

# MASTER PLAN STUDY FOR COLONY COVE SANITARY SEWER SYSTEM IMPROVEMENTS

MANATEE COUNTY, FLORIDA

MARCH 2021

MANATEE COUNTY WORK ASSIGNMENT #25



PROJECT TEAM:

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FAX: 941-723-4444  
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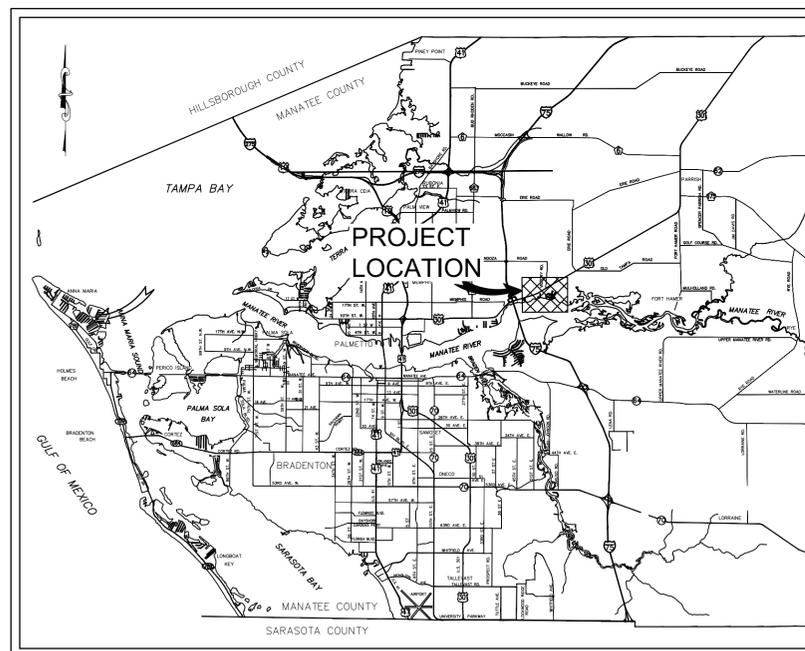
SOUTHWEST FLORIDA WATER  
MANAGEMENT DISTRICT SARASOTA  
SERVICE OFFICE  
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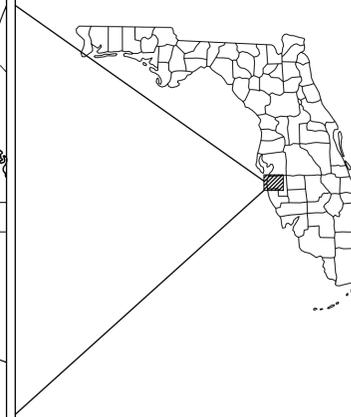
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8261 VICO COURT  
SARASOTA, FL 34240  
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FAX: 941-750-9364

SUNSHINE STATE ONE CALL OF  
FLORIDA  
1-800-432-4770



PROJECT VICINITY MAP  
N.T.S.



**NOT FOR CONSTRUCTION**

No.	REVISIONS	DATE	BY

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

DATE March 21
SHEET NUMBER G-1

**ABBREVIATIONS**

RJ - RESTRAINED JOINT	BT - BURIED TELEPHONE
R/W - RIGHT-OF-WAY	SS - SANITARY SEWER
PVC - POLYVINYL CHLORIDE	FM - FORCE MAIN
ST - STORM DRAIN	WM - WATER MAIN
EX - EXISTING	RW - RECLAIM WATER MAIN

**LEGEND**

PROPOSED GRAVITY SEWER MAIN INSTALLED VIA OPEN CUT  


PROPOSED WATER SERVICE  


PROPOSED FORCEMAIN  


EX. WATERMAIN  


EX. FORCEMAIN  


PROPOSED MANHOLE  


EXISTING MANHOLE  


**DESIGN NOTES:**

1. ALL GRAVITY SEWER SHALL BE SDR 26.
2. LOCATE ALL EXISTING SEWER LATERALS AND CONNECT TO THE NEW SEWER MAINS.
3. EXISTING WATER MAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP, AND MANATEE COUNTY STANDARDS.
4. AFTER FINAL ACCEPTANCE OF THE PROPOSED GRAVITY SEWER, THE EXISTING GRAVITY SEWERS SHALL BE GROUT FILLED. EXISTING MANHOLES ARE TO BE DEMOLISHED 3.0 FT BELOW GRADE AND FILLED WITH SELECT MATERIAL.

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C-23	SOUTHEASTERN SEWERSHED STA 11+38 TO STA 277+68
C-24	SOUTHEASTERN SEWERSHED STA 277+68 TO STA 270+68
C-25	SOUTHEASTERN SEWERSHED STA 270+68 TO STA 263+70
C-26	SOUTHEASTERN SEWERSHED STA 263+70 TO STA 21+20
C-27	SOUTHEASTERN SEWERSHED STA 180+75 TO STA 194+54
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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY



**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**

MANATEE COUNTY FL

LEGEND & SHEET INDEX

SHEET NUMBER  
**G-2**



No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

GRAVITY SEWER KEYSHEET

SHEET NUMBER  
**G-3**



No.	REVISIONS	DATE	BY

MASTER PLAN STUDY



COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS

MANATEE COUNTY

FL

FORCE MAIN KEYSHEET

SHEET NUMBER

G-4

# UTILITY CONFLICT TABLE PER SEWERSHED

WESTERN SEWERSHED									
STA	OFF		UTILITY	GRAVITY ELEVATION	STA	OFF		UTILITY	GRAVITY ELEVATION
4+17	0		WM	MH-W05	301+33	4.44	LT	WM	1.984
5+45	3	LT	WM	1.084	304+07	4.12	LT	WM	0.821
12+24	0.6	RT	WM	-2.939	304+90	0.46	LT	WM	MH-W30
12+44	4	RT	WM	-3.027	305+62	2.12	RT	WM	MH-W29
14+28	3.95	RT	WM	-7.030	309+29	6.71	LT	WM	-1.908
14+61	1.65	RT	WM	-7.101	602+09	3	LT	WM	-4.590
18+45	13.6	RT	WM	-9.037	602+48	12.57	RT	WM	-5.879
25+41	1	LT	WM	-2.408	603+86	2.36	LT	WM	-4.975
59+21	6.7	LT	WM	-3.395	503+85	0.41	RT	WM	-2.529
58+64	4.1	RT	WM	-4.898	504+22	2.79	LT	WM	-2.685
57+18	3.53	LT	WM	2.416	555+92	3.27	RT	WM	-4.608
54+54	6.62	LT	WM	MH-W56	605+65	0.76	RT	WM	-4.323
151+77	3.3	RT	WM	1.076	606+03	2.33	RT	WM	-1.518
153+46	5.34	LT	WM	MH-W79	607+73	11.6	RT	WM	MH-50
353+17	2.68	LT	WM	-2.593	60+76	0.6	RT	WM	MH-59
354+39	3.73	RT	WM	-3.232	250+18	2.73	RT	WM	-1.558
314+66	5.26	LT	WM	-4.497	156+46	1.5	LT	WM	-0.878
451+59	6.33	LT	WM	-5.177	156+57	0.21	RT	WM	-0.836
301+21	-4.6	LT	WM	MH-W32	64+70	1.85	LT	WM	MH-W60

SOUTHEASTERN SEWERSHED									
STA	OFF		UTILITY	GRAVITY ELEVATION	STA	OFF		UTILITY	GRAVITY ELEVATION
302+56	4.6	LT	WM	MH-SE09	200+19	3.28	RT	WM	-2.246
5+72	3.32	RT	WM	-2.669	260+58	3.89	RT	WM	-2.366
8+52	6.36	RT	WM	-3.941	260+49	3.64	LT	WM	-0.568
315+16	1.11	LT	WM	-3.550	194+51	3.47	RT	WM	-0.528
324+21	6.01	RT	WM	-1.618	169+08	3.68	LT	WM	2.038
322+63	3.52	LT	WM	-1.990	167+16	7.3	LT	WM	1.225
11+83	6.42	RT	WM	-5.537	155+36	4.61	RT	WM	0.746
12+99	12.86	RT	WM	-6.187	145+22	5.86	RT	WM	1.842
14+10	5.64	RT	WM	-6.868	135+07	2.9	RT	WM	1.763
15+10	4.55	LT	WM	-4.586	130+15	2.96	LT	WM	4.520
209+04	1.74	RT	WM	MH-SE47	124+93	4.1	RT	WM	3.521
208+22	3.12	RT	WM	MH-SE48	118+61	2.81	RT	WM	2.625
270+90	2.06	LT	WM	-0.364	183+64	1.81	RT	WM	MH-SE93
269+31	0		WM	-0.091				WM	
266+62	2.76	LT	WM	1.257				WM	
267+16	3.01	LT	WM	1.030				WM	
265+75	5.55	LT	WM	1.718				WM	
264+34	5.74	LT	WM	2.305				WM	
214+66	8.76	RT	WM	-2.945				WM	

NORTHEASTERN SEWERSHED				
STA	OFF		UTILITY	GRAVITY ELEVATION
1+56	21.19	RT	WM	12.262
4+69	0.57	LT	WM	9.429
5+62	7.37	RT	WM	8.262
150+21	4.36	LT	WM	8.905
152+67	2.88	RT	WM	MH-NE22
61+27	1.76	RT	WM	6.166
303+32	5.56	RT	WM	7.839
11+46	2.98	LT	WM	6.714
11+87	14.38	RT	WM	6.429
14+02	3.14	RT	WM	3.400
15+92	1	RT	WM	3.538
307+73	1	LT	WM	6.237
252+87	2.16	LT	WM	MH-NE39
308+95	7.32	LT	WM	-0.010
105+63	4.98	LT	WM	MH-NE9
301+48	7.24	RT	WM	9.801
183+58	4.36	RT	WM	8.454
193+67	4.85	RT	WM	5.674
180+33	6.34	RT	WM	MH-NE49
309+33	5.01	LT	WM	-0.242
309+53	5.01	LT	WM	-0.326
162+59	5.7	LT	WM	10.875

# Aerial Topographic Survey with Rectified Orthoimagery for Colony Cove Pipeline Replacement and Phase 1 Replacements Manatee County, Florida



### Legend of Symbols & Abbreviations

- PSM Professional Surveyor and Mapper
- Id. Identification
- LB Licensed Business
- MHP Mobile Home Park
- ☐ Mailbox
- ⊗ Sign
- ⊙ Light Pole
- ⊠ Grate Inlet
- ⊞ Catch Basin
- ⊙ Unknown Manhole
- Round Post
- Approximate Project Outline
- Edge of Road
- Edge of Water
- Concrete/Sidewalks
- Driveways
- Parking
- Contours
- Trench Drain
- 13 Contour Elevation
- ⊕ Spot Elevation

### Surveyor's Notes

- 1.) Paper copies of this survey are not valid without the original signature and raised seal of a Florida Licensed Surveyor and Mapper. Digital copies are not valid without the digital signature of a Florida Licensed Surveyor and Mapper.
- 2.) The horizontal datum utilized for this project is NAD 1983 Florida West Zone, 2011 Adjustment, U.S. Survey Feet. The control utilized to establish said datum was "AG8500, AG8502, AG8505" being NGS (National Geodetic Survey) Horizontal Control Station.
- 3.) The vertical datum utilized for this project is NAVD 1988, U.S. Survey Feet. The benchmark utilized was NGS (National Geodetic Survey) Control Station "AG8500, AG8502, AG8505" with an elevation of 32.53, 24.10, 58.67 feet.
- 4.) Planimetric mapping of visible features within 10 feet of the road edges was accomplished through stereo compilation methods from aerial photography flown on August 18, 2020.
- 5.) Topographic data was derived from airborne LIDAR data flown on August 18, 2020.
- 6.) Contour interval depicted hereon is 1 foot.
- 7.) THIS IS NOT A BOUNDARY SURVEY.

**Certifications:**  
Manatee County Public Works

Stacy L. Brown PSM No. 6516  
SurvTech Solutions, Inc. LB No. 7340

Project Name: Colony Cove South MHP	Project No.: 20200215
Address: 101 Amsterdam Avenue	City: Ellenton State: Florida

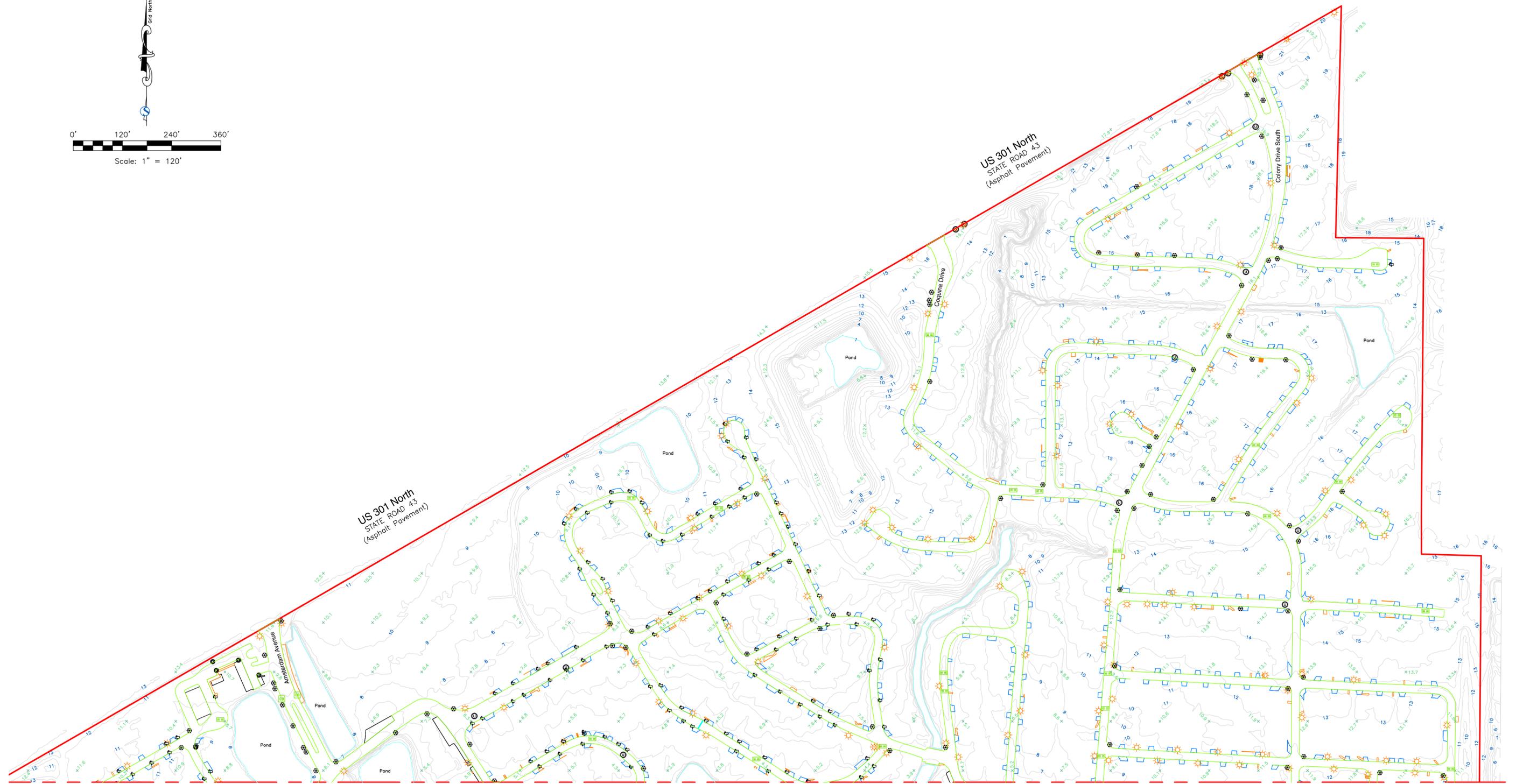
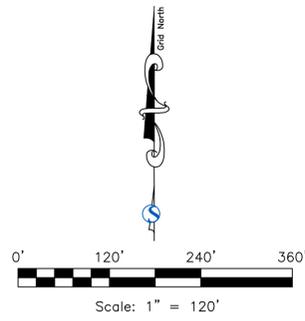
REVISION	DATE	INITIALS

