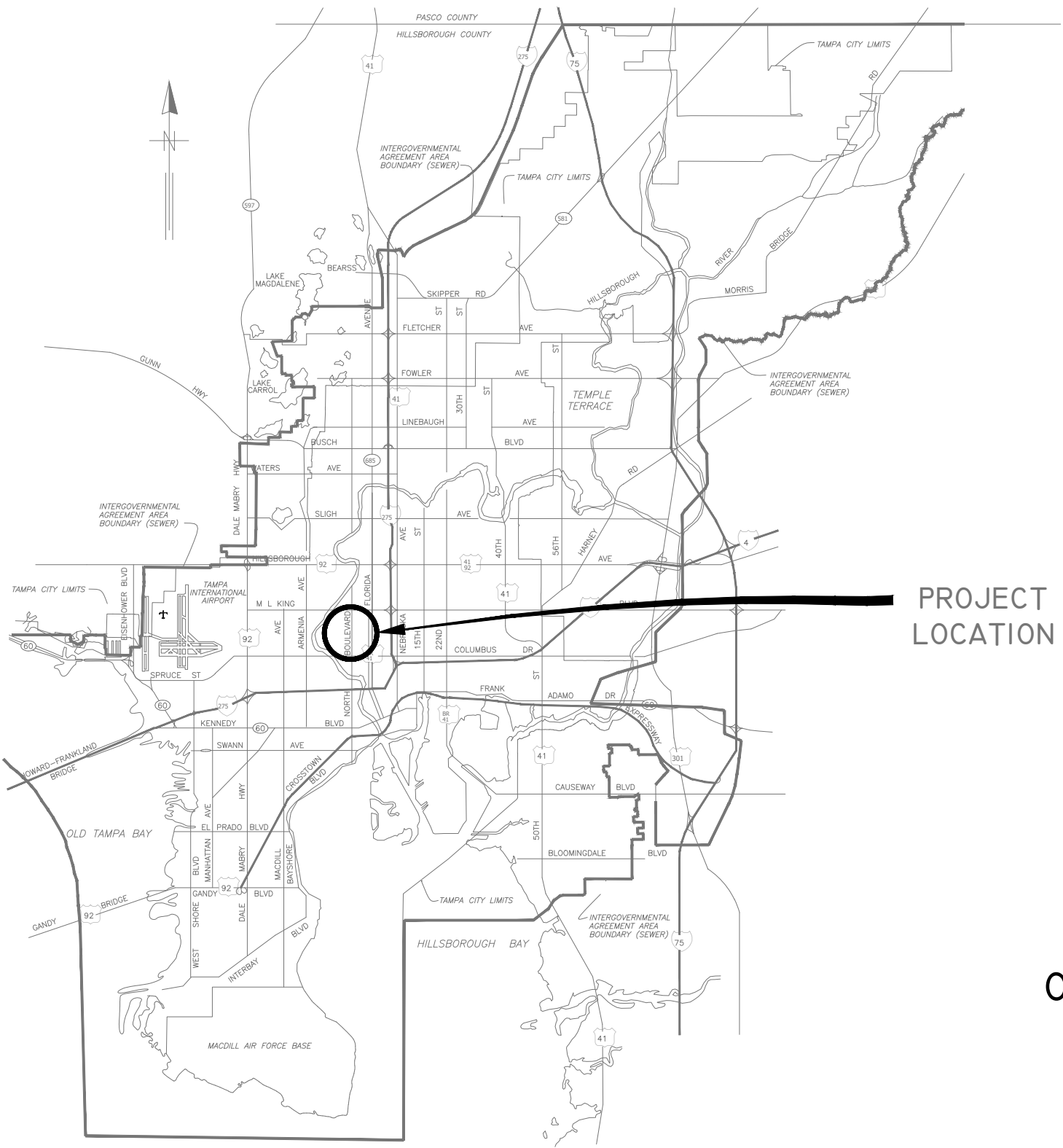


User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP\lin\DWG\OLA AVE CIPP.dwg
 Layout- Sep 12, 2023 - 3:01pm CTB - WM.CTB TOSHIBA_UNL_COLOR (NORTH WING)

LOCATION MAP



PROJECT
LOCATION

CITY of TAMPA



WASTEWATER DEPARTMENT

PLANS FOR

OLA AVE - MLK BLVD TO 7TH AVE COLLECTION SYSTEM REHABILITATION BY CIPP

CONTRACT NO.
23-C-00016

NOTE:
ATTENTION IS DIRECTED TO THE FACT THAT
THESE PLANS MAY HAVE BEEN REDUCED IN
SIZE BY REPRODUCTION. THIS MUST BE
CONSIDERED WHEN OBTAINING SCALED DATA.

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	#	DATE	REVISIONS	DES: JK	CITY of TAMPA WASTEWATER DEPARTMENT	Ola Ave - MLK Blvd To 7th Ave Collection System Rehabilitation By CIPP	SHEET
	1			DRN: GP			
	2			CKD:		COVER SHEET	1
	3			DATE:			

GENERAL NOTES

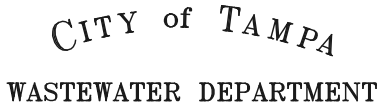
1. THE SCOPE OF THIS PROJECT SHALL CONSIST OF REHABILITATION OF 8", 10", 12", AND 18" DIA WASTEWATER PIPELINE BY INSTALLATION OF CURED IN PLACE PIPE LINER AND ALL APPURTENANCE ASSOCIATED WITH COMPLETION OF THE PROJECT.
2. ELEVATION INFORMATION SHOWN ON THESE PLANS IS REFERENCED TO N.G.V.D. 1929 UNLESS OTHERWISE STATED AND ARE BASED ON RECORD DRAWINGS.
3. SHEETS 14-30 ARE THE EXISTING AS-BUILTS OF THE SEWER PIPE TO BE REHABILITATED.
4. DURING THE MOT, CONTRACTOR MUST MAINTAIN ACCESS TO ALL DRIVEWAYS FOR THE DURATION OF THE PROJECT.
5. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING THE NECESSARY ROAD CLOSURE AND RIGHT-OF-WAY PERMITS FROM THE APPROPRIATE GOVERNMENT AGENCIES HAVING JURISDICTION OVER THE SPECIFIC ROADWAYS.
6. IN ORDER TO OBTAIN ROADWAY CLOSURE OR RIGHT-OF-WAY PERMITS, AT MINIMUM, THE CONTRACTOR MUST SUBMIT DETAILED MAINTENANCE OF TRAFFIC (MOT) PLANS ALONG WITH APPLICATIONS TO THE APPROPRIATE AGENCY. THE MOT(S) SHALL CONFORM TO APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) INDEX DRAWINGS (MOST CURRENT EDITION). THE GOVERNING AGENCIES MAY REQUIRE ADDITIONAL INFORMATION AND DICTATE SPECIFIC WORK TIMES DURING NON-PEAK TRAFFIC HOURS. REFER TO SPECIFIC PROVISIONS FOR SPECIFIC TRAFFIC CONTROL REQUIREMENTS. REFER TO SPECIFIC MOT REQUIREMENTS IN NOTE 17 BELOW.
7. CONTINUOUS SEWER SERVICE MUST BE MAINTAINED AT ALL TIMES. WORK DURING LOW FLOW PERIODS OR NIGHT WORK MAY BE REQUIRED. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PRIVATE AND CITY PUMPING STATIONS AND SEWER SERVICE VIA VACUUM TRUCKS. CONTRACTOR IS RESPONSIBLE FOR DEWATERING, COLLECTING AND DISPOSING OF ALL WATER AND SLUDGE FROM EXISTING FACILITIES AS NECESSARY TO MAINTAIN SERVICE. COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS CONTRACT ITEMS AND NO ADDITIONAL PAYMENT WILL BE MADE.
8. BYPASS PUMPS SHALL BE CAPABLE OF DELIVERING 300 GPM FOR 8", 600 GPM FOR 10", 800 GPM FOR 12", AND 1550 GPM FOR 18". THE BYPASS PUMPS SHALL BE OF THE SELF PRIMING QUIET FLOW TYPE PUMP. BYPASS PUMP NOISE SHALL STRICTLY COMPLY TO ALL LOCAL REGULATIONS AND ORDINANCES COVERING NOISE CONTROL. THIS MAY REQUIRE CONSTRUCTING SOUND ATTENUATING ENCLOSURE AROUND PUMPS. BYPASS METHOD SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER.
9. THE PROPOSED LINER THICKNESS FOR THE 8" SEWER SHALL BE 6.0 MM THICKNESS, 10"/12" SEWER SHALL BE 7.5 MM THICKNESS, AND 18" SEWER SHALL BE 9.0 MM THICKNESS
10. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING, SPRINKLER SYSTEM PIPING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.
11. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH WASTEWATER PERSONNEL AND PUMPING STATION OPERATIONS.
12. OSHA STANDARD EQUIPMENT SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
13. DURING THE MANHOLE'S INTERIOR CLEANING OPERATION, THE CONTRACTOR MUST PROVIDE A MEANS OF CAPTURING AND DISPOSING OF THE REMOVED DEBRIS. THIS METHOD SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
14. ALL EXPOSED STEEL REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF ANY DETERIORATION/RUST AND COATED WITH THE PROPOSED COATING SYSTEM.
15. THE ONLY EXCAVATION NECESSARY FOR THIS PROJECT IS FOR THE REMOVAL AND REPLACEMENT OF THE MANHOLE FRAME AND COVERS. FOR THESE CASES, THE CONTRACTOR IS REQUIRED TO CALL SUNSHINE AT 1-800-432-4770 TO DETERMINE UTILITY LOCATIONS PRIOR TO EXCAVATION.
16. THIS PROJECT INCLUDES REHABILITATION OF MANHOLES BY APPLICATION OF A STRUCTURAL COATING SYSTEM AND ALL APPURTENANCES ASSOCIATED WITH THE PROJECT.

