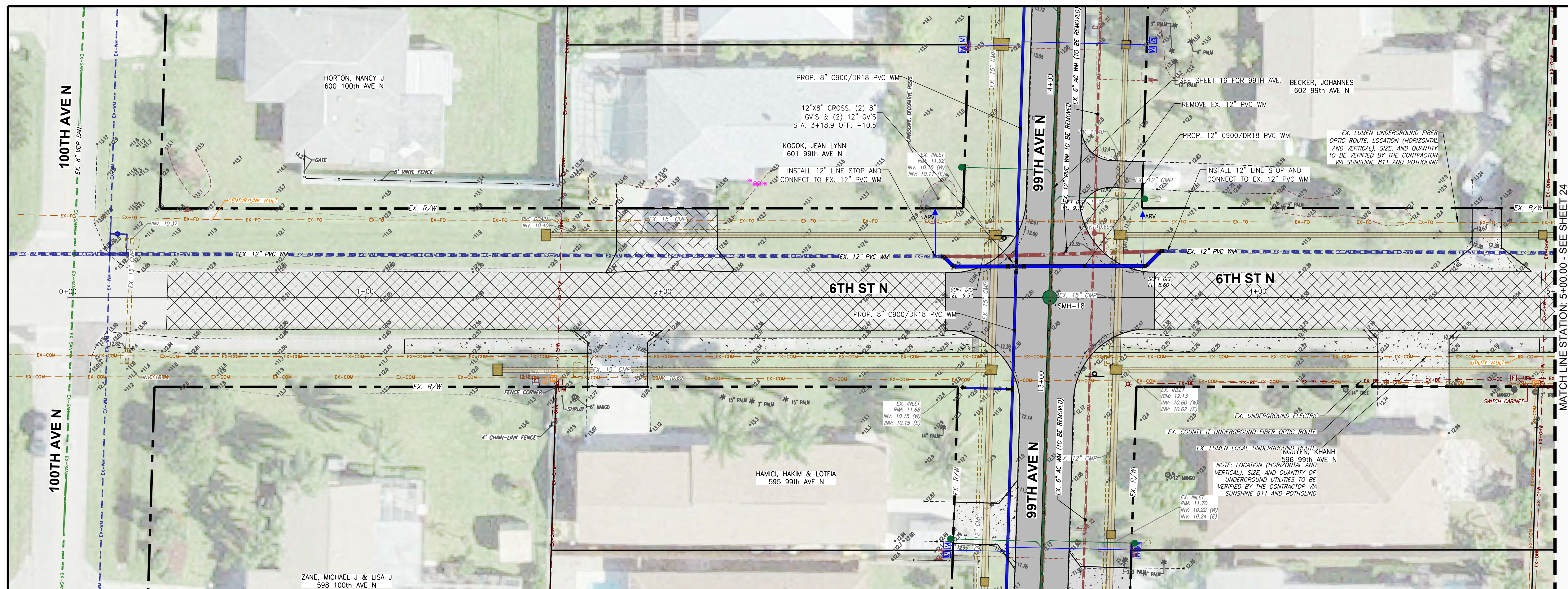
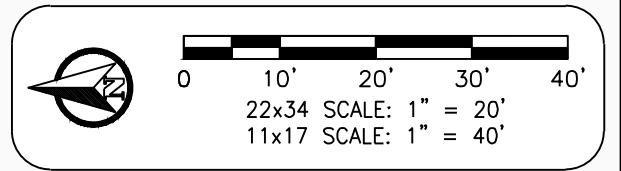
**98th & 99th Avenue North - Public Utilities Renewal**

99TH AVE. N. - UTILITY PLAN & PROFILE  
 STA. 48+00.00 TO 52+00.00

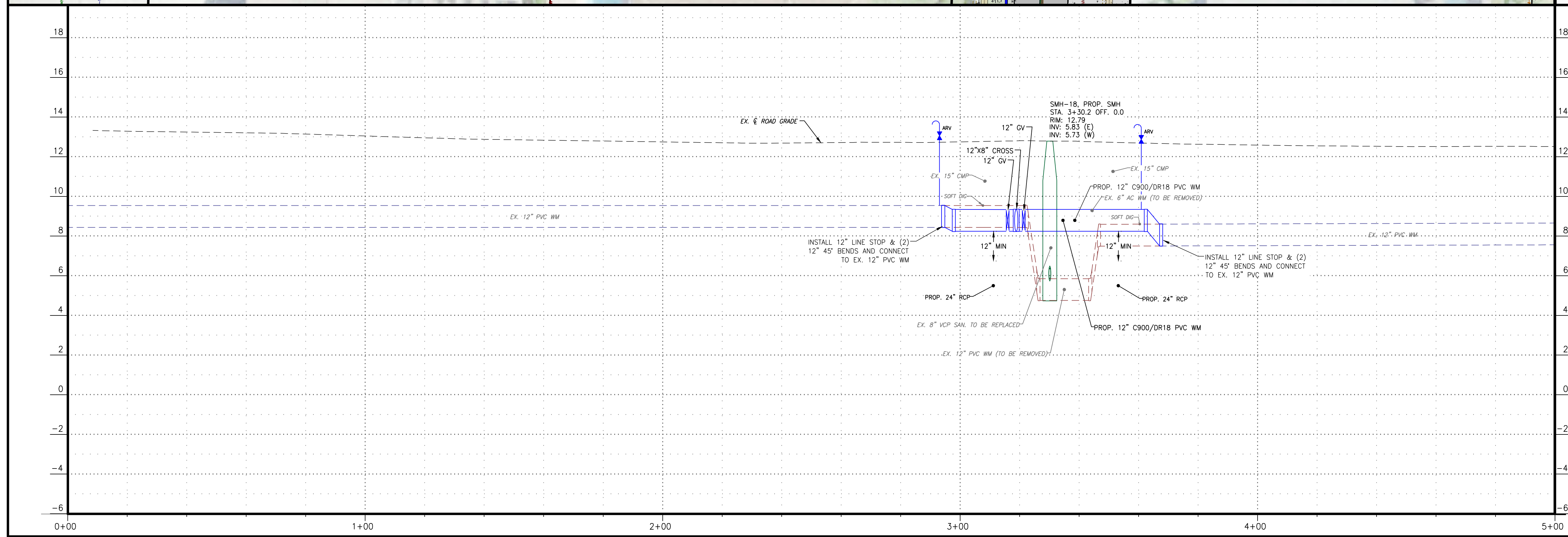
ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC/TWN/RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 22 OF 99

G:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - UTILITY PLAN - 4/21/2023 2:11 PM



MATCH LINE STATION: 5+00.00 - SEE SHEET 24



REVISION	DATE	DESCRIPTION	BY

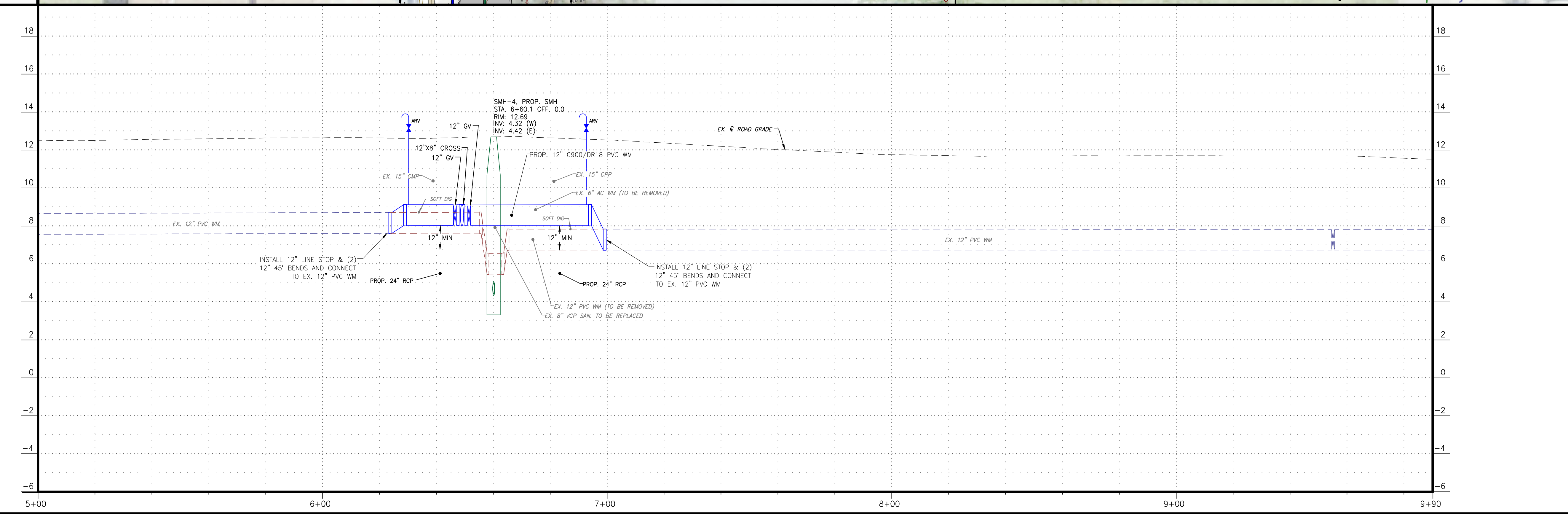
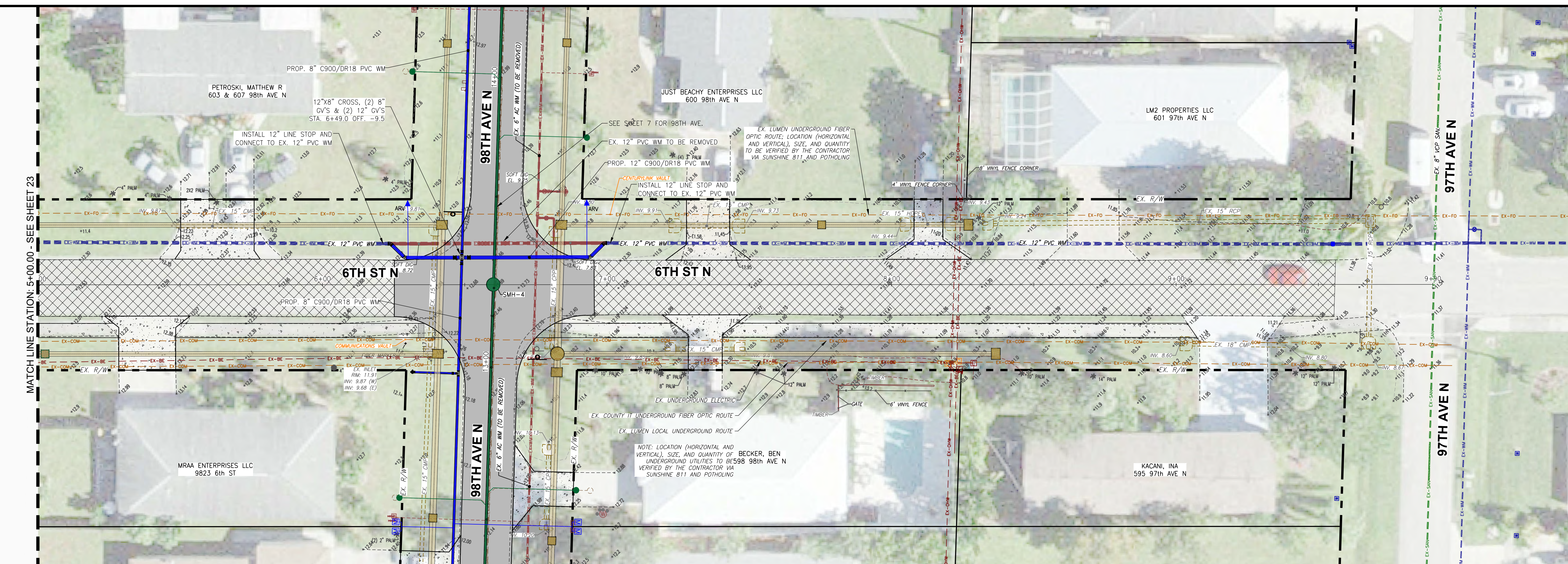
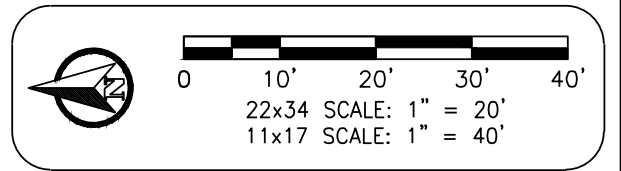
DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285  
 22X34 SCALE:  
 VERTICAL: 1" = 6'  
 HORIZONTAL: 1" = 40'  
 11X17 SCALE:  
 VERTICAL: 1" = 3'  
 HORIZONTAL: 1" = 20'

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 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380

**98th & 99th Avenue North - Public Utilities Renewal**  
 6TH ST. N. - UTILITY PLAN & PROFILE  
 STA. 0+00.00 TO 5+00.00  
 ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC/TWN/RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 23 OF 99

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - UTILITY PLAN - 4/21/2023 2:14 PM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285  
 22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