SURVEYING. TODAY WITH TOMORROW'S TECHNOLOGY

Drafted By: P.Hernandez	Drawing Name: 20200215_IPS
Date Drafted: 09/29/20	Phase: 1
Approved By: S. Brown	Last Field Date: 08/18/20
Date Approved: 10/01/20	Field Book/Page: N/A

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fax: (813)-621-7194  
Licensed Business #7340  
email: sbrown@survtechsolutions.com  
http://www.survtechsolutions.com

# Aerial Topographic Survey



See Sheet 3

Aerial Topographic Survey with Rectified Orthoimagery  
Colony Cove Pipeline Replacement and Phase 1 Replacements

**SURVTECH SOLUTIONS, INC.**  
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http://www.survtechsolutions.com

Drawing Name: 20200215\_1PS

SHEET: 2 OF 3

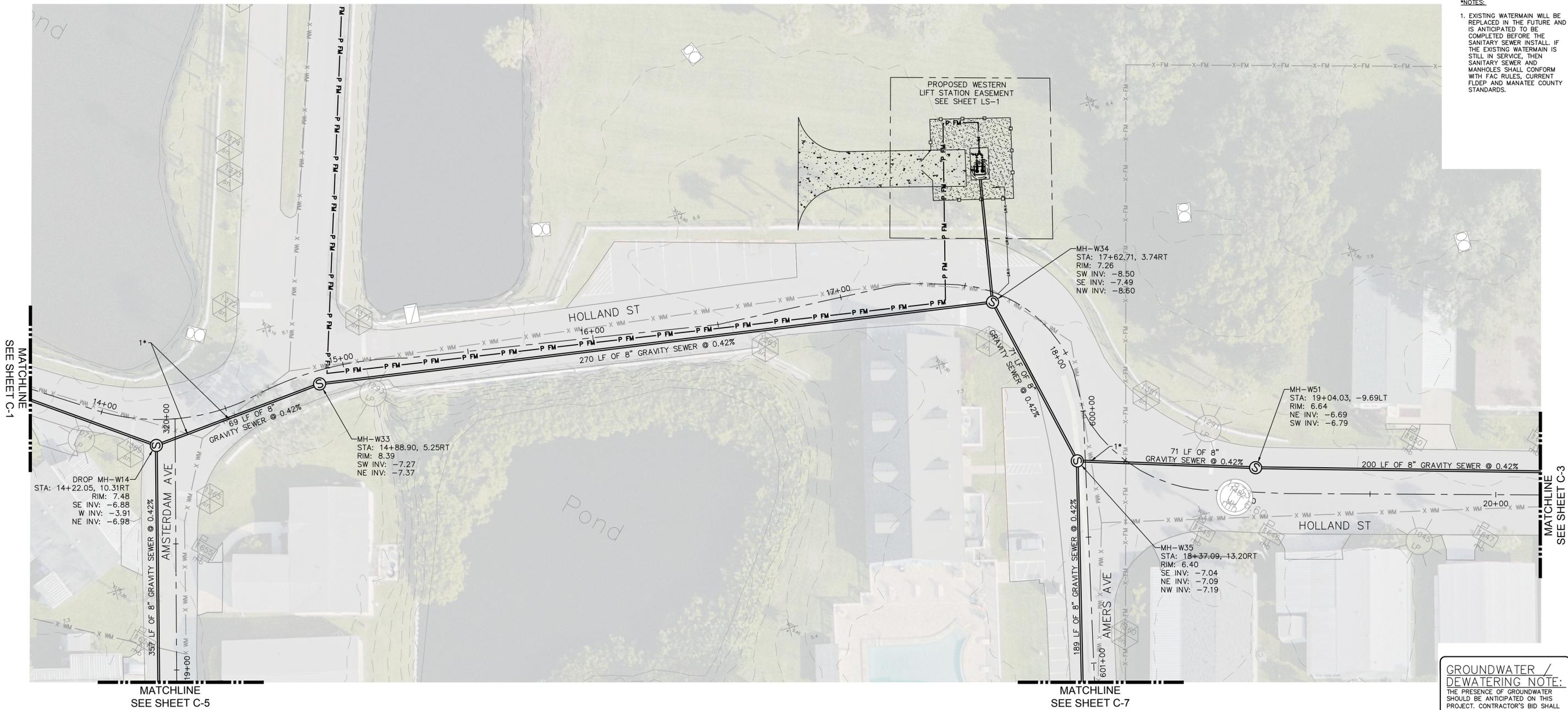






**NOTES:**

1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.



**GROUNDWATER / DEWATERING NOTE:**

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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



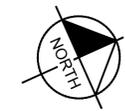
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

WESTERN SEWERSHED  
 STA 13+70 TO STA 20+15

SHEET NUMBER  
C-2



**\*NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-2

MATCHLINE  
SEE SHEET C-4

MATCHLINE  
SEE SHEET C-4

**GROUNDWATER / DEWATERING NOTE:**  
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MATCHLINE  
SEE SHEET C-9

MATCHLINE  
SEE SHEET C-9

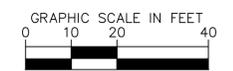
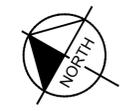
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**WESTERN SEWERSHED  
STA 20+15 TO STA 25+78**

SHEET NUMBER  
**C-3**



**NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-1

MATCHLINE  
SEE SHEET C-9

MATCHLINE  
SEE SHEET C-3

MATCHLINE  
SEE SHEET C-3

**GROUNDWATER / DEWATERING NOTE:**

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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

WESTERN SEWERSHED  
 STA 25+78 TO STA 153+75

SHEET NUMBER  
C-4

MATCHLINE SEE SHEET C-2



1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.

MATCHLINE SEE SHEET C-6

MATCHLINE SEE SHEET C-6



**GROUNDWATER / DEWATERING NOTE:**

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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

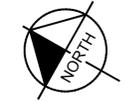
MANATEE COUNTY  
COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS  
FL

WESTERN SEWERSHED  
STA 319+05 TO STA 311+40

SHEET NUMBER  
C-5

MATCHLINE SEE SHEET C-5

MATCHLINE SEE SHEET C-5



**\*NOTES:**

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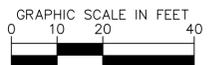
MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**WESTERN SEWERSHED  
STA 311+41 TO STA 300+26**

SHEET NUMBER  
**C-6**

MATCHLINE  
SEE SHEET C-2



**NOTES:**

1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-8

MATCHLINE  
SEE SHEET C-8

**GROUNDWATER / DEWATERING NOTE:**  
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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

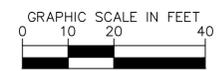
  
**Manatee County**  
 FLORIDA  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

**WESTERN SEWERSHED**  
 STA 601+07 TO STA 604+47

SHEET NUMBER  
**C-7**

MATCHLINE  
SEE SHEET C-7

MATCHLINE  
SEE SHEET C-7



**NOTES:**  
1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.



EXISTING LS 517 TO BE DEMOILSHED AFTER WESTERN LIFT STATION IS APPROVED

10' STUB-OUT AND CAP

**GROUNDWATER / DEWATERING NOTE:**  
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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



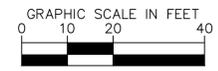
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

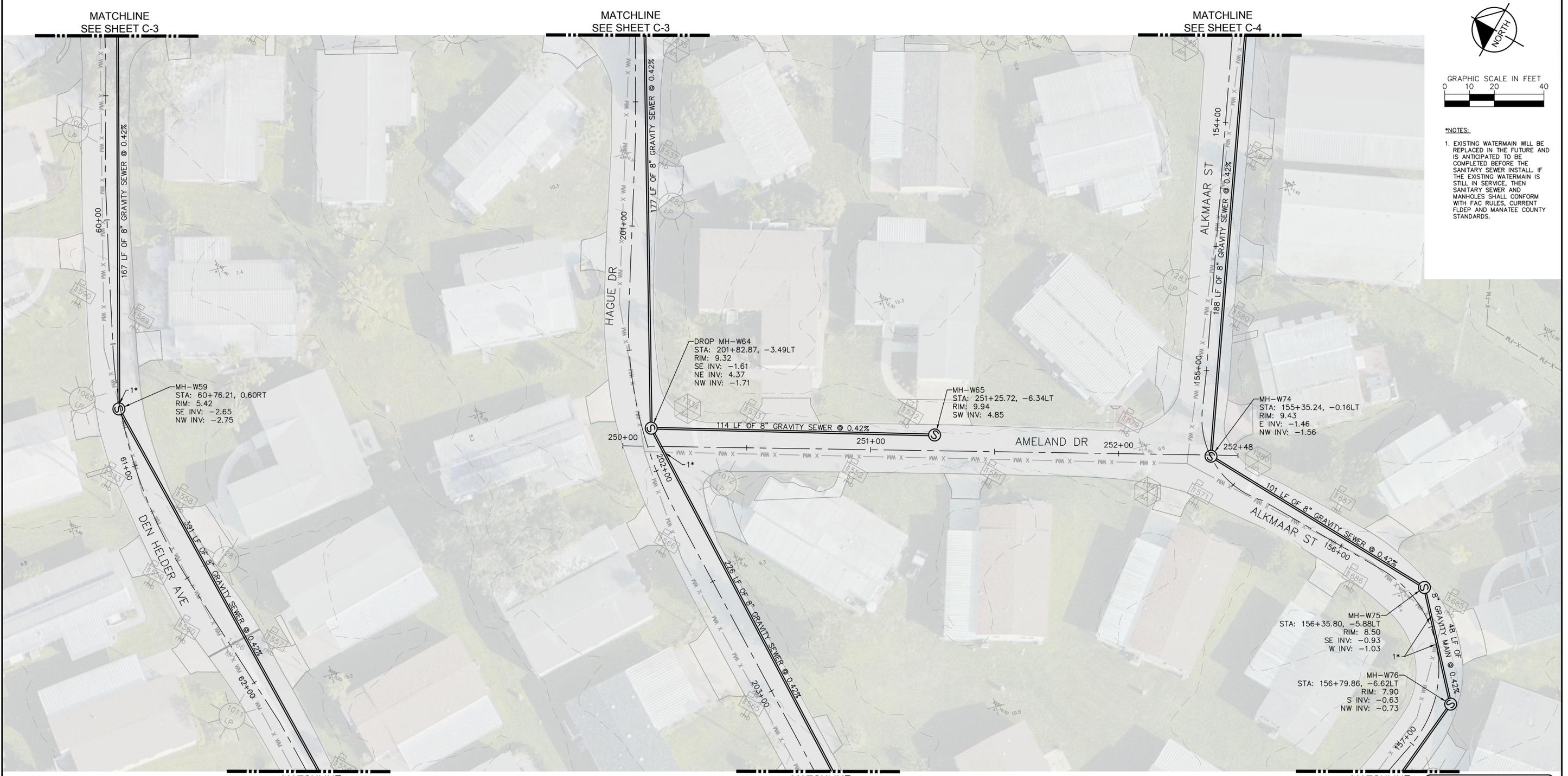
WESTERN SEWERSHED  
STA 604+47 TO STA 655+50

SHEET NUMBER  
C-8



**NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING SEWER WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-3

MATCHLINE  
SEE SHEET C-3

MATCHLINE  
SEE SHEET C-4

MATCHLINE  
SEE SHEET C-10

MATCHLINE  
SEE SHEET C-10

MATCHLINE  
SEE SHEET C-10

**GROUNDWATER / DEWATERING NOTE:**  
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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



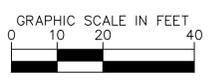
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