INDEX	
SHEET NUMBER	SHEET NAME
1	COVER SHEET
2	NOTE AND INDEX
3-11	AREA MAPS
12-13	MANHOLE DETAILS
14-30	WASTEWATER RECORD DRAWINGS FOR REFERENCE **

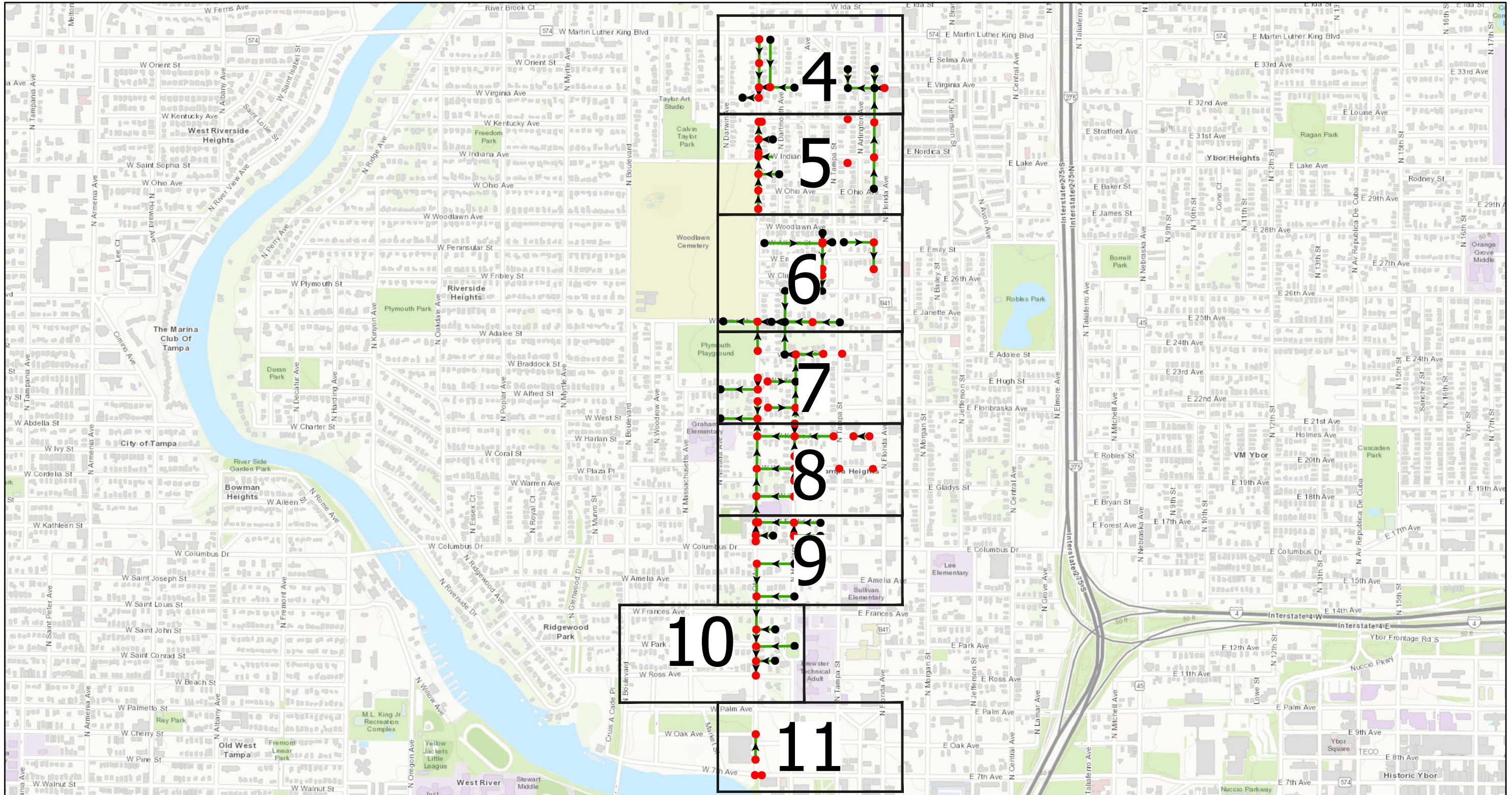
** RECORD DRAWINGS ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT INTENDED TO SHOW ADDITIONAL WORK FOR THIS CONTRACT. THE CITY DOES NOT GUARANTEE THE ACCURACY OF THE RECORD DRAWINGS.

PROPOSED MANHOLE COATING SYSTEM THICKNESS	
Location	Coating System
Manhole Barrel	250 MILS (MIN)
Manhole Benches	250 MILS (MIN)

User: sst4 Drawing Name: \\sewer\sewer\Share\Wastewater Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP lining\Drafting\DWG\OLA AVE CIPP.dwg Layout- Sep 12, 2023 - 3:01pm

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	#	DATE	REVISIONS	DES: JK		Ola Ave - MLK Blvd To 7th Ave Collection System Rehabilitation By CIPP	SHEET
	1			DRN: GP			
	2			CKD:			
	3			DATE:			
						NOTES & INDEX	2

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WW.CTB
 TOSHIBA_UNL_COLOR (NORTH WING)



0 0.15 0.3 0.6 Miles

- Legend**
- Ex Manhole (no rehabilitation required)
 - Proposed Manhole Rehabilitation
 - Ex Wastewater (no rehabilitation required)
 - Proposed Lining Area
 - Ex CIPP Lined or PVC
 - - - Out of Service

#	DATE	REVISIONS
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2		
3		

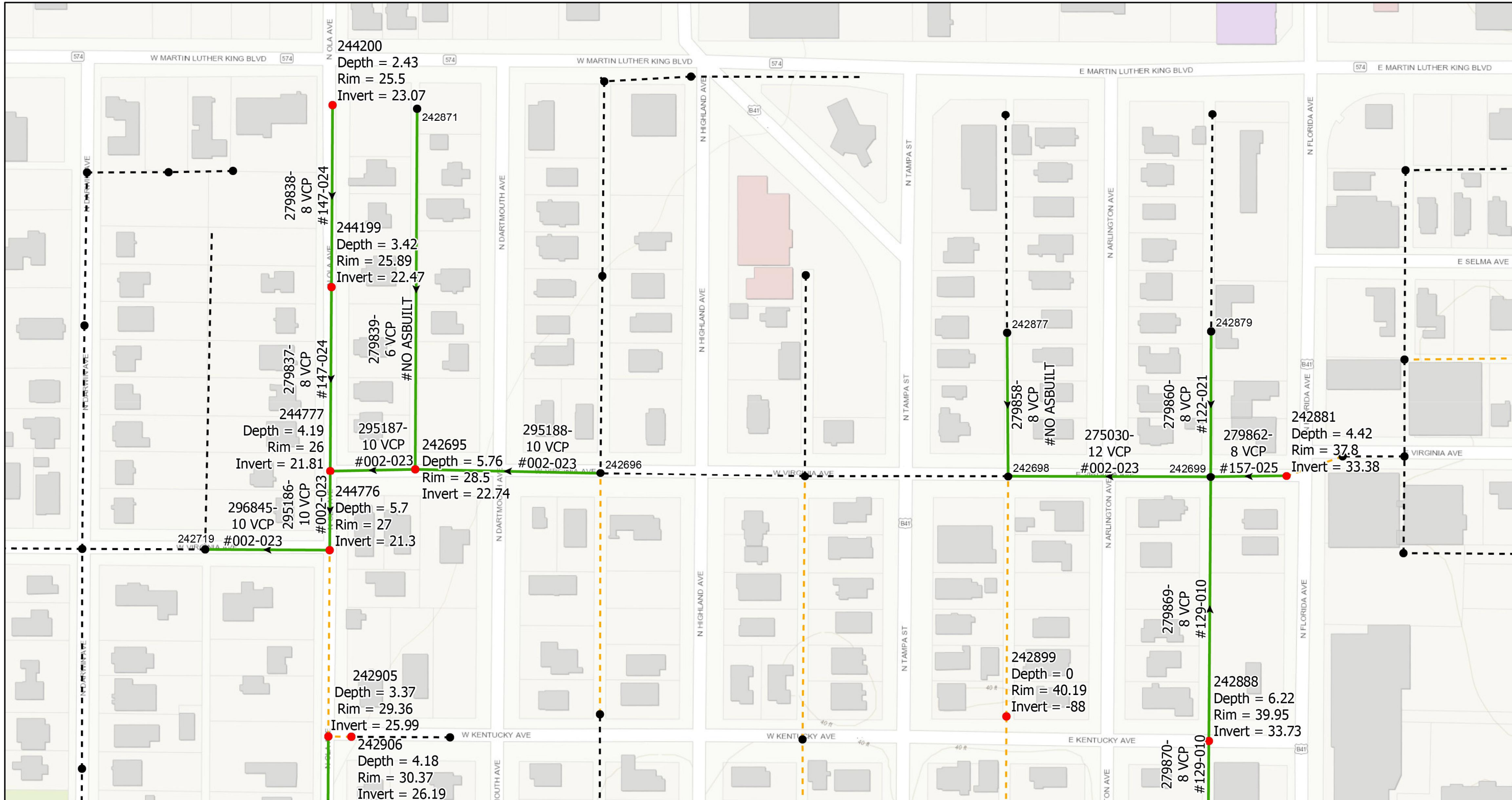
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	DES: JK DRN: GP CKD: DATE:
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CITY of TAMPA
WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System Rehabilitation By CIPP
OVERVIEW LOCATION MAP

SHEET
3

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP\lining\Drafting\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WM.CTB



- Legend**
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 - Out of Service