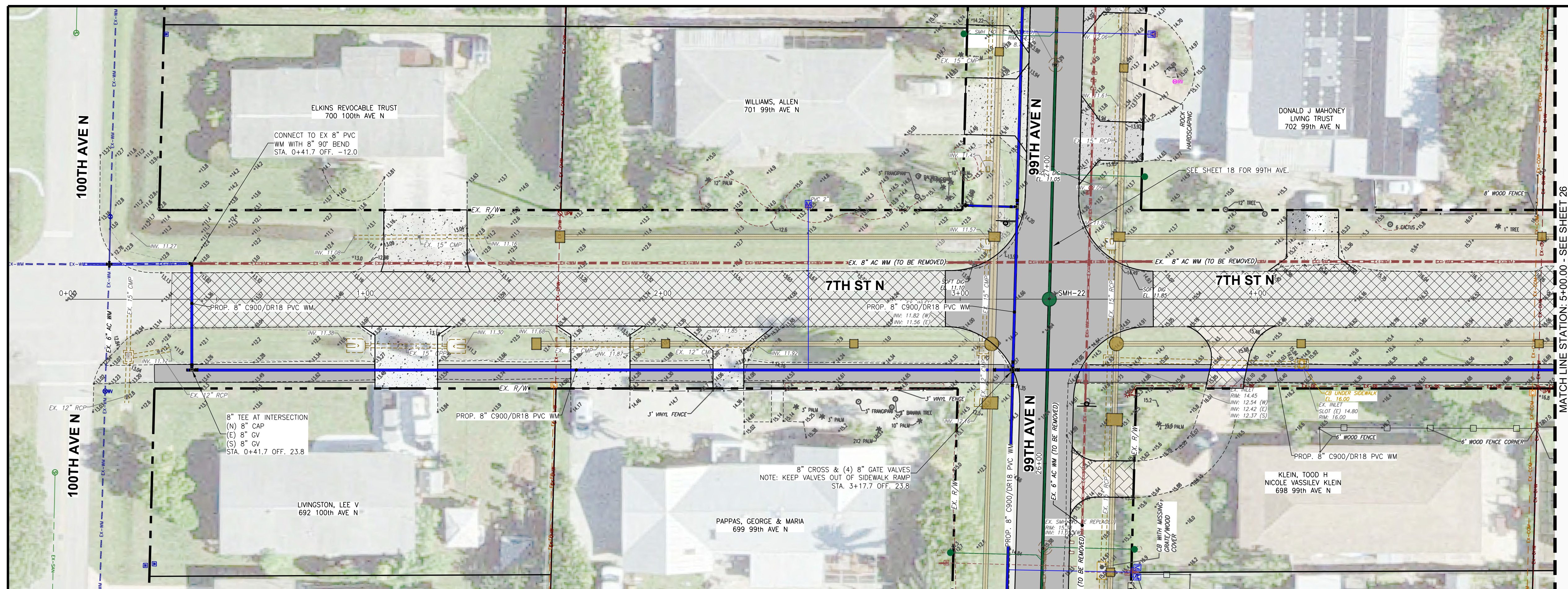
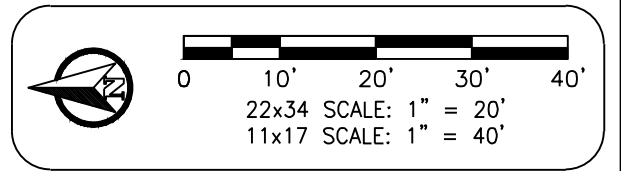
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Q. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134  
 Business LC 26000266

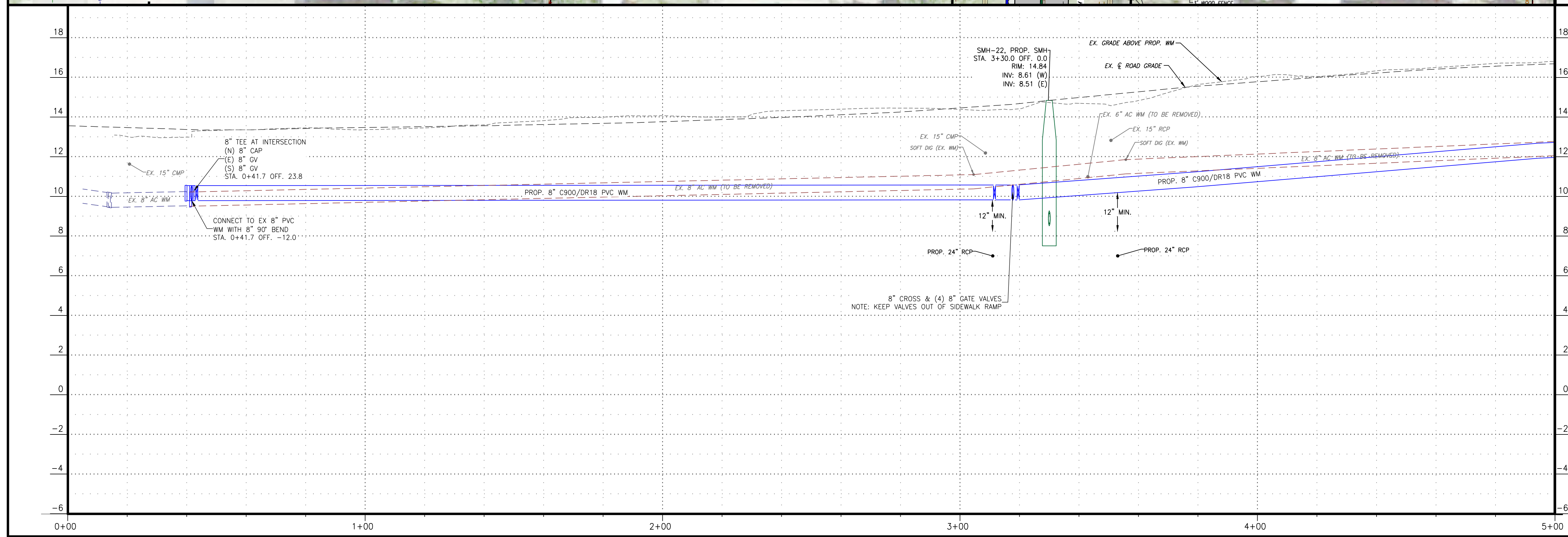
**98th & 99th Avenue North - Public Utilities Renewal**  
**6TH ST. N. - UTILITY PLAN & PROFILE**  
**STA. 5+00.00 TO 9+90.00**  
 ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC/TWN/RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 24 OF 99

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - UTILITY PLAN - 4/21/2023 11:35 AM



MATCH LINE STATION: 5+00.00 - SEE SHEET 28



REVISION	DATE	DESCRIPTION	BY

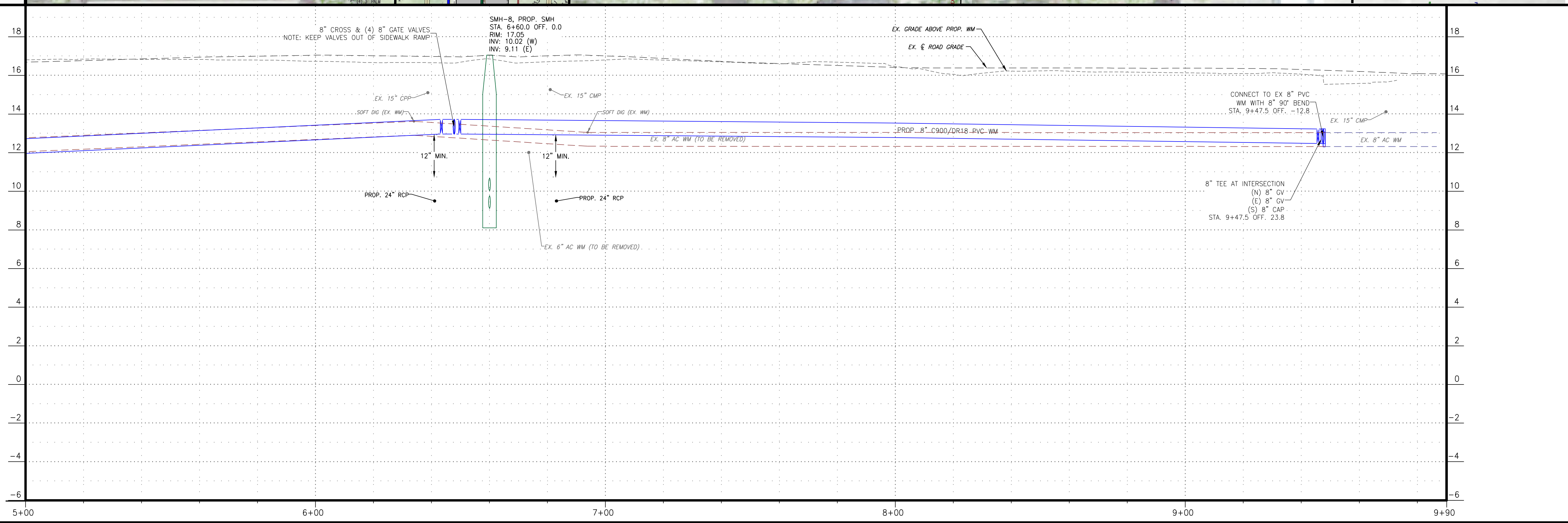
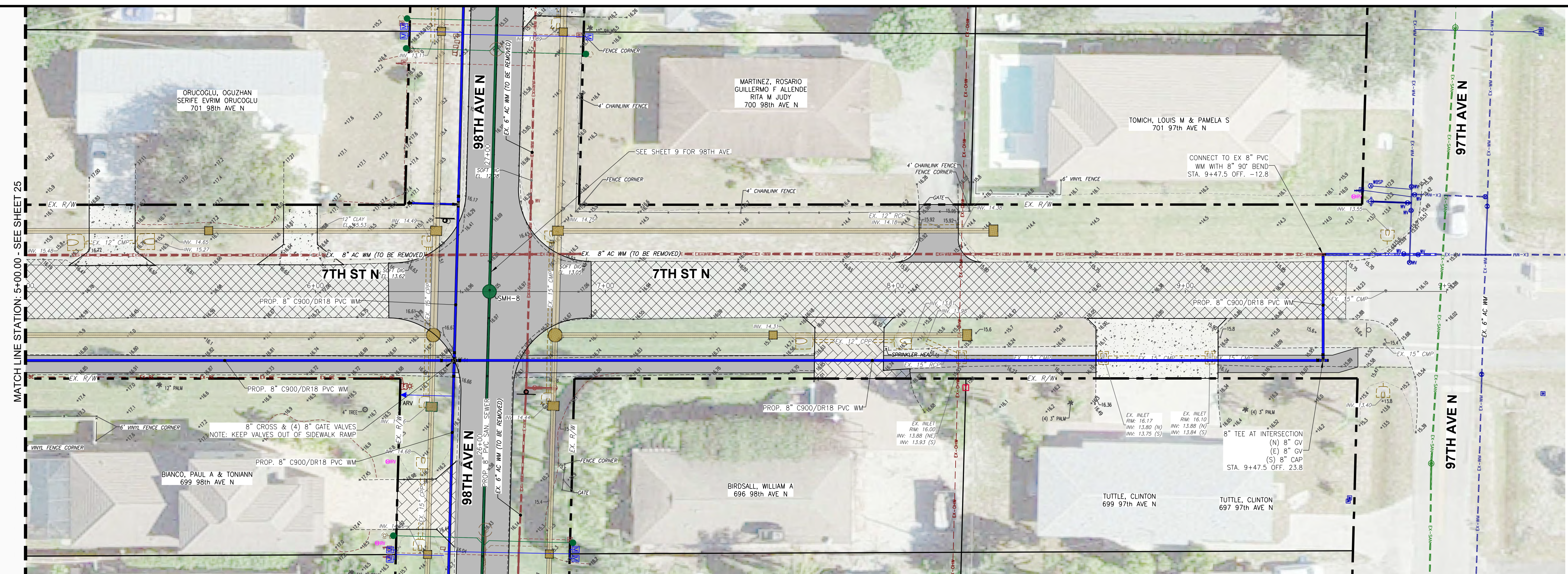
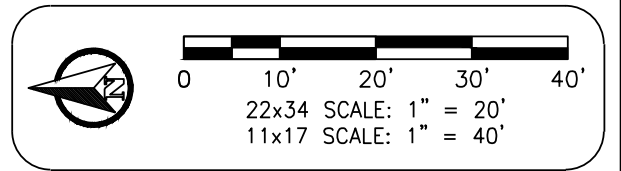
DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285  
 22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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**98th & 99th Avenue North - Public Utilities Renewal**  
 7TH ST. N. - UTILITY PLAN & PROFILE  
 STA. 0+00.00 TO 5+00.00  
 ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC/TWN/RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 25 OF 99

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - UTILITY PLAN & PROFILE.dwg 4/21/2023 2:16 PM



