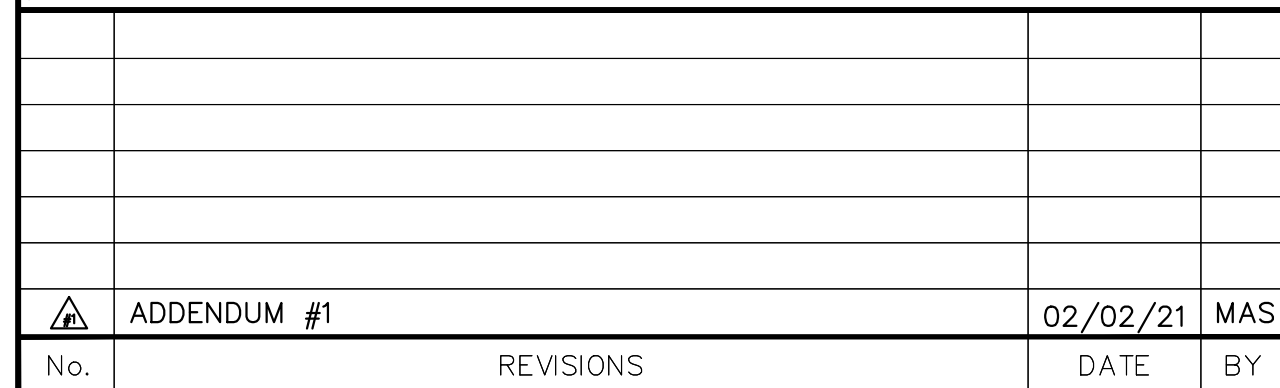


THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WEATHER, PROVIDE ADEQUATE DRAINAGE, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



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PHONE: 727-547-3999  
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# BASIN 16

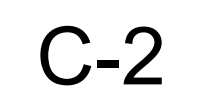
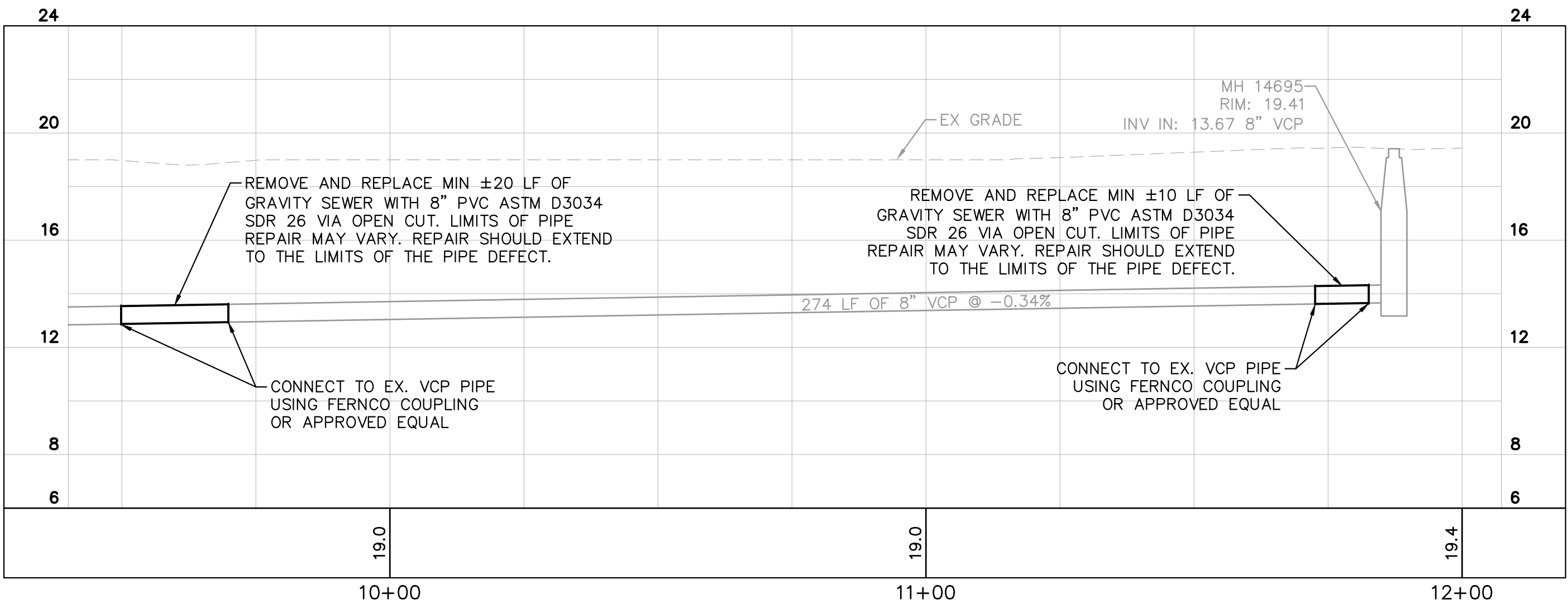
## GRAVITY SEWER REHABILITATION

MICHAEL ANTHONY  
SEMAGO, P.E.  
FL LICENSE NUMBER  
87501

C-1



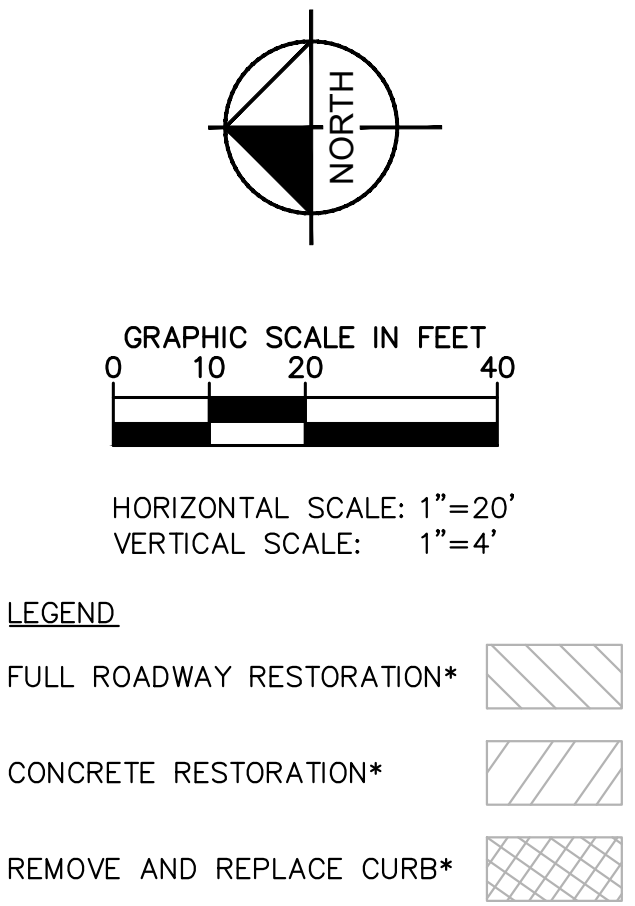
	ADDENDUM #1	02/02/21	MAS
No.	REVISIONS	DATE	BY



FL DATE:

## PLAN AND PROFILE





- NOTES:
1. CCTV POST CONSTRUCTION INSPECTION REQUIRED ON ALL GRAVITY SEWER IMPROVEMENTS INCLUDING NEW LATERALS AND LATERAL RECONNECTIONS. THE NEW LATERALS AND LATERAL RECONNECTIONS WILL REQUIRE VIDEO INSPECTION OF THE CONNECTION TO THE GRAVITY MAIN.
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  3. REPLACEMENT OF SEWER LATERAL SHALL INCLUDE ALL WORK FROM THE POINT OF CONNECTION AT THE GRAVITY MAIN LINE TO THE CLEANOUT.
  4. CONTRACTOR SHALL MAINTAIN GRAVITY SEWER FLOWS AT ALL TIMES DURING CONSTRUCTION
  5. ALL POINT REPAIRS SHALL BE CONSTRUCTED TO MATCH EXISTING SLOPE

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KHA PROJECT 148400038	
DATE 10/14/2020	
SCALE AS SHOWN	
DESIGNED BY	MAS
DRAWN BY	ATH
CHECKED BY	SNR



FL	LICENSED PROFESSIONAL
	<hr/> MICHAEL ANTHONY SEMAGO, P.E. FL LICENSE NUMBER 87501
DATE:	