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

#	DATE	REVISIONS
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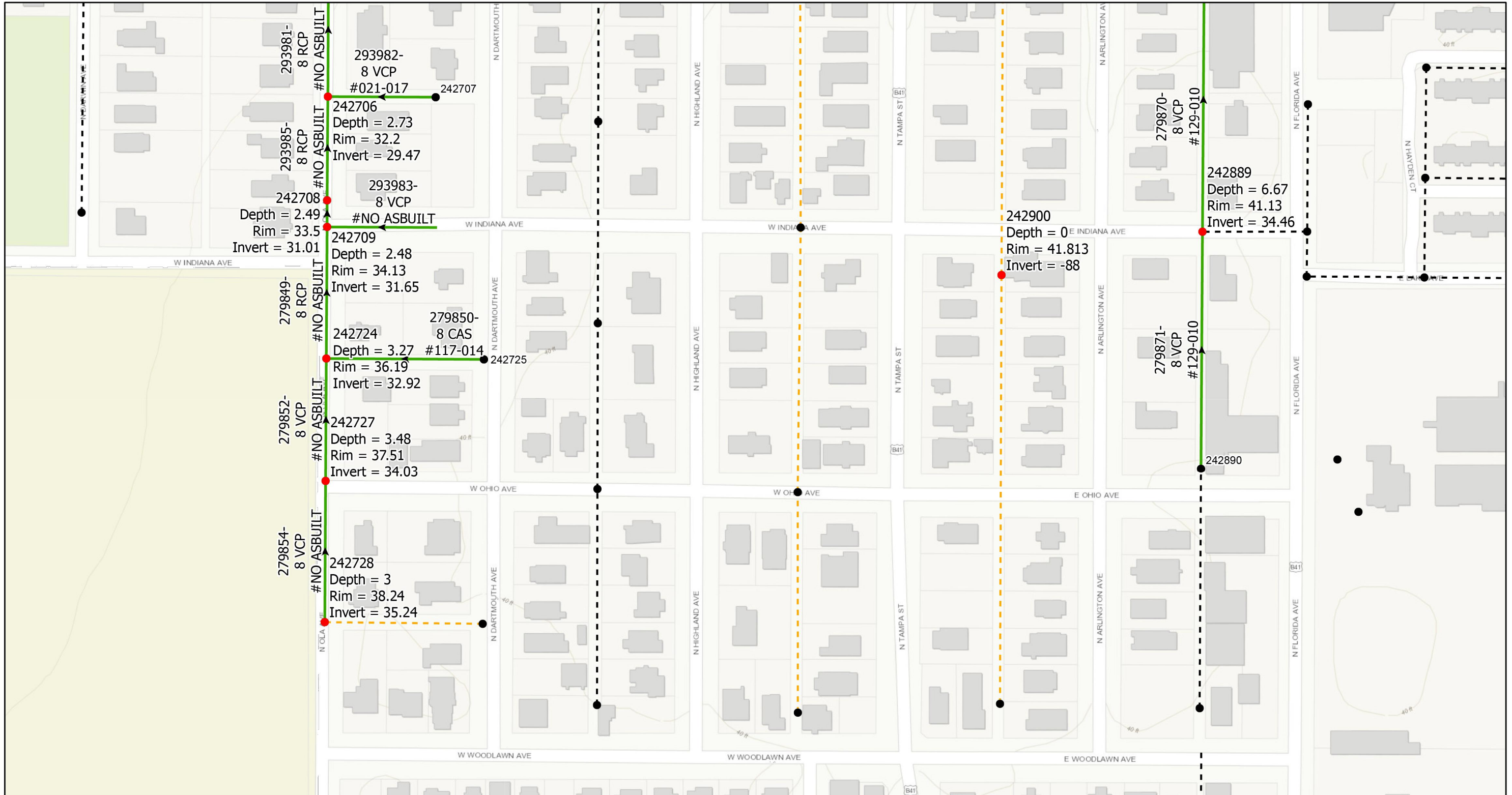
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 CKD:
 DATE:

CITY of TAMPA
 WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
 Rehabilitation By CIPP
 AREA MAP 1

SHEET
 4

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP lining\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WM.CTB



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

#	DATE	REVISIONS
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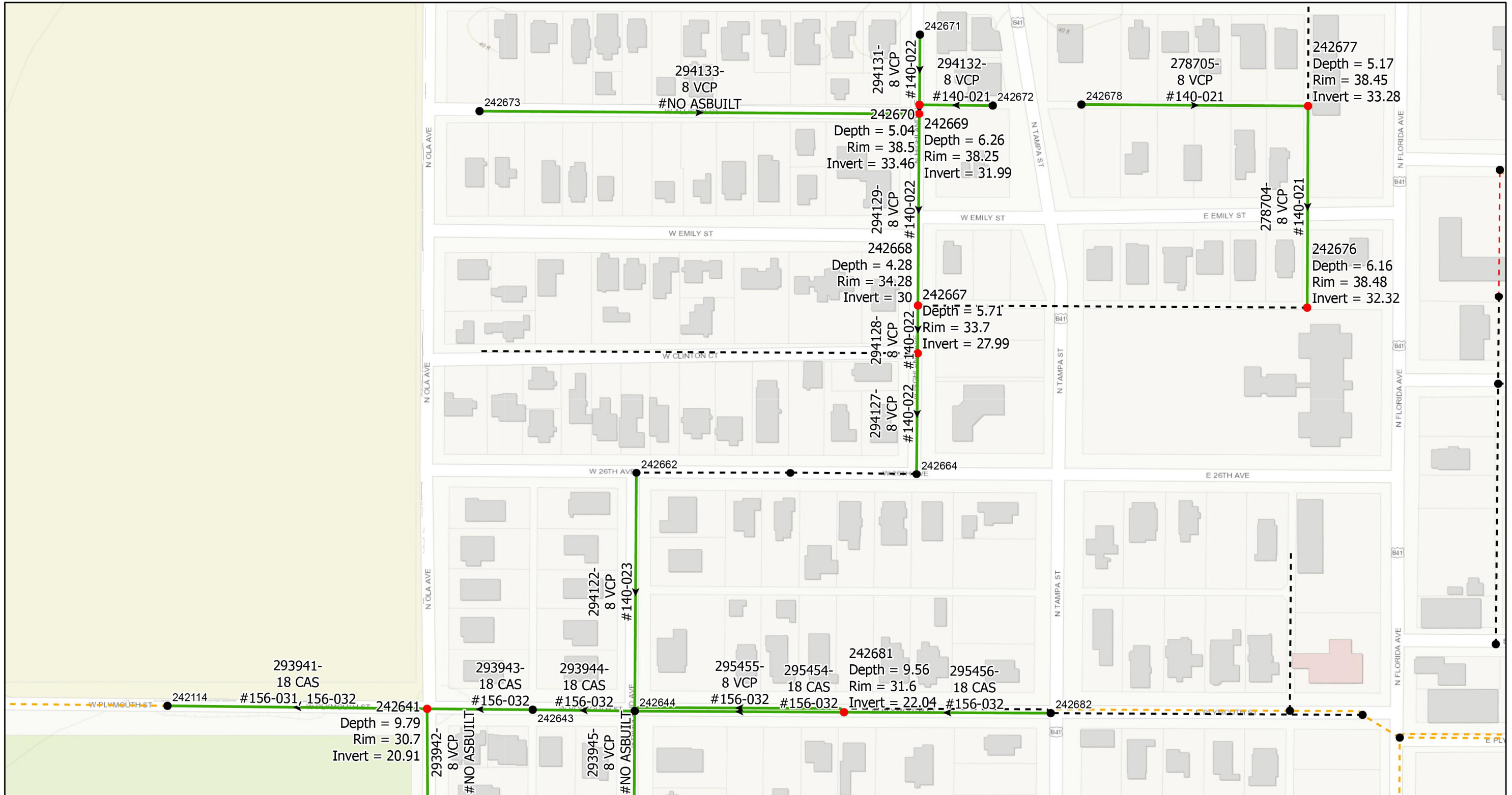
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 CKD:
 DATE:

CITY of TAMPA
 WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
 Rehabilitation By CIPP
 AREA MAP 2

SHEET
5

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP Lining\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WM.CTB



0 0.02 0.04 0.08 Miles

- Legend**
- Ex Manhole (no rehabilitation required)
 - Proposed Manhole Rehabilitation
 - Ex Wastewater (no rehabilitation required)
 - Proposed Lining Area
 - Ex CIPP Lined or PVC
 - Out of Service

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

#	DATE	REVISIONS
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DES: JK
 DRN: GP
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 DATE:

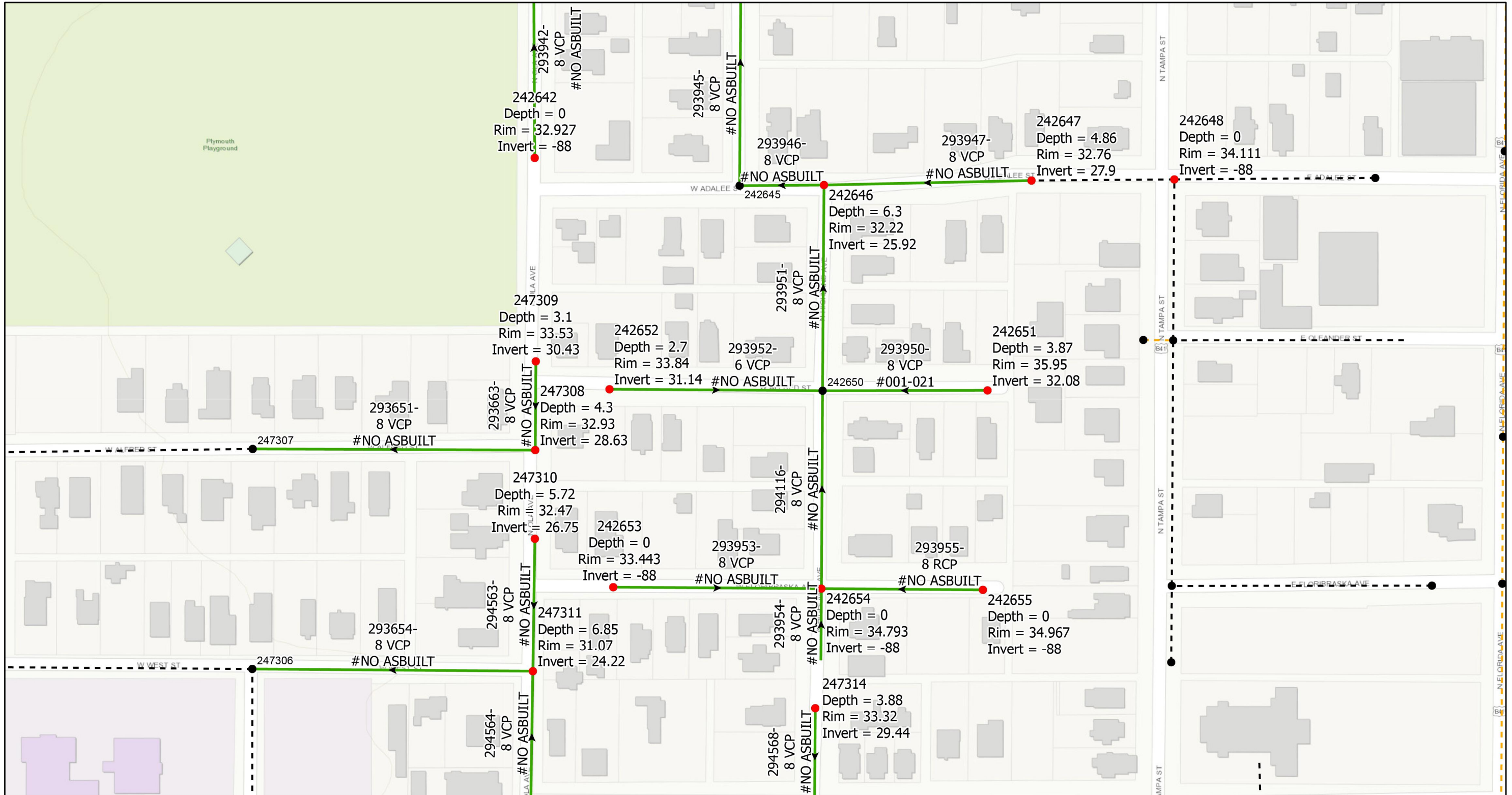
CITY of TAMPA
 WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
 Rehabilitation By CIPP
 AREA MAP 3