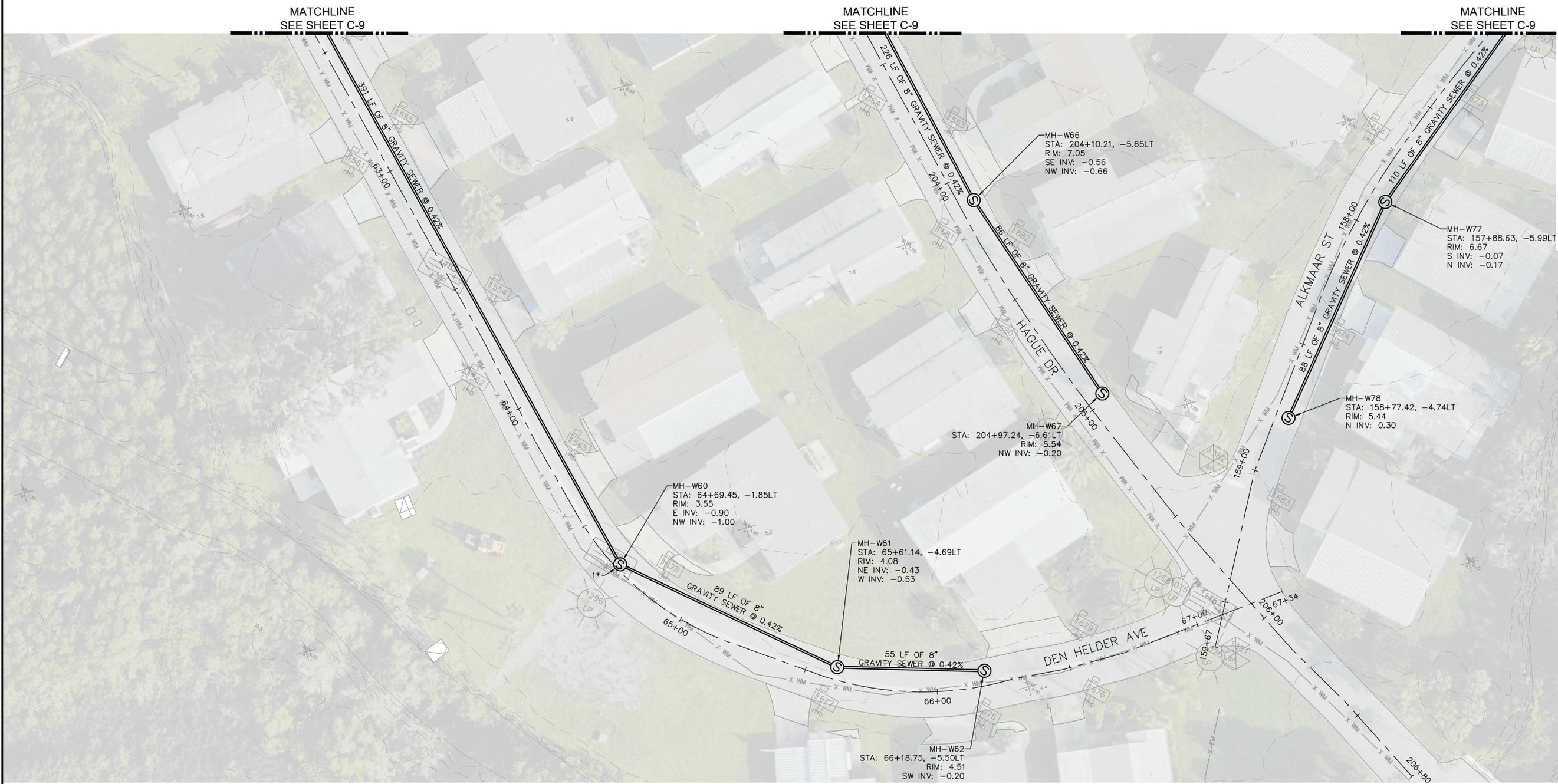
WESTERN SEWERSHED  
STA 59+25 TO STA 62+40

SHEET NUMBER  
C-9



**NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.



**GROUNDWATER / DEWATERING NOTE:**

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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**WESTERN SEWERSHED**  
 STA 62+40 TO 206+80

SHEET NUMBER  
**C-10**



- \*NOTES:**
- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



**GROUNDWATER / DEWATERING NOTE:**  
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No.	REVISIONS	DATE	BY

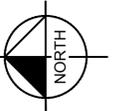
MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**NORTHEASTERN SEWERSHED**  
 STA 00+15 TO STA 06+10

SHEET NUMBER  
**C-11**





- NOTES:**
- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



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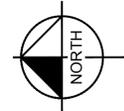
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

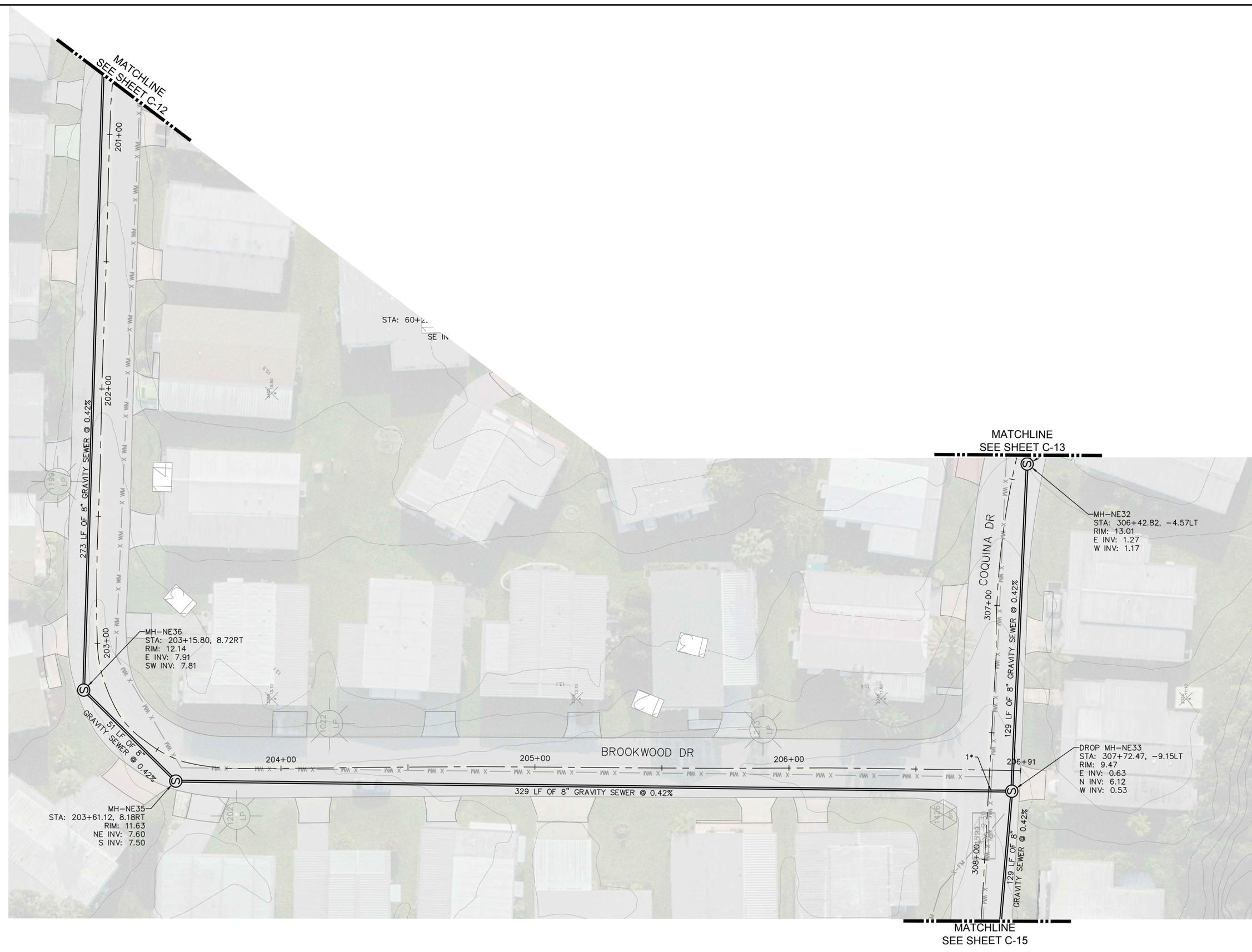
  
**COLONY COVE SANITARY SEWER SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**NORTHEASTERN SEWERSHED**  
 STA 11+35 TO STA 306+41

SHEET NUMBER  
**C-13**



**\*NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



**GROUNDWATER / DEWATERING NOTE:**  
 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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

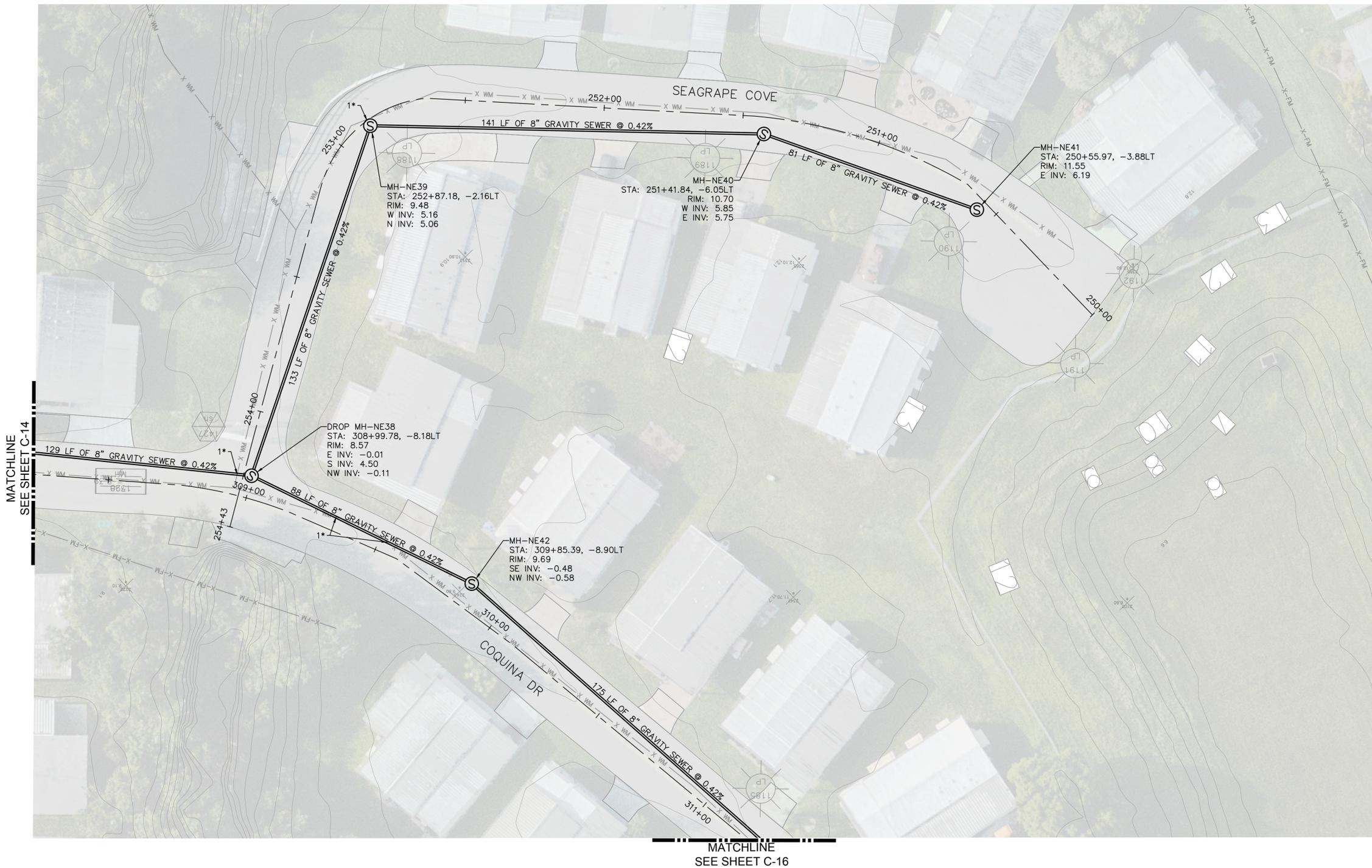
**NORTHEASTERN SEWERSHED**  
 STA 306+41 TO STA 308+22

SHEET NUMBER  
**C-14**



**\*NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



**GROUNDWATER / DEWATERING NOTE:**  
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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

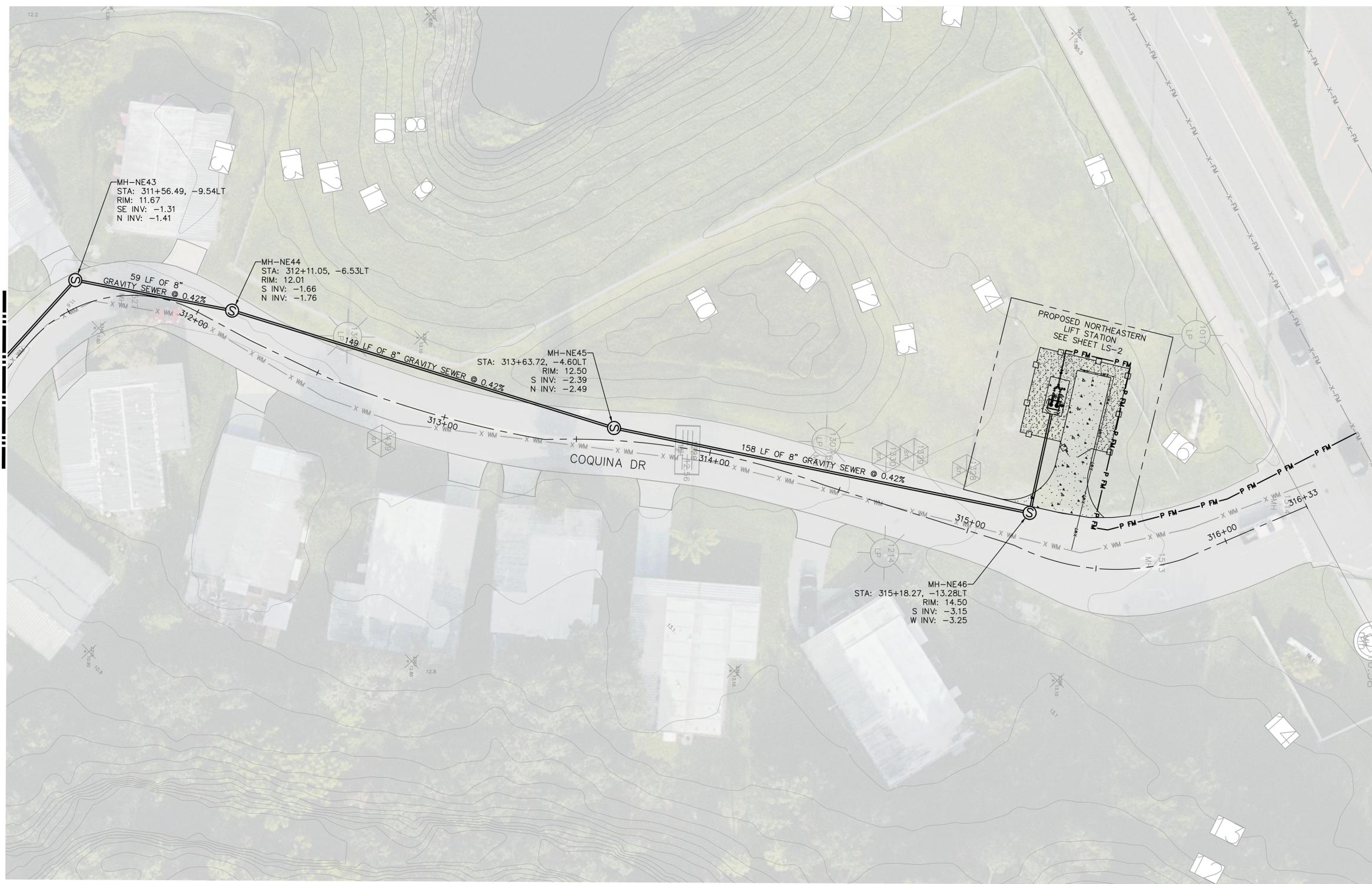
  
**COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**NORTHEASTERN SEWERSHED**  
 STA 308+22 TO STA 311+20

SHEET NUMBER  
**C-15**



**\*NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-15

**GROUNDWATER / DEWATERING NOTE:**  
 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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