## PLAN AND PROFILE

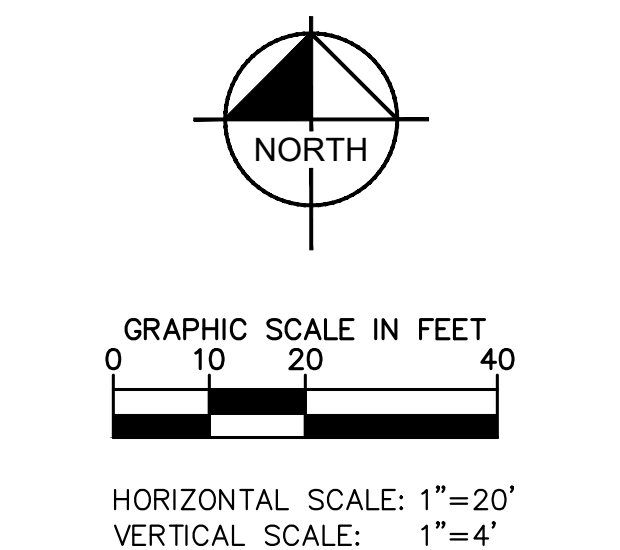
C-3










	ADDENDUM #1	02/02/21	MAS
No.	REVISIONS	DATE	BY



**LEGEND**

FULL ROADWAY RESTORATION*	
CONCRETE RESTORATION*	
REMOVE AND REPLACE CURB*	

\* FINAL RESTORATION LIMITS SHALL BE DETERMINED BY THE COUNTY INSPECTOR FOLLOWING REHABILITATION WORK.

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GROUNDWATER /  
DEWATERING NOTE:

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SHEET NUMBER

C-5

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	DATE 10/14/2020
	SCALE AS SHOWN
	DESIGNED BY MAS
	DRAWN BY ATH
CHECKED BY SNR	



**BASIN 16**  
**GRAVITY SEWER REHABILITATION**

MANATEE COUNTY FL

LICENSED PROFESSIONAL

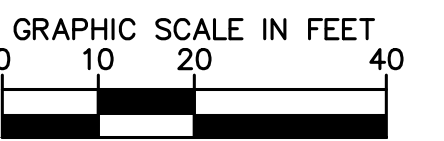
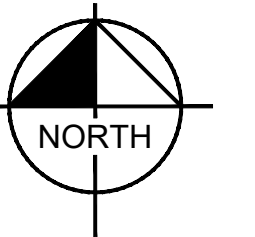
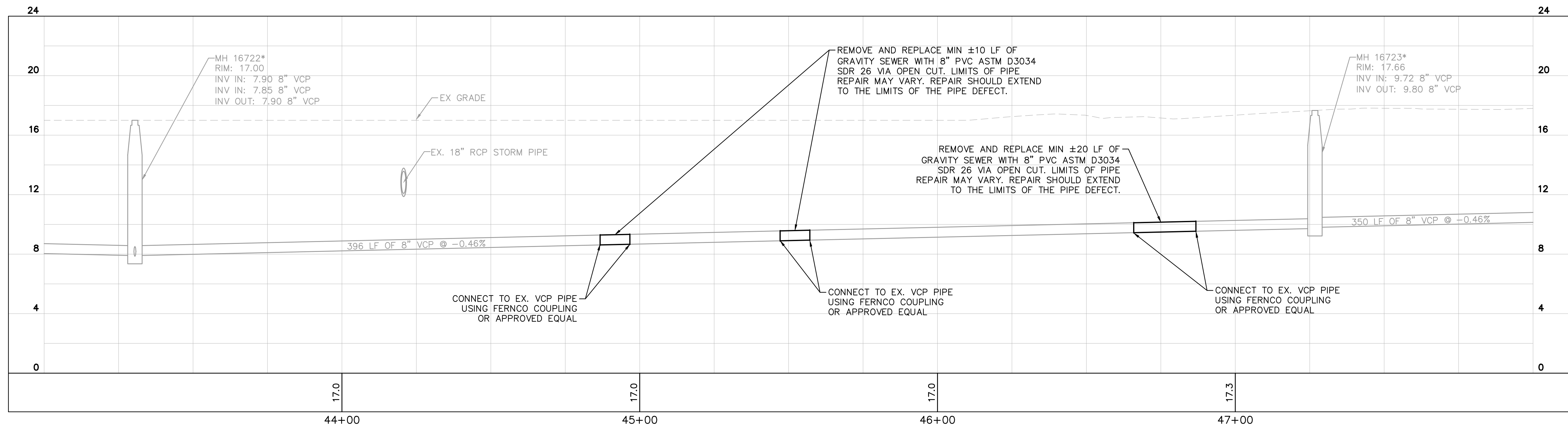
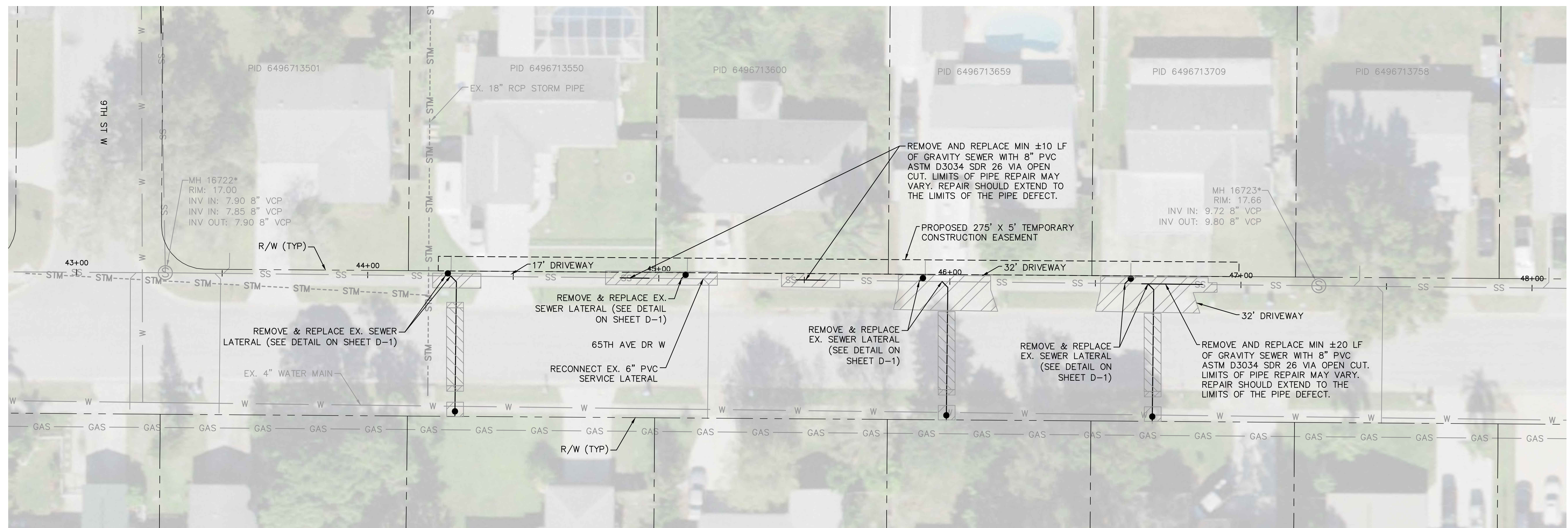
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MICHAEL ANTHONY  
SEMAGO, P.E.  
FL LICENSE NUMBER  
87501

DATE:

## PLAN AND PROFILE





HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=4'

### LEGEND

FULL ROADWAY RESTORATION\* 

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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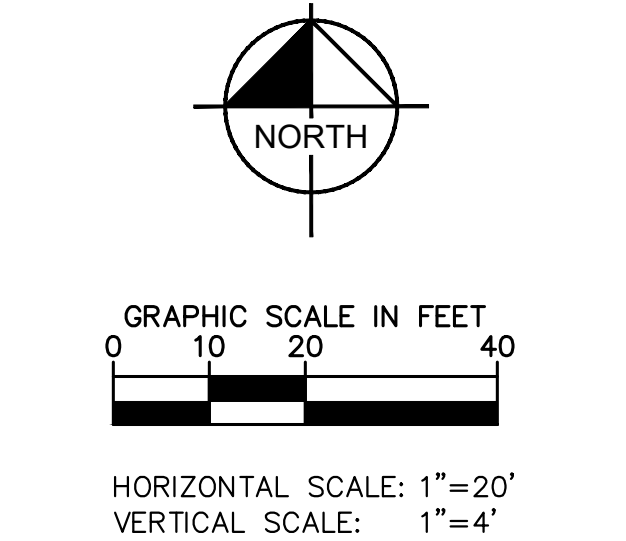
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[illegible]