REVISION	DATE	DESCRIPTION	BY

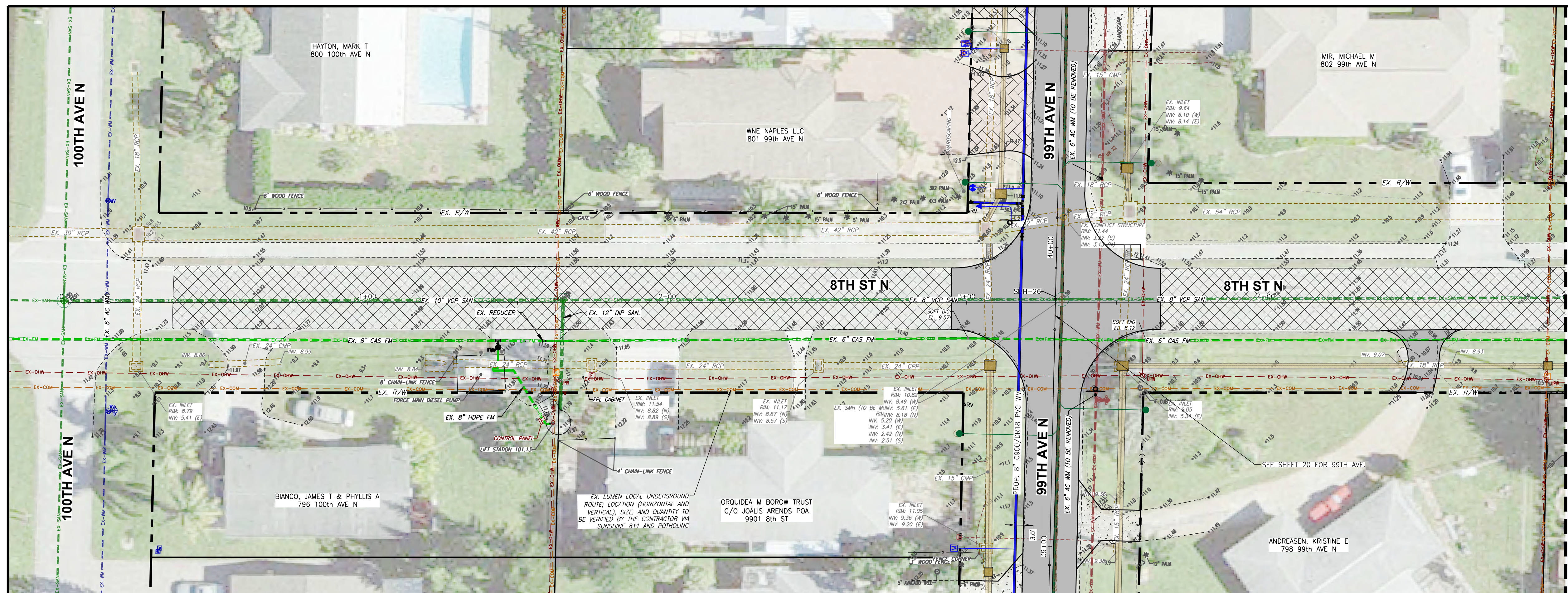
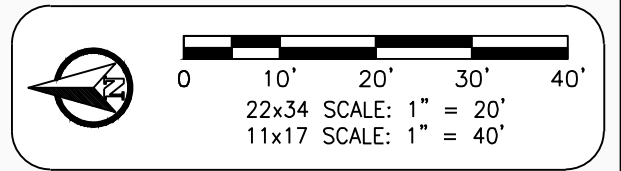
DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285  
 22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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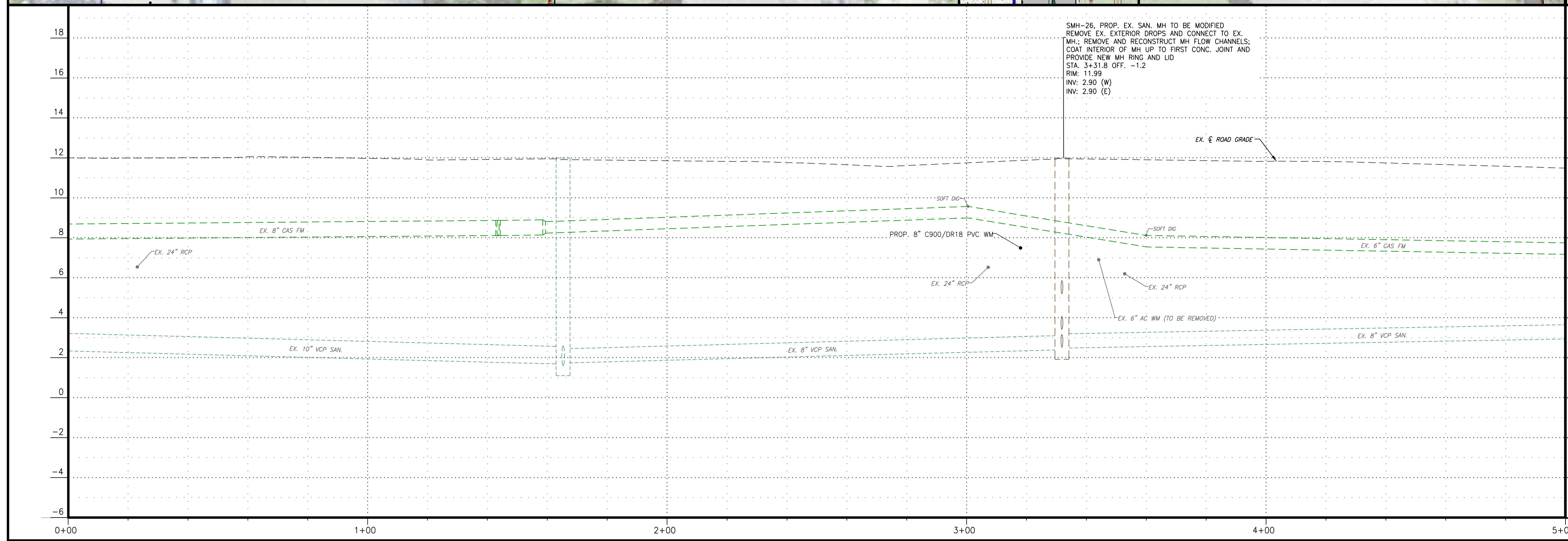
**98th & 99th Avenue North - Public Utilities Renewal**  
 7TH ST. N. - UTILITY PLAN & PROFILE  
 STA. 5+00.00 TO 9+90.00  
 ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
 SEC/TWN/RGE: 28/48/25  
 DATE: MARCH, 2022  
 SUBMITTAL TYPE: BID  
 SHEET 26 OF 99  
 JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 66086

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - UTILITY.PK2 - 4/21/2023 11:37 AM



MATCH LINE STATION: 5+00.00 - SEE SHEET 28



SMH-26, PROP. EX. SAN. MH TO BE MODIFIED REMOVE EX. EXTERIOR PROPS AND CONNECT TO EX. MH.; REMOVE AND RECONSTRUCT MH FLOW CHANNELS; COAT INTERIOR OF MH UP TO FIRST CONC. JOINT AND PROVIDE NEW MH RING AND LID STA. 3+51.8 OFF. -1.2 RIM: 11.99 INV: 2.90 (W) INV: 2.90 (E)



REVISION	DATE	DESCRIPTION	BY

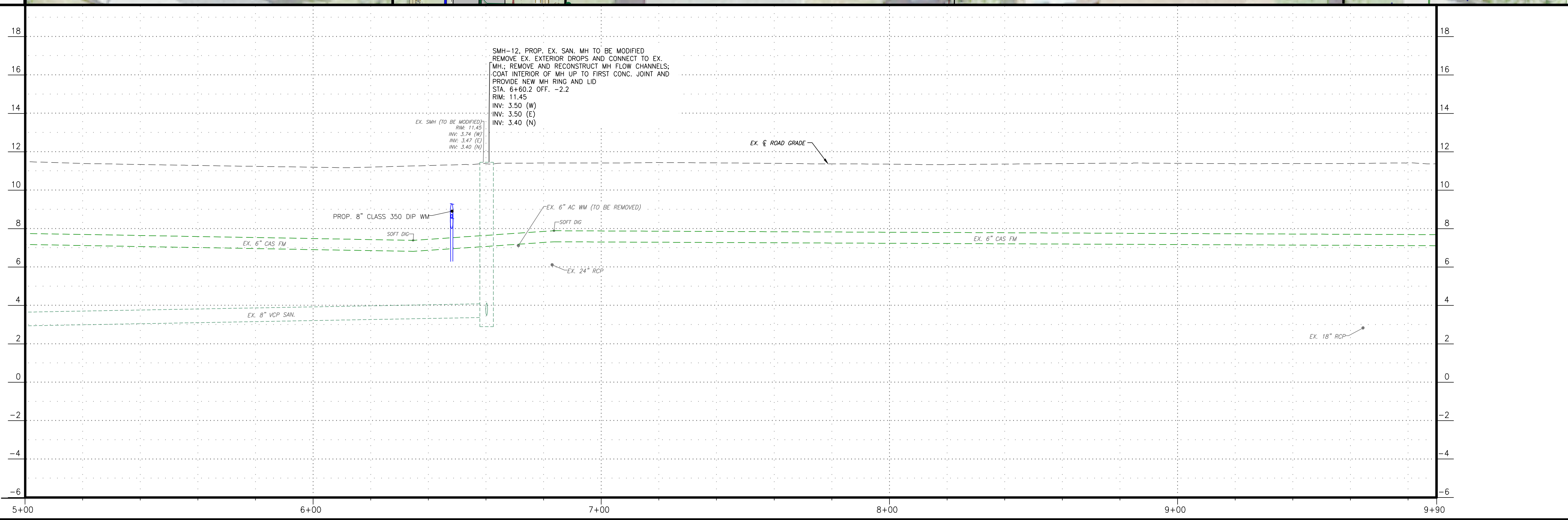
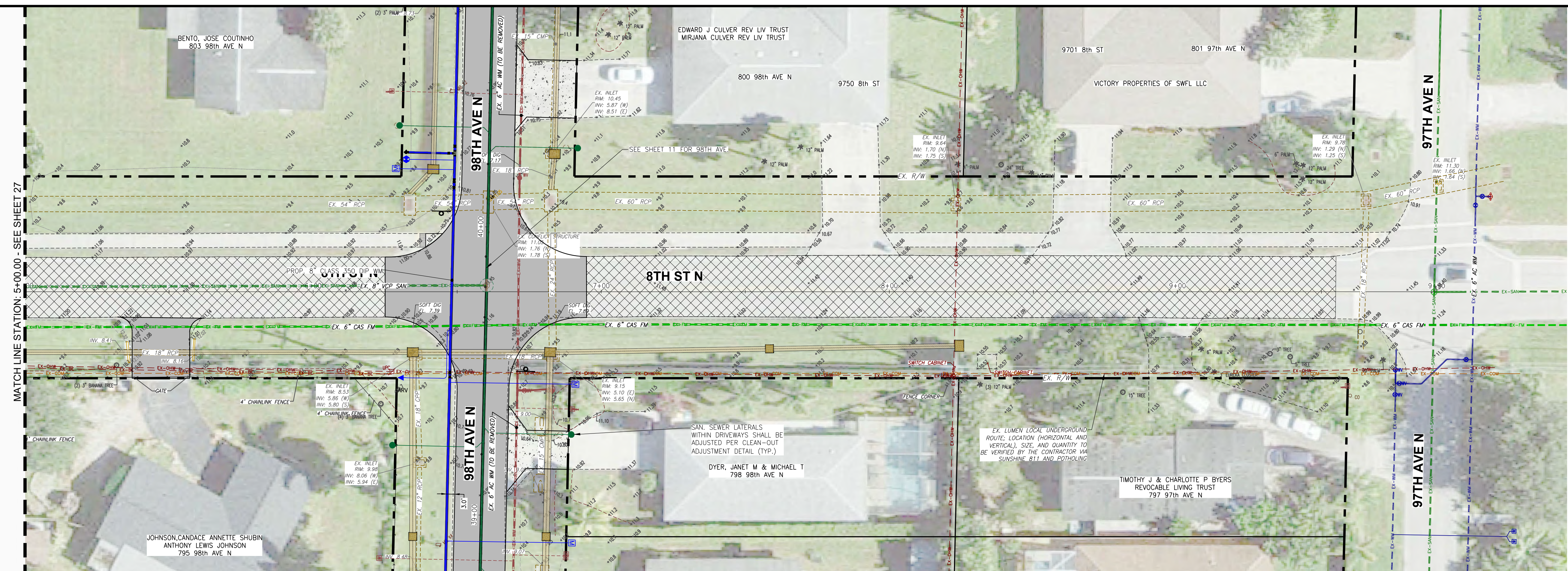
DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285  
 22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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 Bonita Springs, Florida 34134  
 Business LC 26000266  
 Fort Myers: 239.690.4380  
 www.GradyMinor.com  
 Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151  
 Bonita Springs: 239.947.1144

**98th & 99th Avenue North - Public Utilities Renewal**  
 8TH ST. N. - UTILITY PLAN & PROFILE  
 STA. 0+00.00 TO 5+00.00  
 ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC/TWN/RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 27 OF 99

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - UTILITY PLAN - 4/21/2023 2:29 PM



SMH-12, PROP. EX. SAN. MH TO BE MODIFIED REMOVE EX. EXTERIOR DROPS AND CONNECT TO EX. MH.; REMOVE AND RECONSTRUCT MH FLOW CHANNELS; COAT INTERIOR OF MH UP TO FIRST CONC. JOINT AND PROVIDE NEW MH RING AND LID STA. 6+60.2 OFF. -2.2 RIM: 11.45 INV: 3.50 (W) INV: 3.50 (E) INV: 3.40 (N)

EX. SMH (TO BE MODIFIED) RIM: 11.45 INV: 3.74 (W) INV: 3.47 (E) INV: 3.40 (N)

PROP. 8" CLASS 350 DIP WM

EX. 6" AC WM (TO BE REMOVED)

EX. 24" RCP

EX. 6" CAS FM

EX. 18" RCP



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE: VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE: VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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 Bonita Springs, Florida 34134  
 239.947.1144 www.GradyMinor.com

**98th & 99th Avenue North - Public Utilities Renewal**  
 8TH ST. N. - UTILITY PLAN & PROFILE  
 STA. 5+00.00 TO 9+90.00