SHEET
6



User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP lining\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WM.CTB TOSHIBA_UNL_COLOR (NORTH WING)



- Legend**
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 - Proposed Manhole Rehabilitation
 - Ex Wastewater (no rehabilitation required)
 - Proposed Lining Area
 - Ex CIPP Lined or PVC
 - Out of Service



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

#	DATE	REVISIONS
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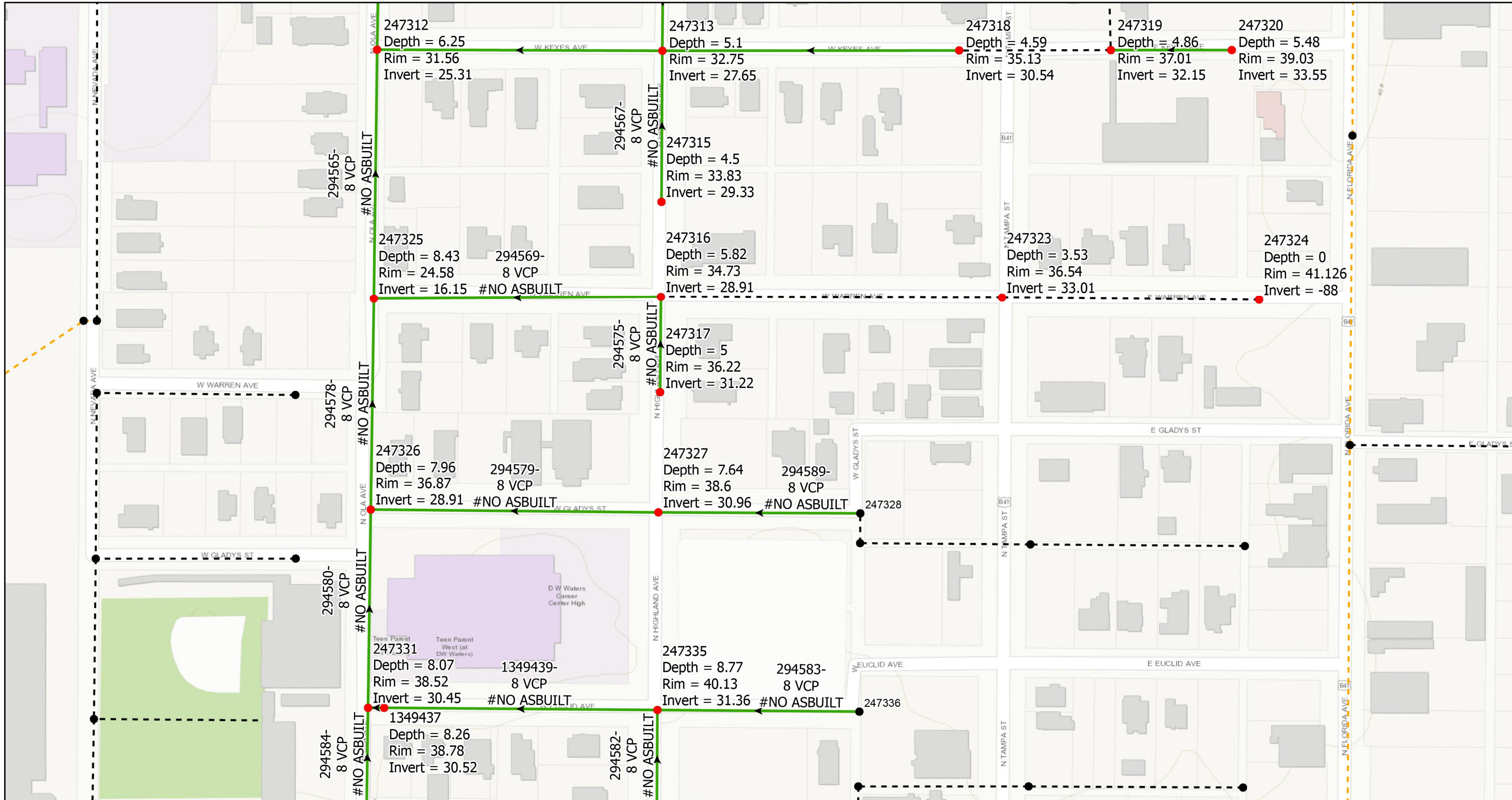
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 CKD:
 DATE:

CITY of TAMPA
 WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
 Rehabilitation By CIPP
 AREA MAP 4

SHEET
7

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP Lining\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WM.CTB



- Legend**
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 - Proposed Manhole Rehabilitation
 - Ex Wastewater (no rehabilitation required)
 - Proposed Lining Area
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 - Out of Service



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

#	DATE	REVISIONS
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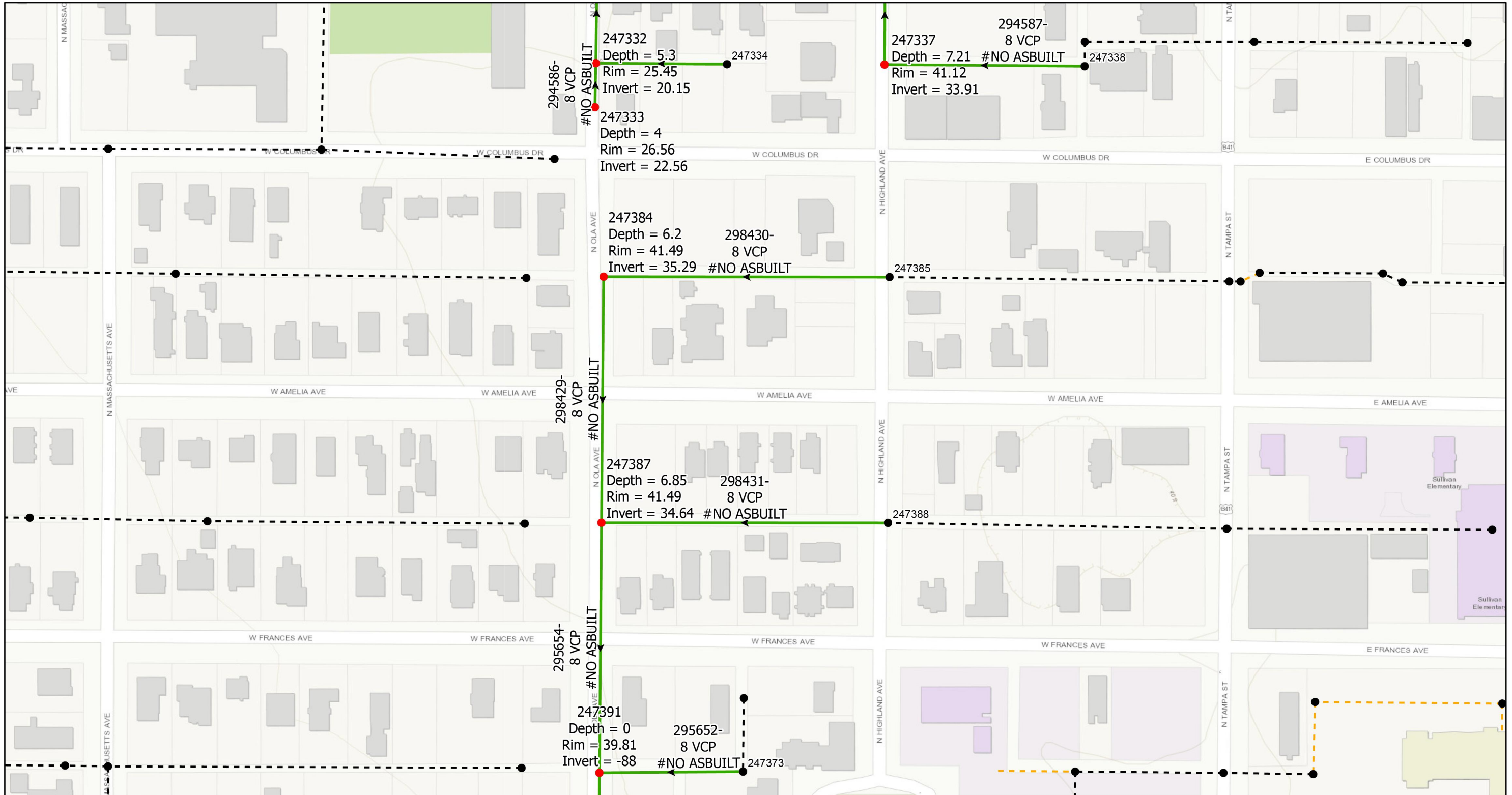
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CITY of TAMPA
 WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
 Rehabilitation By CIPP
 AREA MAP 5

SHEET
8

User: sst4 Drawing Name: \\sewer\Share\Wastewater Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP lining\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WM.CTB TOSHIBA_UNL_COLOR (NORTH WING)



0 0.02 0.04 0.08 Miles

- Legend**
- Ex Manhole (no rehabilitation required)
 - Proposed Manhole Rehabilitation
 - Ex Wastewater (no rehabilitation required)
 - Proposed Lining Area
 - Ex CIPP Lined or PVC
 - Out of Service