**MASTER PLAN STUDY**



**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**

MANATEE COUNTY FL

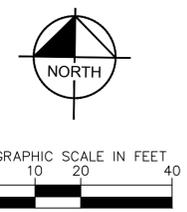
**NORTHEASTERN SEWERSHED  
STA 311+20 TO STA 316+33**

SHEET NUMBER  
**C-16**



MATCHLINE  
SEE SHEET C-11

MATCHLINE  
SEE SHEET C-11



**NOTES:**  
1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.

**GROUNDWATER / DEWATERING NOTE:**  
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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**NORTHEASTERN SEWERSHED**  
 STA 100+75 TO STA 109+45

SHEET NUMBER  
**C-17**



**\*NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**NORTHEASTERN SEWERSHED**  
 STA 300+78 TO STA 303+00

SHEET NUMBER  
**C-18**



- \*NOTES:**
- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

NORTHEASTERN SEWERSHED  
 STA 185+05 TO STA 180+00

SHEET NUMBER  
C-19



**\*NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-21

**GROUNDWATER / DEWATERING NOTE:**  
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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



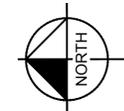
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 00+00 TO STA 05+80

SHEET NUMBER  
**C-20**



**\*NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-20

MATCHLINE  
SEE SHEET C-23

MATCHLINE SEE SHEET C-22

**GROUNDWATER / DEWATERING NOTE:**  
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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

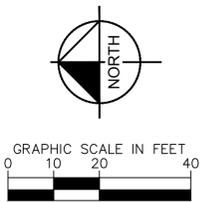
  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 05+80 TO STA 11+38

SHEET NUMBER  
**C-21**

MATCHLINE  
SEE SHEET C-23

MATCHLINE  
SEE SHEET C-23



**NOTES:**  
1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-21

**GROUNDWATER / DEWATERING NOTE:**  
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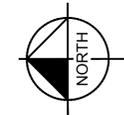
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

SOUTHEASTERN SEWERSHED  
 STA 314+75 TO STA 326+50

SHEET NUMBER  
C-22



**\*NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

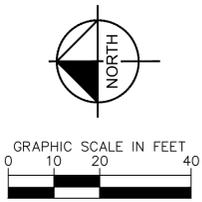
  
**COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 11+38 TO STA 277+68

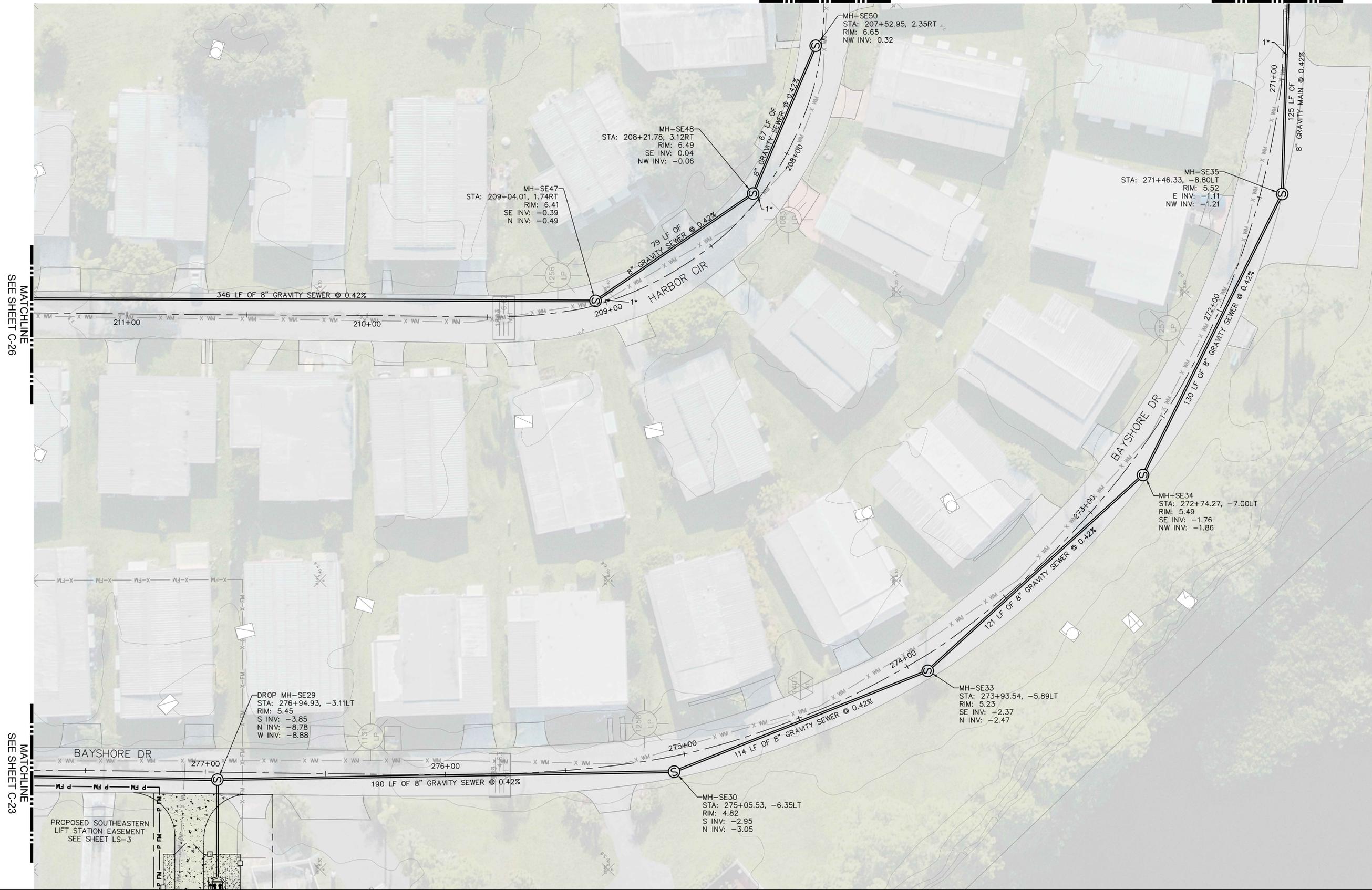
SHEET NUMBER  
**C-23**

MATCHLINE  
SEE SHEET C-25

MATCHLINE  
SEE SHEET C-25



**NOTES:**  
1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



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MASTER PLAN STUDY

COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS

SOUTHEASTERN SEWERSHED  
STA 277+68 TO STA 270+68

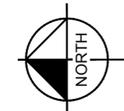
SHEET NUMBER

C-24

No.	REVISIONS	DATE	BY

MANATEE COUNTY

FL



**\*NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-26

MATCHLINE  
SEE SHEET C-26

MATCHLINE  
SEE SHEET C-24

MATCHLINE  
SEE SHEET C-24

**GROUNDWATER / DEWATERING NOTE:**  
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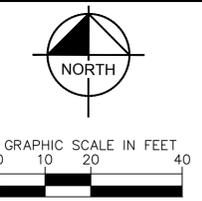
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 270+68 TO STA 263+70

SHEET NUMBER  
**C-25**



**NOTES:**

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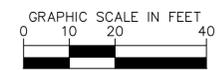
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 263+70 TO STA 21+20

SHEET NUMBER  
**C-26**



**\*NOTES:**

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MATCHLINE  
SEE SHEET C-26

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MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 180+75 TO STA 194+54

SHEET NUMBER  
**C-27**



**NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-29

MATCHLINE  
SEE SHEET C-29

MATCHLINE  
SEE SHEET C-26

**GROUNDWATER / DEWATERING NOTE:**  
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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 21+20 TO STA 164+76

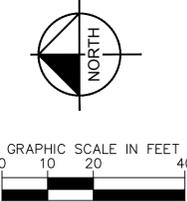
SHEET NUMBER  
**C-28**



MATCHLINE  
SEE SHEET C-32

MATCHLINE  
SEE SHEET C-28

MATCHLINE  
SEE SHEET C-28



NOTES:  
1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.

**GROUNDWATER / DEWATERING NOTE:**  
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 WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 164+76 TO STA 113+37

SHEET NUMBER  
**C-29**

MATCHLINE  
SEE SHEET C-31

MATCHLINE  
SEE SHEET C-31



**NOTES:**  
1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



**GROUNDWATER / DEWATERING NOTE:**  
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MATCHLINE  
SEE SHEET C-23

MATCHLINE  
SEE SHEET C-26

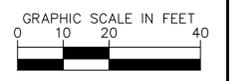
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

SOUTHEASTERN SEWERSHED  
 STA 110+80 TO STA 107+25

SHEET NUMBER  
C-30



**NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.

**GROUNDWATER / DEWATERING NOTE:**  
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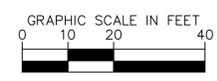
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

SOUTHEASTERN SEWERSHED  
 STA 107+25 TO STA 103+65

SHEET NUMBER  
 C-31



**NOTES:**

- EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



MATCHLINE  
SEE SHEET C-31

MATCHLINE  
SEE SHEET C-31

MATCHLINE  
SEE SHEET C-29

**GROUNDWATER / DEWATERING NOTE:**  
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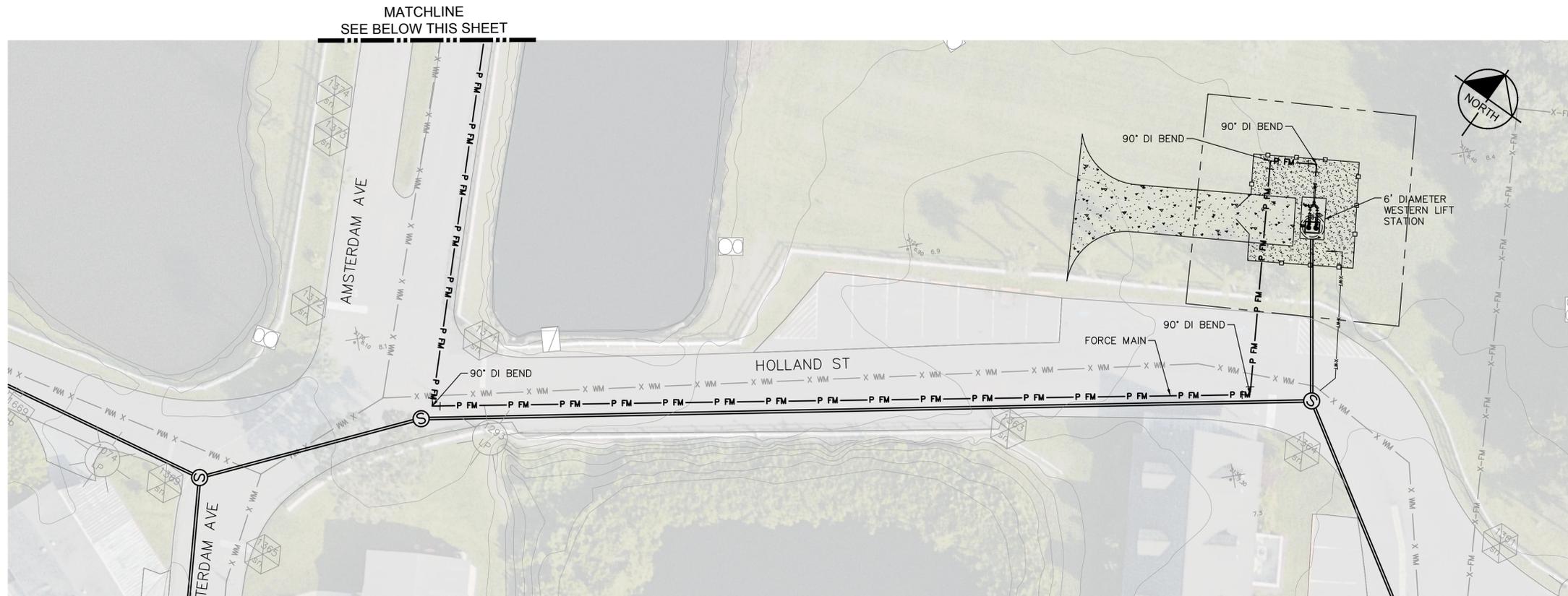
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

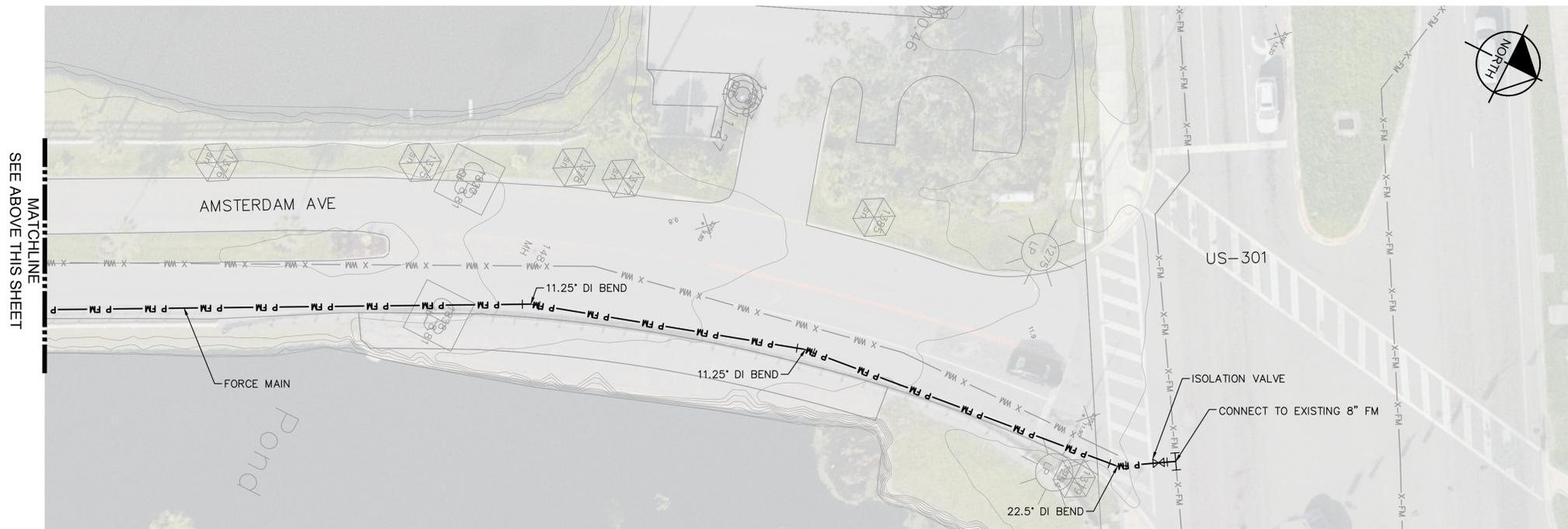
  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**SOUTHEASTERN SEWERSHED**  
 STA 103+65 TO STA 100+08

