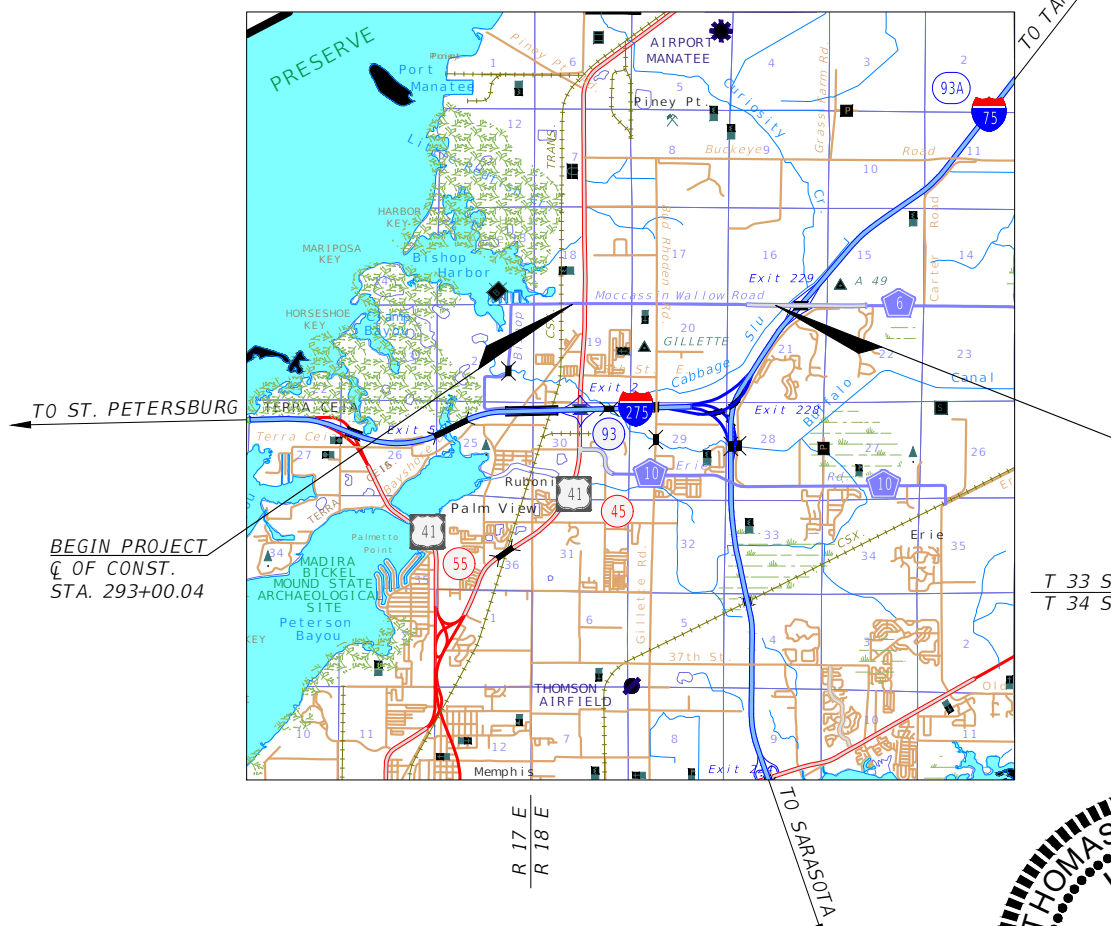
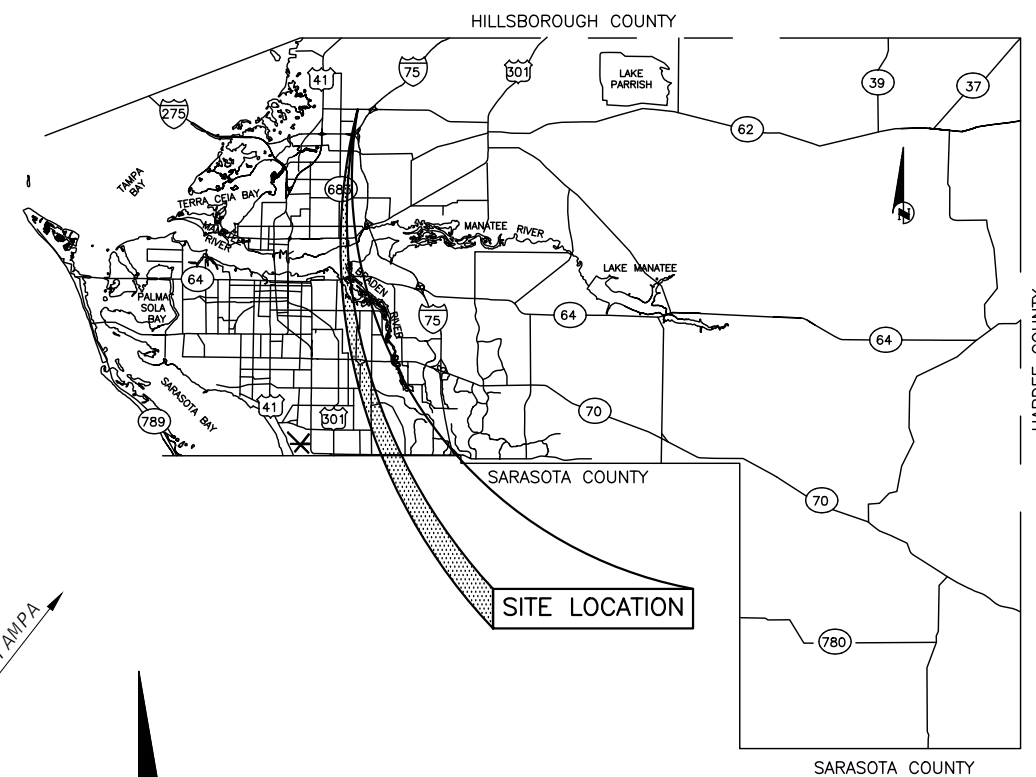




**MANATEE COUNTY**  
**PUBLIC WORKS DEPARTMENT**

**UTILITY DESIGN PLANS**

MANATEE PROJECT ID 6092560  
MOCCASIN WALLOW ROAD  
FROM US 41 TO WEST OF I-75



**INDEX OF UTILITY DESIGN PLANS**

SHEET NO.	SHEET DESCRIPTION
G-1	UTILITY KEY SHEET
G-2 - G-3	GENERAL NOTES
U-1 - U-20	UTILITY PLAN SHEETS
U-21 - U-30	WATER MAIN PROFILES
U-31 - U-35	FORCE MAIN PROFILES
U-36 - U-44	RECLAIMED WATER PROFILES
U-45 - U-48	DETAILS

**INDEX OF REVISION 1**

SHEET NO.	SHEET DESCRIPTION
G-1	UTILITY KEY SHEET
U-3, U-4, U-6, U-9 TO U-22	UTILITY PLAN SHEETS
U-29, U-30	WATER MAIN PROFILE
U-34	FORCE MAIN PROFILE
U-39	RECLAIMED WATER PROFILE

DATE	DESCRIPTION
6/16/22	▲ SHEETS U-3, U-4, U-6, U-9 TO U-22, U-29, U-30, U-34, U-39 ADJUST PROP UTIL TO CLEAR NEW FORCE MAIN, RELOCATED PORTION OF CONSTRUCTED FM, REV SHEET FROM BID QUESTION

PLANS PREPARED BY:

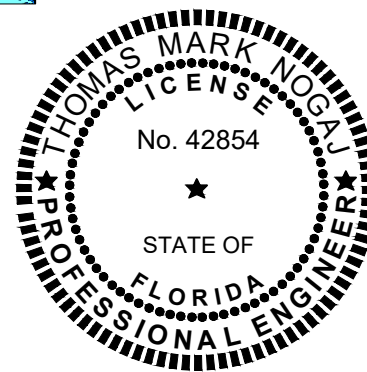


380 Park Place Blvd, Suite 300, Clearwater, Florida, 33759  
www.cardno.com - 727.531.3505  
Certificate of Authorization No. 29915

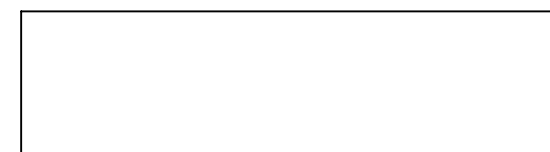
UTILITY DESIGN PLANS  
ENGINEER OF RECORD:

THOMAS M. NOGAJ, PHD  
P.E. NO.:42854

MANATEE COUNTY PROJECT MANAGER:  
DANIEL GARNER, PE



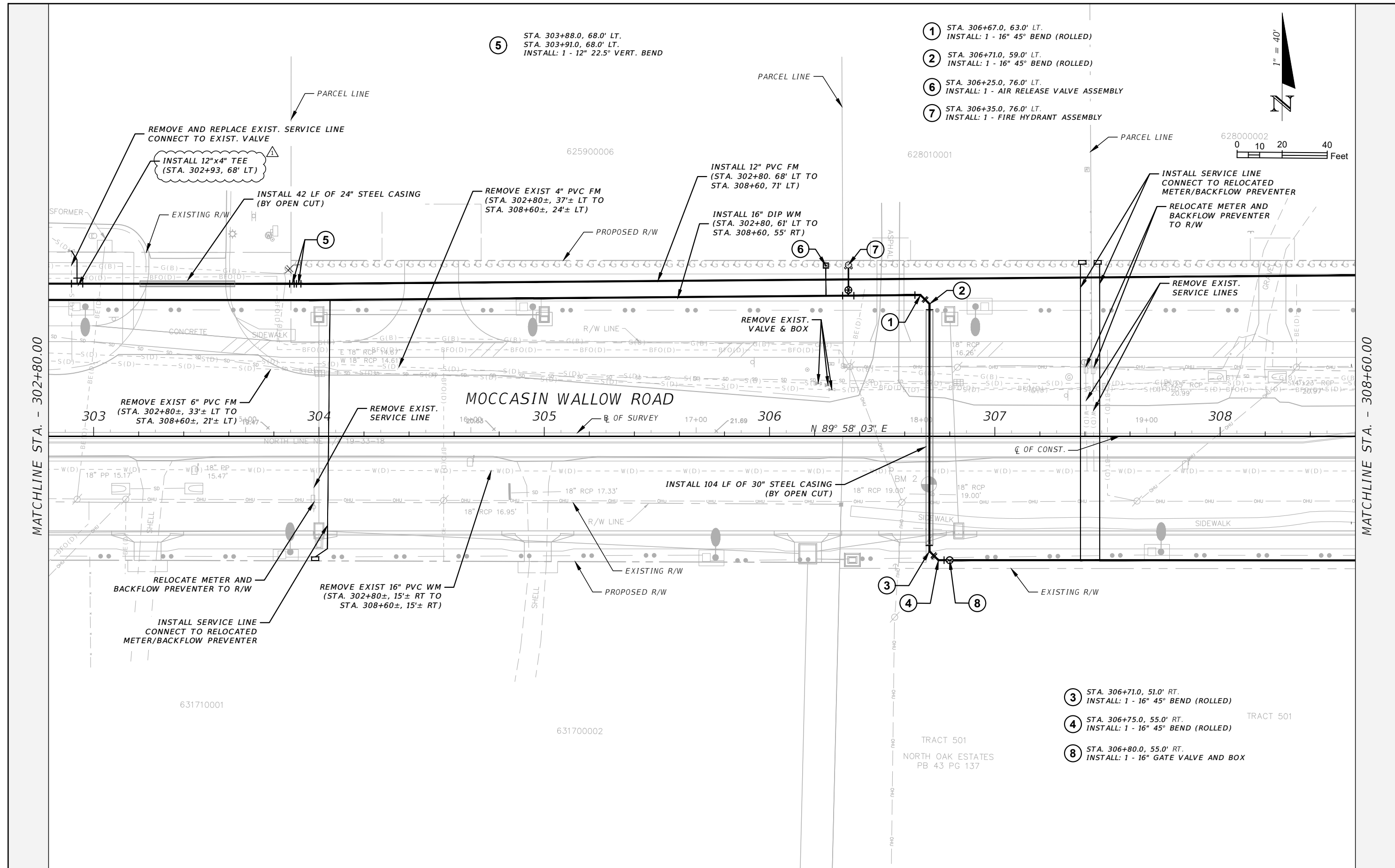
THIS DOCUMENT HAS BEEN DIGITALLY  
SIGNED AND SEALED BY:



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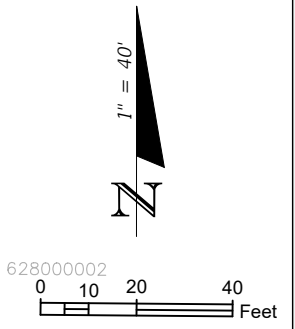
CARDNO  
380 PARK PLACE BLVD, CLEARWATER, FL 33759  
CERTIFICATE OF AUTHORIZATION NO. 29915  
THOMAS MARK NOGAJ, PHD, PE NO. 42854

SHEET  
NO.  
G-1



5 STA. 303+88.0, 68.0' LT.  
 STA. 303+91.0, 68.0' LT.  
 INSTALL: 1 - 12" 22.5° VERT. BEND

1 STA. 306+67.0, 63.0' LT.  
 INSTALL: 1 - 16" 45° BEND (ROLLED)  
 2 STA. 306+71.0, 59.0' LT.  
 INSTALL: 1 - 16" 45° BEND (ROLLED)  
 6 STA. 306+25.0, 76.0' LT.  
 INSTALL: 1 - AIR RELEASE VALVE ASSEMBLY  
 7 STA. 306+35.0, 76.0' LT.  
 INSTALL: 1 - FIRE HYDRANT ASSEMBLY