JACINTO CARLOS FERRAS, P.E. #49454
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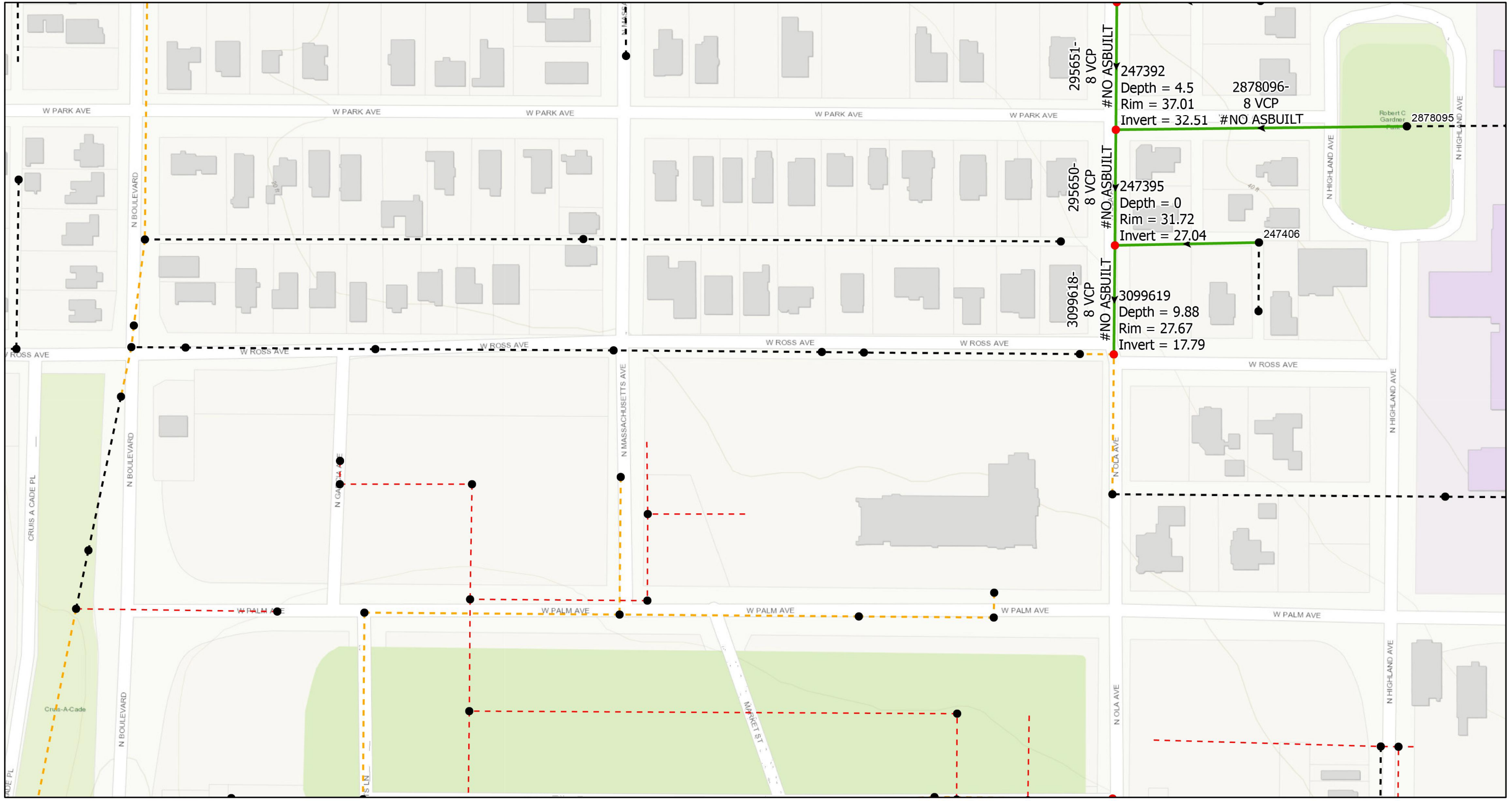
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 CKD:
 DATE:

CITY of TAMPA
 WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
 Rehabilitation By CIPP
 AREA MAP 6

SHEET
9

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP\lining\Drafting\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WM.CTB
 TOSHIBA_UNL_COLOR (NORTH WING)



0 0.02 0.04 0.08 Miles

- Legend**
- Ex Manhole (no rehabilitation required)
 - Proposed Manhole Rehabilitation
 - Ex Wastewater (no rehabilitation required)
 - Proposed Lining Area
 - Ex CIPP Lined or PVC
 - Out of Service



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

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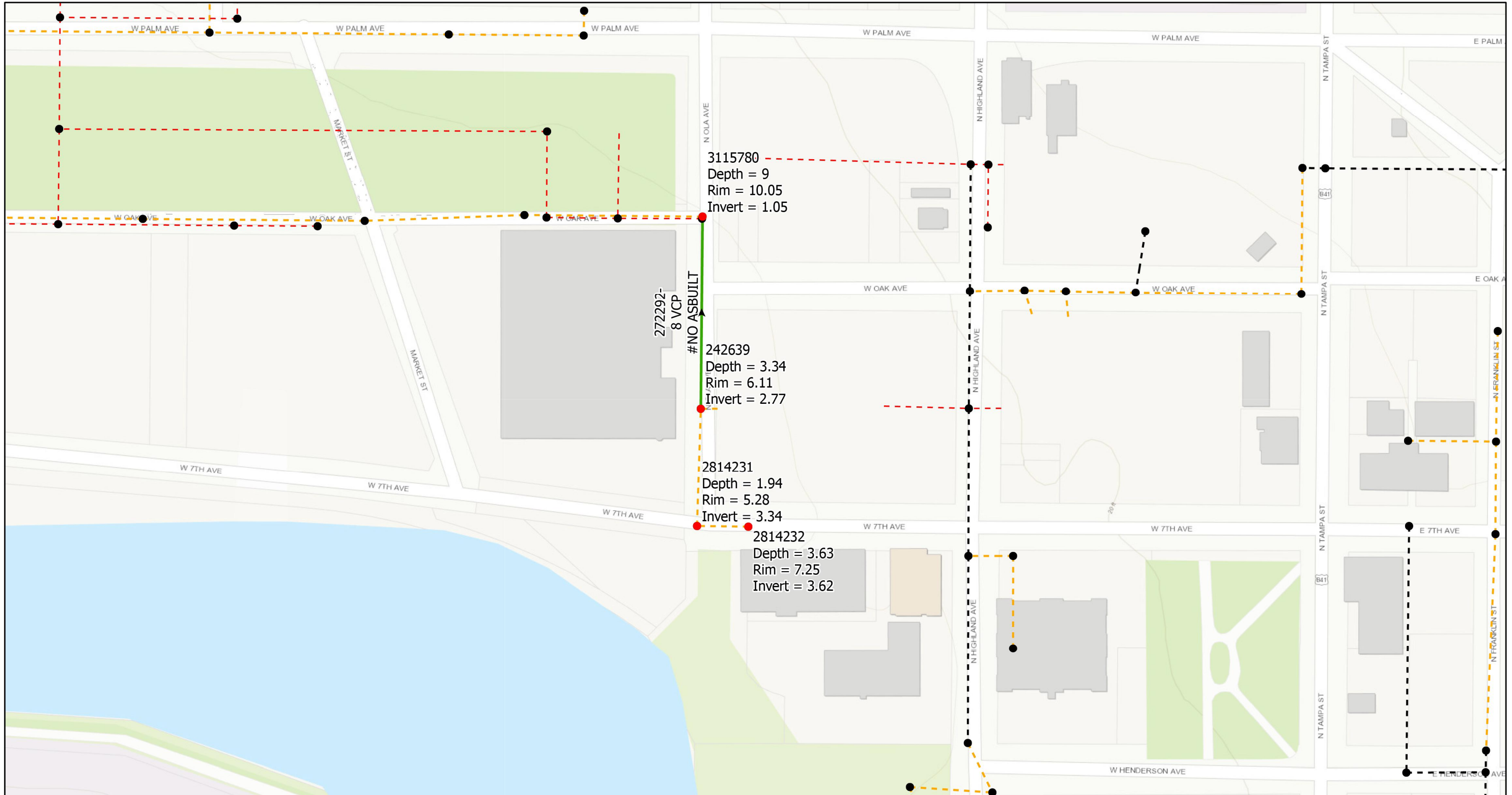
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CITY of TAMPA
 WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
 Rehabilitation By CIPP
 AREA MAP 7

SHEET
10

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP Lining\DWG\OLA AVE CIPP.dwg
 Layout: Sep 12, 2023 - 3:01pm CTB - WM.CTB



0 0.02 0.04 0.08 Miles

- Legend**
- Ex Manhole (no rehabilitation required)
 - Ex Wastewater (no rehabilitation required)
 - Ex CIPP Lined or PVC
 - Out of Service
 - Proposed Manhole Rehabilitation
 - Proposed Lining Area



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

#	DATE	REVISIONS
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2		
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DES: JK
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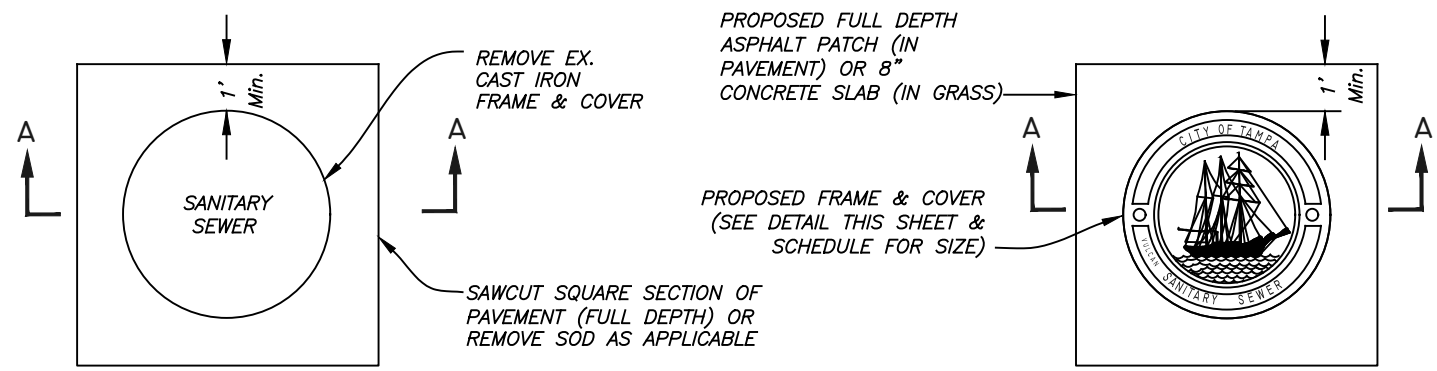
CITY of TAMPA
 WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
 Rehabilitation By CIPP
 AREA MAP 8