SHEET NUMBER  
**C-32**



- \*NOTES:**
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**GROUNDWATER / DEWATERING NOTE:**  
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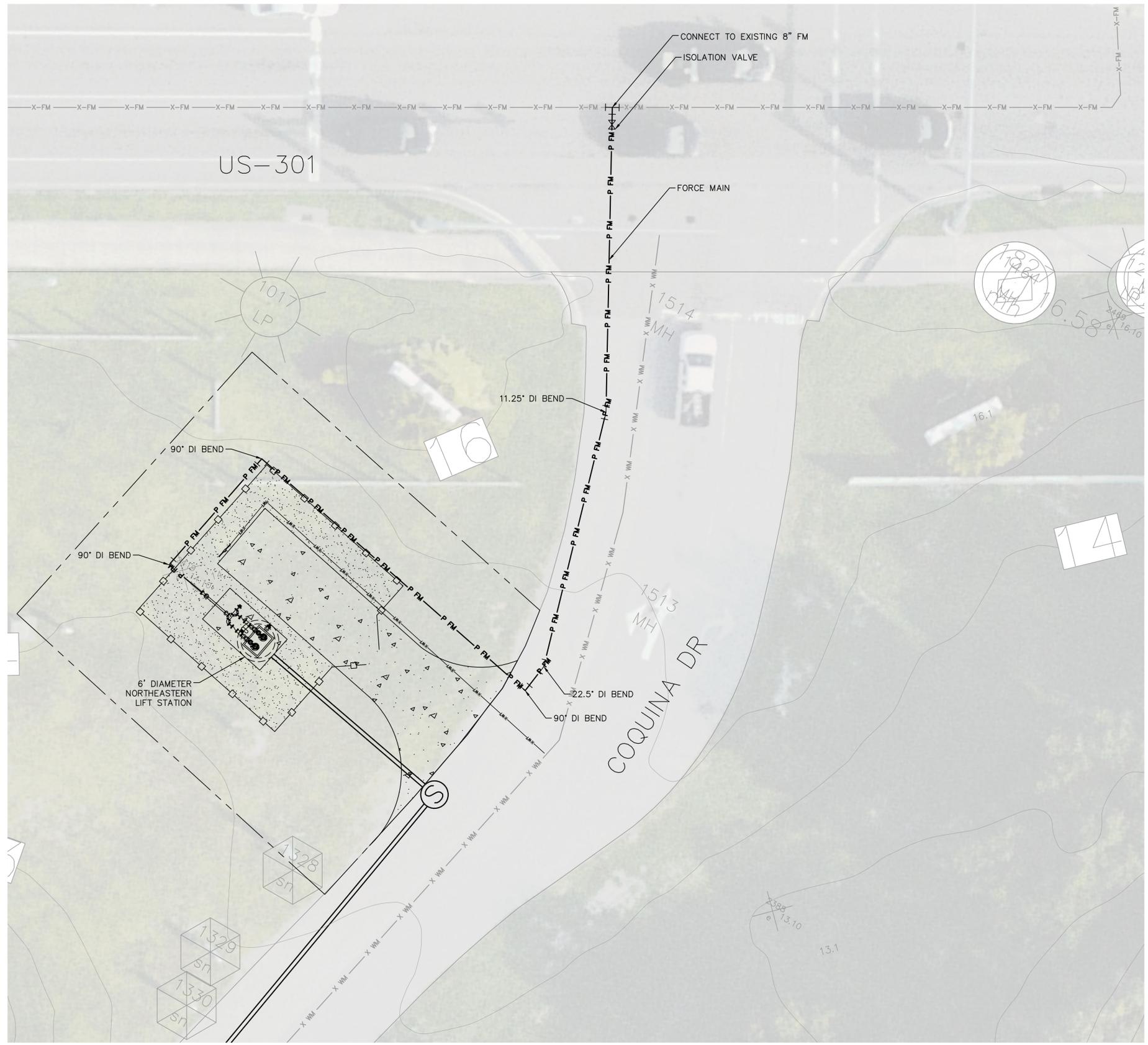
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
**COLONY COVE SANITARY SEWER SYSTEM  
SYSTEM IMPROVEMENTS**  
 MANATEE COUNTY FL

**WESTERN SEWERSHED FORCE  
MAIN**

SHEET NUMBER  
**C-33**



**\*NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.

**GROUNDWATER / DEWATERING NOTE:**  
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No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

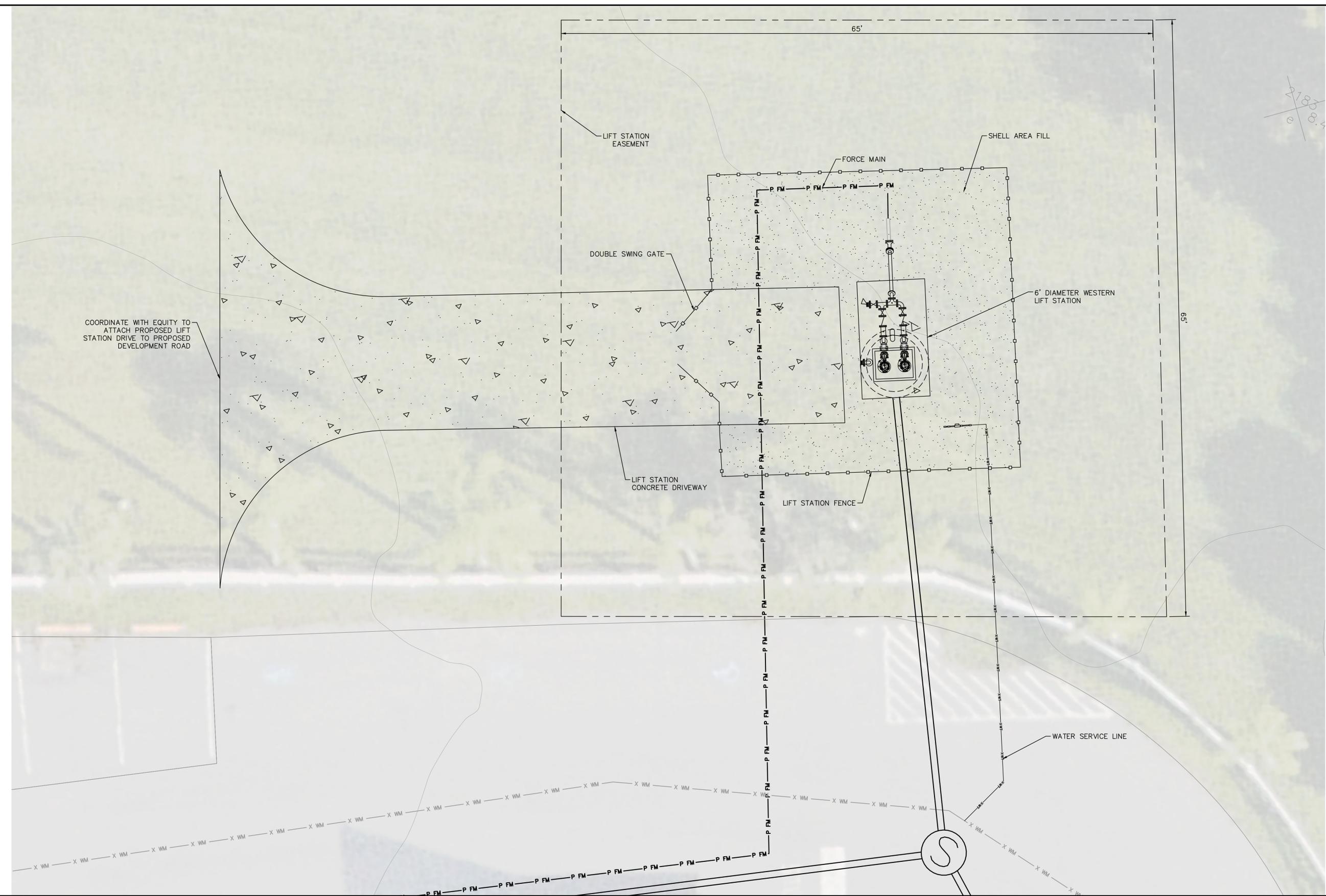
NORTHEASTERN SEWERSHED  
 FORCE MAIN

SHEET NUMBER  
**C-34**





**\*NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FDEP AND MANATEE COUNTY STANDARDS.



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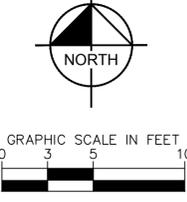
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

WESTERN SEWERSHED LIFT STATION SITE PLAN

SHEET NUMBER  
LS-1



**\*NOTES:**  
 1. EXISTING WATERMAIN WILL BE REPLACED IN THE FUTURE AND IS ANTICIPATED TO BE COMPLETED BEFORE THE SANITARY SEWER INSTALL. IF THE EXISTING WATERMAIN IS STILL IN SERVICE, THEN SANITARY SEWER AND MANHOLES SHALL CONFORM WITH FAC RULES, CURRENT FLDEP AND MANATEE COUNTY STANDARDS.

**GROUNDWATER / DEWATERING NOTE:**  
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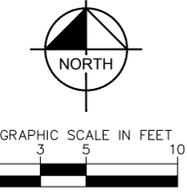
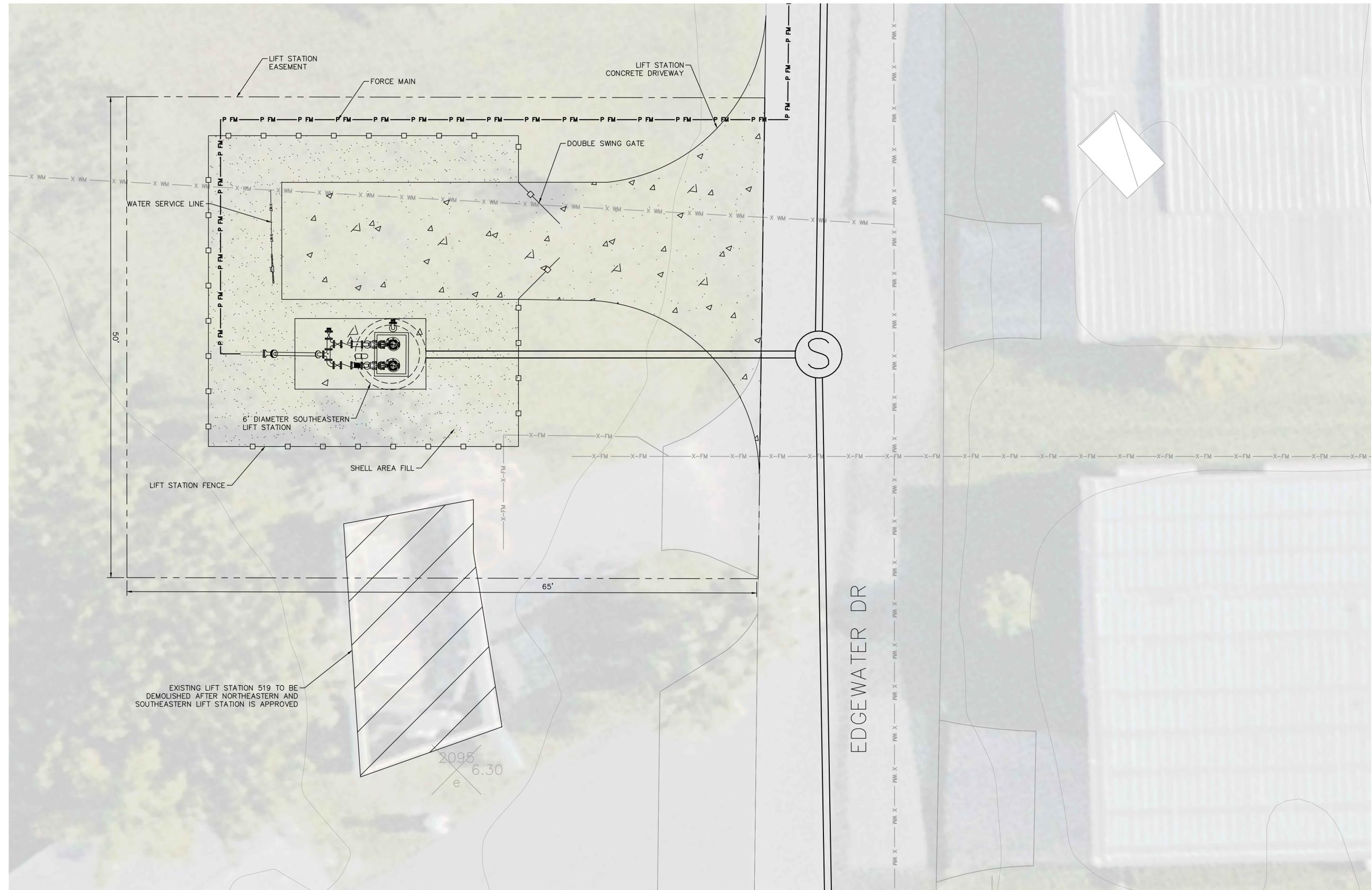
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