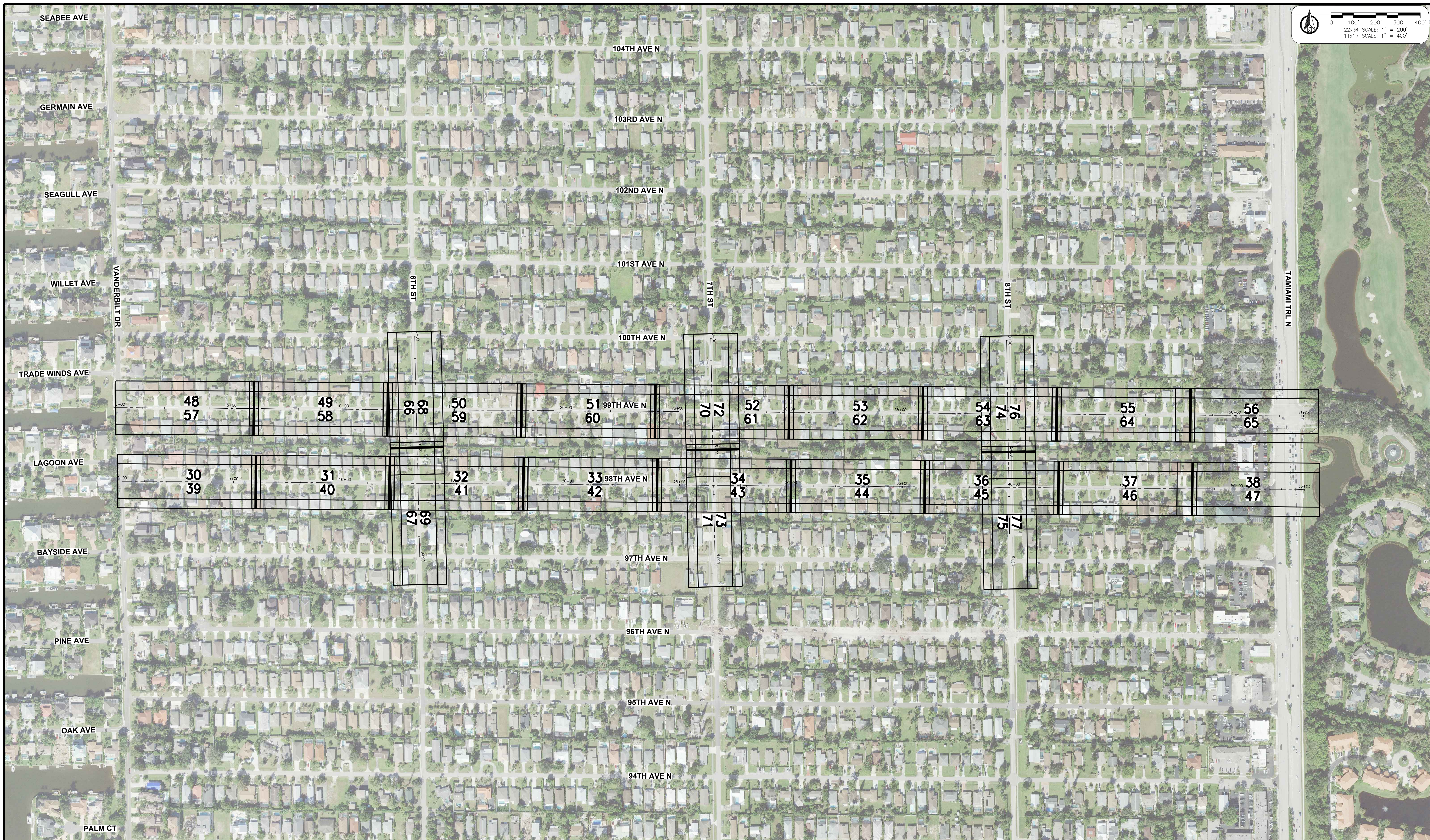
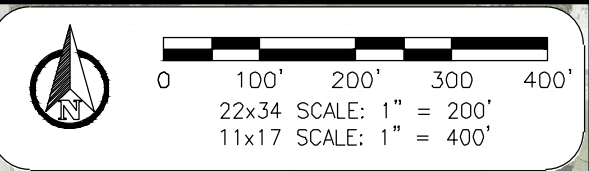
ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
 SEC./TWN/RGE: 28/48/25  
 DATE: MARCH, 2022  
 SUBMITTAL TYPE: BID  
 SHEET 28 OF 99

JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 66068

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - UTILITY PLAN & PROFILE - 4/21/2023 11:38 AM





REVISION	DATE	DESCRIPTION	BY

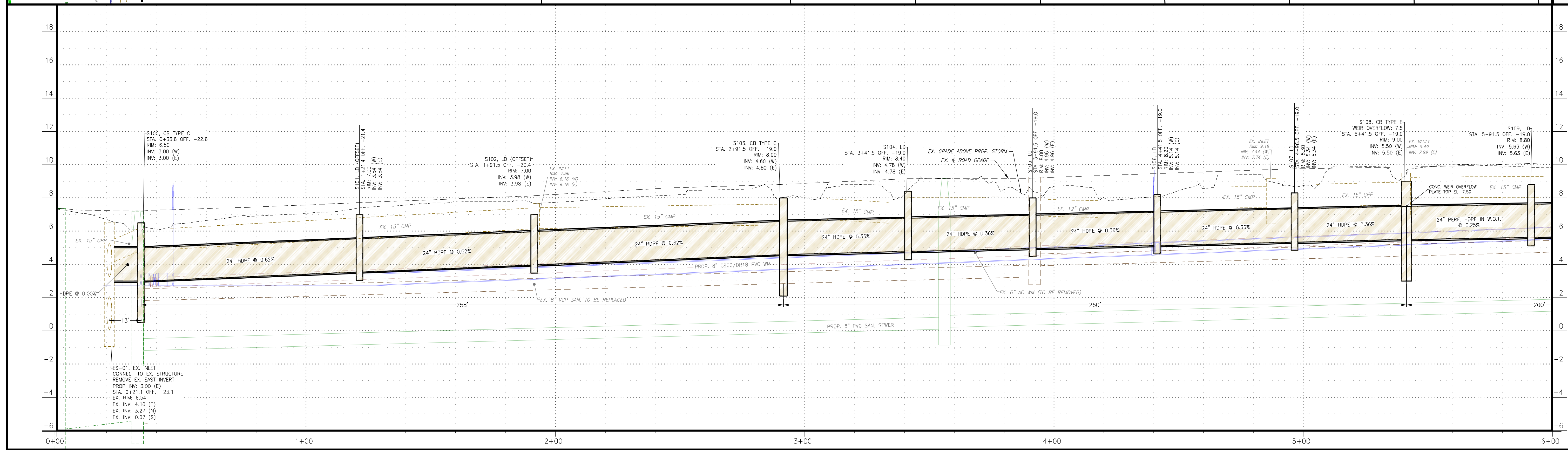
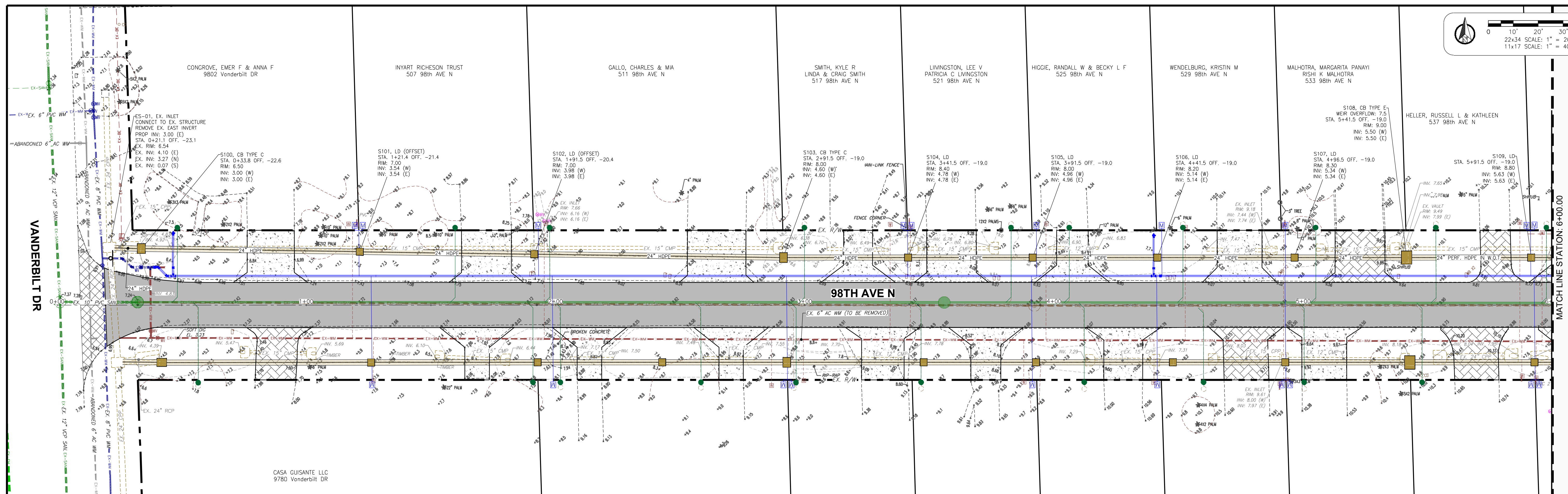
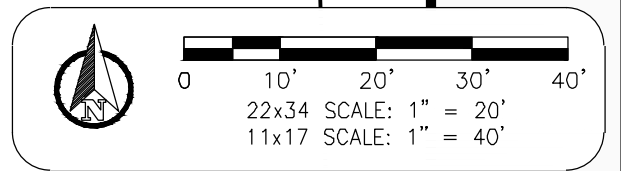
DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285  
 22X34 SCALE: 1" = 200'  
 11X17 SCALE: 1" = 400'

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**98th & 99th Avenue North - Public Utilities Renewal**  
**INDEX SHEET - STORMWATER IMPROVEMENTS**  
 ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY	JUSTIN A. FREDERIKSEN, P.E. FLORIDA P.E. LICENSE NO. 66086
SEC/TWN/RGE: 28/48/25	
DATE: MARCH, 2022	
SUBMITTAL TYPE: BID	
SHEET 29 OF 99	

C:\ENGINEERING\PROG-ENG\CCU285\01DWGSS\SUBMITTAL\TYPE CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - AERIAL - 4/21/2023 11:38 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151

Fort Myers: 239.947.1144 [www.GradyMinor.com](http://www.GradyMinor.com)

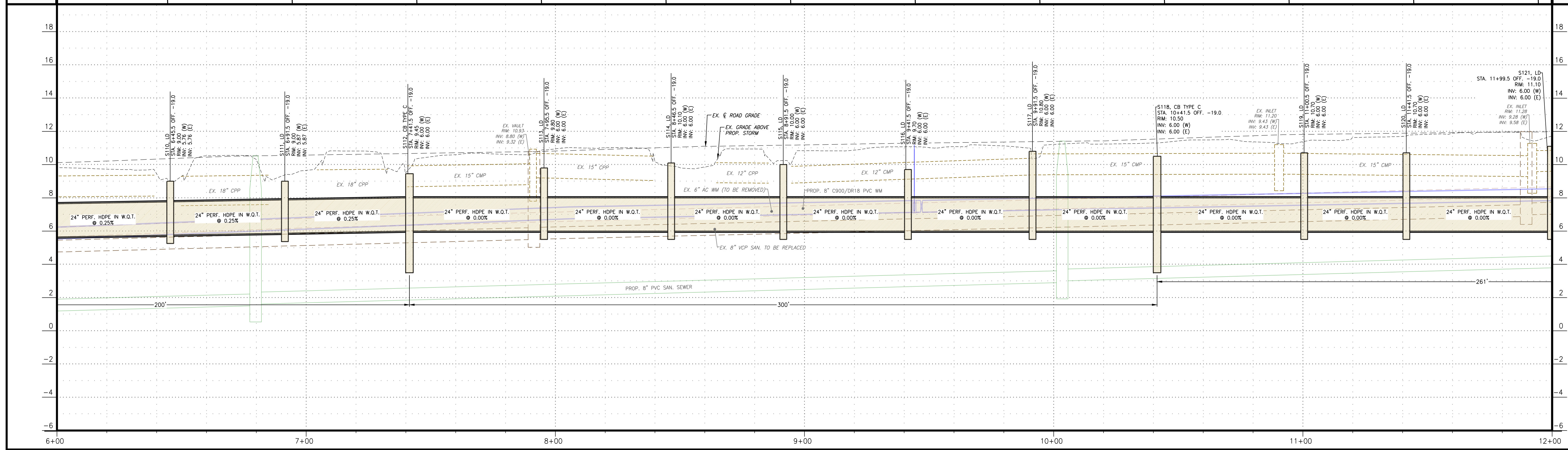
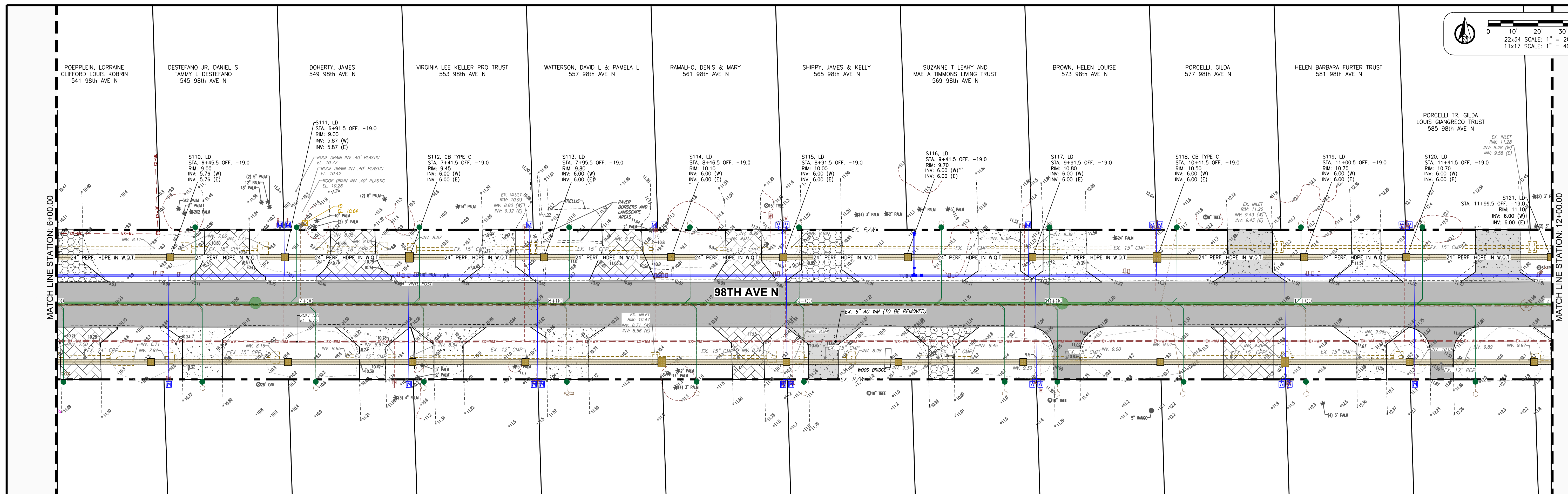
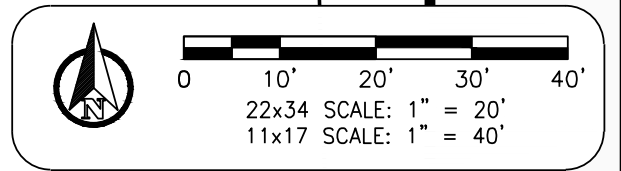
**98th & 99th Avenue North - Public Utilities Renewal**