REMOVE AND REPLACE CURB\*

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SHEET NUMBER

C-7

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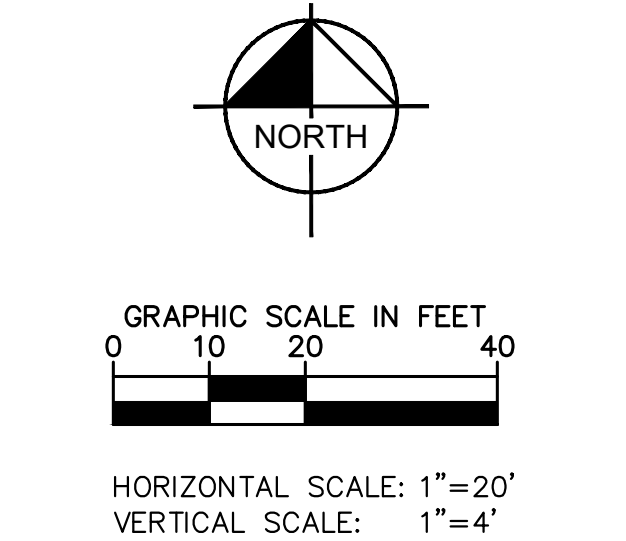
FL LICENSE NUMBER  
87501




FL DATE:

## PLAN AND PROFILE



	ADDENDUM #1	02/02/21	MAS
No.	REVISIONS	DATE	BY



FULL ROADWAY RESTORATION*	
CONCRETE RESTORATION*	
REMOVE AND REPLACE CURB*	

1. CCTV POST CONSTRUCTION INSPECTION REQUIRED ON ALL GRAVITY SEWER IMPROVEMENTS INCLUDING NEW LATERALS AND LATERAL RECONNECTIONS. THE NEW LATERALS AND LATERAL RECONNECTIONS WILL REQUIRE VIDEO INSPECTION OF THE CONNECTION TO THE GRAVITY MAIN.

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CONSTRUCTED TO MATCH EXISTING  
SLOPE

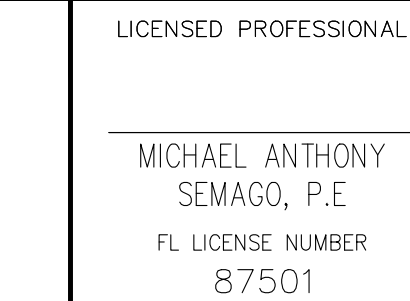
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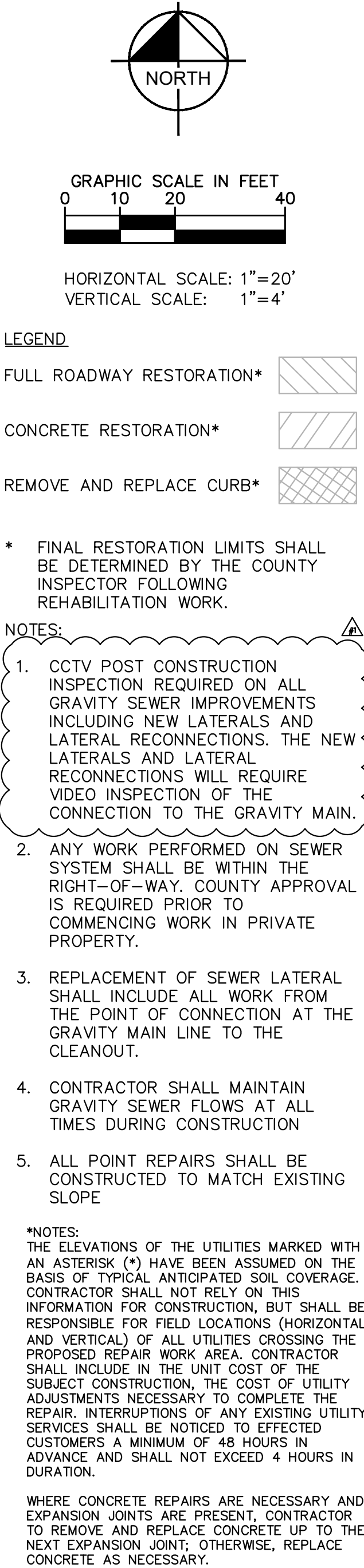
  
**BASIN 16**  
**GRAVITY SEWER REHABILITATION**



SHEET NUMBER

**C-8**

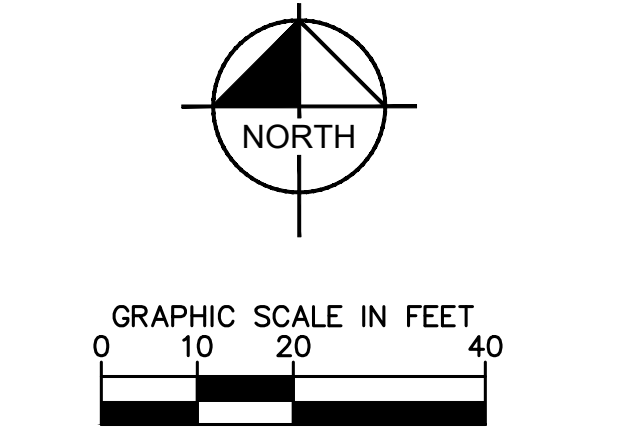







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[illegible]





LEGEND

FULL ROADWAY RESTORATION*	
CONCRETE RESTORATION*	
REMOVE AND REPLACE CURB*	

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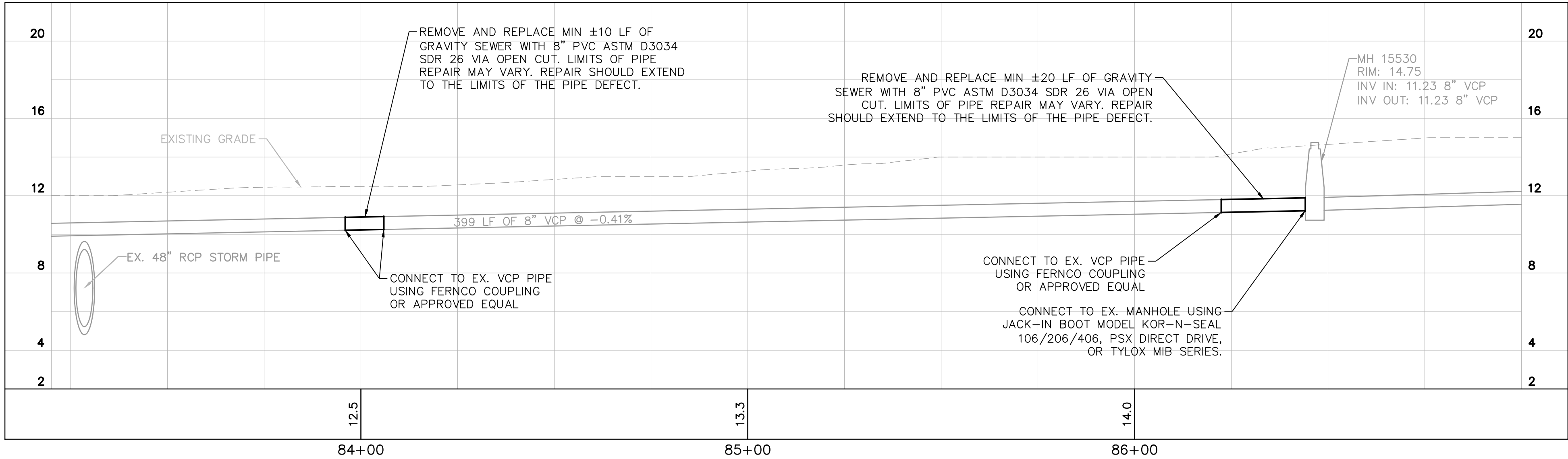
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[illegible]



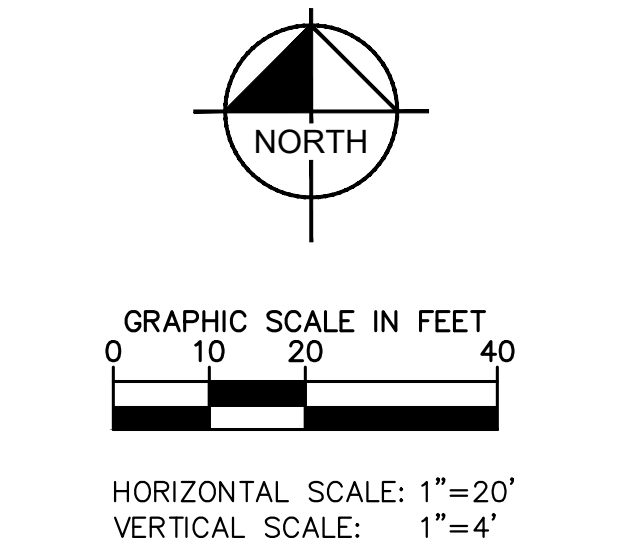


C-11

FL DATE:

# PLAN AND PROFILE





REMOVE AND REPLACE CURB\*


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	DATE 10/14/2020
	SCALE AS SHOWN
	DESIGNED BY MAS
	DRAWN BY ATH
	CHECKED BY SNR



## MANATEE COUNTY

MICHAEL ANTHONY  
SEMAGO, P.E  
FL LICENSE NUMBER  
87501

## PLAN AND PROFILE

SHEET NUMBER

C-12





HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=4'

FULL ROADWAY RESTORATION\*

## CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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SHEET NUMBER

C-13

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KHA PROJECT	
148400038	
DATE	
10/14/2020	
SCALE	AS SHOWN
DESIGNED BY	MA
DRAWN BY	AT
CHECKED BY	SN



MANATEE COUNTY


LICENSED PROFESSIONAL

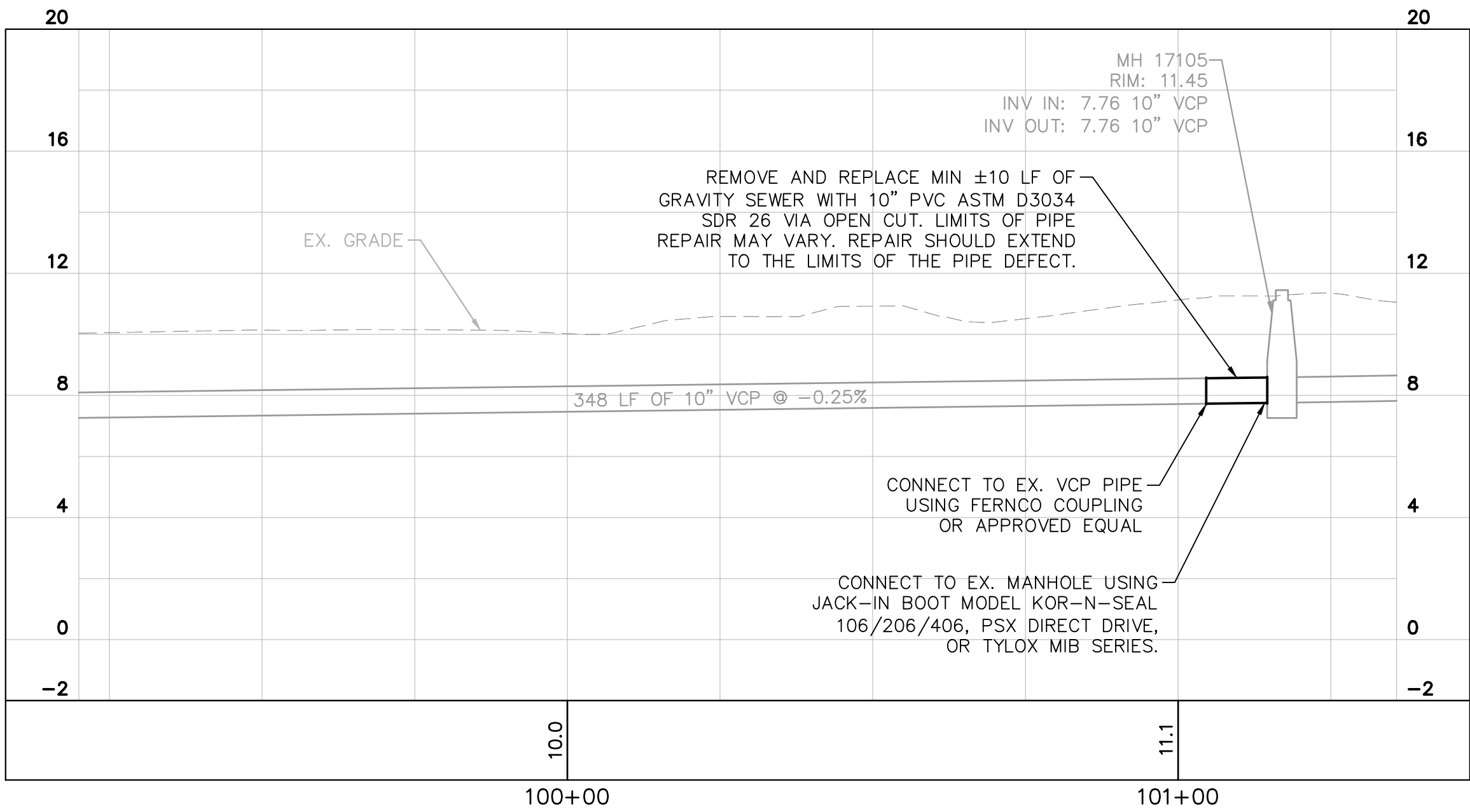
MICHAEL ANTHONY  
SEMAGO, P.E.  
FL LICENSE NUMBER  
87501

FL DATE:

## PLAN AND PROFILE



	ADDENDUM #1	02/02/21	MAS
No.	REVISIONS	DATE	BY



C-14

KHA PROJECT 148400038	
DATE 10/14/2020	
SCALE	AS SHOWN
DESIGNED BY	MAS
DRAWN BY	ATH
CHECKED BY	SNR



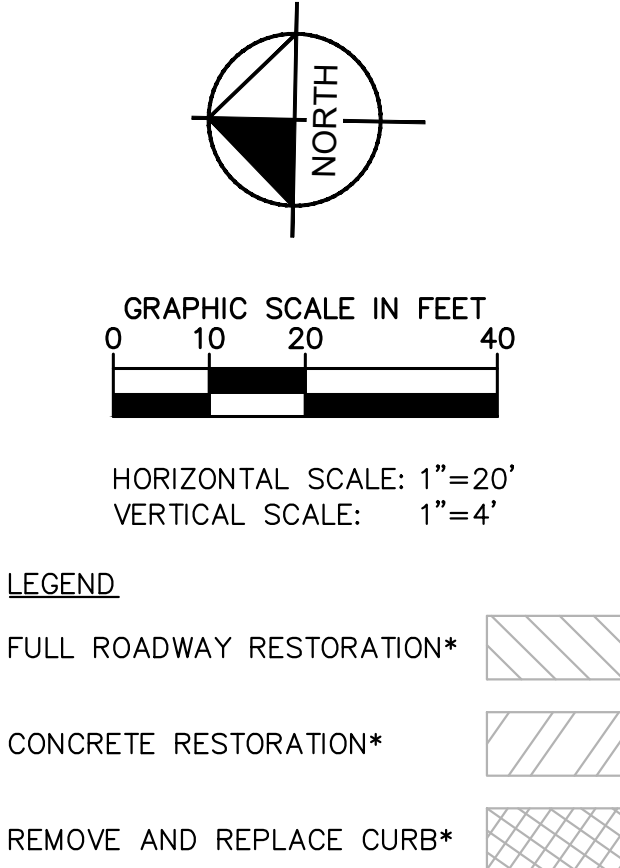
MICHAEL ANTHONY  
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FL LICENSE NUMBER  
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## PLAN AND PROFILE