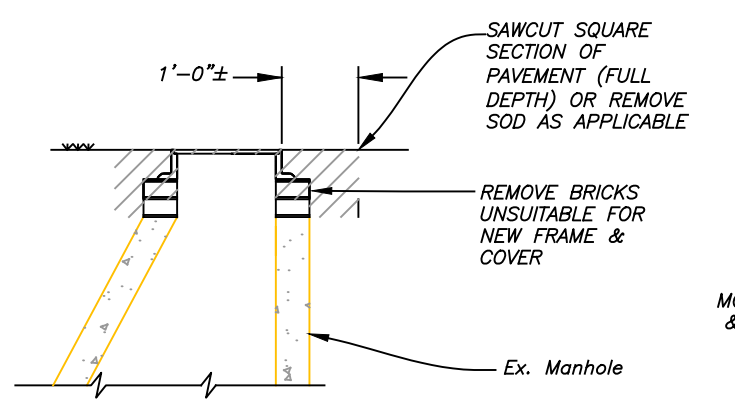
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11

ASPHALT RESTORATION NOTE

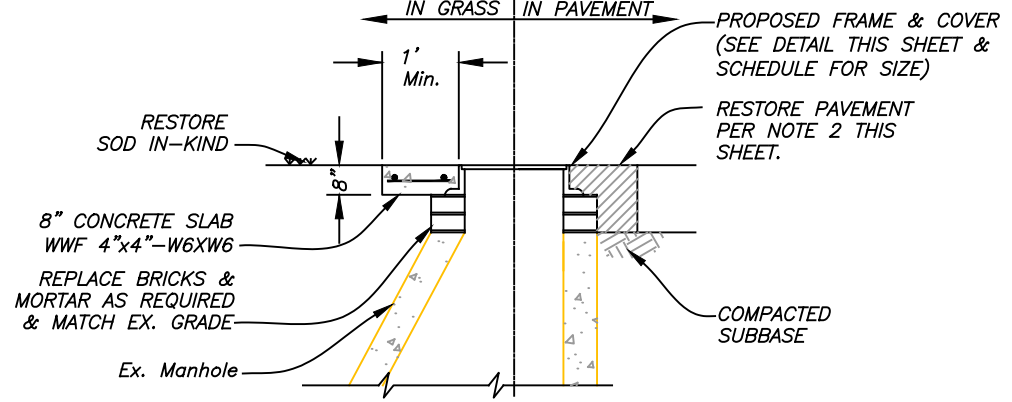
PAVEMENT RESTORATION SHALL CONSIST OF 12" PERMANENT BASE (CRUSHED CONCRETE) AND 2" PERMANENT ASPHALT SUPERPAVE PAVEMENT, UNLESS OTHERWISE NOTED. IF LOCATED IN D.O.T. OR HILLSBOROUGH COUNTY ROW, AN ADDITIONAL 1 1/2" SUPER PAVE ASPHALT IS REQUIRED.



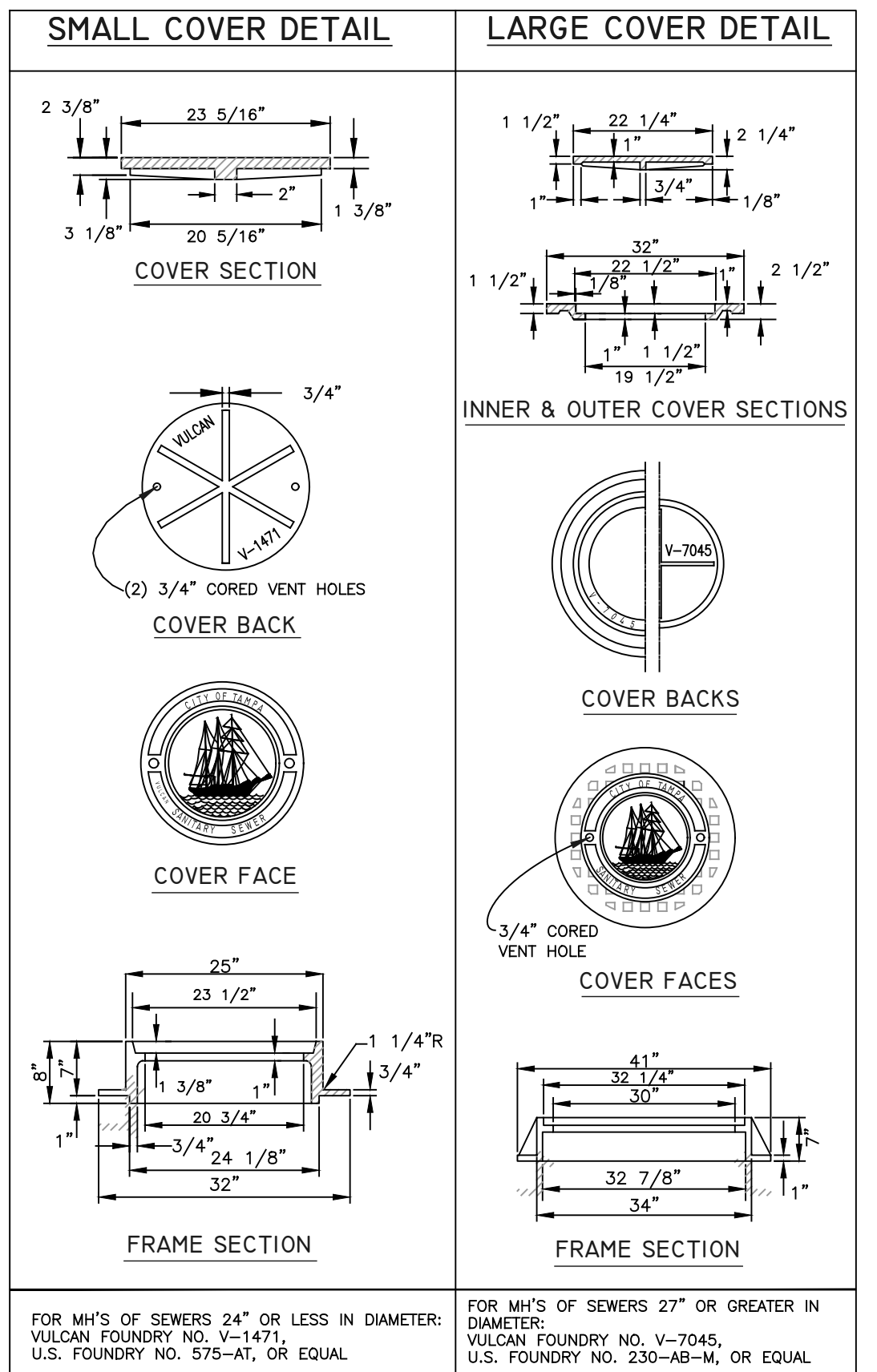
PLAN



**SECTION A-A
REMOVAL DETAIL**



**SECTION B-B
REPLACEMENT
DETAIL**



FOR MH'S OF SEWERS 24" OR LESS IN DIAMETER:
VULCAN FOUNDRY NO. V-1471,
U.S. FOUNDRY NO. 575-AT, OR EQUAL

FOR MH'S OF SEWERS 27" OR GREATER IN DIAMETER:
VULCAN FOUNDRY NO. V-7045,
U.S. FOUNDRY NO. 230-AB-M, OR EQUAL

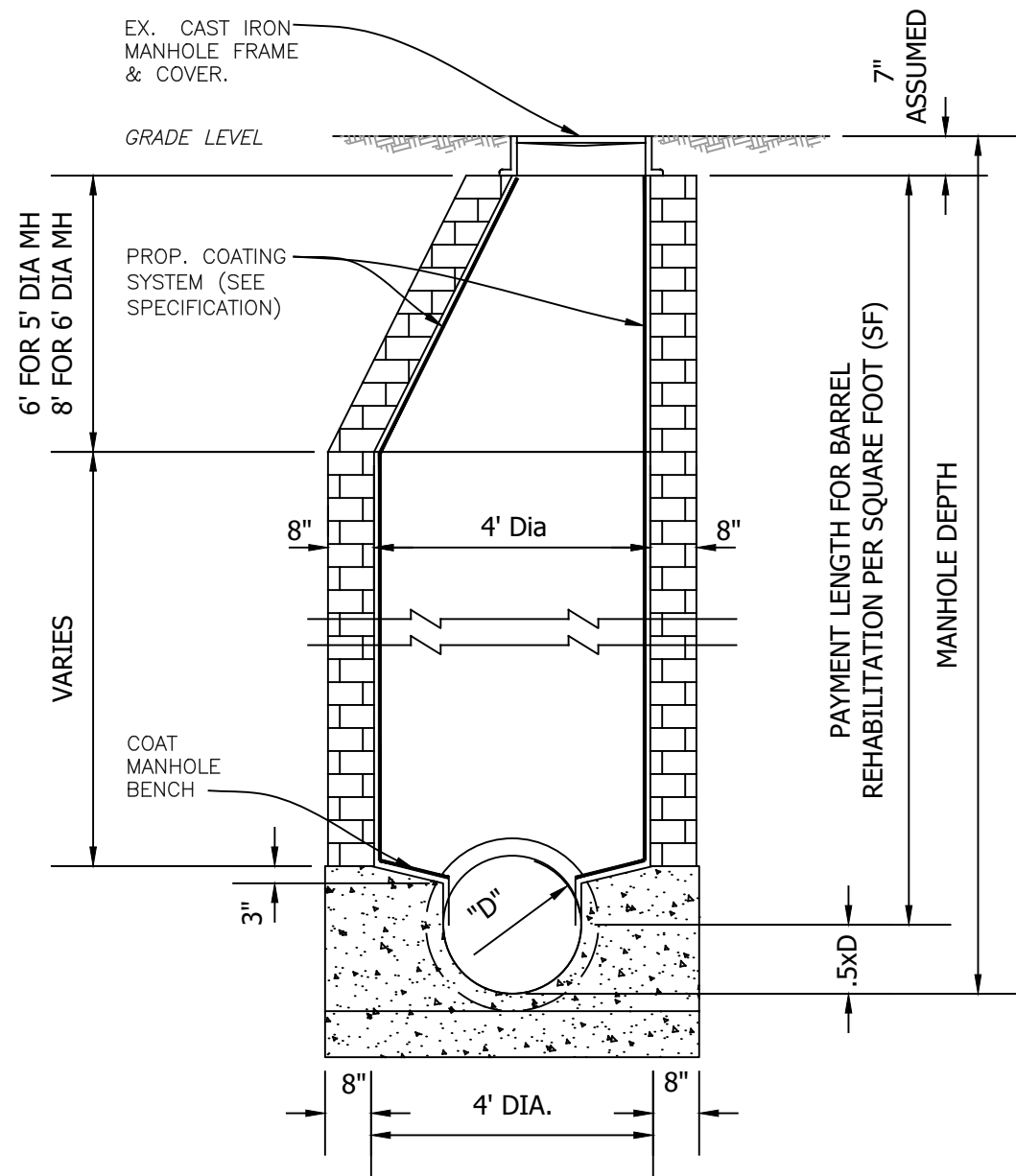
HEAVY DUTY CAST IRON MANHOLE FRAME & COVER DETAILS