MATCHLINE STA. - 302+80.00

MATCHLINE STA. - 308+60.00

**MOCCASIN WALLOW ROAD**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	ADD FITTING TO FM		

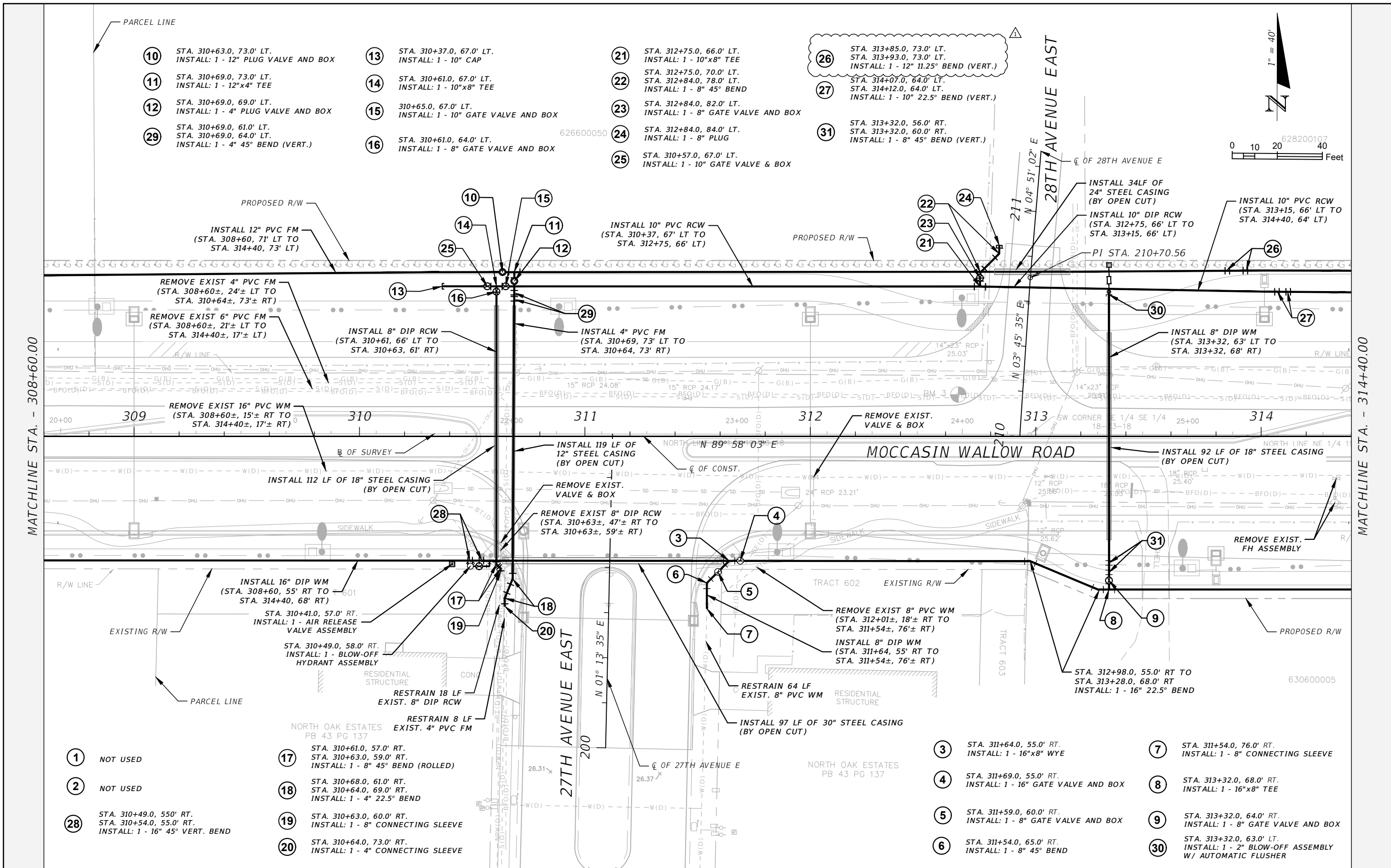
THOMAS M. NOGAJ, PHD, P.E.  
 P.E. LICENSE NUMBER 42854  
 CARDNO  
 380 PARK PLACE BLVD, SUITE 300  
 CLEARWATER, FLORIDA 33759  
 CERTIFICATE OF AUTHORIZATION 29915

<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY PLAN (3)**

SHEET NO.  
U-3

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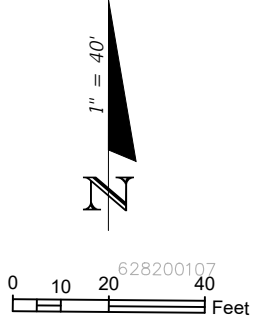


- 10 STA. 310+63.0, 73.0' LT.  
INSTALL: 1 - 12" PLUG VALVE AND BOX
- 11 STA. 310+69.0, 73.0' LT.  
INSTALL: 1 - 12"x4" TEE
- 12 STA. 310+69.0, 69.0' LT.  
INSTALL: 1 - 4" PLUG VALVE AND BOX
- 29 STA. 310+69.0, 61.0' LT.  
STA. 310+69.0, 64.0' LT.  
INSTALL: 1 - 4" 45° BEND (VERT.)

- 13 STA. 310+37.0, 67.0' LT.  
INSTALL: 1 - 10" CAP
- 14 STA. 310+61.0, 67.0' LT.  
INSTALL: 1 - 10"x8" TEE
- 15 STA. 310+65.0, 67.0' LT.  
INSTALL: 1 - 10" GATE VALVE AND BOX
- 16 STA. 310+61.0, 64.0' LT.  
INSTALL: 1 - 8" GATE VALVE AND BOX

- 21 STA. 312+75.0, 66.0' LT.  
INSTALL: 1 - 10"x8" TEE
- 22 STA. 312+75.0, 70.0' LT.  
STA. 312+84.0, 78.0' LT.  
INSTALL: 1 - 8" 45° BEND
- 23 STA. 312+84.0, 82.0' LT.  
INSTALL: 1 - 8" GATE VALVE AND BOX
- 24 STA. 312+84.0, 84.0' LT.  
INSTALL: 1 - 8" PLUG
- 25 STA. 310+57.0, 67.0' LT.  
INSTALL: 1 - 10" GATE VALVE & BOX

- 26 STA. 313+85.0, 73.0' LT.  
STA. 313+93.0, 73.0' LT.  
INSTALL: 1 - 12" 11.25° BEND (VERT.)
- 27 STA. 314+07.0, 64.0' LT.  
STA. 314+12.0, 64.0' LT.  
INSTALL: 1 - 10" 22.5° BEND (VERT.)
- 31 STA. 313+32.0, 56.0' RT.  
STA. 313+32.0, 60.0' RT.  
INSTALL: 1 - 8" 45° BEND (VERT.)



MATCHLINE STA. - 308+60.00

MATCHLINE STA. - 314+40.00

- 1 NOT USED
- 2 NOT USED
- 28 STA. 310+49.0, 55.0' RT.  
STA. 310+54.0, 55.0' RT.  
INSTALL: 1 - 16" 45° VERT. BEND

- 17 STA. 310+61.0, 57.0' RT.  
STA. 310+63.0, 59.0' RT.  
INSTALL: 1 - 8" 45° BEND (ROLLED)
- 18 STA. 310+68.0, 61.0' RT.  
STA. 310+64.0, 69.0' RT.  
INSTALL: 1 - 4" 22.5° BEND
- 19 STA. 310+63.0, 60.0' RT.  
INSTALL: 1 - 8" CONNECTING SLEEVE
- 20 STA. 310+64.0, 73.0' RT.  
INSTALL: 1 - 4" CONNECTING SLEEVE

- 3 STA. 311+64.0, 55.0' RT.  
INSTALL: 1 - 16"x8" WYE
- 4 STA. 311+69.0, 55.0' RT.  
INSTALL: 1 - 16" GATE VALVE AND BOX
- 5 STA. 311+59.0, 60.0' RT.  
INSTALL: 1 - 8" GATE VALVE AND BOX
- 6 STA. 311+54.0, 65.0' RT.  
INSTALL: 1 - 8" 45° BEND

- 7 STA. 311+54.0, 76.0' RT.  
INSTALL: 1 - 8" CONNECTING SLEEVE
- 8 STA. 313+32.0, 68.0' RT.  
INSTALL: 1 - 16"x8" TEE
- 9 STA. 313+32.0, 64.0' RT.  
INSTALL: 1 - 8" GATE VALVE AND BOX
- 30 STA. 313+32.0, 63.0' LT.  
INSTALL: 1 - 2" BLOW-OFF ASSEMBLY  
W/ AUTOMATIC FLUSHER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	REV FITTING SIZE (CALL-OUT ONLY)		

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
380 PARK PLACE BLVD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY PLAN (4)**

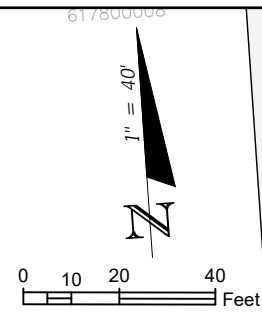
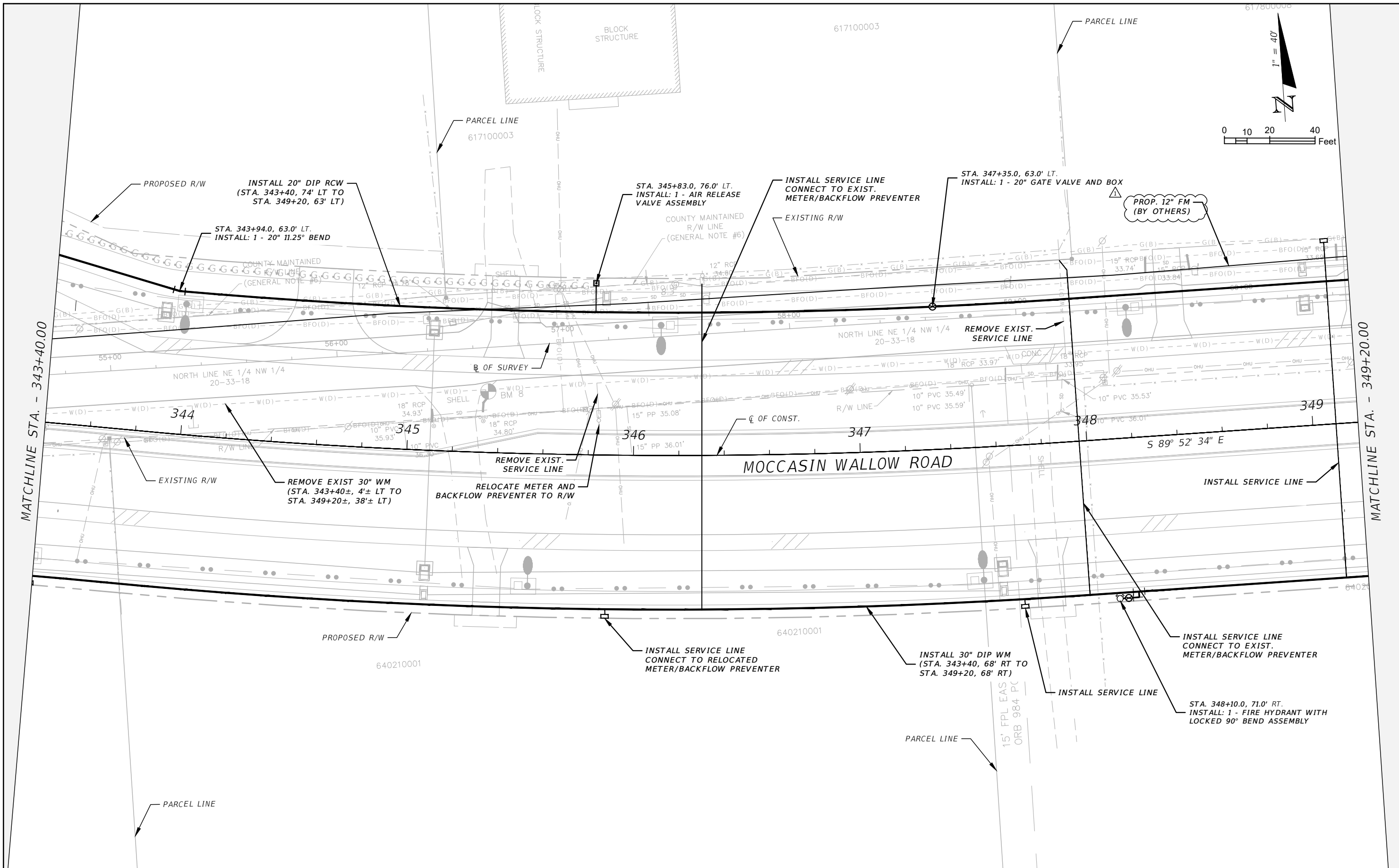
SHEET NO.	U-4
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MATCHLINE STA. - 343+40.00

MATCHLINE STA. - 349+20.00

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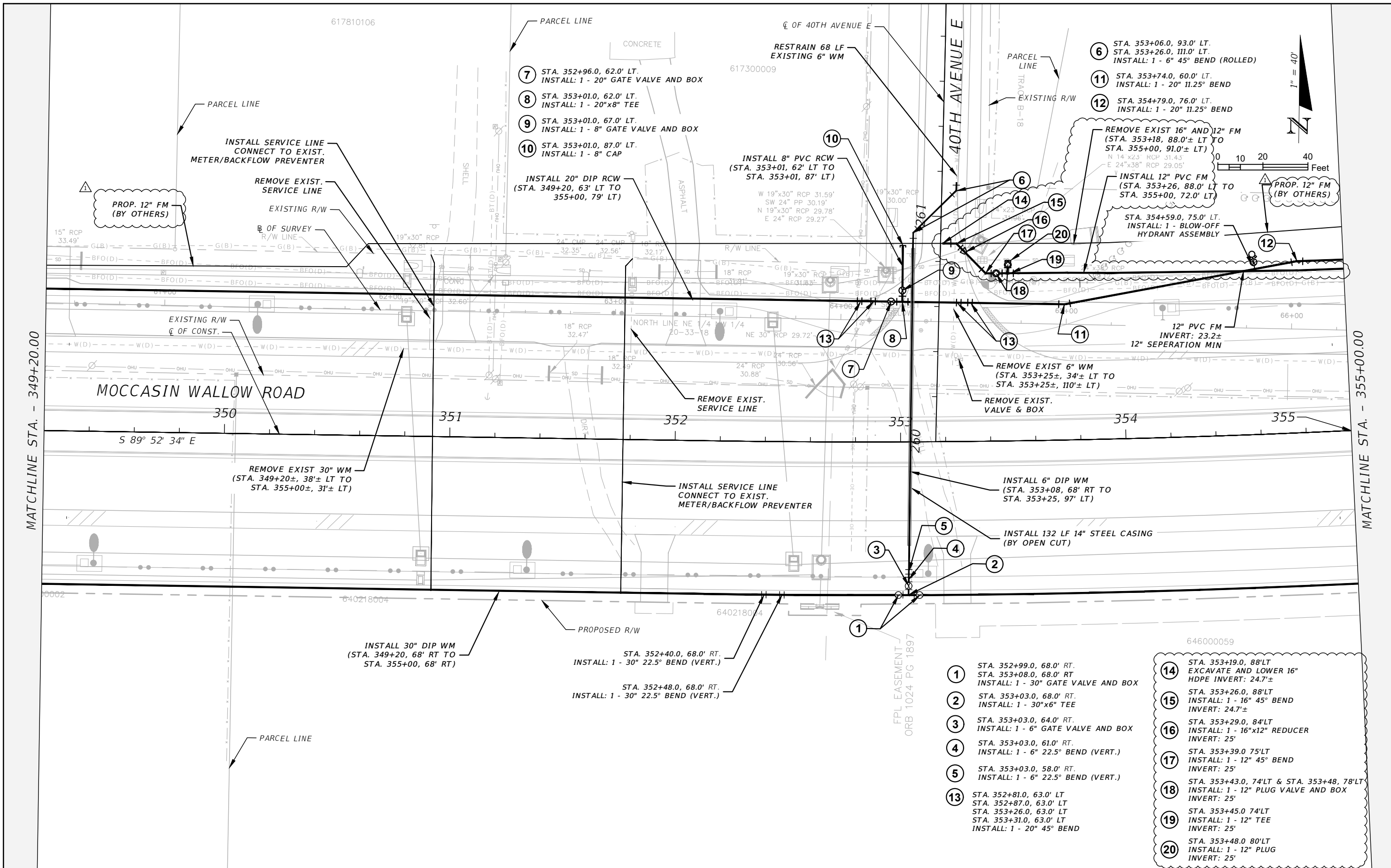
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	△ REV FM BY OTHERS ALIGN		