98TH AVE. N. - NORTH DRAINAGE  
 PLAN & PROFILE  
 STA. 0+00.00 TO 6+00.00

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC./TWN./RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 30 OF 99

C:\ENGINEERING\PROJ-ENG\CCU285\01DWG\SUBMITTYPE\CONSTRUCTION PLANS\98TH & 99TH\COL285\_98TH-99TH - DRAINAGE.PKG 4/21/2023 11:40 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'

11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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Bonita Springs: 239.947.1144 [www.GradyMinor.com](http://www.GradyMinor.com) Fort Myers: 239.690.4380

O. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134

**98th & 99th Avenue North - Public Utilities Renewal**

98TH AVE. N. - NORTH DRAINAGE  
 PLAN & PROFILE  
 STA. 6+00.00 TO 12+00.00

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY:  
 COLLIER COUNTY

SEC/TWN/RGE:  
 28/48/25

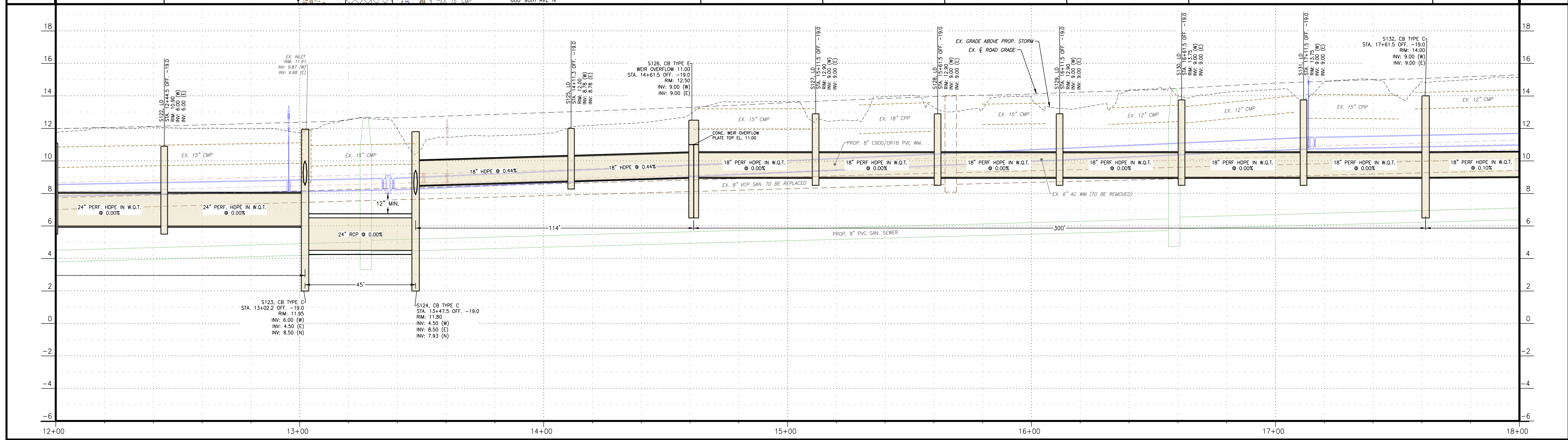
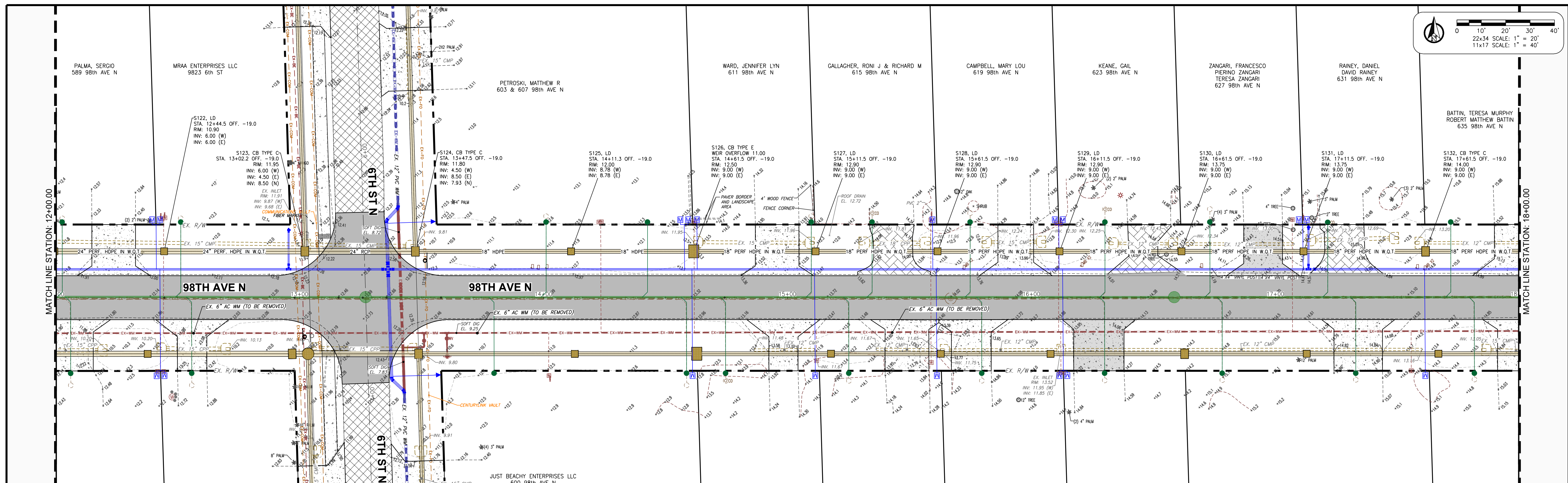
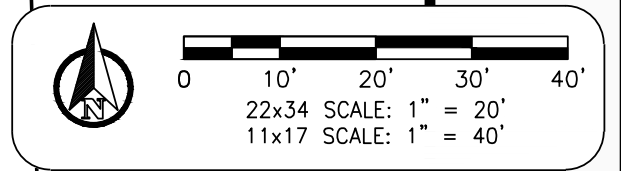
DATE:  
 MARCH, 2022

SUBMITTAL TYPE:  
 BID

SHEET 31 OF 99

JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 66086

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE E&P 4/21/2023 11:41 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

**GradyMinor**  
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 Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151  
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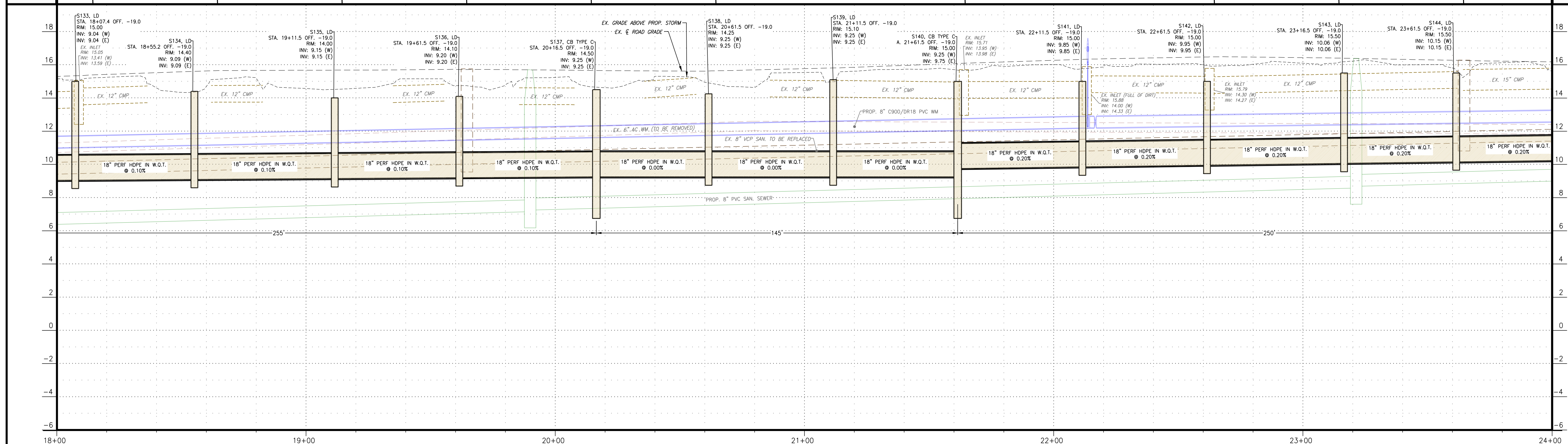
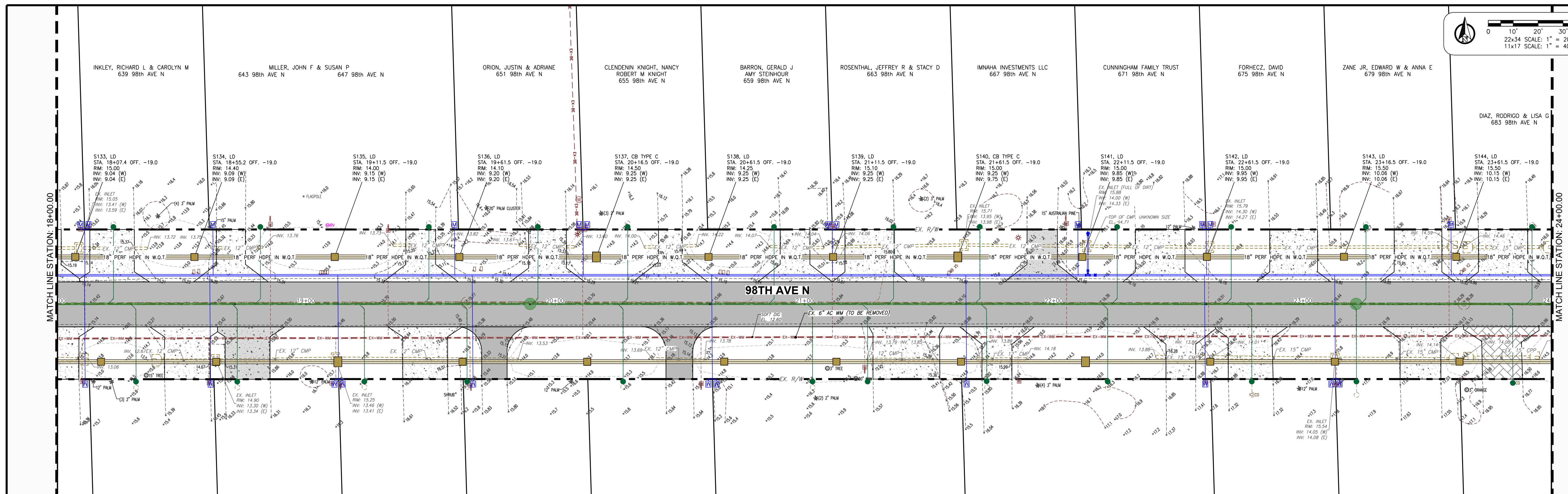
**98th & 99th Avenue North - Public Utilities Renewal**  
 98TH AVE. N. - NORTH DRAINAGE  
 PLAN & PROFILE  
 STA. 12+00.00 TO 18+00.00

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
 SEC/TWN/RGE: 28/48/25  
 DATE: MARCH, 2022  
 SUBMITTAL TYPE: BID  
 SHEET 32 OF 99

JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 66066

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE\CONSTRUCTION\PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE EXP. 4/21/2023 11:43 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380