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP lining\Drafting\DWG\OLA AVE CIPP.dwg Layout- Sep 12, 2023 - 3:01pm

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	#	DATE	REVISIONS	DES: JK	CITY of TAMPA WASTEWATER DEPARTMENT	Ola Ave - MLK Blvd To 7th Ave Collection System Rehabilitation By CIPP MANHOLE DETAIL	SHEET 12
	1			DRN: GP			
	2			CKD:			
	3			DATE:			

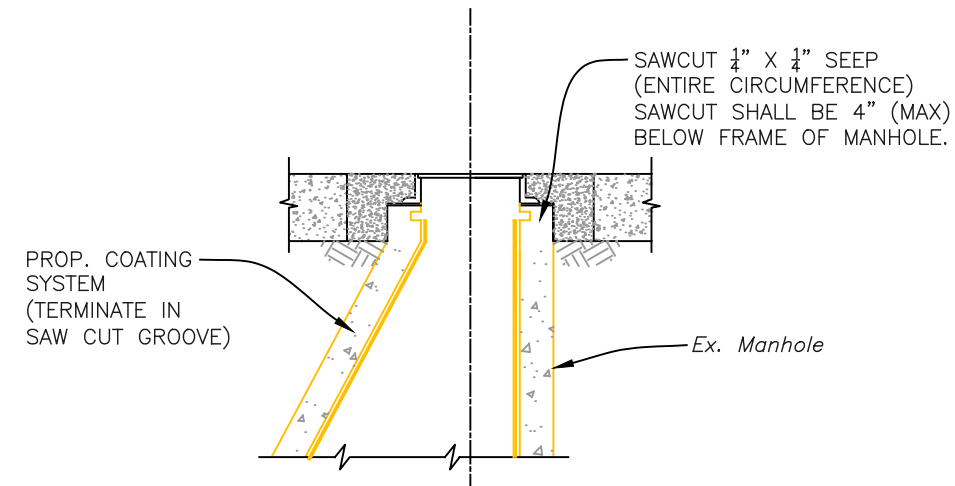
NOTES

1. REMOVE ALL DEBRIS AND LOOSE BRICKS FROM THE TOP OF THE BENCH.
2. INSTALL A MINIMUM 1" THICK CLASS "D" CONCRETE OVER EXISTING BENCH. ALLOW CONCRETE TO CURE (MIN. 24 HRS. UNLESS OTHERWISE APPROVED BY THE ENGINEER).
3. OVERLAY BENCHES WITH PROPOSED COATING SYSTEM.
4. PROVIDE 6" COATING THICKNESS TRANSITION. PAYMENT FOR THIS ITEM IS INCLUDED IN THE BENCH RESTORATION.



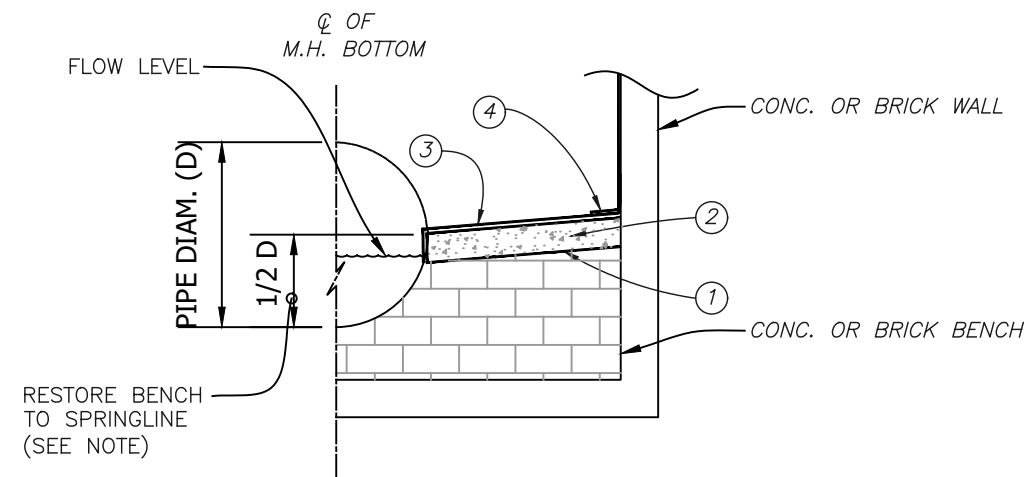
BRICK OR CONCRETE MANHOLE (TYPICAL)

SCALE: N.T.S.



COATING TERMINATION DETAIL

SCALE: N.T.S.



TYPICAL MANHOLE BENCH RESTORATION DETAIL

SCALE: N.T.S.

User: sst4 Drawing Name: \\sewer\sewer\Projects\Ola Ave between MLK and 7th Ave Collection System Rehabilitation by CIPP lining\Drafting\DWG\OLA AVE CIPP.dwg Layout- Sep 12, 2023 - 3:01pm