THOMAS M. NOGAJ, PHD, P.E.  
 P.E. LICENSE NUMBER 42854  
 CARDNO  
 380 PARK PLACE BLVD, SUITE 300  
 CLEARWATER, FLORIDA 33759  
 CERTIFICATE OF AUTHORIZATION 29915

<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY PLAN (10)**

SHEET NO.  
**U-10**



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	△ REV FM BY OTHERS ALIGN, RELOCATE FM		

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
380 PARK PLACE BLVD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

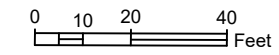
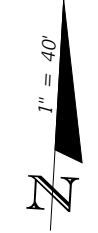
**UTILITY PLAN (11)**

SHEET NO.
U-11

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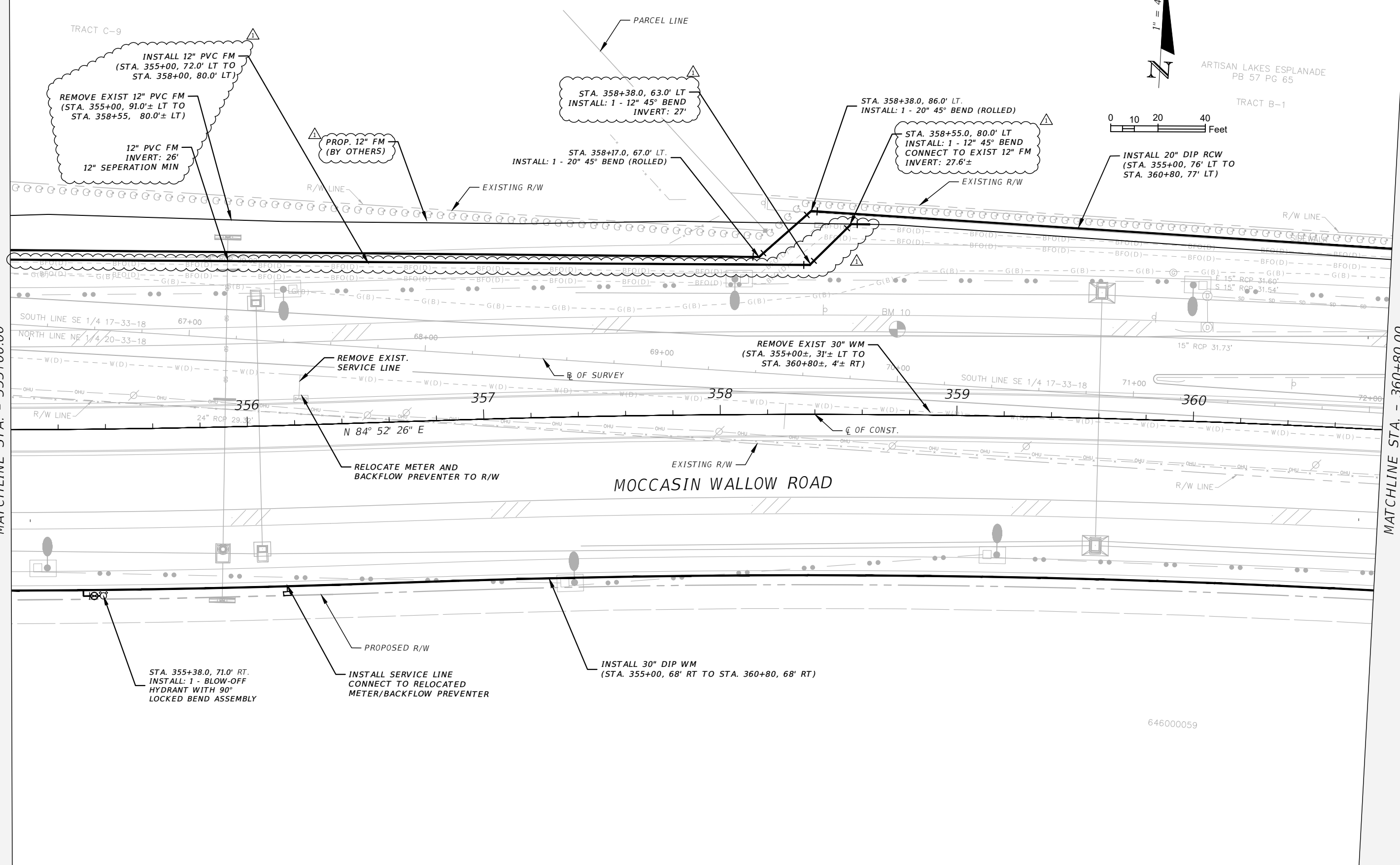
ARTISAN LAKES ESPLANADE  
PB 61 PG 119

ARTISAN LAKES ESPLANADE  
PB 57 PG 65



MATCHLINE STA. - 355+00.00

MATCHLINE STA. - 360+80.00



INSTALL 12" PVC FM  
(STA. 355+00, 72.0' LT TO  
STA. 358+00, 80.0' LT)

REMOVE EXIST 12" PVC FM  
(STA. 355+00, 91.0'± LT TO  
STA. 358+55, 80.0'± LT)

12" PVC FM  
INVERT: 26'  
12" SEPERATION MIN

PROP. 12" FM  
(BY OTHERS)

STA. 358+38.0, 63.0' LT  
INSTALL: 1 - 12" 45° BEND  
INVERT: 27'

STA. 358+17.0, 67.0' LT.  
INSTALL: 1 - 20" 45° BEND (ROLLED)

STA. 358+38.0, 86.0' LT.  
INSTALL: 1 - 20" 45° BEND (ROLLED)

STA. 358+55.0, 80.0' LT  
INSTALL: 1 - 12" 45° BEND  
CONNECT TO EXIST 12" FM  
INVERT: 27.6'±

INSTALL 20" DIP RCW  
(STA. 355+00, 76' LT TO  
STA. 360+80, 77' LT)

REMOVE EXIST 30" WM  
(STA. 355+00±, 31'± LT TO  
STA. 360+80±, 4'± RT)

REMOVE EXIST.  
SERVICE LINE

RELOCATE METER AND  
BACKFLOW PREVENTER TO R/W

STA. 355+38.0, 71.0' RT.  
INSTALL: 1 - BLOW-OFF  
HYDRANT WITH 90°  
LOCKED BEND ASSEMBLY

INSTALL SERVICE LINE  
CONNECT TO RELOCATED  
METER/BACKFLOW PREVENTER

INSTALL 30" DIP WM  
(STA. 355+00, 68' RT TO STA. 360+80, 68' RT)

OF SURVEY

MOCCASIN WALLOW ROAD

OF CONST.

646000059

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	△ REV FM BY OTHERS ALIGN, RELOCATE EXIST FM		

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
380 PARK PLACE BLVD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

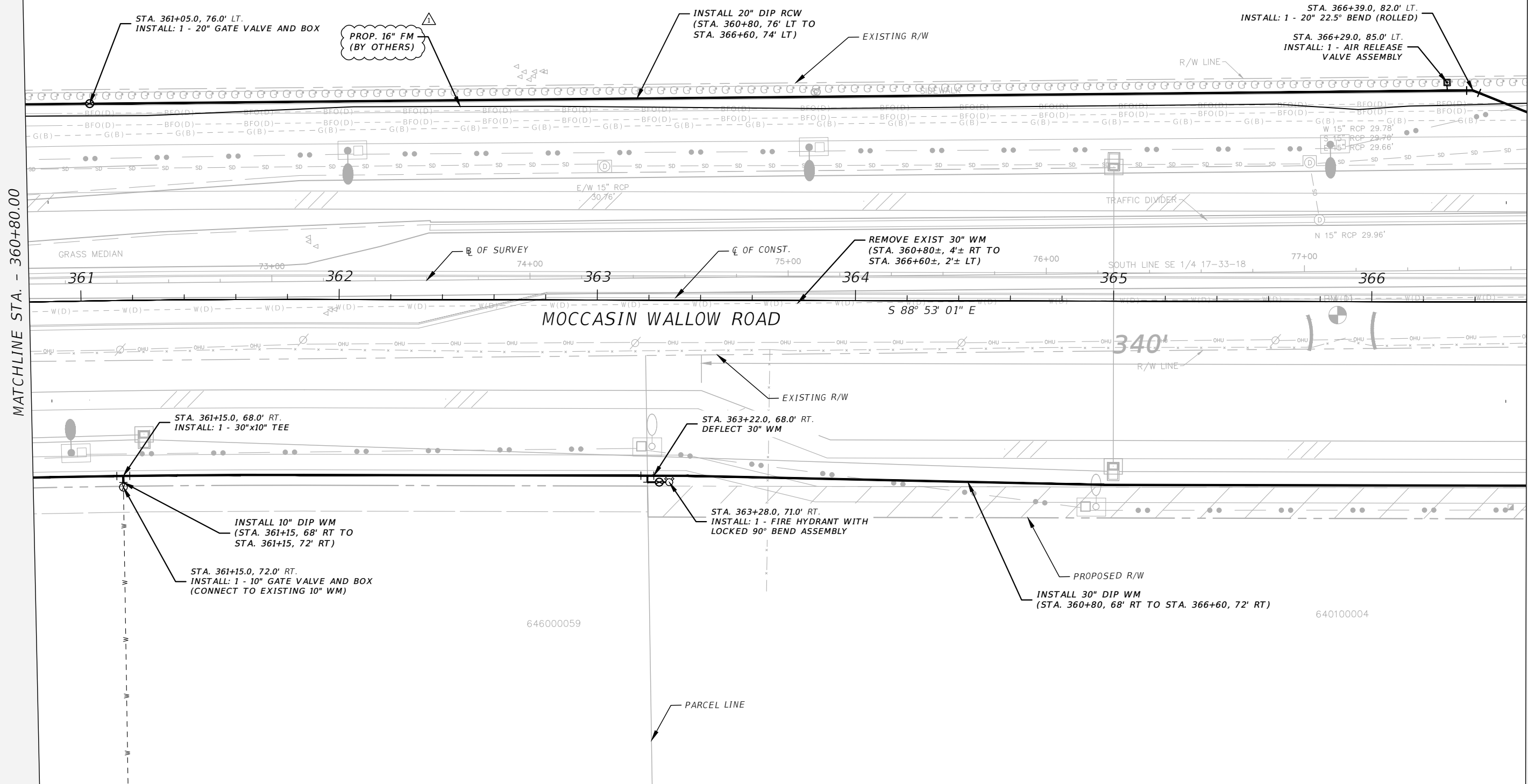
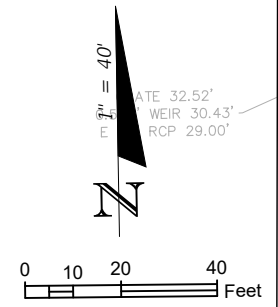
<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY PLAN (12)**