NORTHEASTERN LIFT STATION  
 SITE PLAN

SHEET NUMBER  
 LS-2



**\*NOTES:**  
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**GROUNDWATER / DEWATERING NOTE:**  
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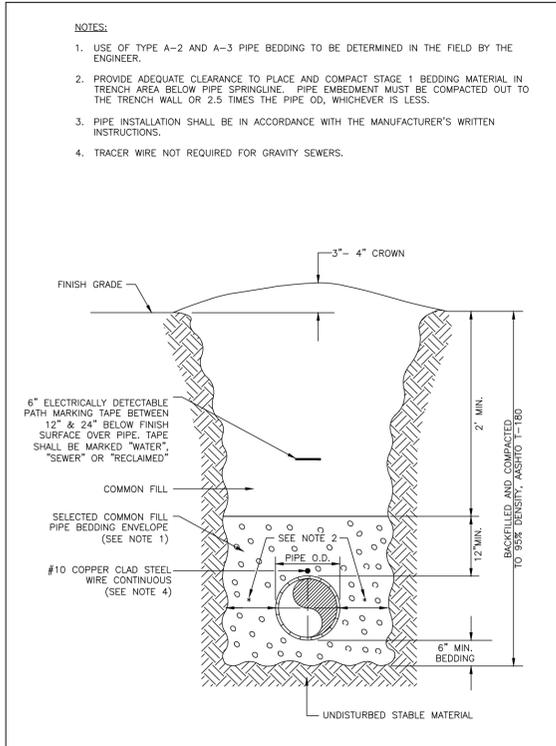
No.	REVISIONS	DATE	BY

MASTER PLAN STUDY

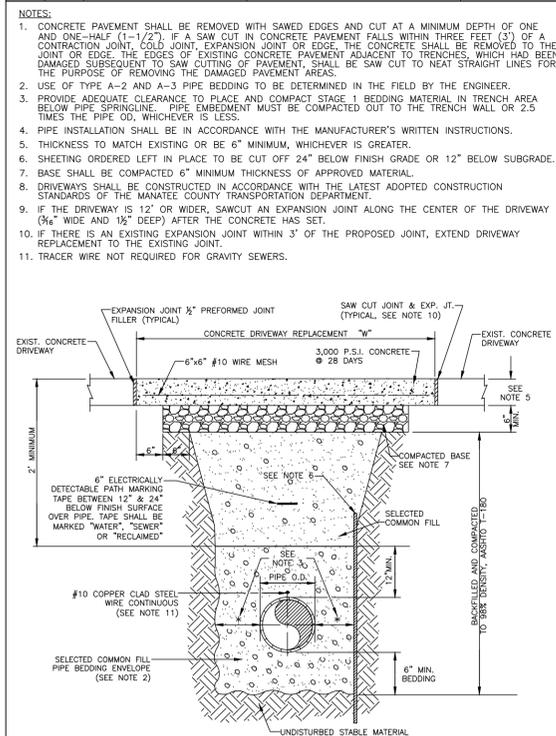
  
 COLONY COVE SANITARY SEWER SYSTEM  
 SYSTEM IMPROVEMENTS  
 MANATEE COUNTY FL

SOUTHEASTERN LIFT STATION  
 SITE PLAN

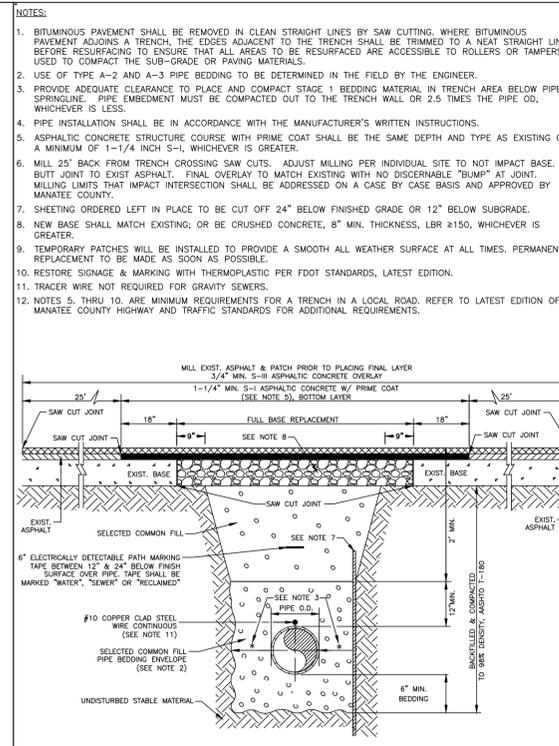
SHEET NUMBER  
 LS-3



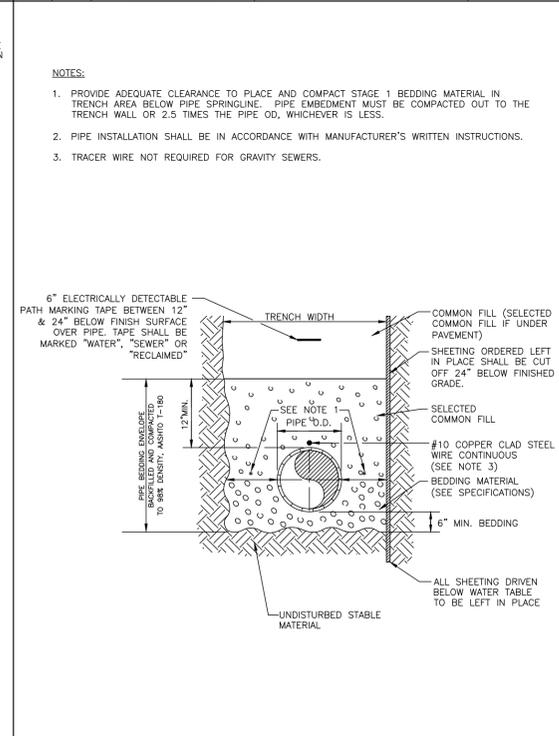
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE	DATE OF APPROVAL	
		February 25, 2020	



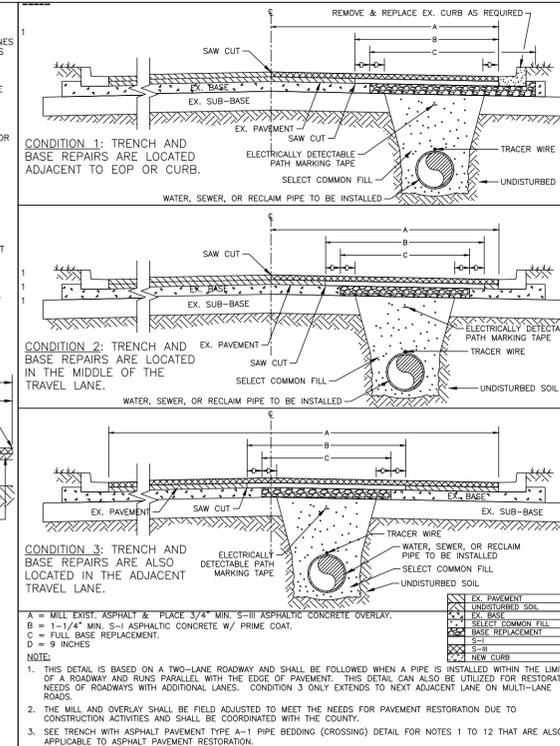
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)	UG-12
REV. BY	DATE	DATE OF APPROVAL	
		February 25, 2020	



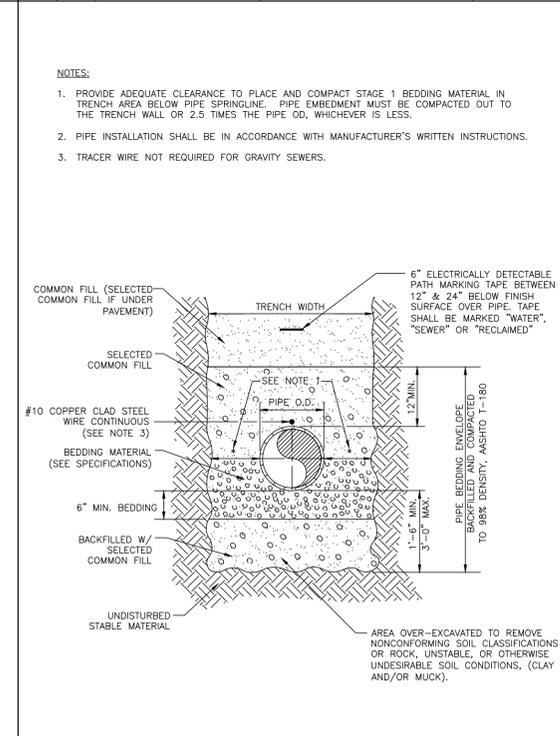
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-13
REV. BY	DATE	DATE OF APPROVAL	
		February 25, 2020	



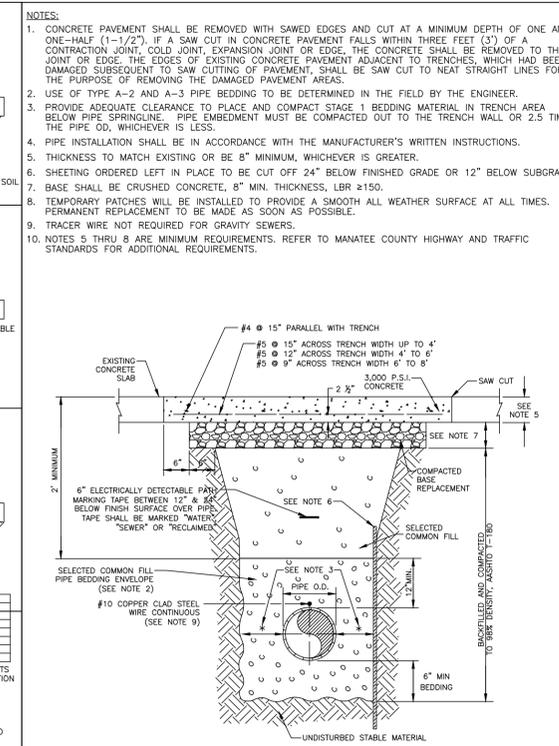
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE	DATE OF APPROVAL	
		February 25, 2020	



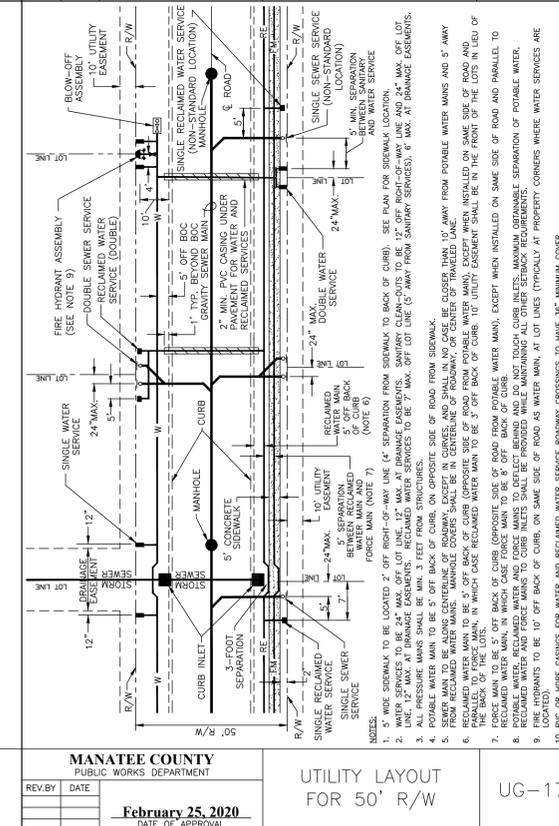
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-2 PIPE BEDDING	UG-15
REV. BY	DATE	DATE OF APPROVAL	
		February 25, 2020	