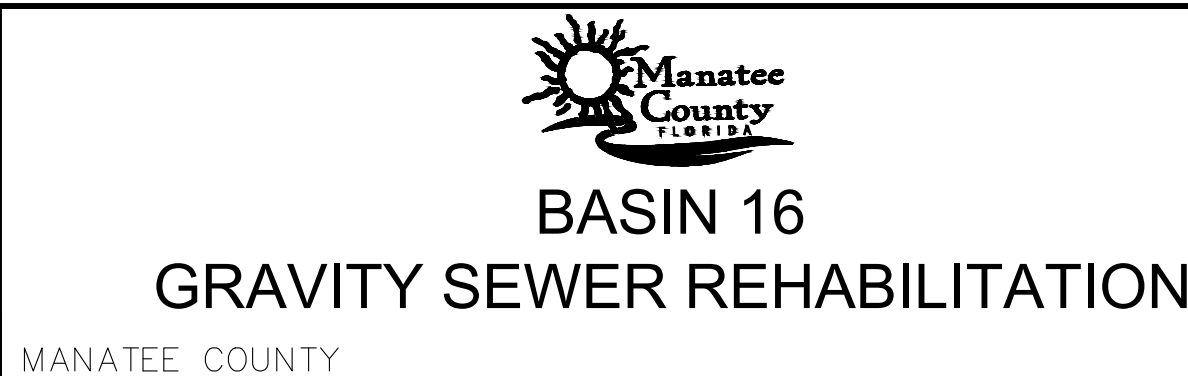


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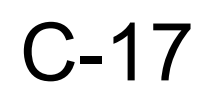
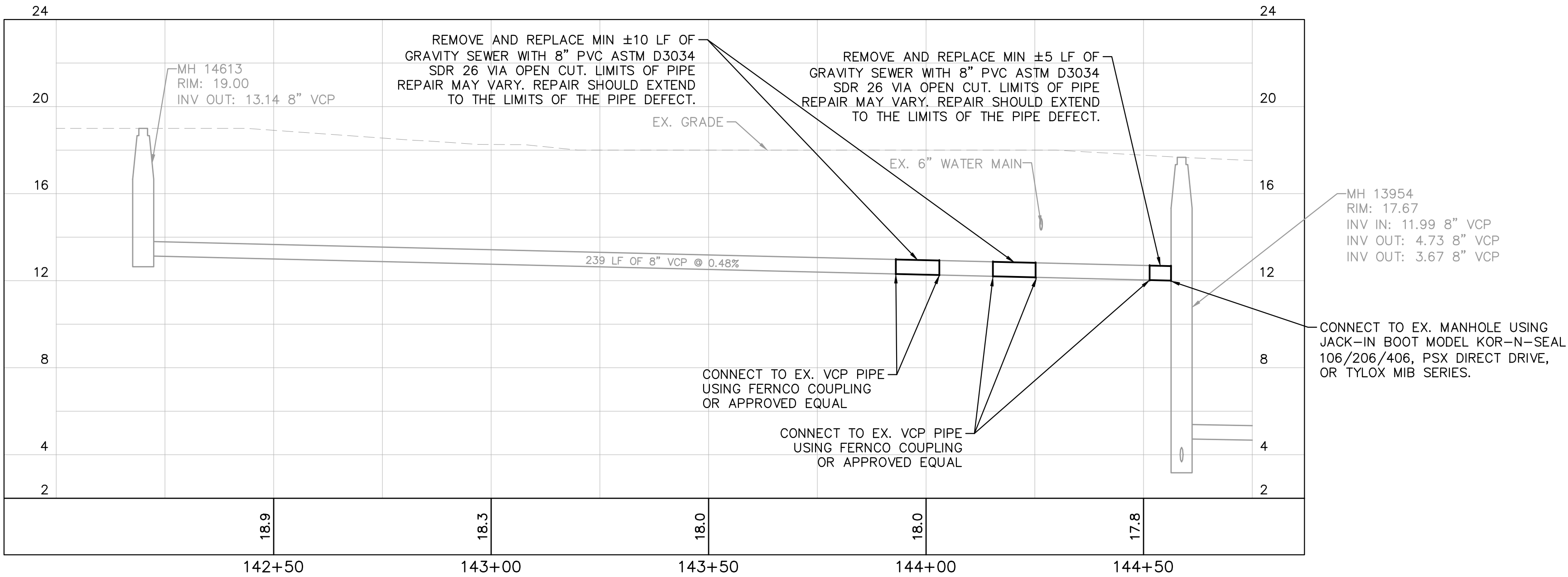
## PLAN AND PROFILE

SHEET NUMBER

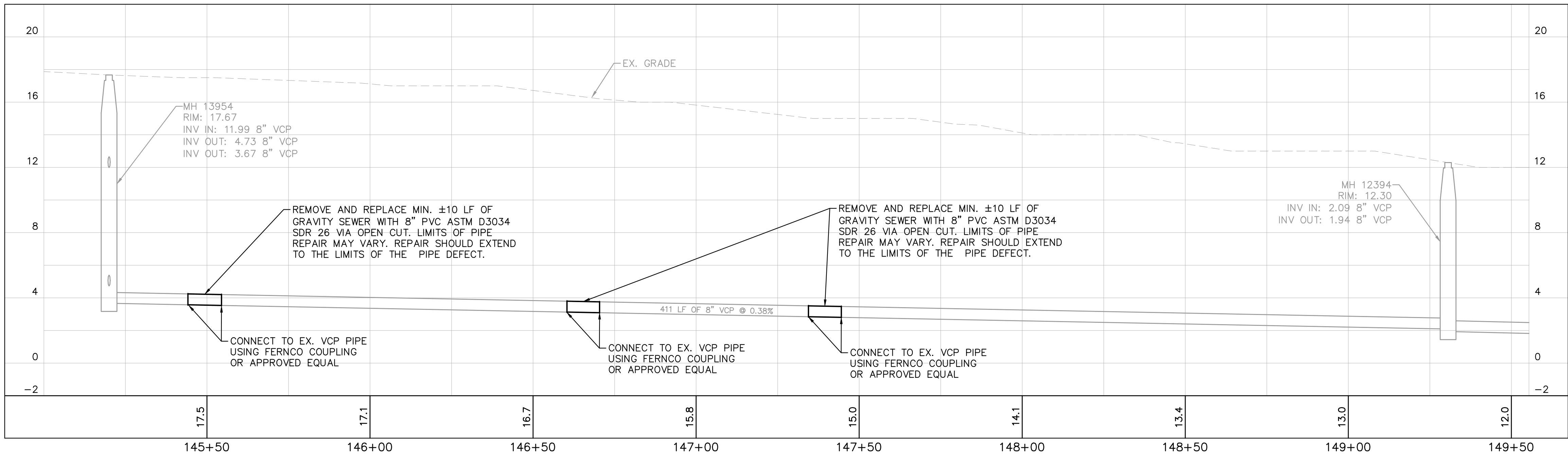
C-16



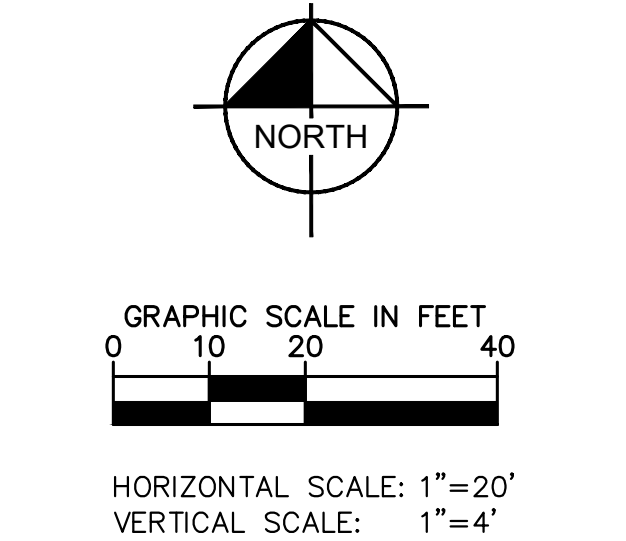
	ADDENDUM #1	02/02/21	MAS
No.	REVISIONS	DATE	BY














FULL ROADWAY RESTORATION*	
CONCRETE RESTORATION*	
REMOVE AND REPLACE CURB*	

**NOTES:**

1. CCTV POST CONSTRUCTION INSPECTION REQUIRED ON ALL GRAVITY SEWER IMPROVEMENTS INCLUDING NEW LATERALS AND LATERAL RECONNECTIONS. THE NEW LATERALS AND LATERAL RECONNECTIONS WILL REQUIRE VIDEO INSPECTION OF THE CONNECTION TO THE GRAVITY MAIN.