SHEET NO.  
**U-12**



ARTISAN LAKES ESPLANADE  
PB 57 PG 65  
TRACT B-1

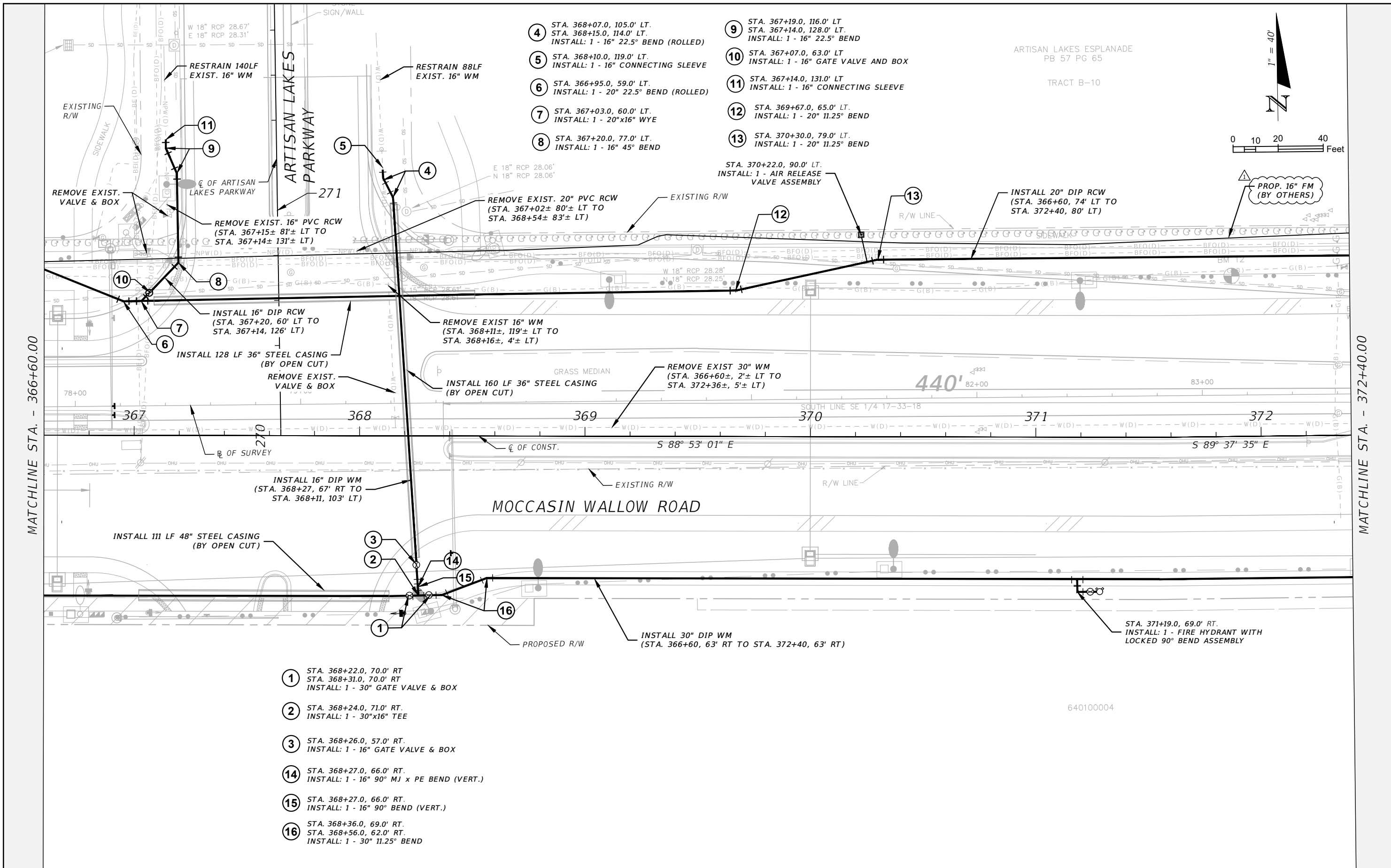


MATCHLINE STA. - 360+80.00

MATCHLINE STA. - 366+60.00

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REVISIONS				THOMAS M. NOGAJ, PHD, P.E. P.E. LICENSE NUMBER 42854 CARDNO 380 PARK PLACE BLVD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		UTILITY PLAN (13)	SHEET NO. U-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
7/11/22	△ REV FM BY OTHERS ALIGN				MOCCASIN WALLOW RD	6092560		



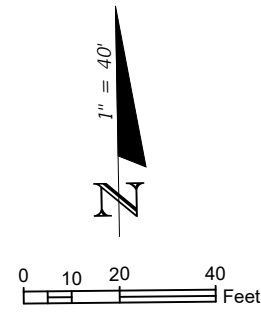
- ④ STA. 368+07.0, 105.0' LT.  
STA. 368+15.0, 114.0' LT.  
INSTALL: 1 - 16" 22.5° BEND (ROLLED)
- ⑤ STA. 368+10.0, 119.0' LT.  
INSTALL: 1 - 16" CONNECTING SLEEVE
- ⑥ STA. 366+95.0, 59.0' LT.  
INSTALL: 1 - 20" 22.5° BEND (ROLLED)
- ⑦ STA. 367+03.0, 60.0' LT.  
INSTALL: 1 - 20"x16" WYE
- ⑧ STA. 367+20.0, 77.0' LT.  
INSTALL: 1 - 16" 45° BEND
- ⑨ STA. 367+19.0, 116.0' LT.  
STA. 367+14.0, 128.0' LT.  
INSTALL: 1 - 16" 22.5° BEND
- ⑩ STA. 367+07.0, 63.0' LT.  
INSTALL: 1 - 16" GATE VALVE AND BOX
- ⑪ STA. 367+14.0, 131.0' LT.  
INSTALL: 1 - 16" CONNECTING SLEEVE
- ⑫ STA. 369+67.0, 65.0' LT.  
INSTALL: 1 - 20" 11.25° BEND
- ⑬ STA. 370+30.0, 79.0' LT.  
INSTALL: 1 - 20" 11.25° BEND

- ① STA. 368+22.0, 70.0' RT.  
STA. 368+31.0, 70.0' RT.  
INSTALL: 1 - 30" GATE VALVE & BOX
- ② STA. 368+24.0, 71.0' RT.  
INSTALL: 1 - 30"x16" TEE
- ③ STA. 368+26.0, 57.0' RT.  
INSTALL: 1 - 16" GATE VALVE & BOX
- ⑭ STA. 368+27.0, 66.0' RT.  
INSTALL: 1 - 16" 90° MJ x PE BEND (VERT.)
- ⑮ STA. 368+27.0, 66.0' RT.  
INSTALL: 1 - 16" 90° BEND (VERT.)
- ⑯ STA. 368+36.0, 69.0' RT.  
STA. 368+56.0, 62.0' RT.  
INSTALL: 1 - 30" 11.25° BEND

STA. 370+22.0, 90.0' LT.  
INSTALL: 1 - AIR RELEASE VALVE ASSEMBLY

INSTALL 20" DIP RCW  
(STA. 366+60, 74' LT TO  
STA. 372+40, 80' LT)

PROP. 16" FM  
(BY OTHERS)



MATCHLINE STA. - 366+60.00

MATCHLINE STA. - 372+40.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	△ REV FM BY OTHERS ALIGN		

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
380 PARK PLACE BLVD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

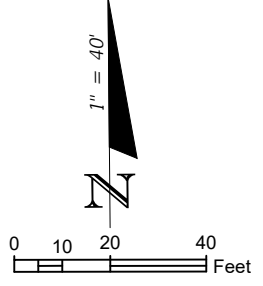
<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY PLAN (14)**

SHEET NO.  
**U-14**

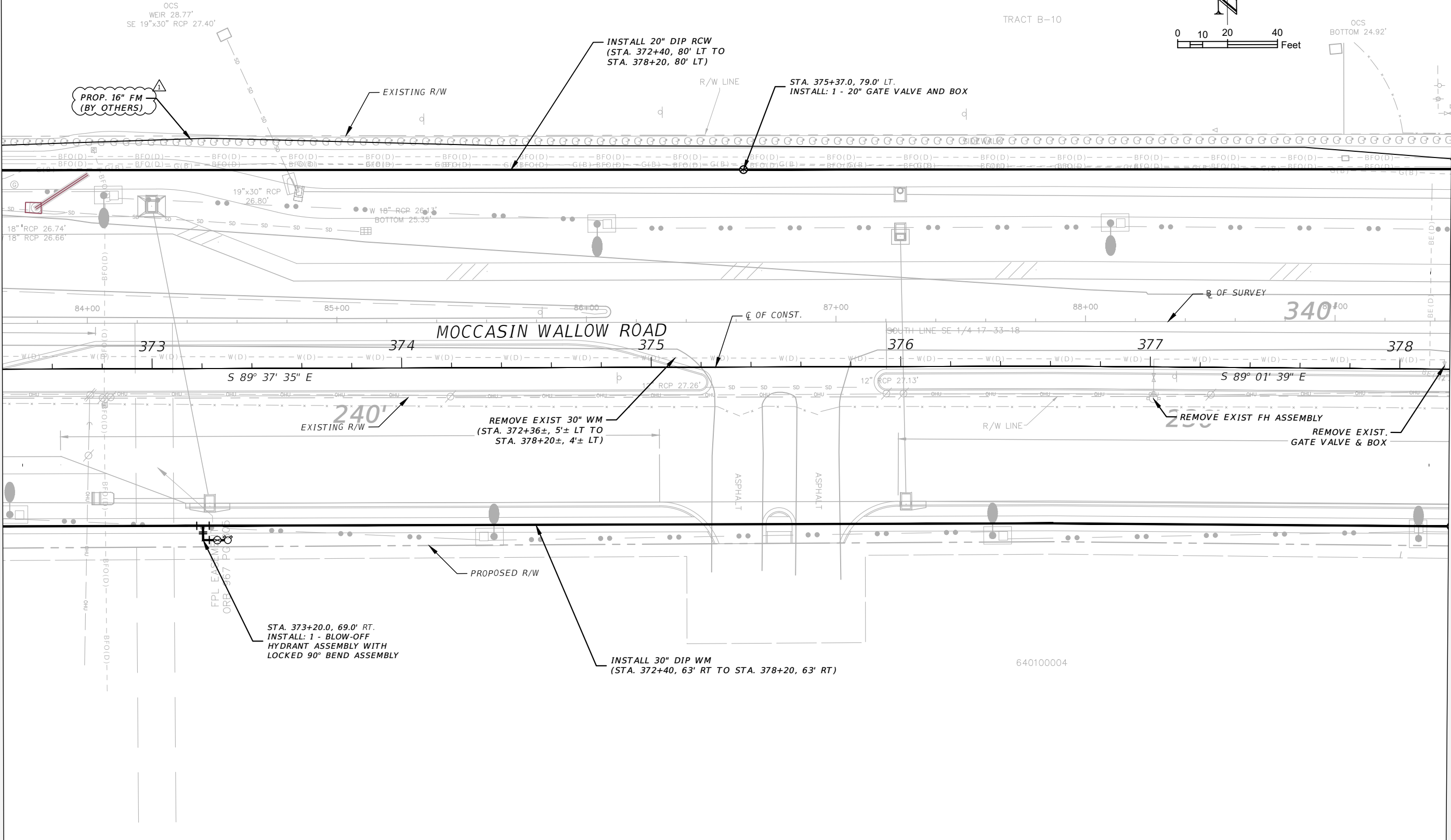
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ARTISAN LAKES ESPLANADE  
PB 57 PG 65  
TRACT B-10



MATCHLINE STA. - 372+40.00

MATCHLINE STA. - 378+20.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	△ REV FM BY OTHERS ALIGN		

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
380 PARK PLACE BLVD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY PLAN (15)**

SHEET NO.  
**U-15**

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⑥ STA. 378+21.0, 82.0' LT.  
 STA. 378+24.0, 75.0' LT.  
 INSTALL: 1 - 6" 22.5° BEND

CONNECT TO EXIST. 6" TEE  
 STA. 378+21±, 84± LT

INSTALL 6" DIP WM  
 (STA. 378+21, 84' LT TO  
 STA. 378+26, 60' RT)

REMOVE EXIST 6" WM  
 (STA. 378+21±, 1'± RT TO  
 STA. 378+21±, 84± LT)

INSTALL 92LF 14" STEEL CASING  
 (BY OPEN CUT)

INSTALL 20" DIP RCW  
 (STA. 378+20, 80' LT TO  
 STA. 384+00, 63' LT)

STA. 379+66.0, 81.0' LT.  
 INSTALL: 1 - 20" 22.5° BEND

STA. 380+16.0, 62.0' LT.  
 INSTALL: 1 - 20" 22.5° BEND

STA. 383+36.0, 63.0' LT.  
 INSTALL: 1 - 20" GATE VALVE AND BOX

PROP. 16" FM  
 (BY OTHERS)

REMOVE EXIST 30" WM  
 (STA. 378+20±, 4± LT TO  
 STA. 384+00±, 11± LT)

STA. 379+38.0, 79.0' RT.  
 INSTALL: 1 - 30" 11.25° BEND (ROLLED)

STA. 379+01.0, 63.0' RT.  
 INSTALL: 1 - 30" 11.25° BEND

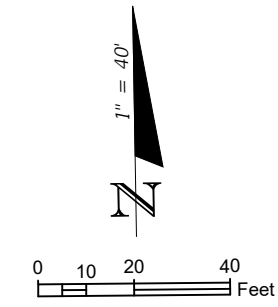
STA. 378+81.0, 63.0' RT.  
 INSTALL: 1 - 30" 22.5° BEND (VERT.)

STA. 378+65.0, 63.0' RT.  
 INSTALL: 1 - 30" 22.5° BEND (VERT.)

INSTALL 30" DIP WM  
 (STA. 378+20, 63' RT TO  
 STA. 384+00, 79' RT)

STA. 380+90.0, 82.0' RT.  
 INSTALL: 1 - AIR RELEASE  
 VALVE ASSEMBLY

- ① STA. 378+35.0, 69.0' RT.  
 INSTALL: 1 - FIRE HYDRANT WITH  
 LOCKED 90° BEND ASSEMBLY
- ② STA. 378+21.0, 63.0' RT.  
 INSTALL: 1 - 30" GATE VALVE AND BOX
- ③ STA. 378+26.0, 63.0' RT.  
 INSTALL: 1 - 30"X6" CROSS
- ④ NOT USED
- ⑤ STA. 378+26.0, 59.0' RT.  
 INSTALL: 1 - 6" GATE VALVE AND BOX