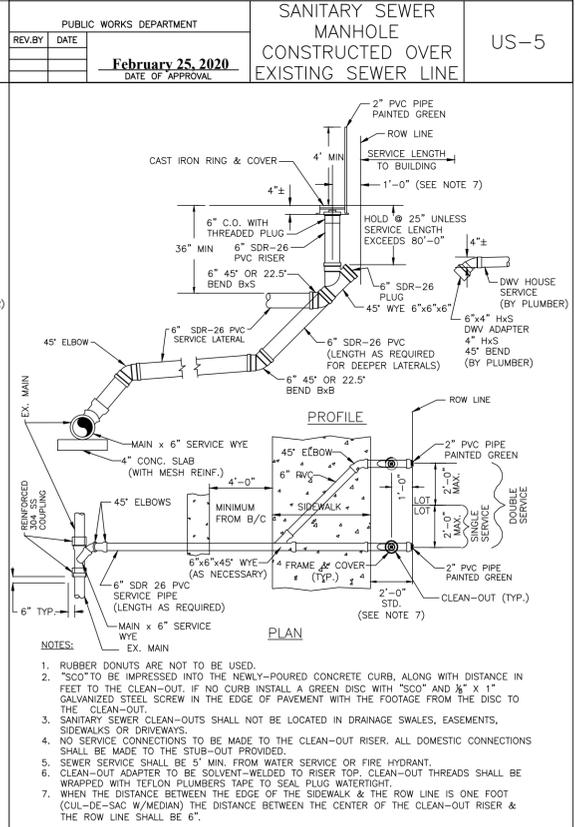
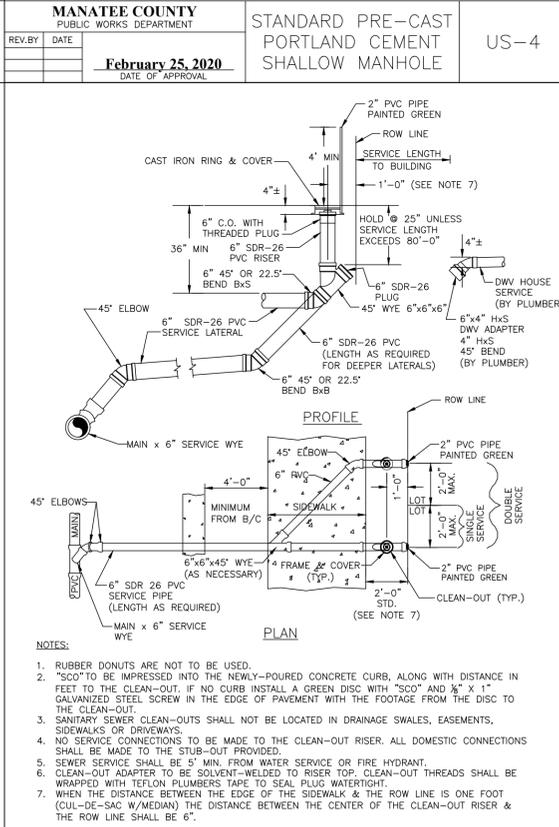
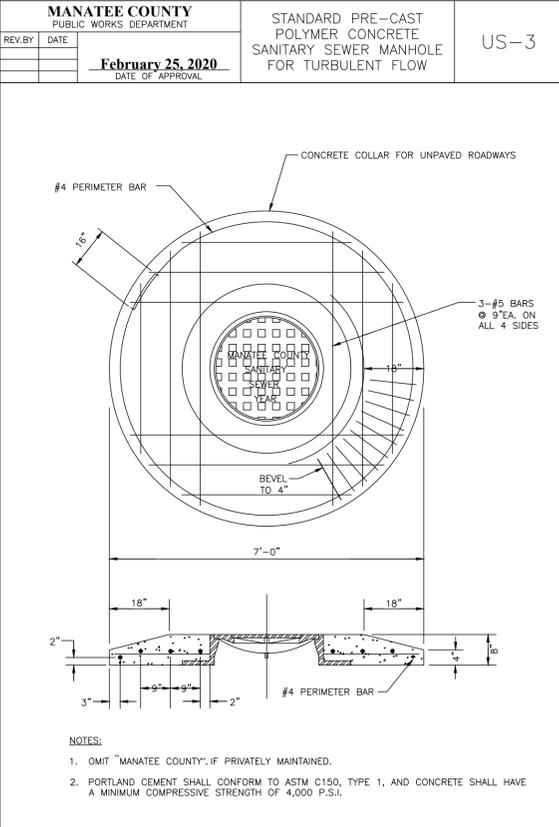
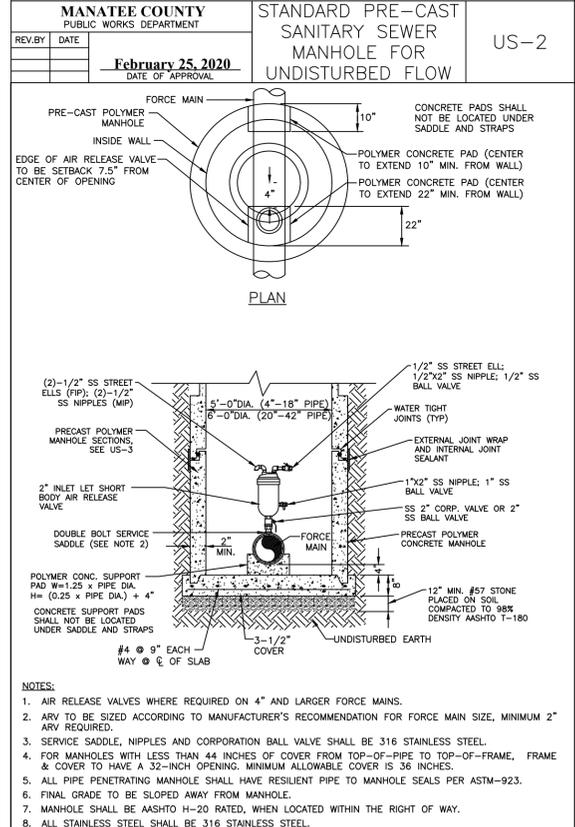
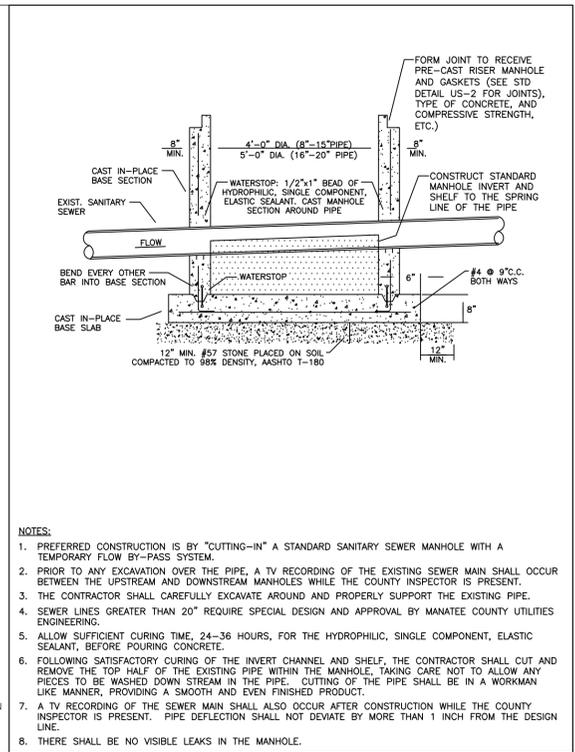
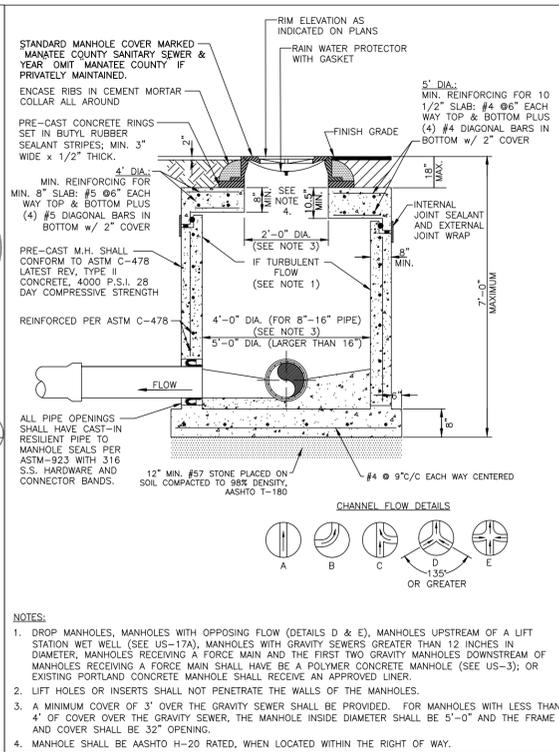
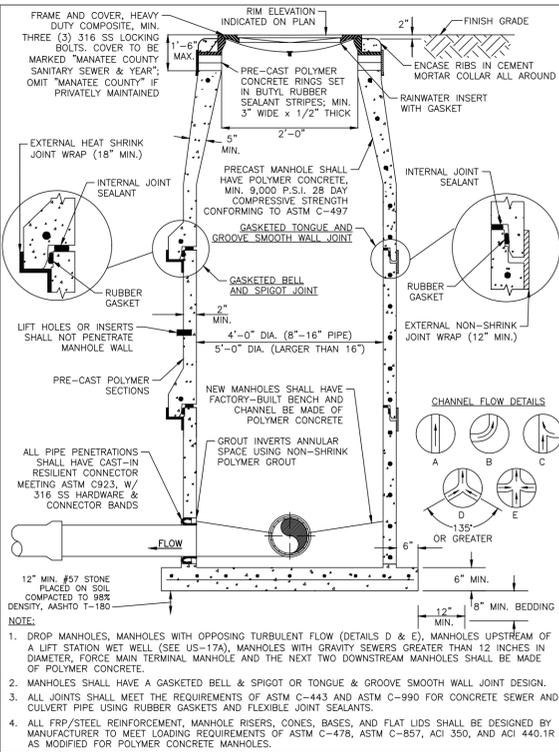
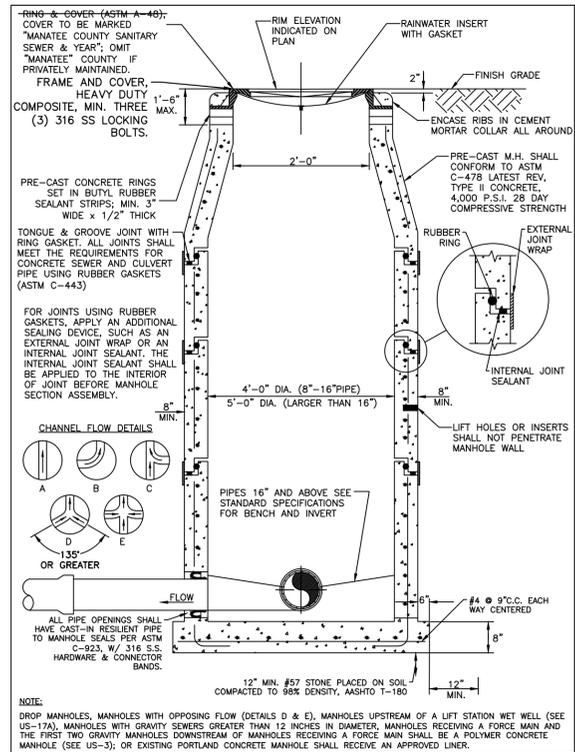


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REV. BY	DATE	DATE OF APPROVAL	
		February 25, 2020	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		UTILITY LAYOUT FOR 50' R/W	UG-17
REV. BY	DATE	DATE OF APPROVAL	
		February 25, 2020	



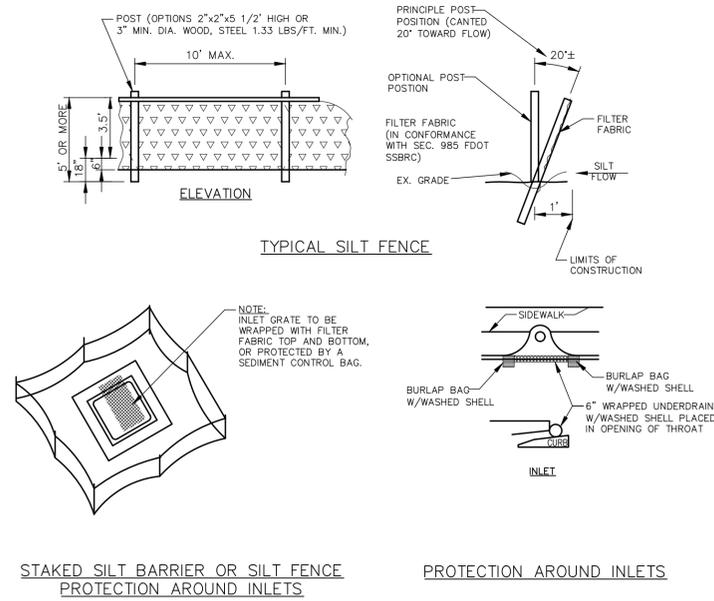


**LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314**

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum Water Main
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

- (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.  
 (2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.  
 (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.  
 (4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.



**EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES**  
 N.T.S.

**F.A.C. RULE 62-55.314 MAIN CLEARANCES DETAIL**

**NOTES:**

- A PRECAST CONCRETE OUTSIDE DROP MAY BE USED IN LIEU OF THE CAST IN PLACE ENCASEMENT SHOWN BELOW.

**PLAN**

**SECTION**

**NOTES:**

- THIS IS A TURBULENT FLOW MANHOLE AND SHALL BE LINED WITH AN APPROVED LINER. IN NEW CONSTRUCTION, THIS MANHOLE SHALL BE MADE OF POLYMER CONCRETE, SEE US-3.
- DROP MANHOLES ARE REQUIRED WHEN THE VERTICAL DISTANCE BETWEEN THE LOWEST EXISTING MANHOLE INVERT AND THE HIGHEST PIPE INVERT IS 2'-0" OR GREATER.
- MANHOLE SHALL BE ASHTO H-20 RATED, WHEN LOCATED WITHIN THE RIGHT OF WAY.

**NOTES:**

- APPROVED PVC RESTRAINTS SHALL BE USED.
- APPROVED PVC CONNECTION SHALL BE AT THE BOTTOM OF THE MANHOLE.
- FORCE MAIN CONNECTION TO EX. PORTLAND CEMENT MANHOLE SHALL BE FINISHED SMOOTH WITH GROUT DETAIL PER US-3 SEWER MANHOLE FOR TURBULENT FLOW, AND FINISH SMOOTH WITH GROUT DETAIL PER US-3 SEWER MANHOLE FOR TURBULENT FLOW, AND FINISH SMOOTH WITH GROUT DETAIL PER US-3 SEWER MANHOLE FOR TURBULENT FLOW, AND FINISH SMOOTH WITH GROUT DETAIL PER US-3 SEWER MANHOLE FOR TURBULENT FLOW.
- THIS IS AN INTERCEPT MANHOLE WITH TURBULENT FLOW. THIS MANHOLE AND THE NEXT TWO DOWNSTREAM MANHOLES SHALL BE COMPLETELY LINED WITH AN APPROVED LINER. ALL THREE MANHOLES SHALL BE REHABILITATED AS NECESSARY.
- ALL THREE MANHOLES SHALL BE REHABILITATED AS NECESSARY.
- FORCE MAIN SHALL CONNECT TO THE BOTTOM OF THE MANHOLE 0.1 FT. ABOVE EXISTING U-CHANNEL. IN NEW CONSTRUCTION, THIS MANHOLE SHALL BE MADE OF POLYMER CONCRETE, SEE US-3.
- PIPE DISCHARGE SHALL BE DIRECTED TO THE EXISTING PIPE BY A CONSTRUCTED U-CHANNEL. IN NEW CONSTRUCTION, THIS MANHOLE SHALL BE MADE OF POLYMER CONCRETE, SEE US-3.
- ANGLE BETWEEN INFLUENT FORCE MAIN AND GRAVITY EFFLUENT PIPE IS REFERENCED TO BE BETWEEN 135°-225° IF OUTSIDE THE ACCEPTED ANGLES, ADDITIONAL PVC FITTINGS MAY BE REQUIRED INSIDE THE MANHOLE TO DIRECT EFFLUENT TO EXISTING PIPE. DISCHARGE SHALL BE REQUIRED INSIDE THE MANHOLE TO DIRECT EFFLUENT TO EXISTING PIPE.

**SECTION**

**NOTES:**

- THIS IS AN INTERCEPT MANHOLE WITH TURBULENT FLOW; THIS MANHOLE AND THE NEXT TWO DOWNSTREAM MANHOLES SHALL BE COMPLETELY LINED WITH AN APPROVED LINER. ALL THREE MANHOLES SHALL BE REHABILITATED AS NECESSARY.
- IN NEW CONSTRUCTION, THIS MANHOLE AND THE NEXT TWO DOWNSTREAM MANHOLES SHALL BE POLYMER CONCRETE, SEE US-3.
- ALL FITTINGS SHALL BE PVC AWMA C-907, CLASS 235 MIN. FORCE MAIN DROP PIPE SHALL BE AWMA C900-18 (CLASS 235, DR 18). APPROVED PVC RESTRAINTS SHALL BE USED.
- A TRAP IS REQUIRED IN THE FORCE MAIN BEFORE THE DROP.
- FORCE MAIN SHALL CONNECT TO THE BOTTOM OF THE MANHOLE 0.1 FT ABOVE EXISTING PIPE. DISCHARGE SHALL BE DIRECTED TO THE EXISTING PIPE BY A CONSTRUCTED U-CHANNEL.
- BUILD FLOW CHANNEL PER DETAIL SEWER MANHOLE FOR TURBULENT FLOW, AND FINISH SMOOTH WITH GROUT.
- ANGLE BETWEEN INFLUENT FORCE MAIN AND GRAVITY EFFLUENT PIPE IS REFERENCED TO BE BETWEEN 135°-225° IF OUTSIDE THE ACCEPTED ANGLES, ADDITIONAL PVC FITTINGS MAY BE REQUIRED INSIDE THE MANHOLE TO DIRECT EFFLUENT TO EXISTING PIPE.