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Manatee  
County  
FLORIDA

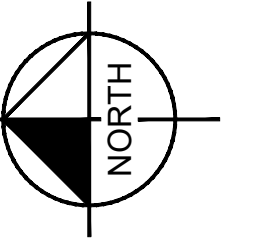
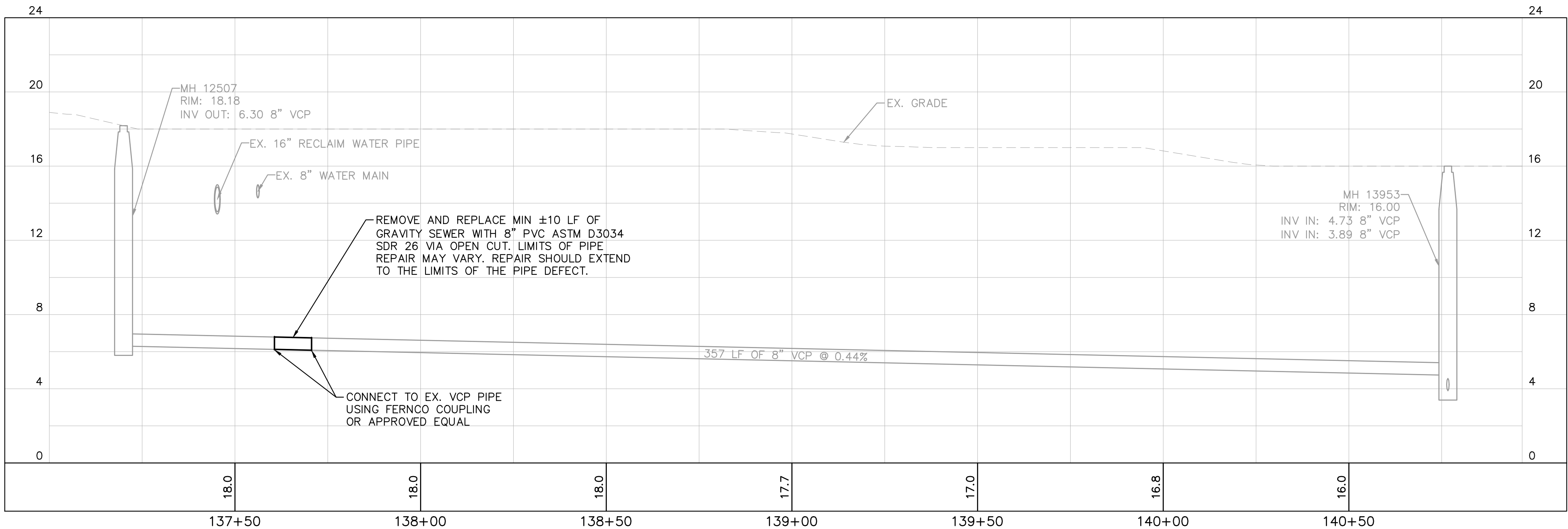
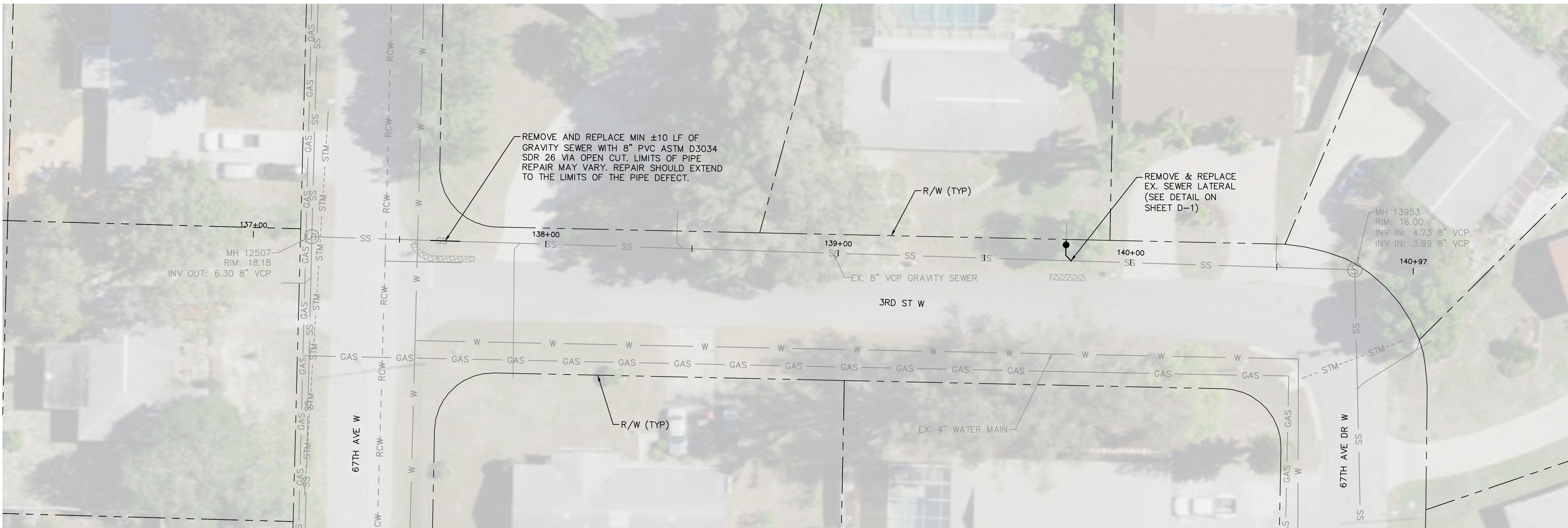
MICHAEL ANTHONY  
SEMAGO, P.E.  
FL LICENSE NUMBER  
87501

SHEET NUMBER


C-19



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GRAPHIC SCALE IN FEET



HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=4'

LEGEND

FULL ROADWAY RESTORATION\*

CONCRETE RESTORATION\*

REMOVE AND REPLACE CURB\*

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GROUNDWATER /  
DEWATERING NOTE:

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	ADDENDUM #1	02/02/21	MAS
No.	REVISIONS	DATE	BY

**Kimley»»Horn**

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100 2ND AVENUE SOUTH, SUITE 105N, ST. PETERSBURG, FL 33701  
PHONE: 727-547-3999  
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400038	
DATE 10/14/2020	
SCALE AS SHOWN	
DESIGNED BY	MAS
DRAWN BY	ATH
CHECKED BY	SNR



## BASIN 16

### GRAVITY SEWER REHABILITATION

MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL ANTHONY  
SEMAGO, P.E  
FL LICENSE NUMBER  
87501

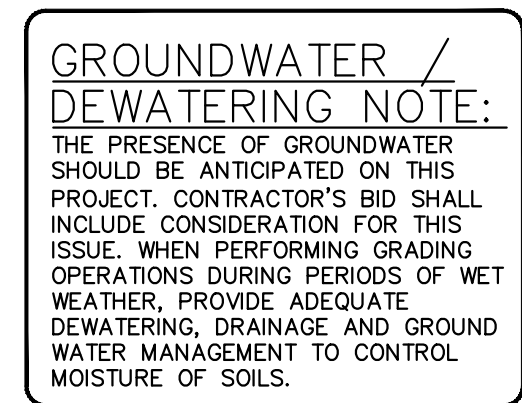
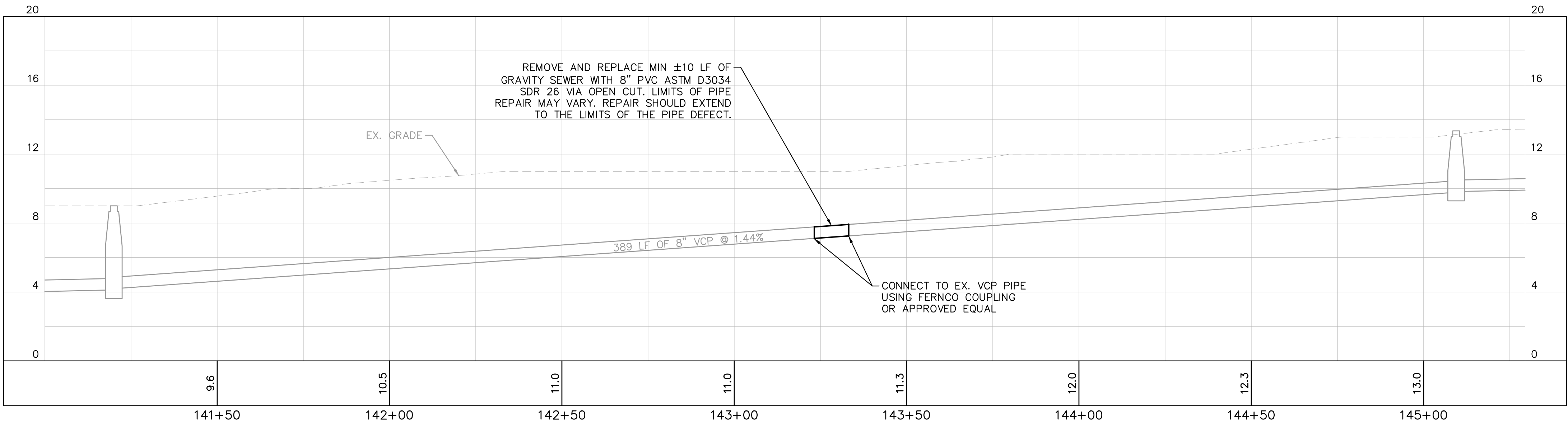
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## PLAN AND PROFILE