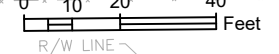
MATCHLINE STA. - 378+20.00

MATCHLINE STA. - 384+00.00

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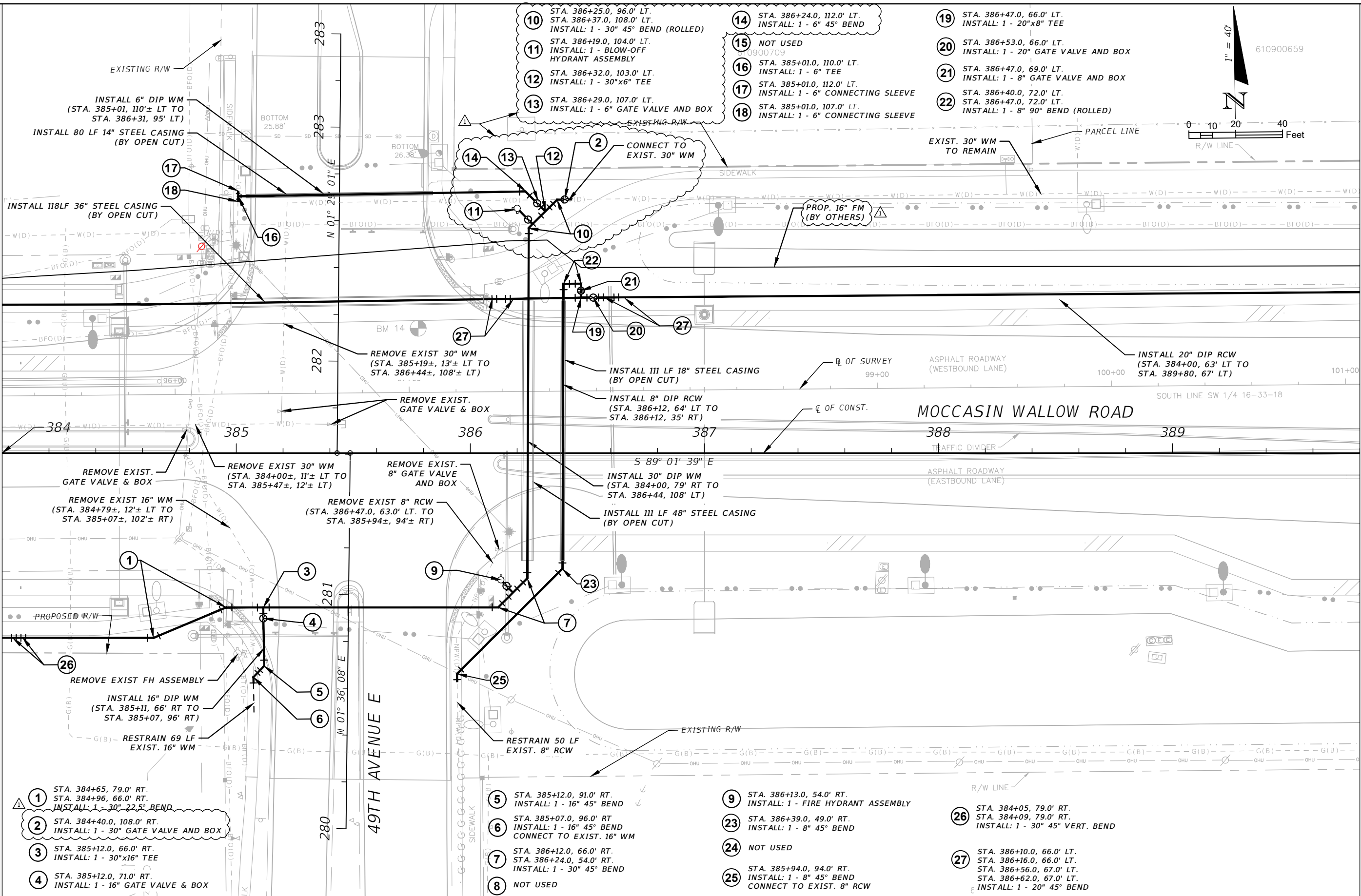
REVISIONS		THOMAS M. NOGAJ, PHD, P.E. P.E. LICENSE NUMBER 42854 CARDNO 380 PARK PLACE BLVD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO.  U-16
DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
7/11/22	△ REV FM BY OTHERS ALIGN		MOCCASIN WALLOW RD	6092560	

610900659



MATCHLINE STA. - 384+00.00

MATCHLINE STA. - 389+80.00



- ① STA. 384+65, 79.0' RT.  
STA. 384+96, 66.0' RT.  
INSTALL: 1 - 30" 22.5° BEND
- ② STA. 384+40.0, 108.0' RT.  
INSTALL: 1 - 30" GATE VALVE AND BOX
- ③ STA. 385+12.0, 66.0' RT.  
INSTALL: 1 - 30"x16" TEE
- ④ STA. 385+12.0, 71.0' RT.  
INSTALL: 1 - 16" GATE VALVE & BOX

- ⑤ STA. 385+12.0, 91.0' RT.  
INSTALL: 1 - 16" 45° BEND
- ⑥ STA. 385+07.0, 96.0' RT.  
INSTALL: 1 - 16" 45° BEND  
CONNECT TO EXIST. 16" WM
- ⑦ STA. 386+12.0, 66.0' RT.  
STA. 386+24.0, 54.0' RT.  
INSTALL: 1 - 30" 45° BEND
- ⑧ NOT USED

- ⑨ STA. 386+13.0, 54.0' RT.  
INSTALL: 1 - FIRE HYDRANT ASSEMBLY
- ⑩ STA. 386+25.0, 96.0' LT.  
STA. 386+37.0, 108.0' LT.  
INSTALL: 1 - 30" 45° BEND (ROLLED)
- ⑪ STA. 386+19.0, 104.0' LT.  
INSTALL: 1 - BLOW-OFF  
HYDRANT ASSEMBLY
- ⑫ STA. 386+32.0, 103.0' LT.  
INSTALL: 1 - 30"x6" TEE
- ⑬ STA. 386+29.0, 107.0' LT.  
INSTALL: 1 - 6" GATE VALVE AND BOX
- ⑭ STA. 386+24.0, 112.0' LT.  
INSTALL: 1 - 6" 45° BEND
- ⑮ NOT USED
- ⑯ STA. 385+01.0, 110.0' LT.  
INSTALL: 1 - 6" TEE
- ⑰ STA. 385+01.0, 112.0' LT.  
INSTALL: 1 - 6" CONNECTING SLEEVE
- ⑱ STA. 386+47.0, 66.0' LT.  
INSTALL: 1 - 20"x8" TEE
- ⑲ STA. 386+53.0, 66.0' LT.  
INSTALL: 1 - 20" GATE VALVE AND BOX
- ⑳ STA. 386+47.0, 69.0' LT.  
INSTALL: 1 - 8" GATE VALVE AND BOX
- ㉑ STA. 386+40.0, 72.0' LT.  
STA. 386+47.0, 72.0' LT.  
INSTALL: 1 - 8" 90° BEND (ROLLED)
- ㉒ STA. 385+94.0, 94.0' RT.  
INSTALL: 1 - 8" 45° BEND  
CONNECT TO EXIST. 8" RCW
- ㉓ STA. 386+39.0, 49.0' RT.  
INSTALL: 1 - 8" 45° BEND
- ㉔ NOT USED
- ㉕ STA. 386+10.0, 66.0' LT.  
STA. 386+16.0, 66.0' LT.  
STA. 386+56.0, 67.0' LT.  
STA. 386+62.0, 67.0' LT.  
INSTALL: 1 - 20" 45° BEND

REVISIONS	
DATE	DESCRIPTION
7/11/22	△ REV WM ALIGNMENT AND PROF, REV FM BY OTHERS ALIGN

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
380 PARK PLACE BLVD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY PLAN (17)**

SHEET NO.  
U-17

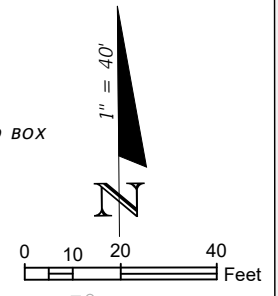
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



P/O 610900609

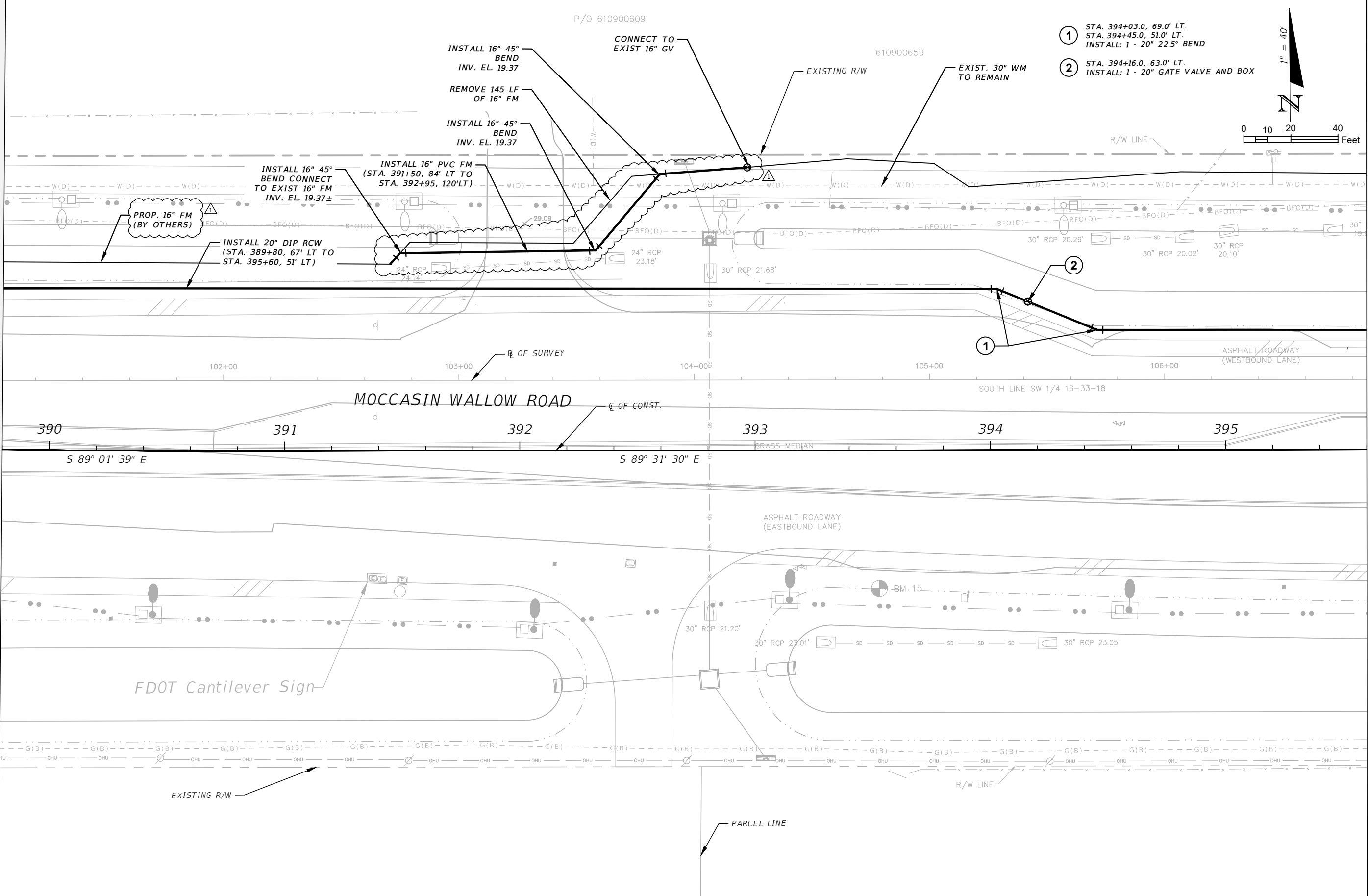
610900659

- ① STA. 394+03.0, 69.0' LT.  
STA. 394+45.0, 51.0' LT.  
INSTALL: 1 - 20" 22.5° BEND
- ② STA. 394+16.0, 63.0' LT.  
INSTALL: 1 - 20" GATE VALVE AND BOX



MATCHLINE STA. - 389+80.00

MATCHLINE STA. - 395+60.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	REV FM BY OTHERS ALIGN, RELOCATE FM		

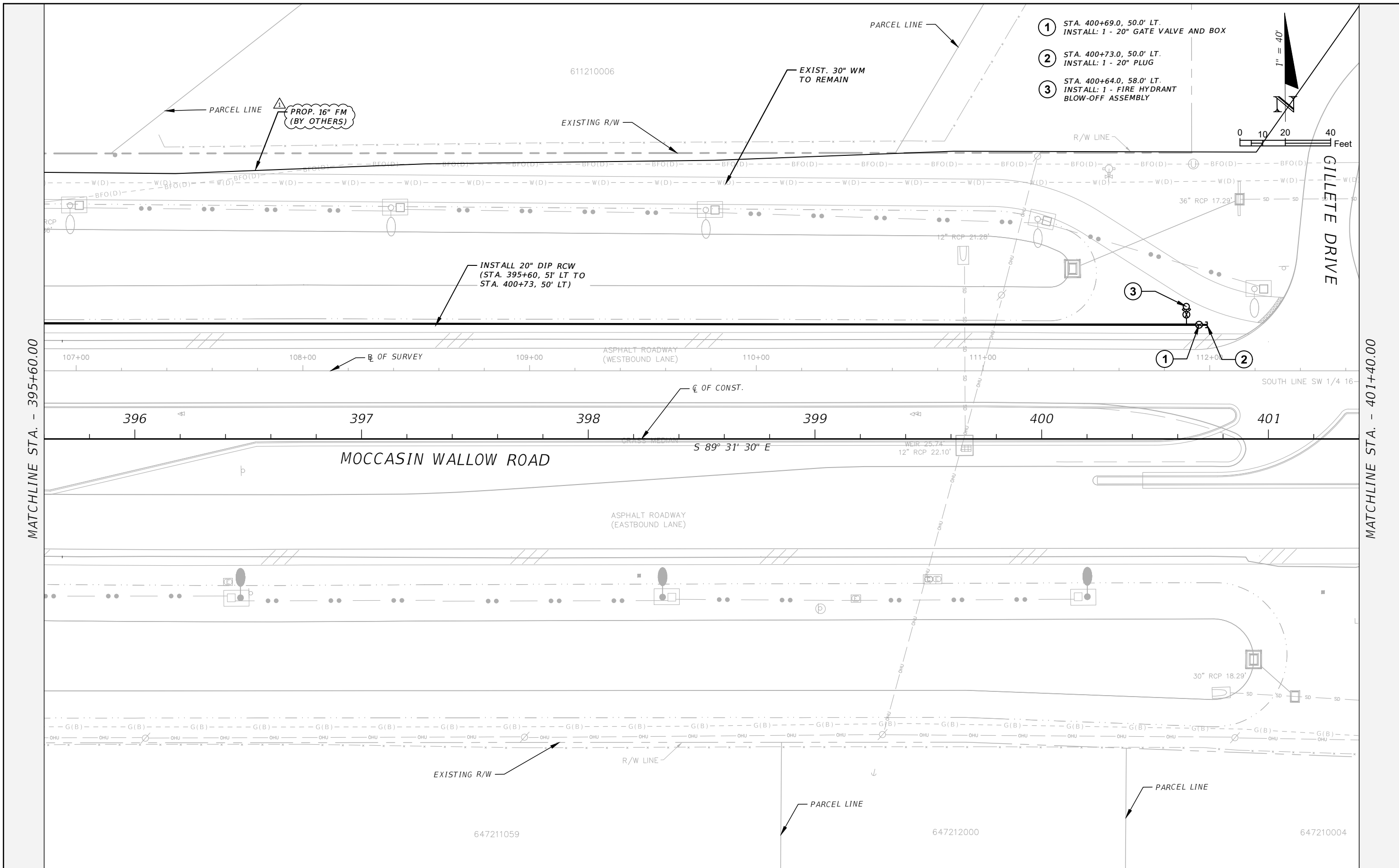
THOMAS M. NOGAJ, PHD, P.E.  
 P.E. LICENSE NUMBER 42854  
 CARDNO  
 380 PARK PLACE BLVD, SUITE 300  
 CLEARWATER, FLORIDA 33759  
 CERTIFICATE OF AUTHORIZATION 29915