**NOTES:**

- SEE US-2 THRU US-4 FOR DETAILED INFORMATION ABOUT PRECAST CONCRETE MANHOLES.
- A PRE-CAST CONCRETE OUTSIDE DROP MAY BE USED IN LIEU OF THE CAST IN PLACE ENCASEMENT SHOWN BELOW.

**PLAN**

**SECTION**

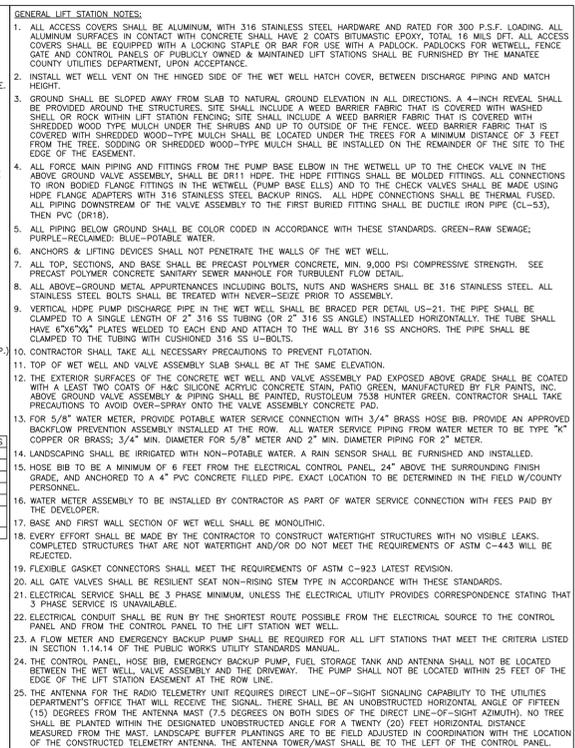
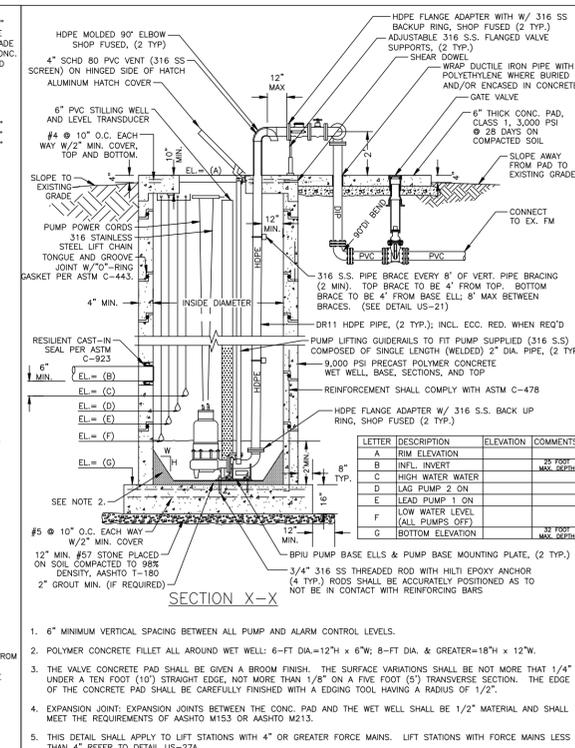
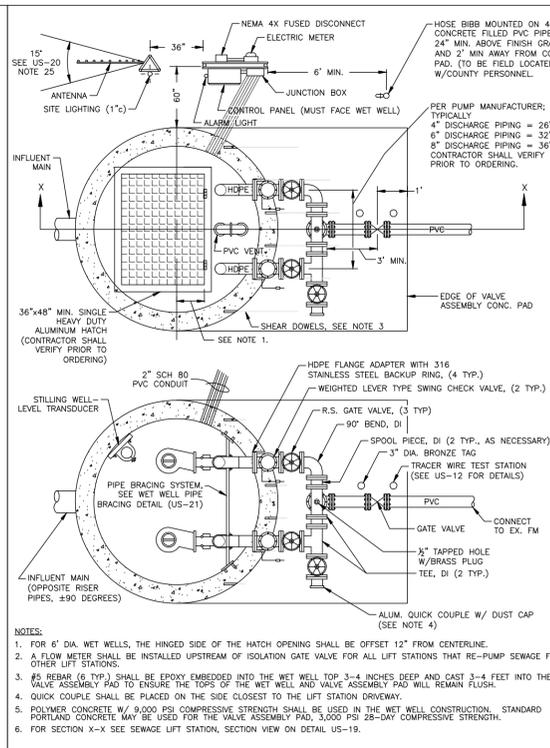
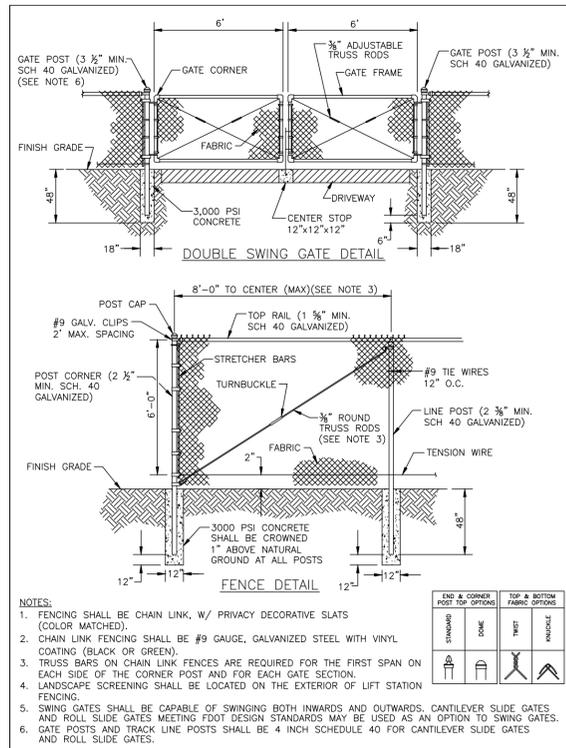
**THOROUGHFARE DRIVEWAYS**  
 N.T.S.

**NON-THOROUGHFARE DRIVEWAY**  
 N.T.S.

**NOTES:**

- A MINIMUM SETBACK OF 5 FT SHALL BE PROVIDED BETWEEN LIFT STATION STRUCTURES/EQUIPMENT/VALVE ASSEMBLY AND THE FENCE.
- DRIVEWAY SHALL EXTEND UP TO OR BE EVEN WITH THE FURTHEST POINT OF THE WET WELL OR VALVE PAD.
- LIFT STATION EASEMENT SHALL EXTEND A MINIMUM OF 15 FT BEYOND ALL FOUR SIDES OF THE LIFT STATION SECURITY FENCE.
- OPTIONS FOR PLACEMENT OF WW & VALVE ASSEMBLY (IF NEEDED) ARE INDICATED FOR CLARITY.
- A MINIMUM SETBACK OF 5 FT SHALL BE PROVIDED BETWEEN THE SHRUB'S BASE STEM AND THE LIFT STATION SECURITY FENCE.
- A MINIMUM SETBACK OF 10 FT SHALL BE PROVIDED BETWEEN THE TRUNK OF SMALL TREES AND THE LIFT STATION SECURITY FENCE.
- SPECIFIC LANDSCAPING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 1.13.11 IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL.
- DRIVEWAY MATERIAL SHALL BE CONCRETE AND SHALL BE IN ACCORDANCE WITH MANATEE COUNTY HIGHWAY & TRAFFIC STANDARDS MANUAL FOR THE ENTIRE LENGTH OF THE DRIVEWAY.
- DRIVEWAY WILL BE INSTALLED AT GRADE OF SHELL SURROUNDING WET WELL & VALVE ASSEMBLY.

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT REV. BY: DATE: <b>February 25, 2020</b> DATE OF APPROVAL	OUTSIDE DROP CONNECTION TO EX. PORTLAND CEMENT MANHOLE US-6	<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT REV. BY: DATE: <b>February 25, 2020</b> DATE OF APPROVAL	FORCE MAIN CONNECTION TO EX. PORTLAND CEMENT MANHOLE (3-6 FEET DEEP) US-7A
<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT REV. BY: DATE: <b>February 25, 2020</b> DATE OF APPROVAL	FORCE MAIN CONNECTION TO EX. PORTLAND CEMENT MANHOLE (>6 FEET DEEP) US-7B	<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT REV. BY: DATE: <b>February 25, 2020</b> DATE OF APPROVAL	MINIMUM ACCESS/EGRESS AND LANDSCAPING REQUIREMENTS FOR LIFT STATIONS US-16

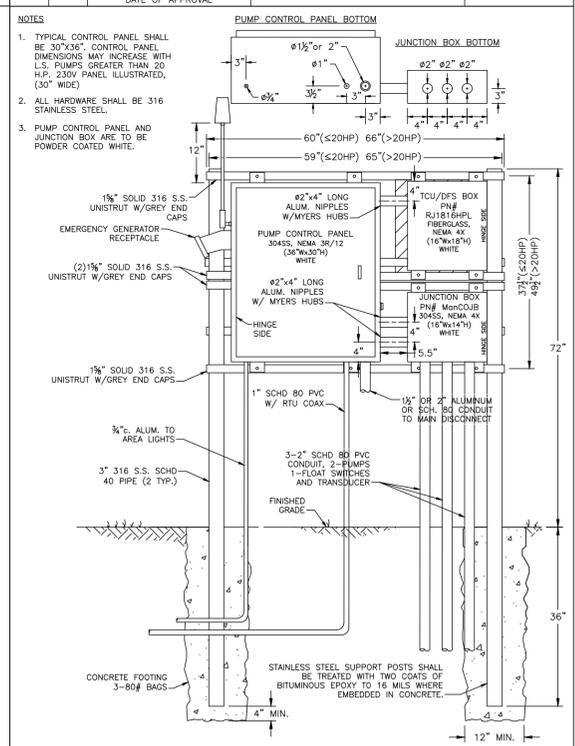
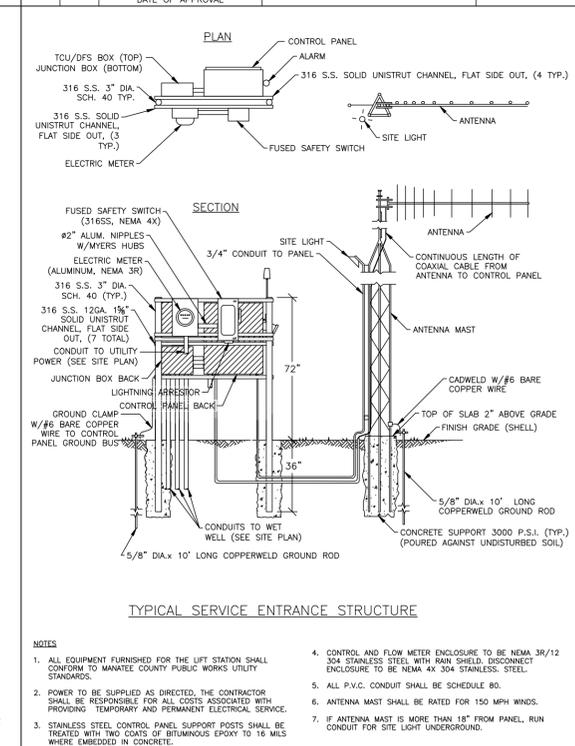
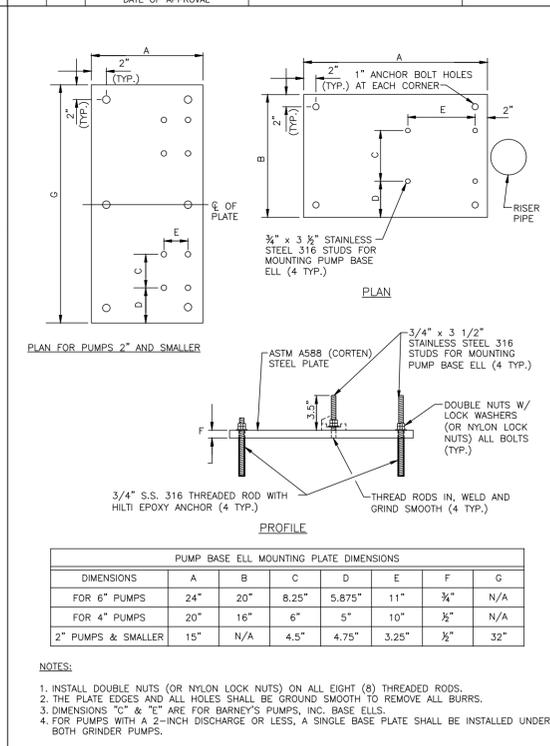
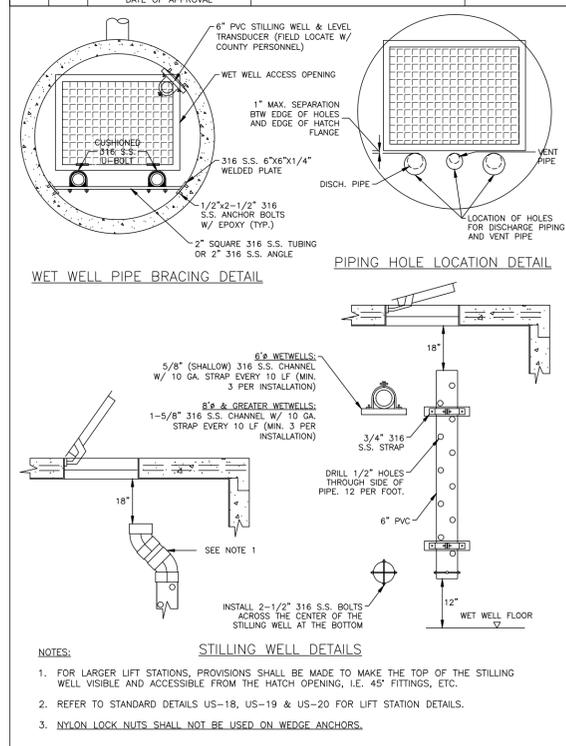


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