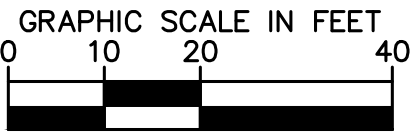
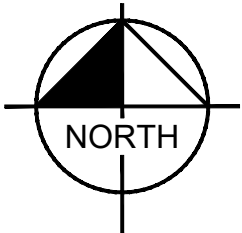
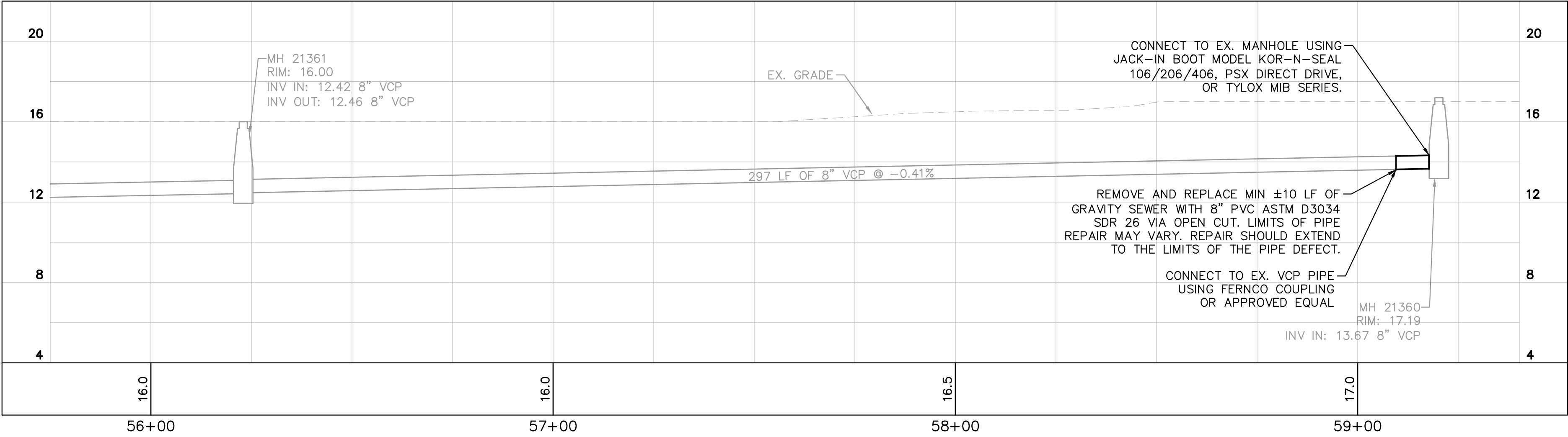
SHEET NUMBER

C-20












HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=4'

### LEGEND

- |                           |   |
|---------------------------|---|
| FULL ROADWAY RESTORATION* |  |
| CONCRETE RESTORATION*     |  |
| REMOVE AND REPLACE CURB*  |  |

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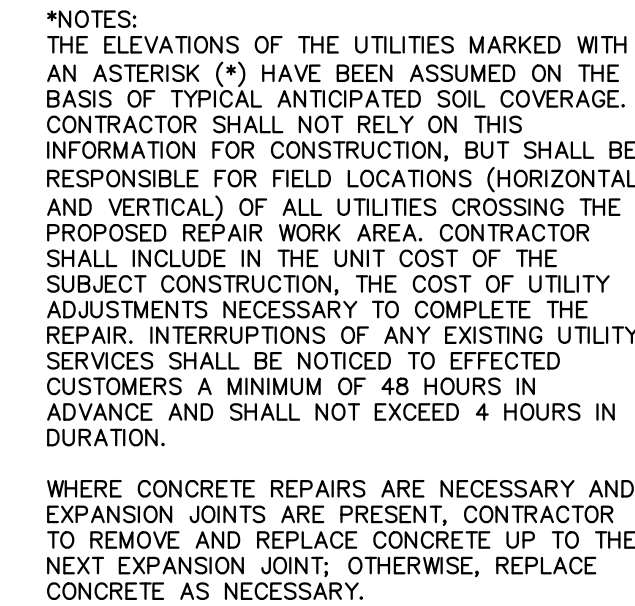
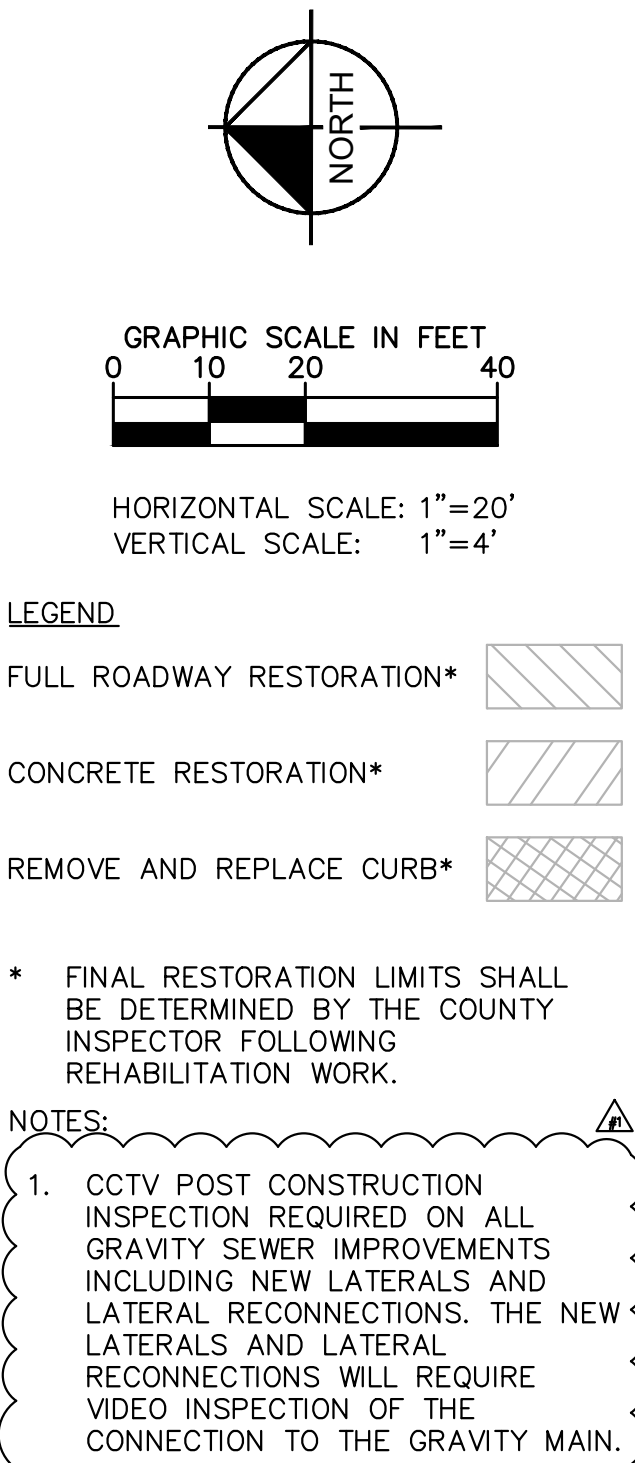
GROUNDWATER /  
DEWATERING NOTE:

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[illegible]





	ADDENDUM #1	02/02/21	MAS
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	DATE 10/14/2020				
	SCALE AS SHOWN				
	DESIGNED BY MAS				
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CHECKED BY SNR	FL DATE:				



	ADDENDUM #1	02/02/21	MAS
No.	REVISIONS	DATE	BY



PLAN AND PROFILE
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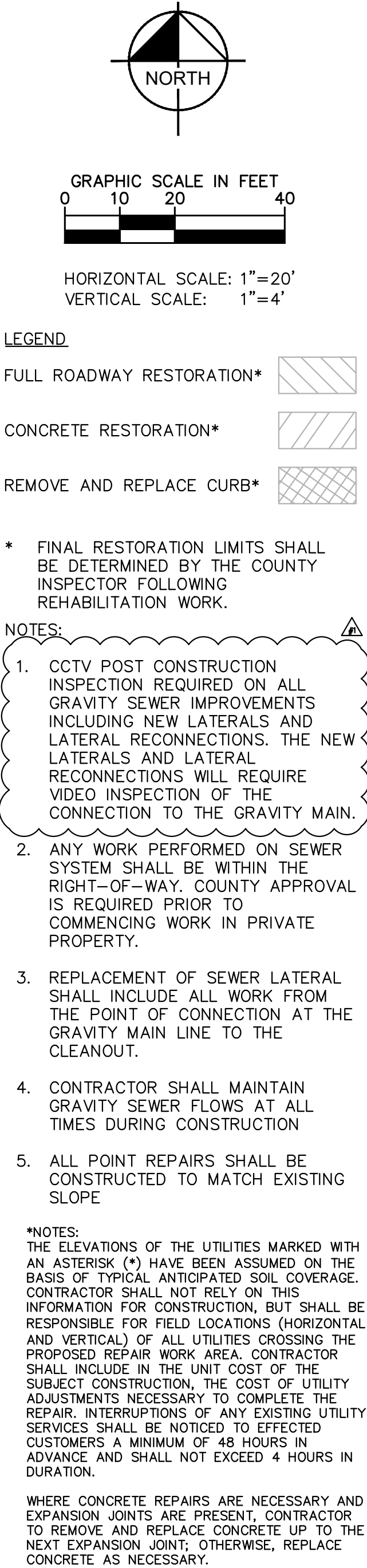
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C-24