<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

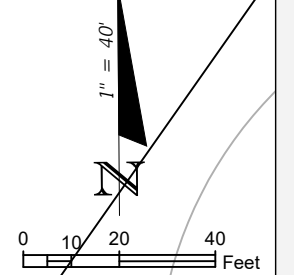
**UTILITY PLAN (18)**

SHEET NO.  
**U-18**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- ① STA. 400+69.0, 50.0' LT.  
INSTALL: 1 - 20" GATE VALVE AND BOX
- ② STA. 400+73.0, 50.0' LT.  
INSTALL: 1 - 20" PLUG
- ③ STA. 400+64.0, 58.0' LT.  
INSTALL: 1 - FIRE HYDRANT BLOW-OFF ASSEMBLY

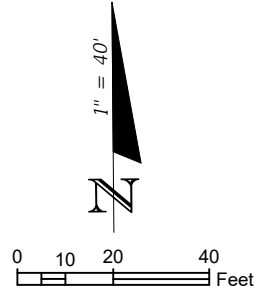
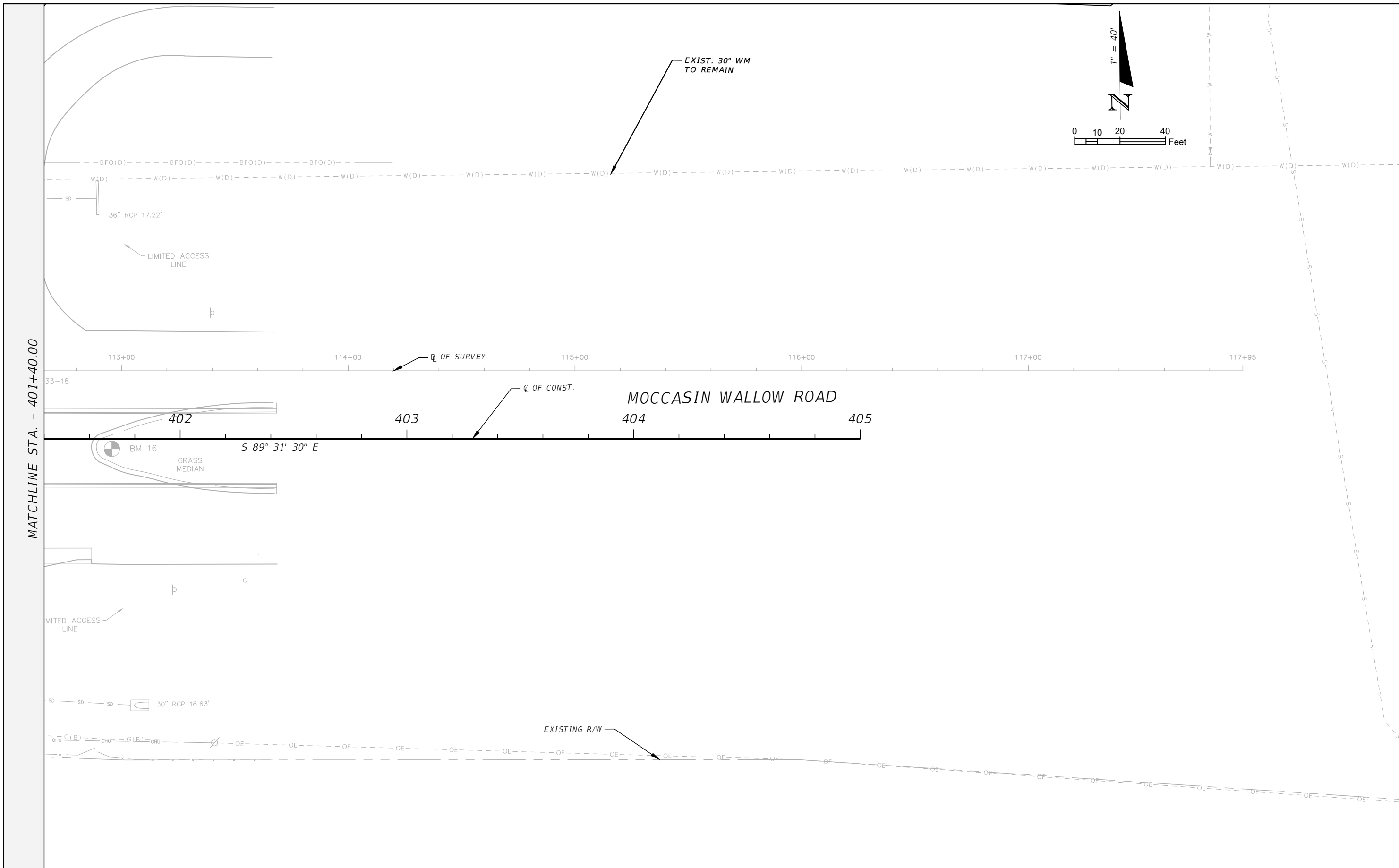


MATCHLINE STA. - 395+60.00

MATCHLINE STA. - 401+40.00

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				THOMAS M. NOGAJ, PHD, P.E. P.E. LICENSE NUMBER 42854 CARDNO 380 PARK PLACE BLVD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		<b>UTILITY PLAN (19)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		U-19
7/11/22	△ REV FM BY OTHERS ALIGN			MOCCASIN WALLOW RD	6092560			



MATCHLINE STA. - 401+40.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	△ REV FM BY OTHERS ALIGN (OFF PAGE)		

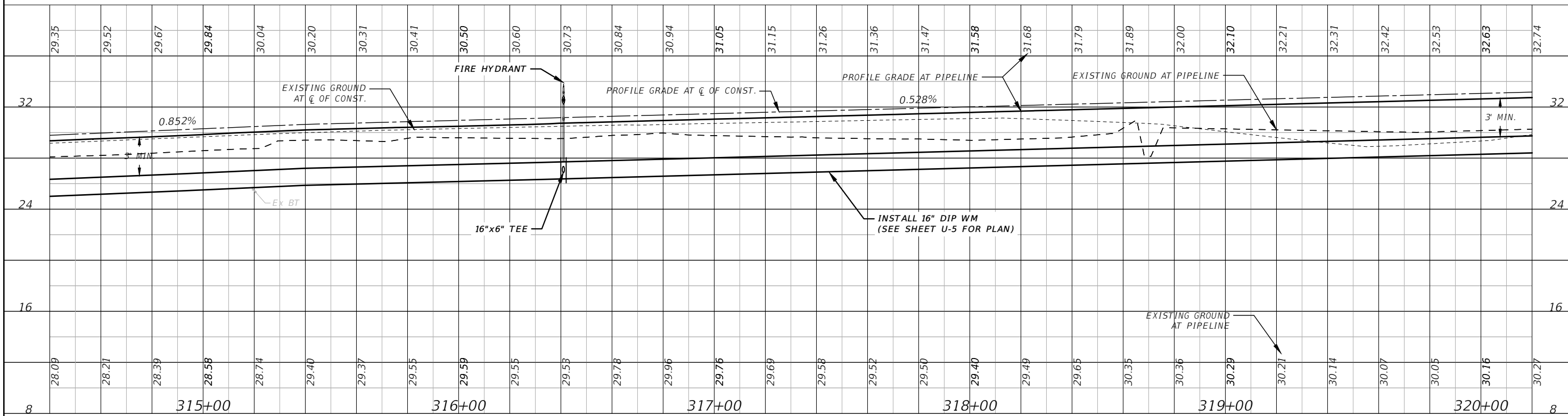
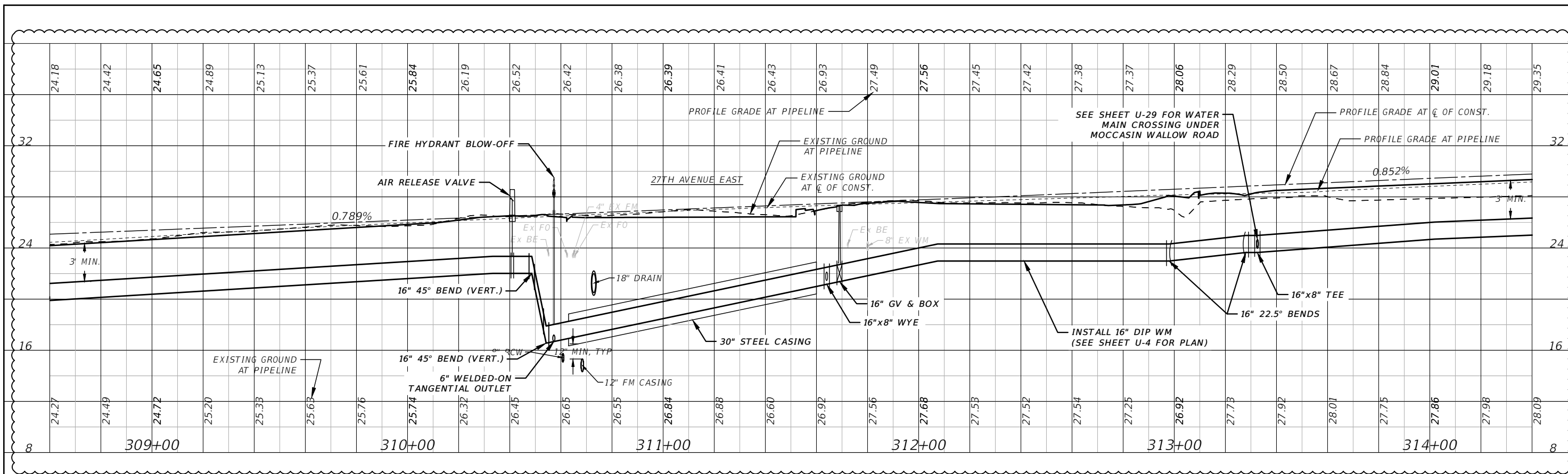
THOMAS M. NOGAJ, PHD, P.E.  
 P.E. LICENSE NUMBER 42854  
 CARDNO  
 380 PARK PLACE BLVD, SUITE 300  
 CLEARWATER, FLORIDA 33759  
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<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY PLAN (20)**

SHEET NO.  
U-20





1" = 40' Horizontal  
1" = 8' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/11/22	SHOW MISSING PROFILE LINES		

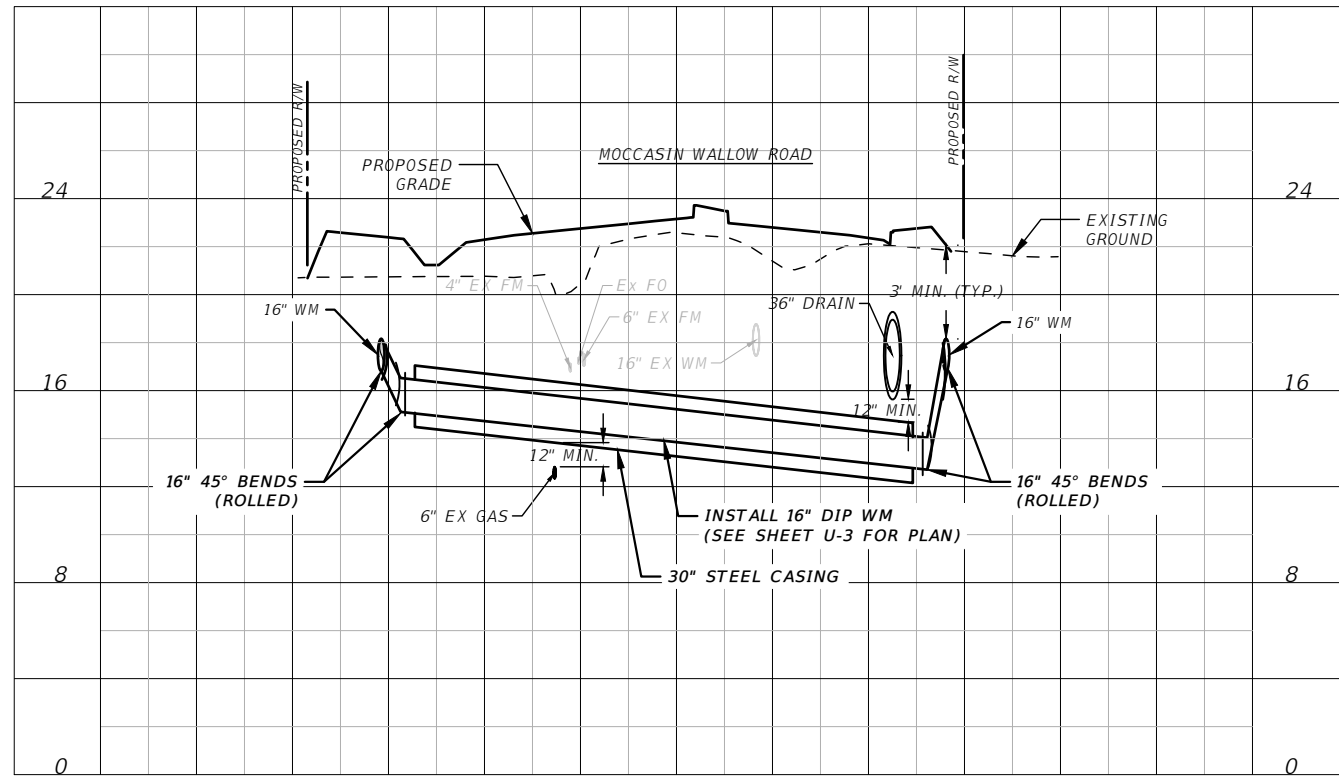
THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
380 PARK PLACE BLVD, SUITE 300  
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<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