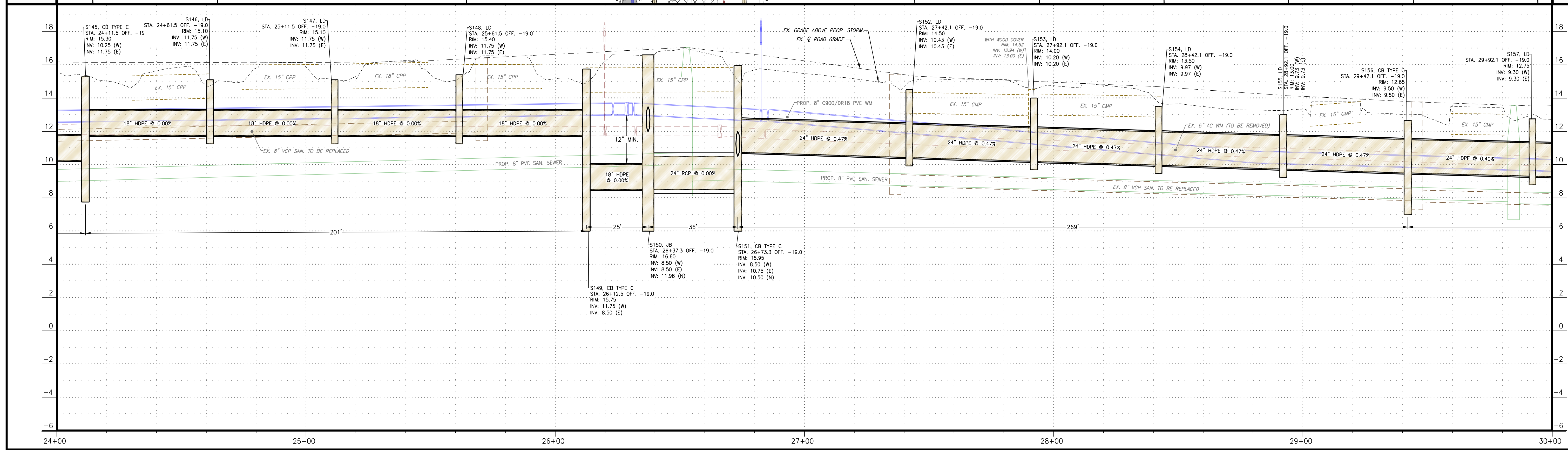
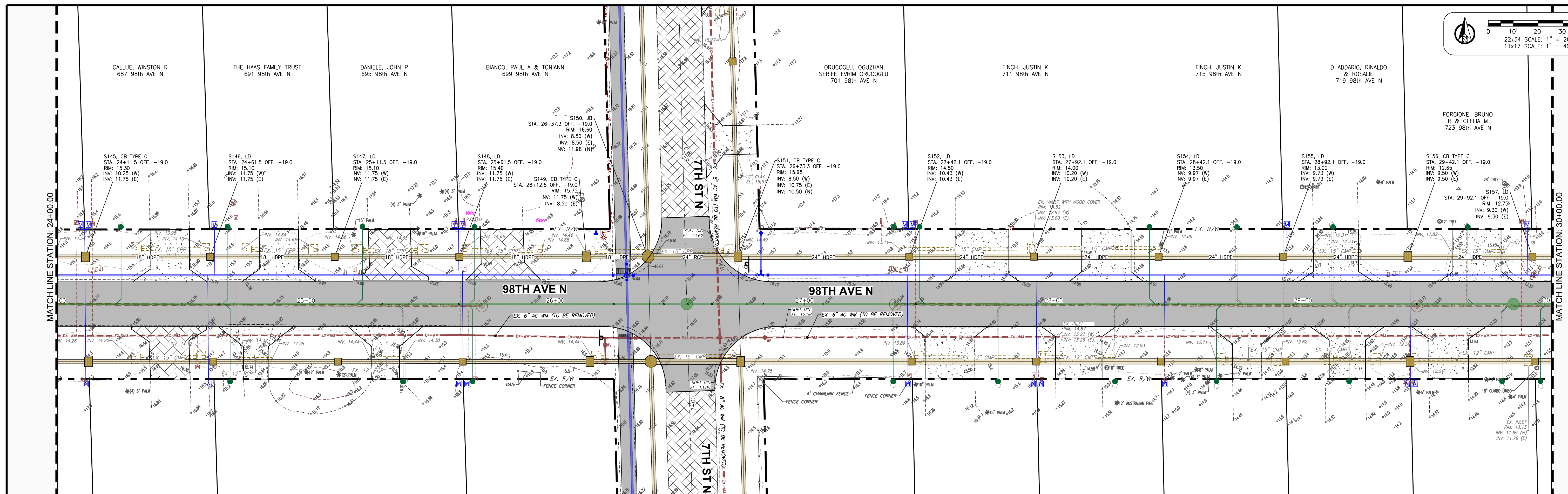
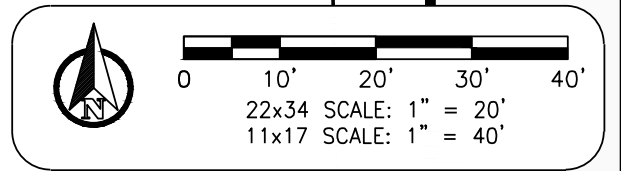
**98th & 99th Avenue North - Public Utilities Renewal**  
 98TH AVE. N. - NORTH DRAINAGE  
 PLAN & PROFILE  
 STA. 18+00.00 TO. 24+00.00

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
 SEC/TWN/RGE: 28/48/25  
 DATE: MARCH, 2022  
 SUBMITTAL TYPE: BID  
 SHEET 33 OF 99

JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 66066

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE EXE 4/21/2023 11:44 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'

11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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Cert. of Auth. EB 0005151      Cert. of Auth. LB 0005151

Bonita Springs: 239.947.1144      www.GradyMinor.com      Fort Myers: 239.690.4380

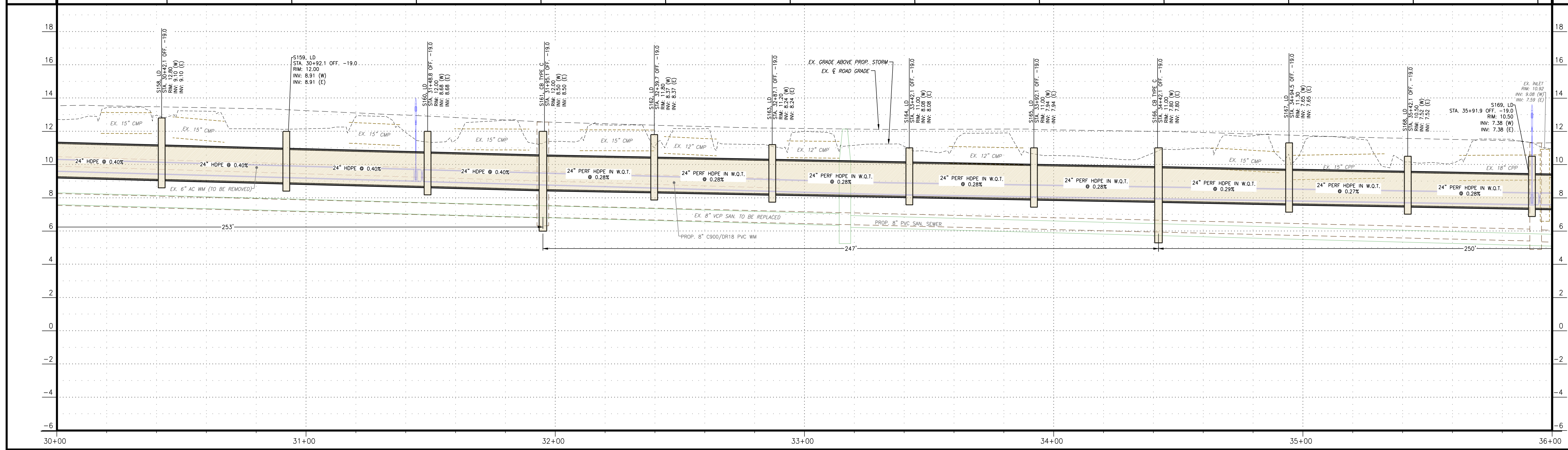
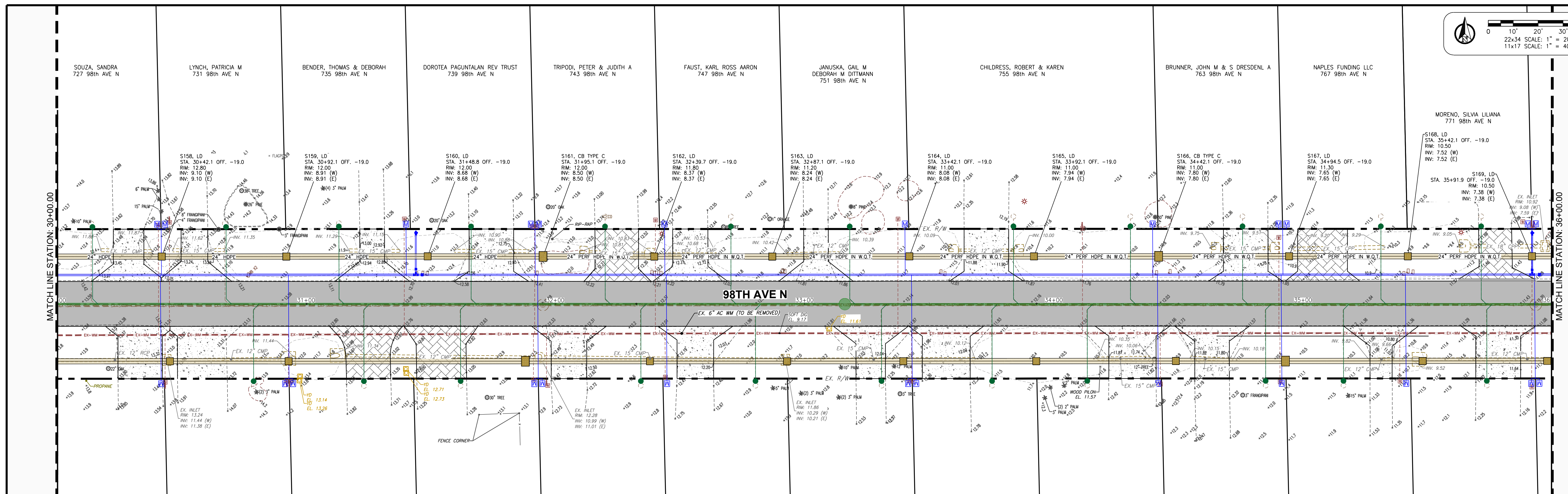
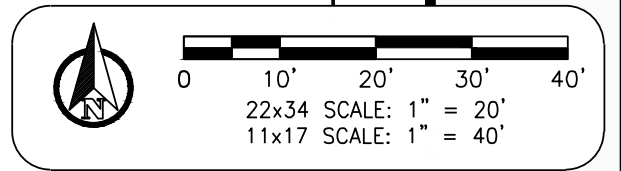
**98th & 99th Avenue North - Public Utilities Renewal**

98TH AVE. N. - NORTH DRAINAGE  
 PLAN & PROFILE  
 STA. 24+00.00 TO 30+00.00

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC/TWN/RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 34 OF 99

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE E&P 4/21/2023 11:45 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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 Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151  
 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380

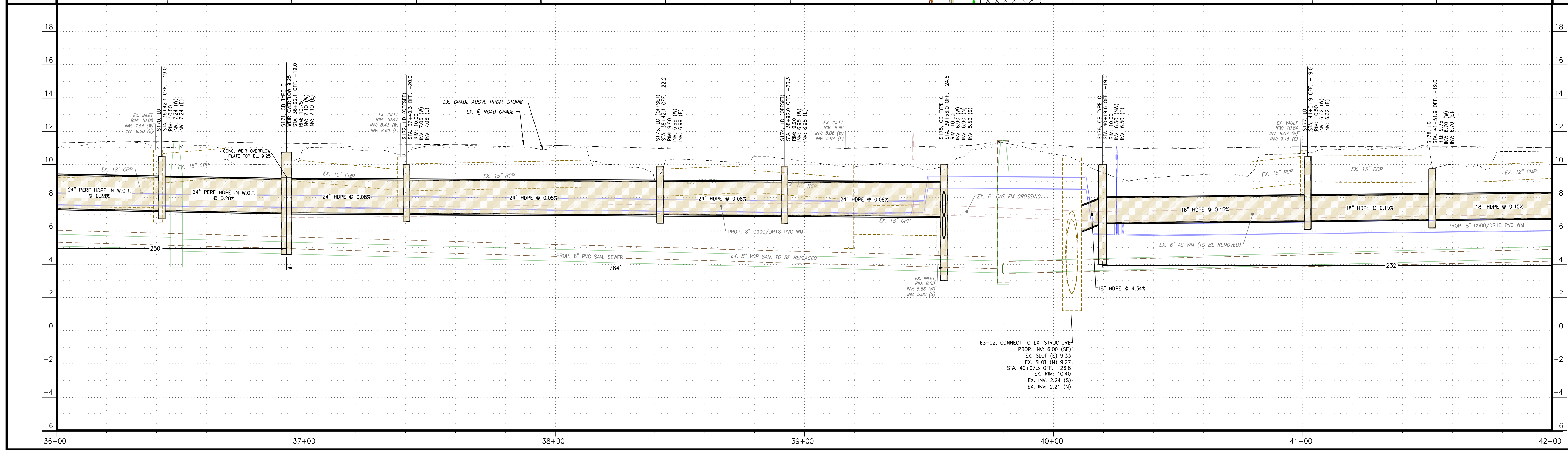
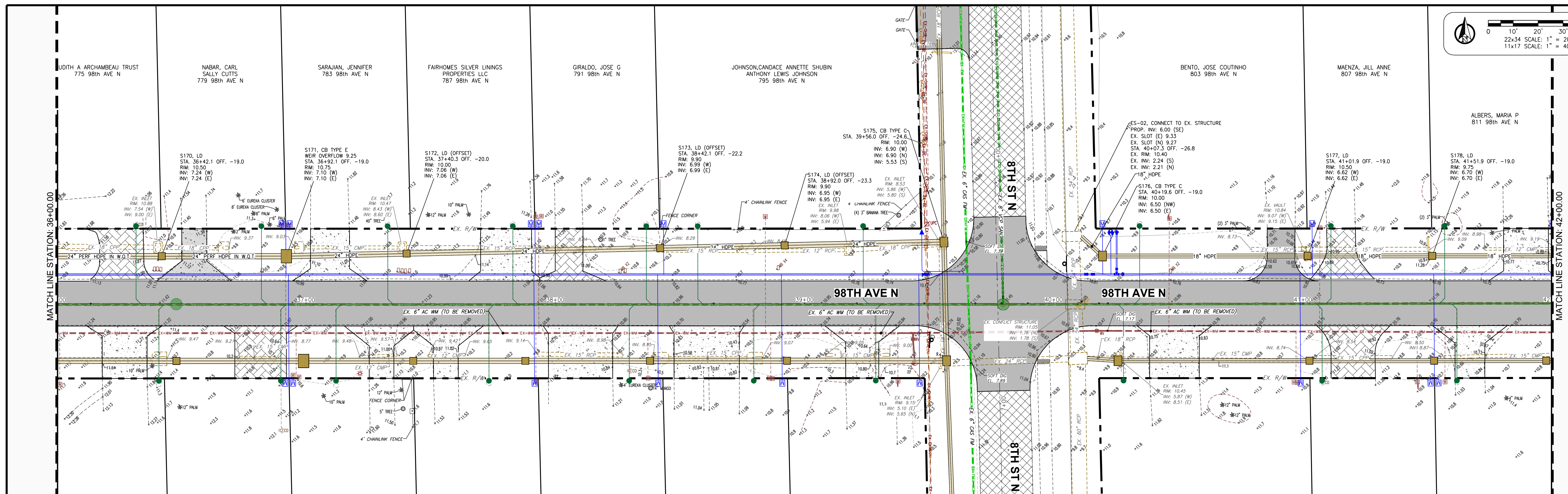
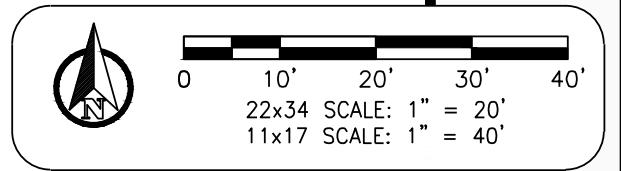
**98th & 99th Avenue North - Public Utilities Renewal**  
 98TH AVE. N. - NORTH DRAINAGE  
 PLAN & PROFILE  
 STA. 30+00.00 TO 36+00.00