SHEET NUMBER

C-24

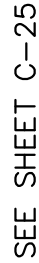




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[illegible]





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KHA PROJECT  
148400038

DATE \_\_\_\_\_

10/14/2020

SCALE AS SHOWN

DESIGNED BY MA

DESIGNED BY: (M)

DRAWN BY A

CHECKED BY SM



## MANATEE COUNTY

LICENSED PROFESSIONAL

MICHAEL ANTHONY

SEMAGO P.F.

FL LICENSE NUMBER

87501

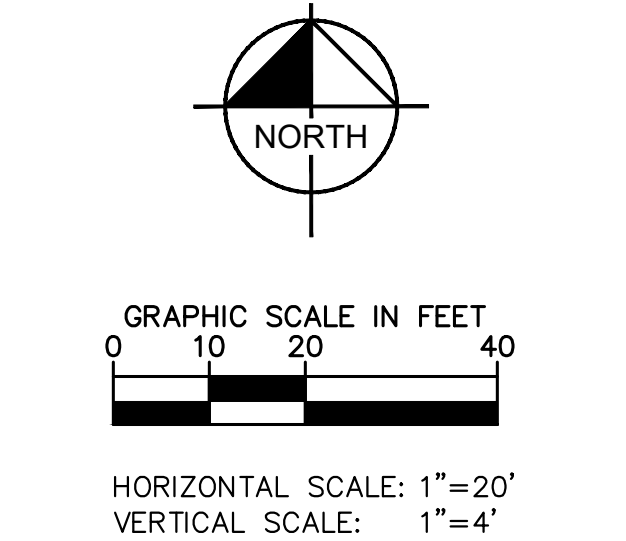
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## SHEET NUMBER

C-26



	ADDENDUM #1	02/02/21	MAS
No.	REVISIONS	DATE	BY



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3. REPLACEMENT OF SEWER LATERAL SHALL INCLUDE ALL WORK FROM THE POINT OF CONNECTION AT THE GRAVITY MAIN LINE TO THE CLEANOUT.
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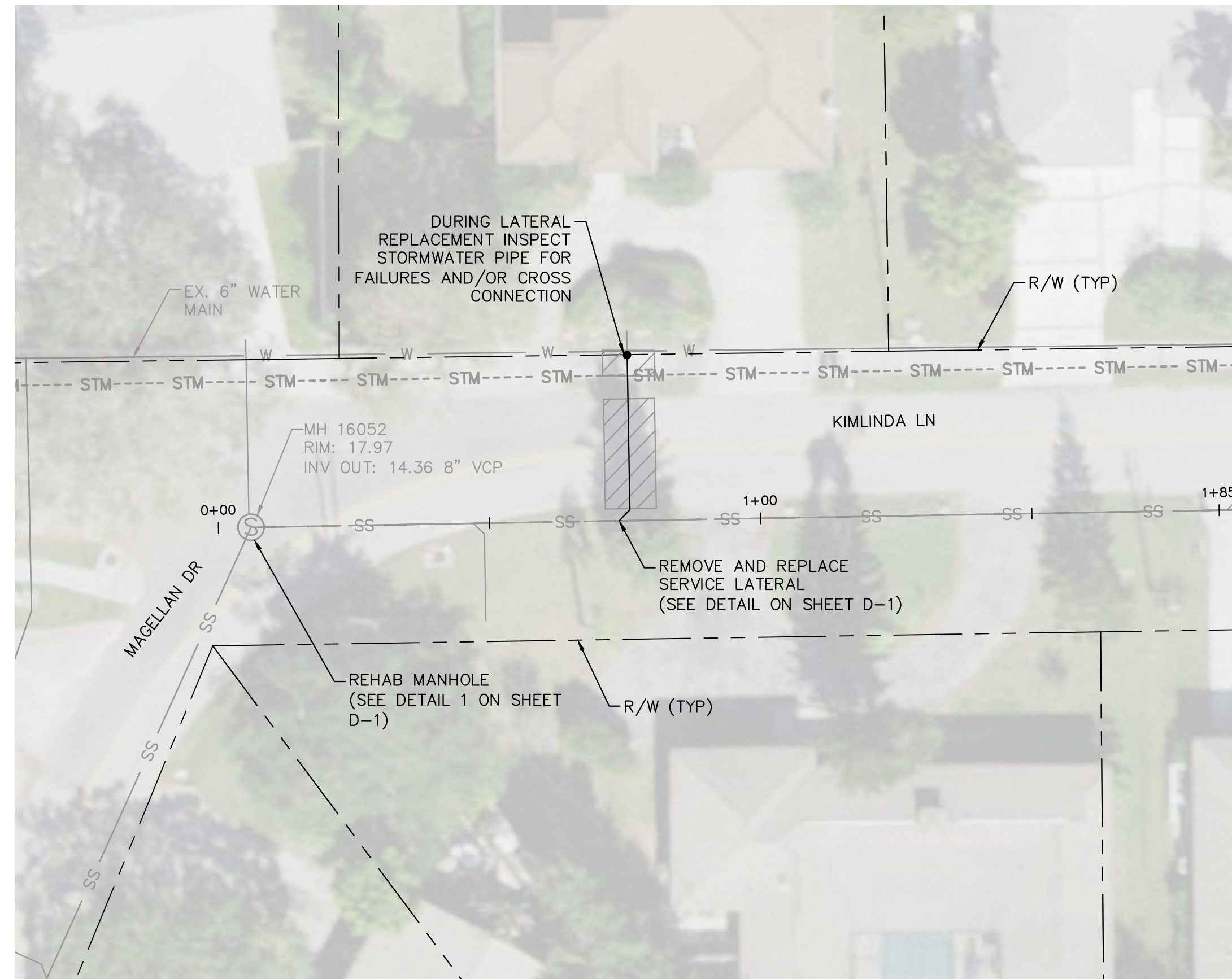
MICHAEL ANTHONY  
SEMAGO, P.E.  
FL LICENSE NUMBER  
87501

## PLAN AND PROFILE

C-27



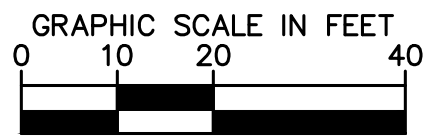
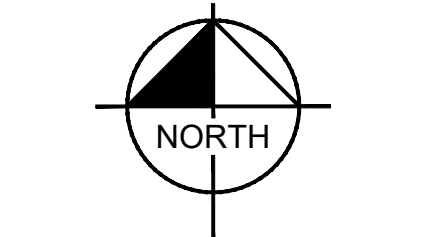
EX. STORM INLET  
 MH 13726  
 RIM: 18.46  
 INV OUT: 11.15 8" PVC  
 EX. GRADE  
 REHAB MANHOLE (SEE  
 DETAIL 1 ON SHEET  
 D-1)  
 276 LF OF 8" PVC @ 0.20%



Profile view of a sewer line. The vertical axis shows elevation in feet, ranging from 6 to 24. The horizontal axis shows stationing, with a specific point marked at 1+00.18.0.




Key features and labels:

- MH 16052**: Manhole structure shown on the left.
- RIM: 17.97**: Elevation of the manhole rim.
- INV OUT: 14.36 8" VCP**: Invert elevation and pipe type at the manhole outlet.
- EX. GRADE**: Existing ground line indicated by a dashed line.
- 299 LF OF 8" VCP @ -0.29%**: Length and slope of the proposed pipe section.
- REMOVE AND REPLACE SERVICE LATERAL**: Note indicating the location of a service lateral to be replaced.
- REHAB MANHOLE (SEE DETAIL 1 ON SHEET D-1)**: Note indicating the manhole to be rehabilitated.



HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=4'

LEGEND

- |                           |   |
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