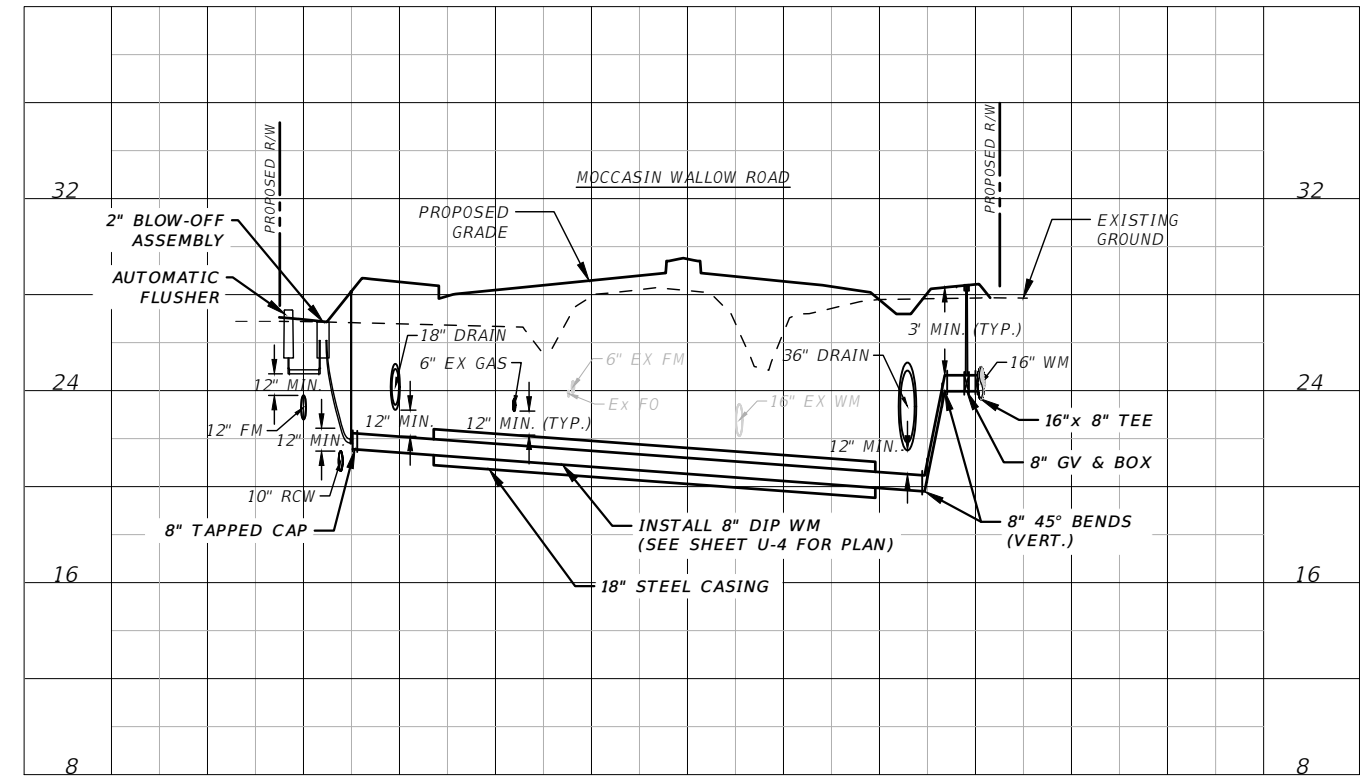
**WATER MAIN PROFILE (2)**

SHEET NO.  
U-22

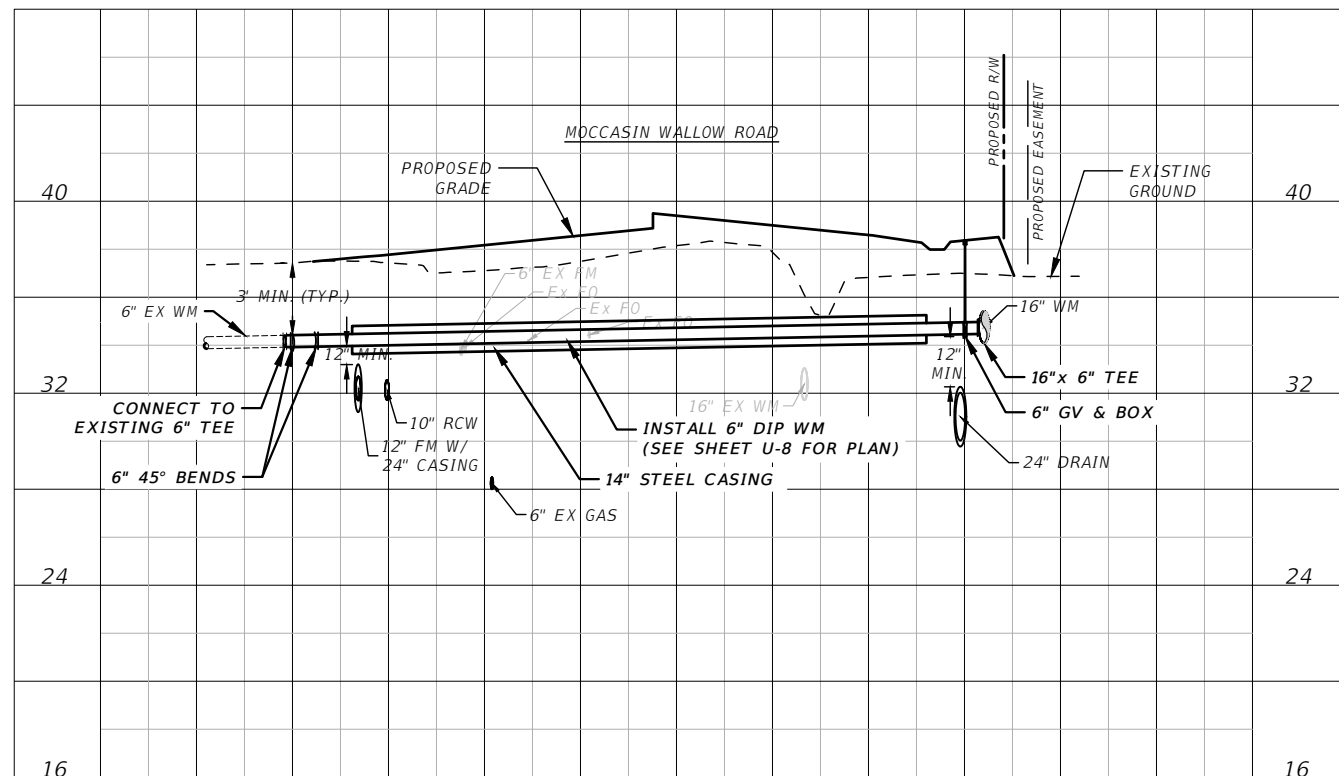




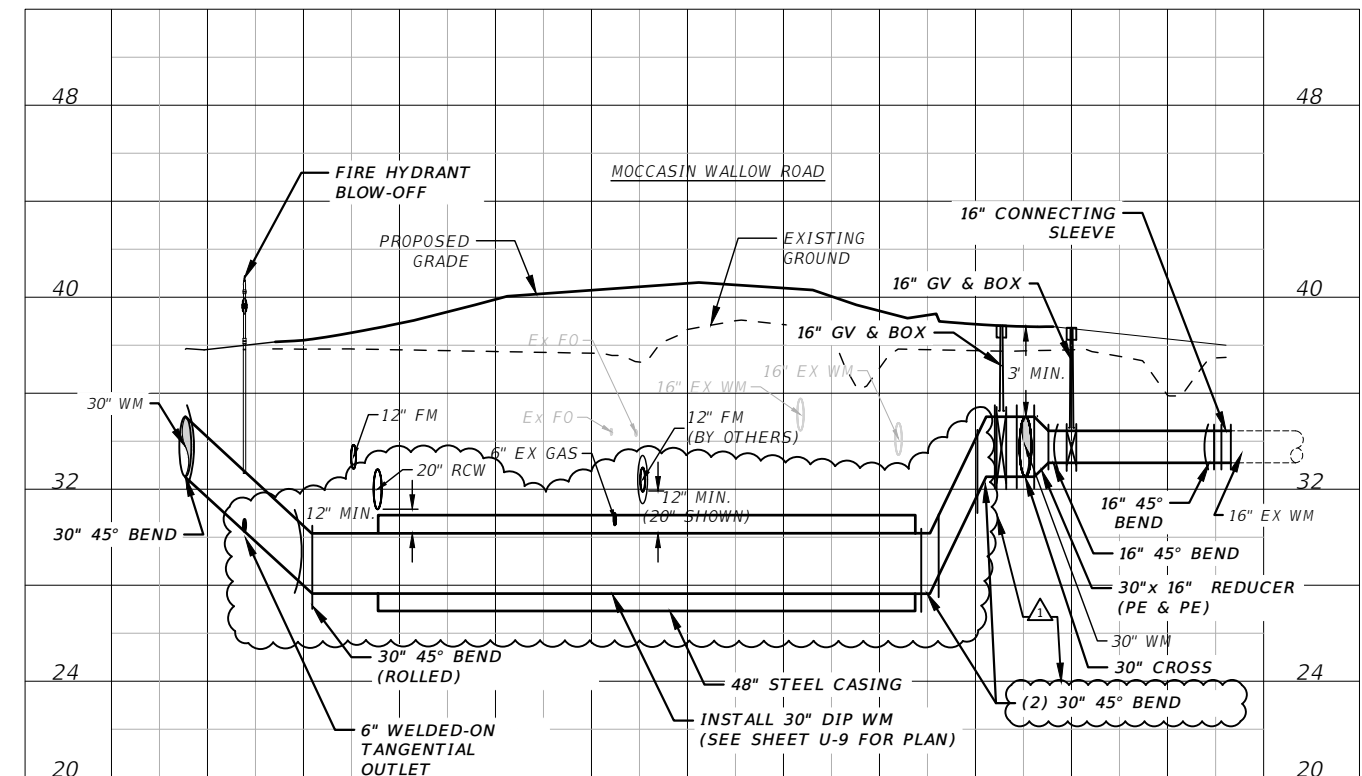
STATION 306+71



STATION 313+32



STATION 333+01



STATION 340+01

1" = 40' Horizontal  
1" = 8' Vertical

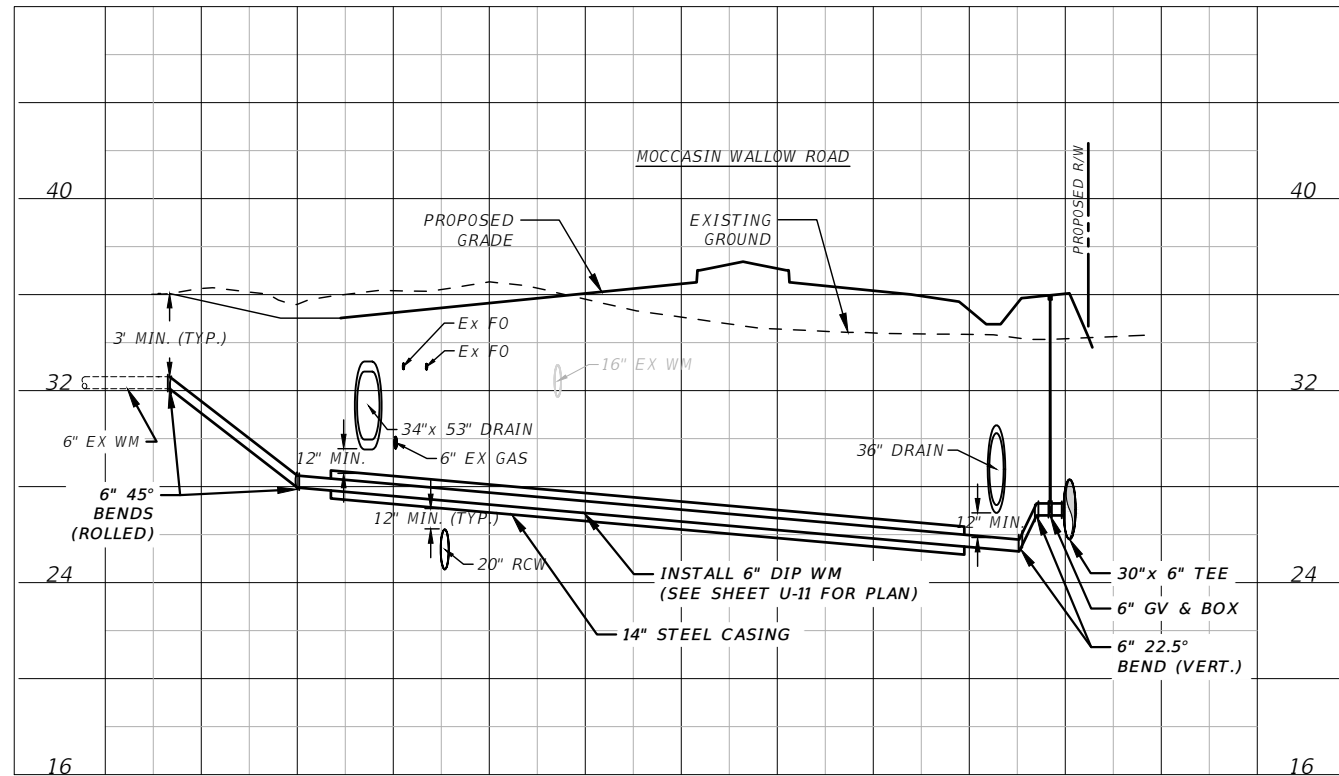
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
6/16/22	△ REV CROSS SECTION PROFILE ADD 2 FITTINGS		

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
380 PARK PLACE BLVD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