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
 SEC/TWN/RGE: 28/48/25  
 DATE: MARCH, 2022  
 SUBMITTAL TYPE: BID  
 SHEET 35 OF 99

JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 66068

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE EXP. 4/21/2023 11:47 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'

11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151 Business LC 26000266

Bonita Springs: 239.947.1144 [www.GradyMinor.com](http://www.GradyMinor.com) Fort Myers: 239.690.4380

**98th & 99th Avenue North - Public Utilities Renewal**

98TH AVE. N. - NORTH DRAINAGE  
 PLAN & PROFILE  
 STA. 36+00.00 TO 42+00.00

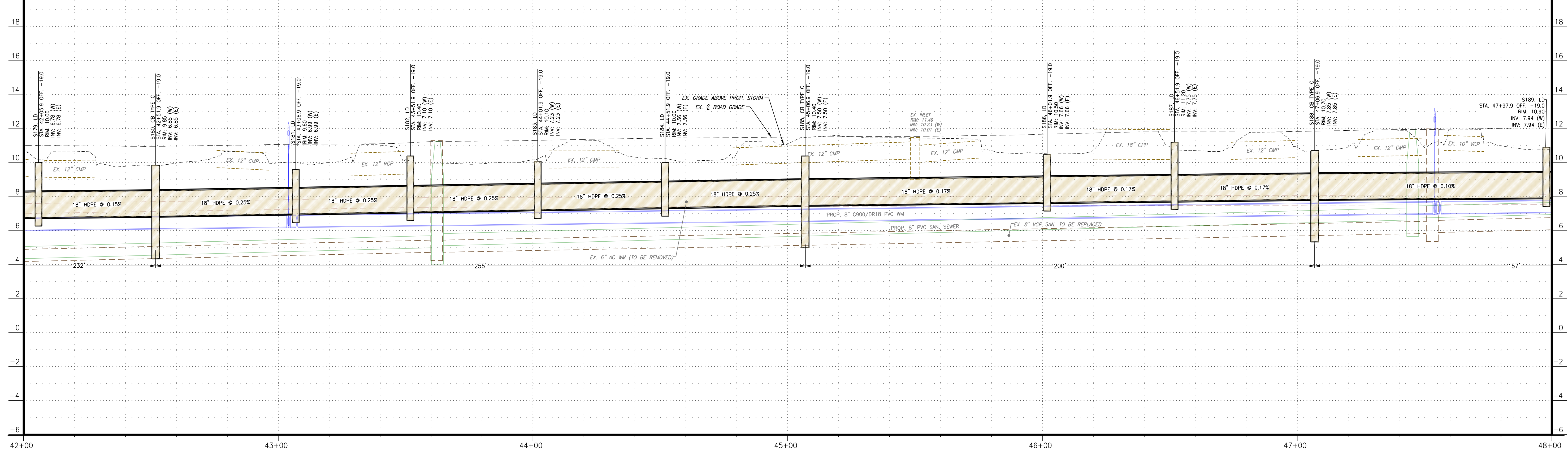
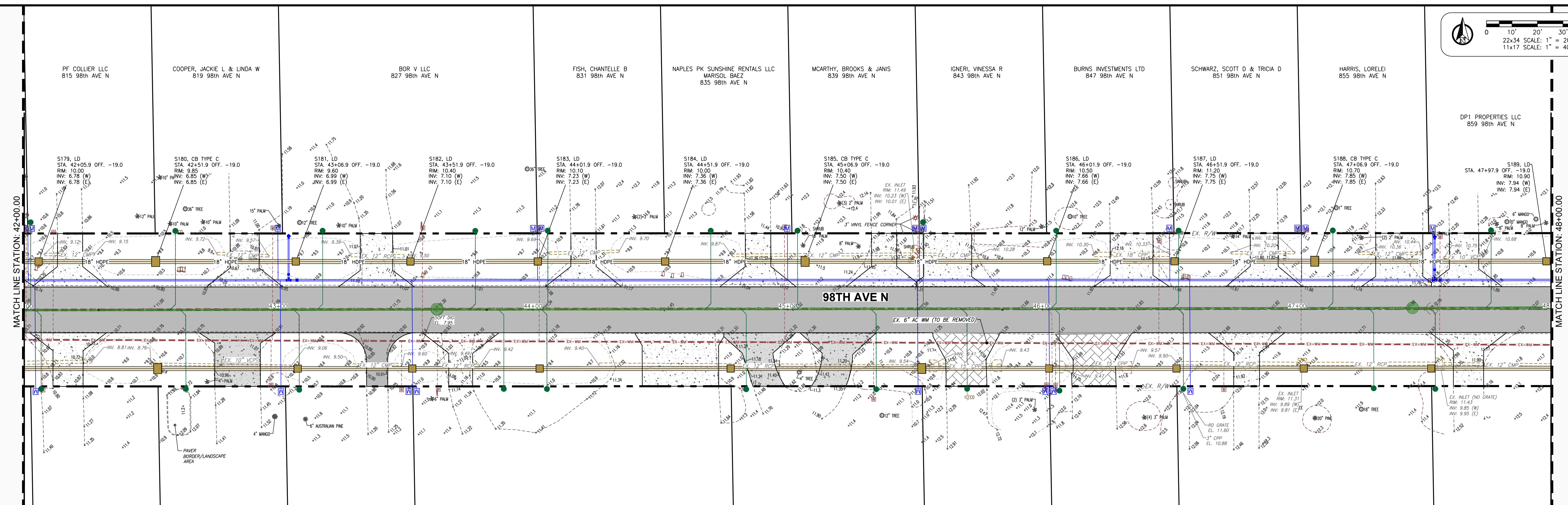
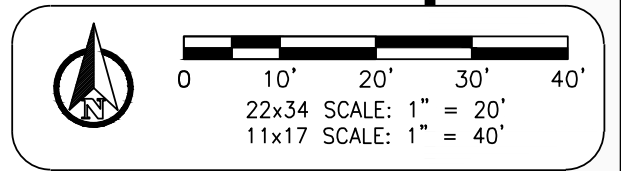
ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
 SEC/TWN/RGE: 28/48/25  
 DATE: MARCH, 2022  
 SUBMITTAL TYPE: BID  
 SHEET 36 OF 99

JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 660686

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE E&P 4/21/2023 11:48 AM





REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

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 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380

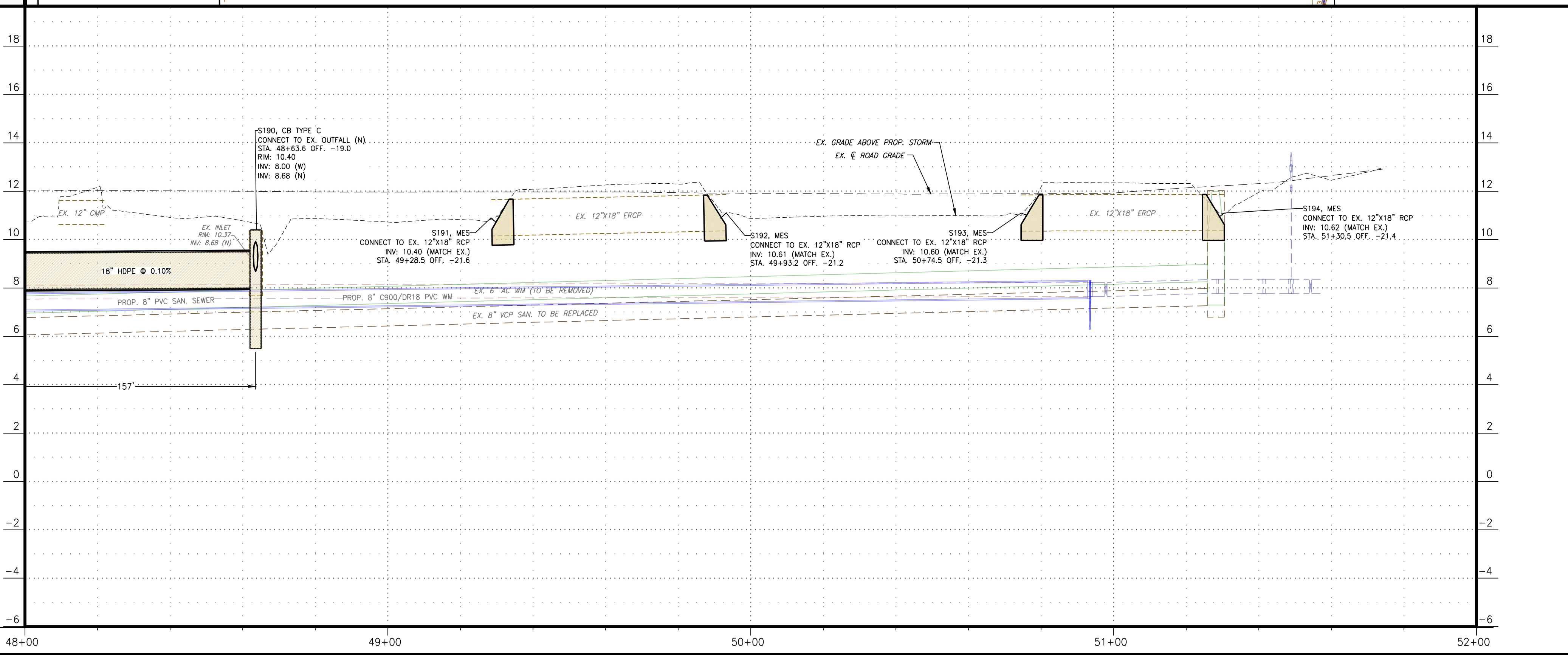
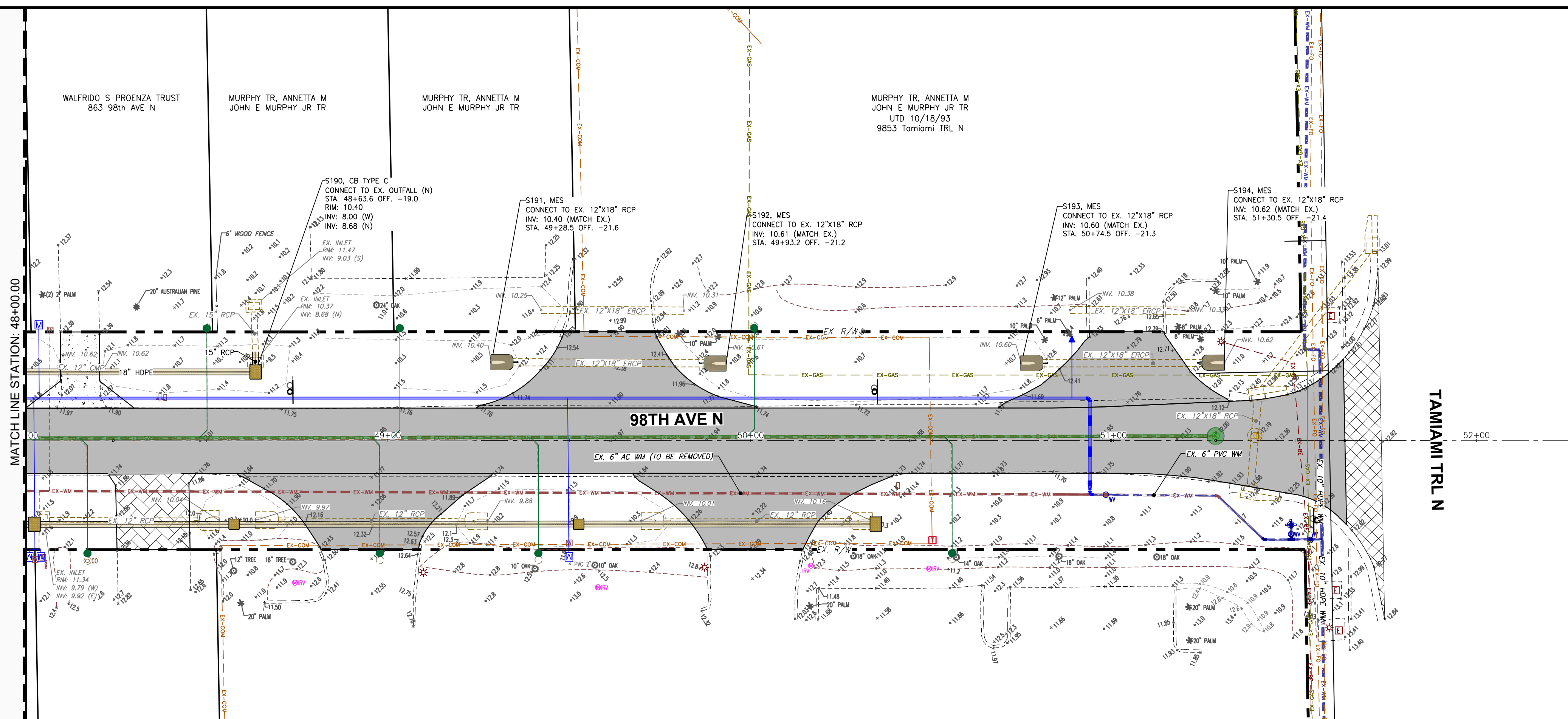
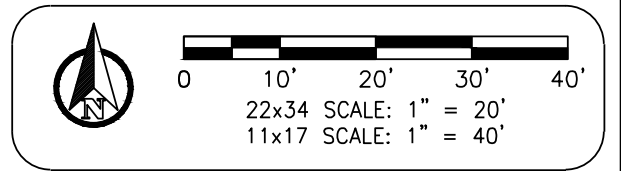
**98th & 99th Avenue North - Public Utilities Renewal**  
 98TH AVE. N. - NORTH DRAINAGE  
 PLAN & PROFILE  
 STA. 42+00.00 TO 48+00.00

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
 SEC/TWN/RGE: 28/48/25  
 DATE: MARCH, 2022  
 SUBMITTAL TYPE: BID  
 SHEET 37 OF 99

JUSTIN A. FREDERIKSEN, P.E.  
 FLORIDA P.E. LICENSE NO. 66086

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE EXP 4/21/2023 11:49 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285  
 22X34 SCALE:  
 VERTICAL 1" = 6'  
 HORIZONTAL 1" = 40'  
 11X17 SCALE:  
 VERTICAL 1" = 3'  
 HORIZONTAL 1" = 20'

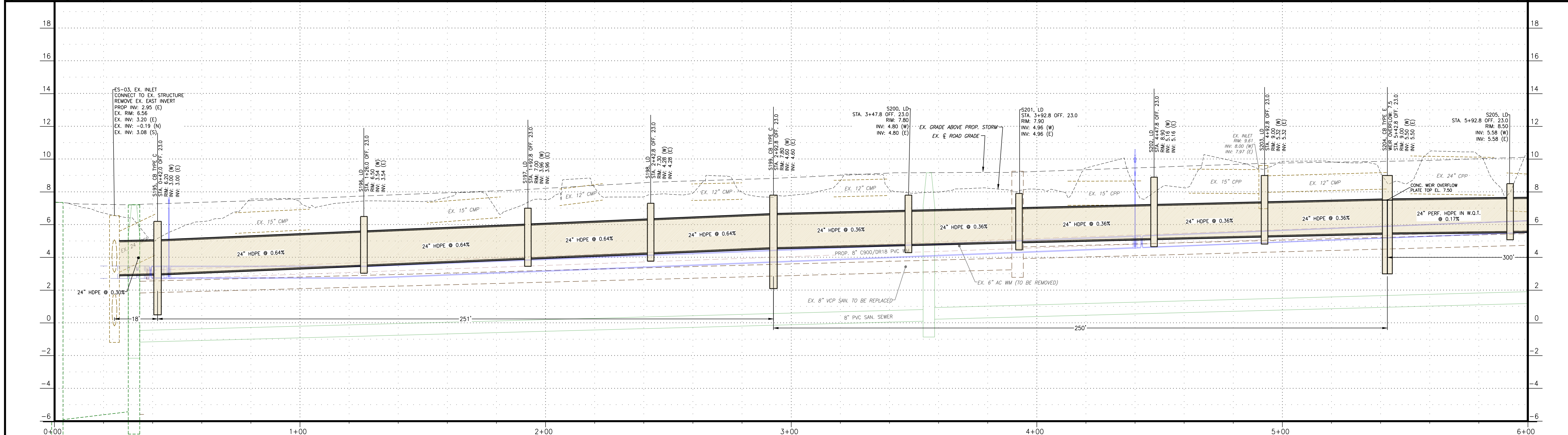
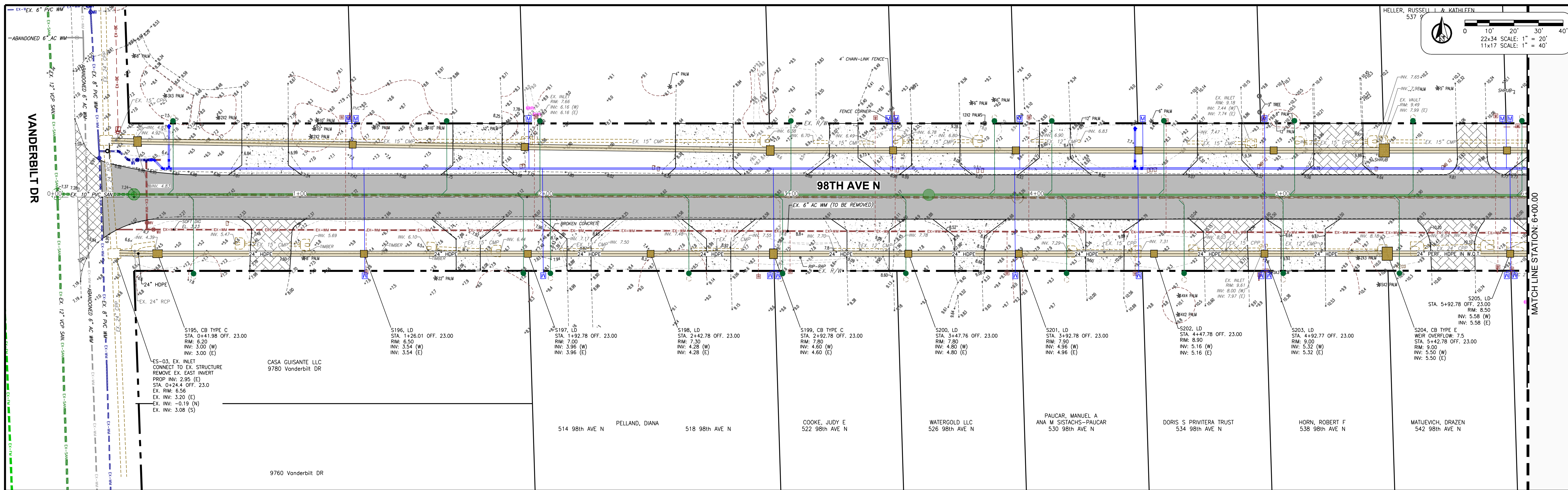
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 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380

Q. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134  
 Business LC 26000266

**98th & 99th Avenue North - Public Utilities Renewal**  
**98TH AVE. N. - NORTH DRAINAGE**  
**PLAN & PROFILE**  
**STA. 48+00.00 TO 52+00.00**  
 ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC/TWN/RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 38 OF 99

C:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE E&P 4/21/2023 11:50 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
 DRAWN BY: R.A.K.  
 APPROVED: J.A.F.  
 JOB CODE: CCU285

22X34 SCALE:  
 VERTICAL: 1" = 6'  
 HORIZONTAL: 1" = 40'  
 11X17 SCALE:  
 VERTICAL: 1" = 3'  
 HORIZONTAL: 1" = 20'

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Cert. of Auth. EB 0005151      Cert. of Auth. LB 0005151

Bonita Springs: 239.947.1144      www.GradyMinor.com      Fort Myers: 239.690.4380

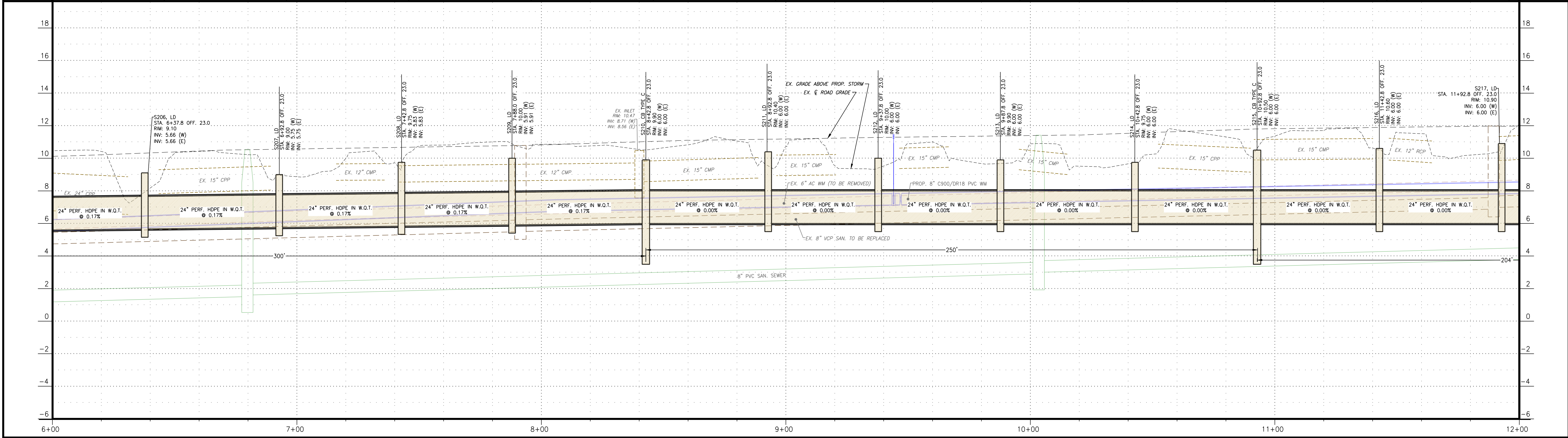
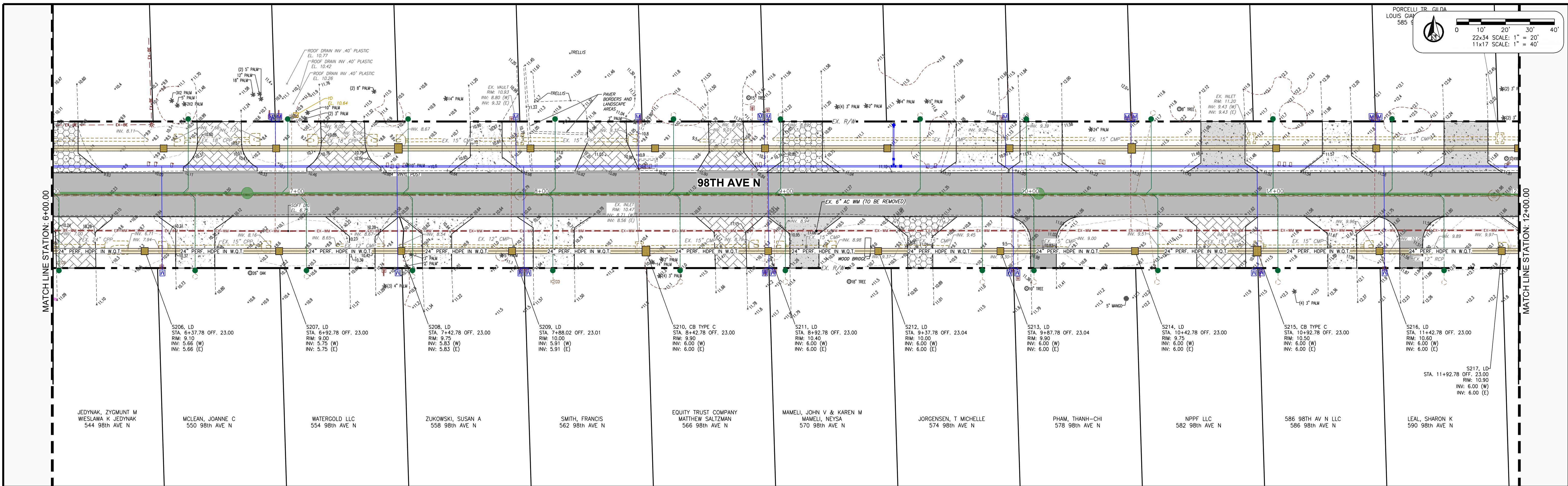
**98th & 99th Avenue North - Public Utilities Renewal**

98TH AVE. N. - SOUTH DRAINAGE  
 PLAN & PROFILE  
 STA. 0+00.00 TO 6+00.00

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
 CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY
SEC/TWN/RGE: 28/48/25
DATE: MARCH, 2022
SUBMITTAL TYPE: BID
SHEET 39 OF 99

C:\ENGINEERING\PROJ-ENG\CCU285\01DWG\SUBMITTAL\TYPE CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE E&P 4/21/2023 11:51 AM



REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: J.N.D.  
DRAWN BY: R.A.K.  
APPROVED: J.A.F.  
JOB CODE: CCU285

22X34 SCALE:  
VERTICAL 1" = 6'  
HORIZONTAL 1" = 40'  
11X17 SCALE:  
VERTICAL 1" = 3'  
HORIZONTAL 1" = 20'

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Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151  
Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380

**98th & 99th Avenue North - Public Utilities Renewal**

**98TH AVE. N. - SOUTH DRAINAGE  
PLAN & PROFILE  
STA. 6+00.00 TO 12+00.00**

ELEVATIONS SHOWN HEREON ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29)  
CONVERSION FACTOR TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS (-) 1.237

MUNICIPALITY: COLLIER COUNTY  
SEC/TWN/RGE: 28/48/25  
DATE: MARCH, 2022  
SUBMITTAL TYPE: BID  
SHEET 40 OF 99

JUSTIN A. FREDERIKSEN, P.E.  
FLORIDA P.E. LICENSE NO. 66086

G:\ENGINEERING\PROJ-ENG\CCU285\SUBMITTAL\TYPE\CONSTRUCTION PLANS\98TH & 99TH\CCU285\_98TH-99TH - DRAINAGE EXP. 4/21/2023 11:52 AM