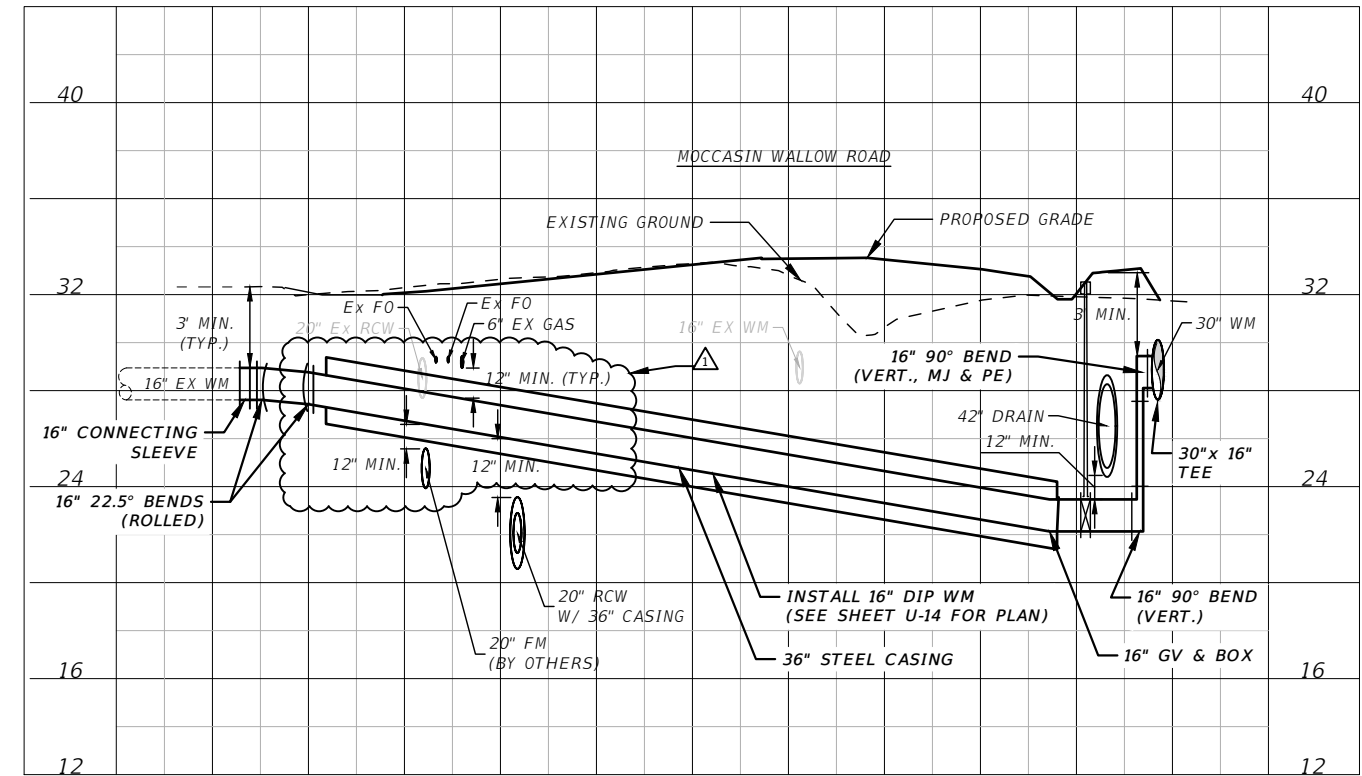
MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

WATER MAIN PROFILE (9)

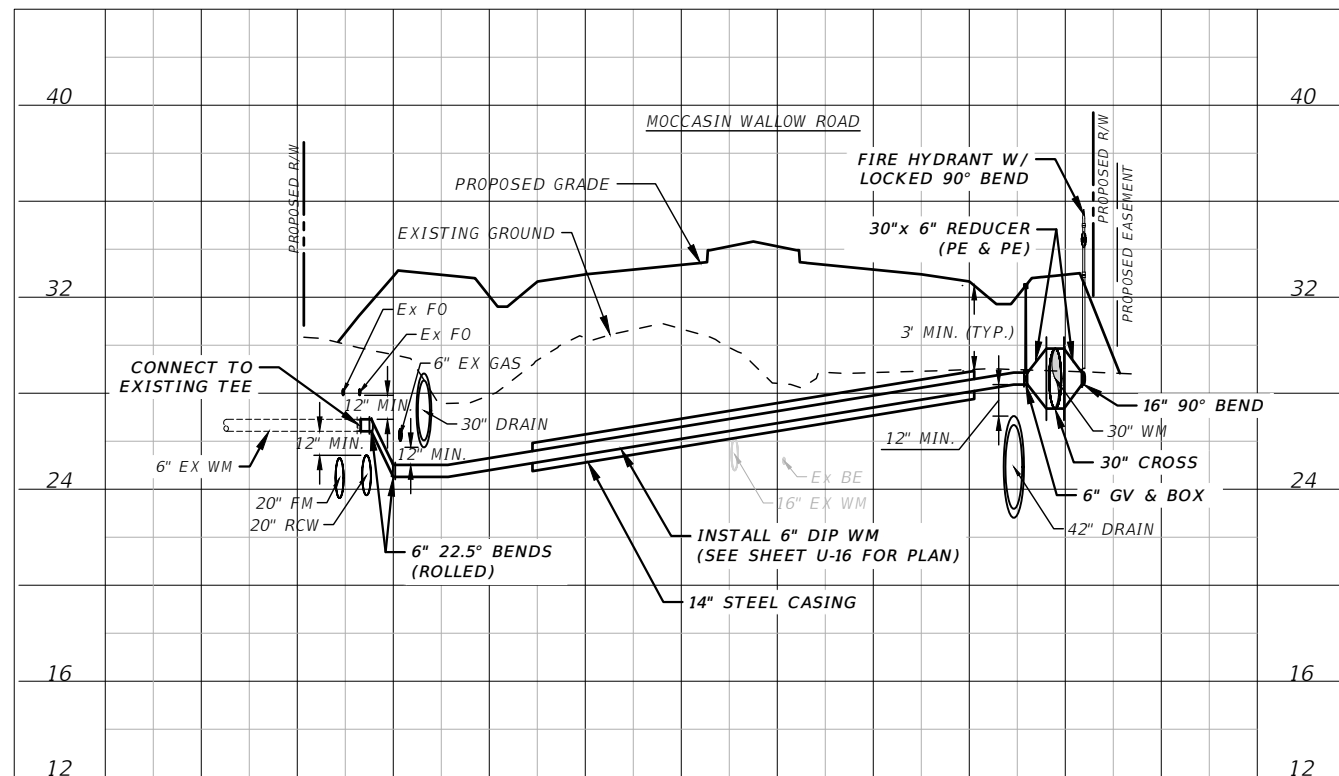
SHEET NO.
U-29



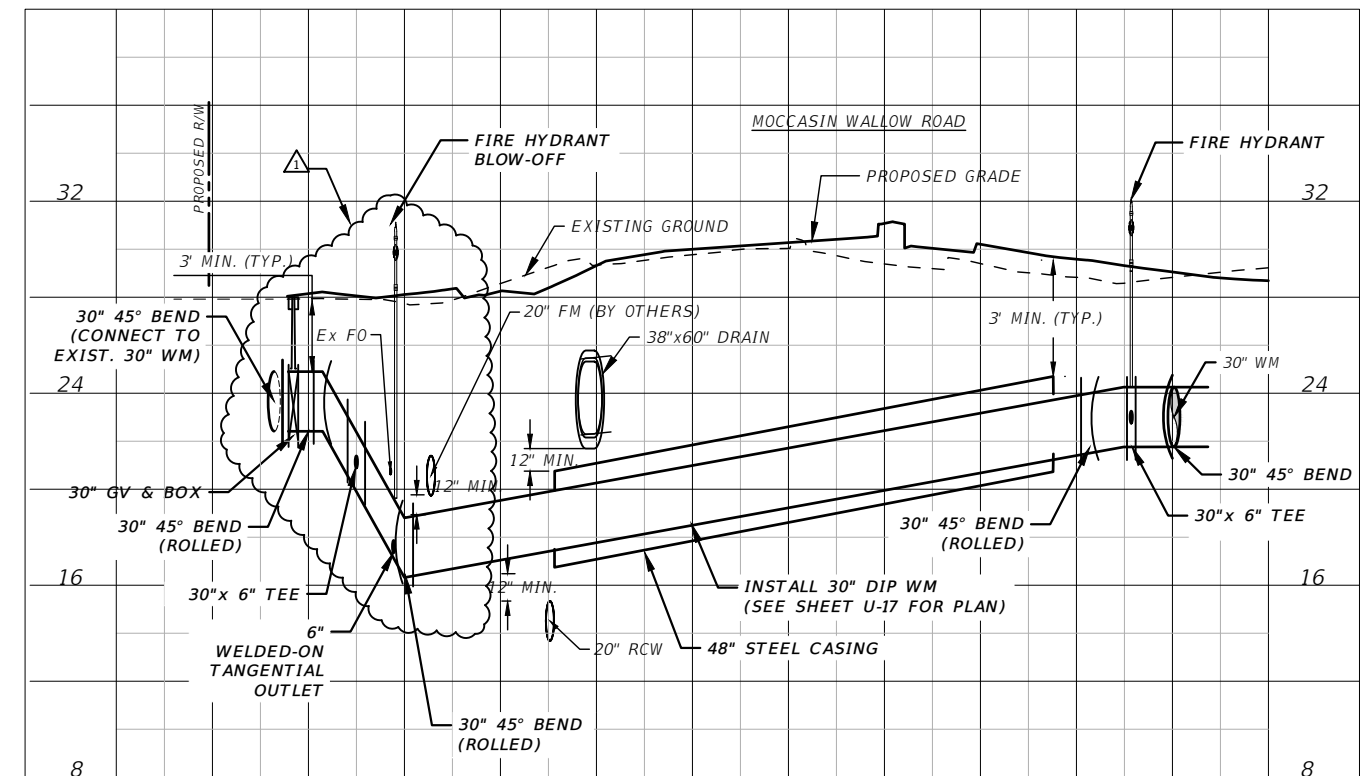
STATION 353+03



STATION 368+09



STATION 378+26



STATION 386+24

1" = 40' Horizontal  
1" = 8' Vertical

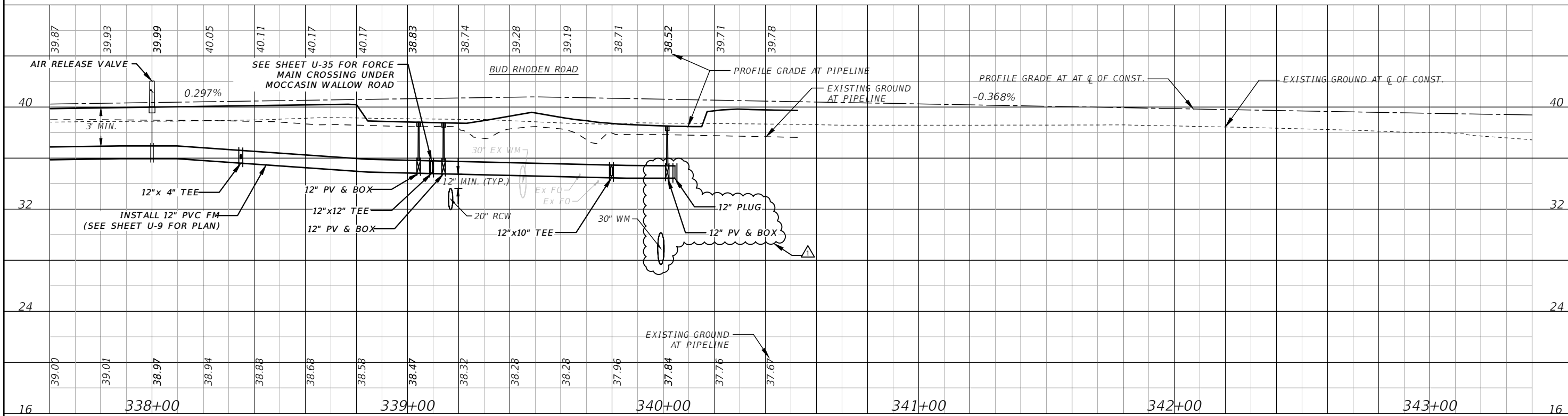
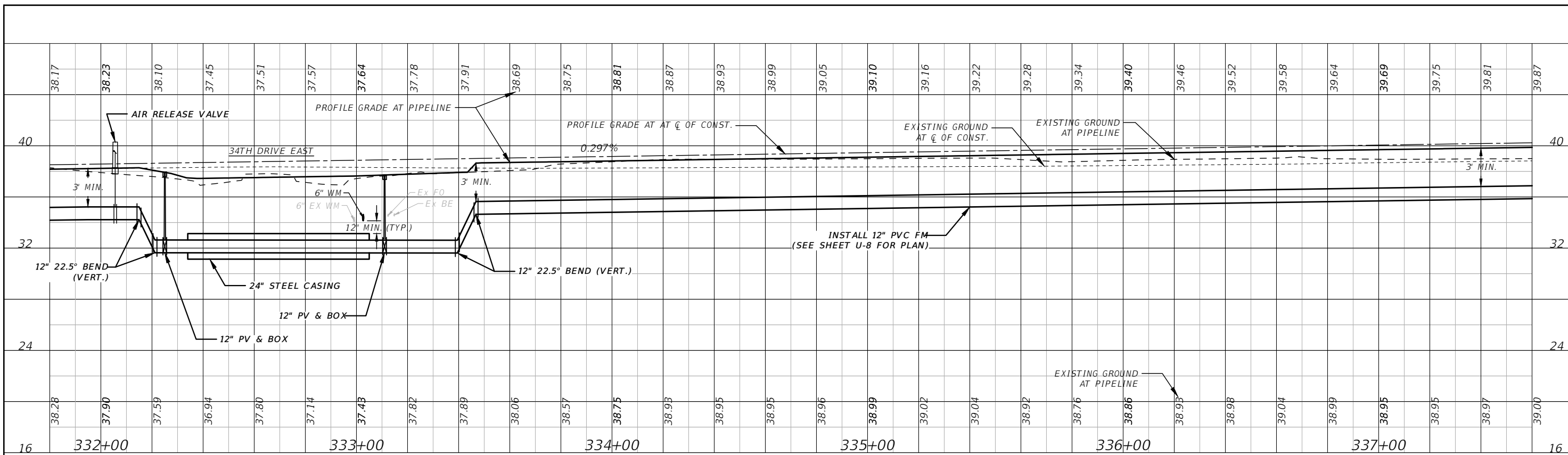
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
6/16/22	△ REV WM CROSS SECTION		

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
CARDNO  
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MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

WATER MAIN PROFILE (10)

SHEET NO.
U-30



1" = 40' Horizontal  
1" = 8' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
6/16/22	△ REV WM CROSSING REMOVED 2 12" FITTINGS		

THOMAS M. NOGAJ, PHD, P.E.  
P.E. LICENSE NUMBER 42854  
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CERTIFICATE OF AUTHORIZATION 29915

<b>MANATEE COUNTY</b>	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**FORCE MAIN PROFILE (A)**

SHEET NO.  
U-34