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

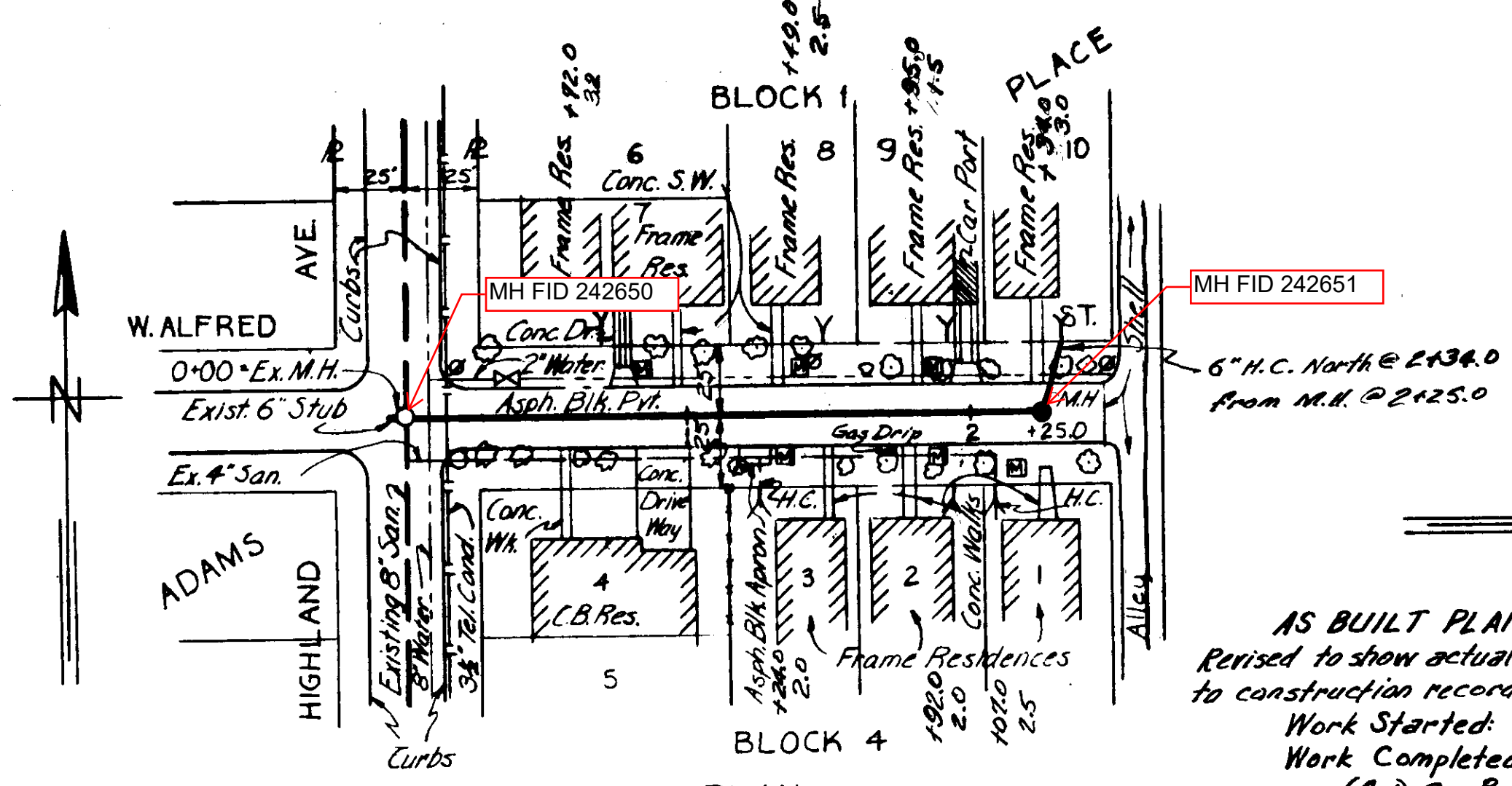
CITY of TAMPA
WASTEWATER DEPARTMENT

Ola Ave - MLK Blvd To 7th Ave Collection System
Rehabilitation By CIPP

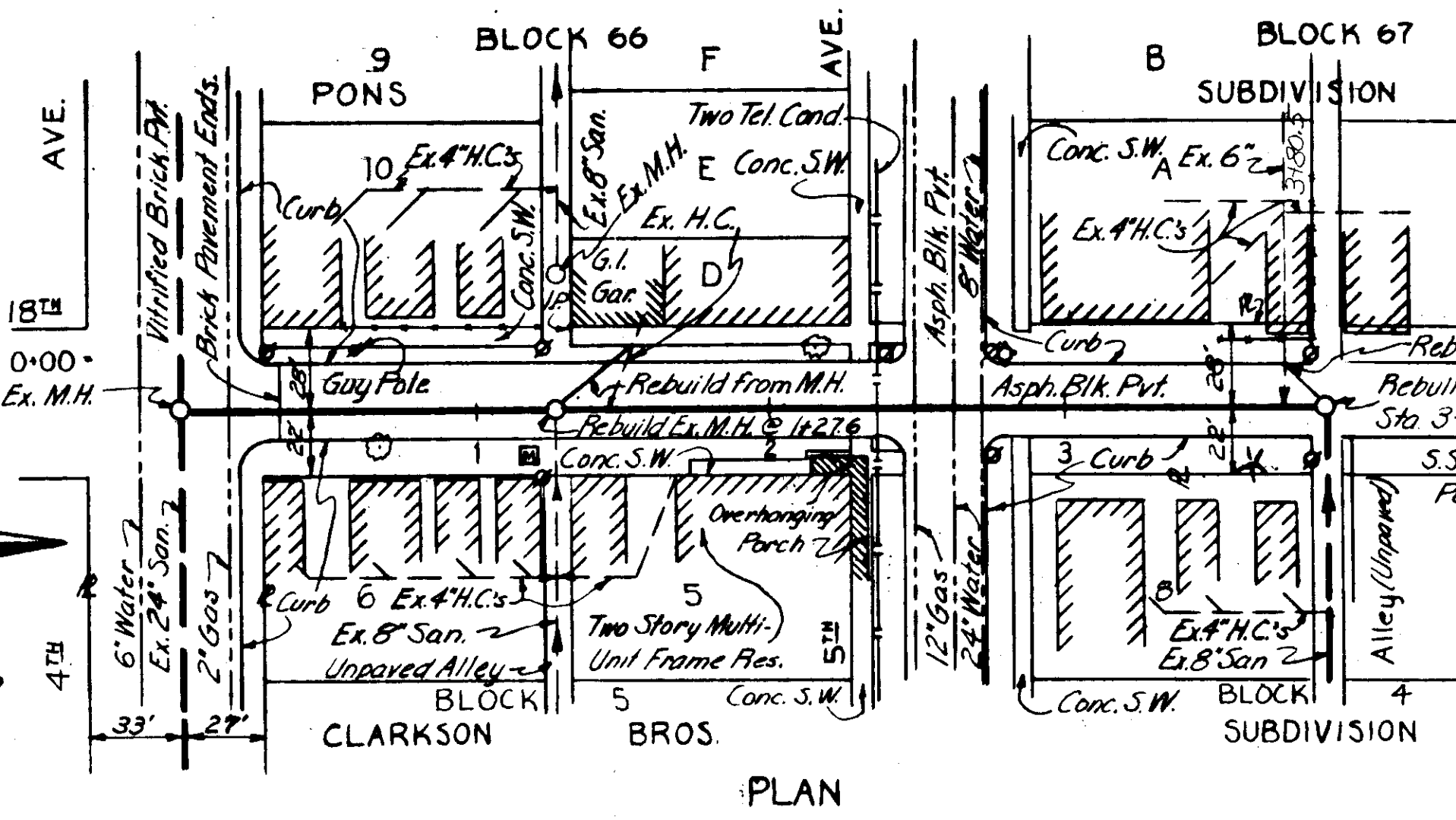
MANHOLE DETAILS

SHEET

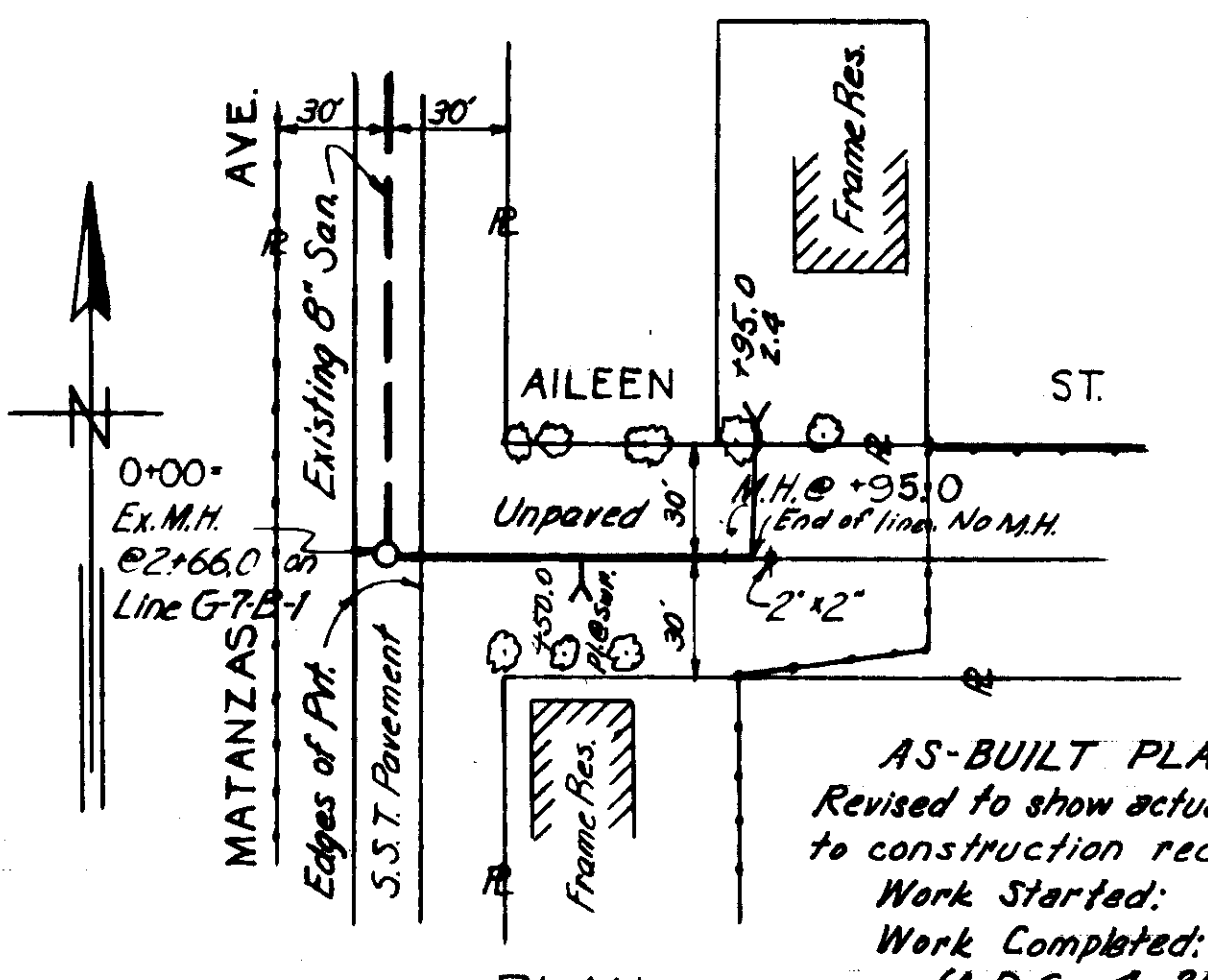
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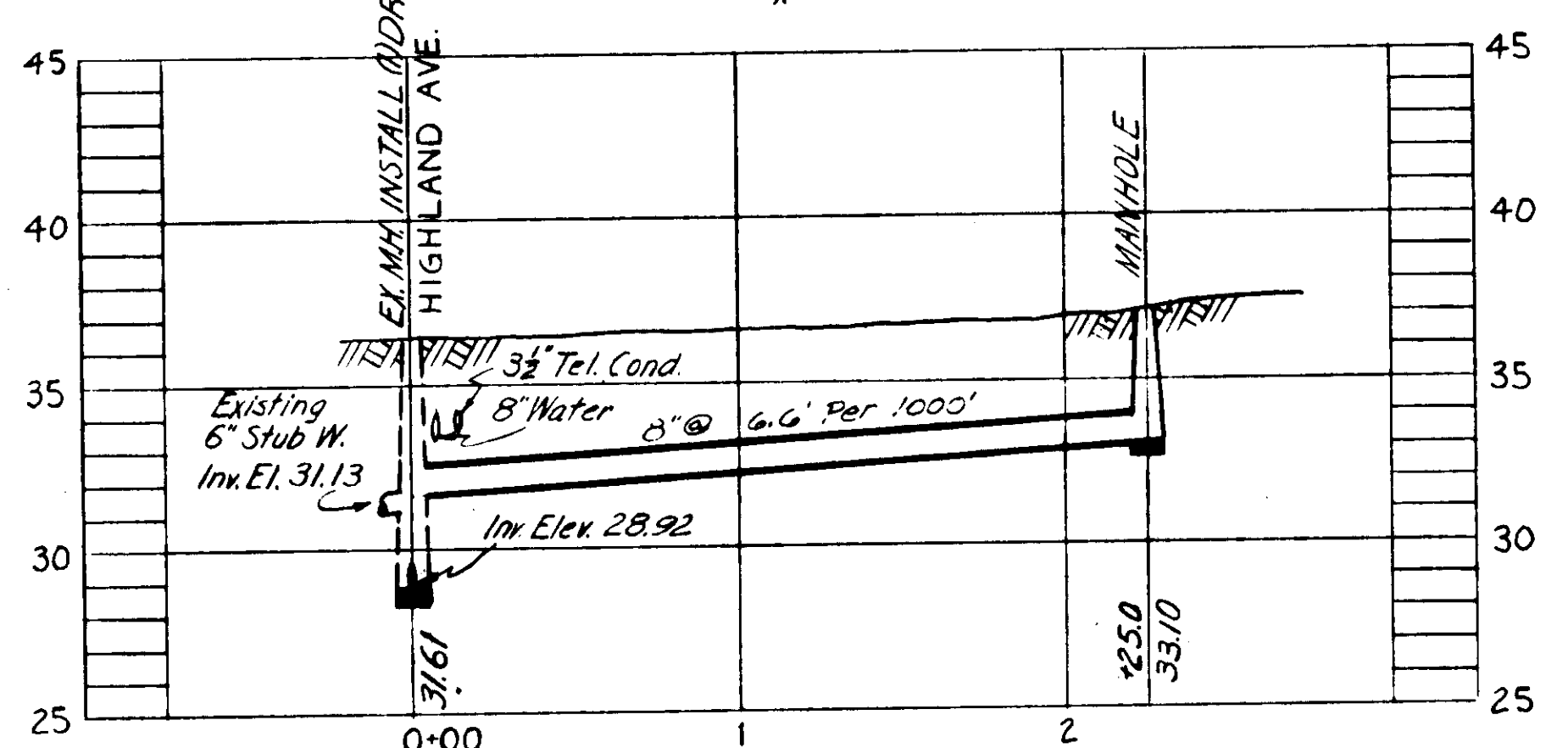
AS-BUILT PLAN (Wx-25)
 Revised to show actual conditions according to construction records as of: 8-1-55.
 Work Started: 7-15-55
 Work Completed: 8-1-55.
 (A.D.C. 8-26-55)



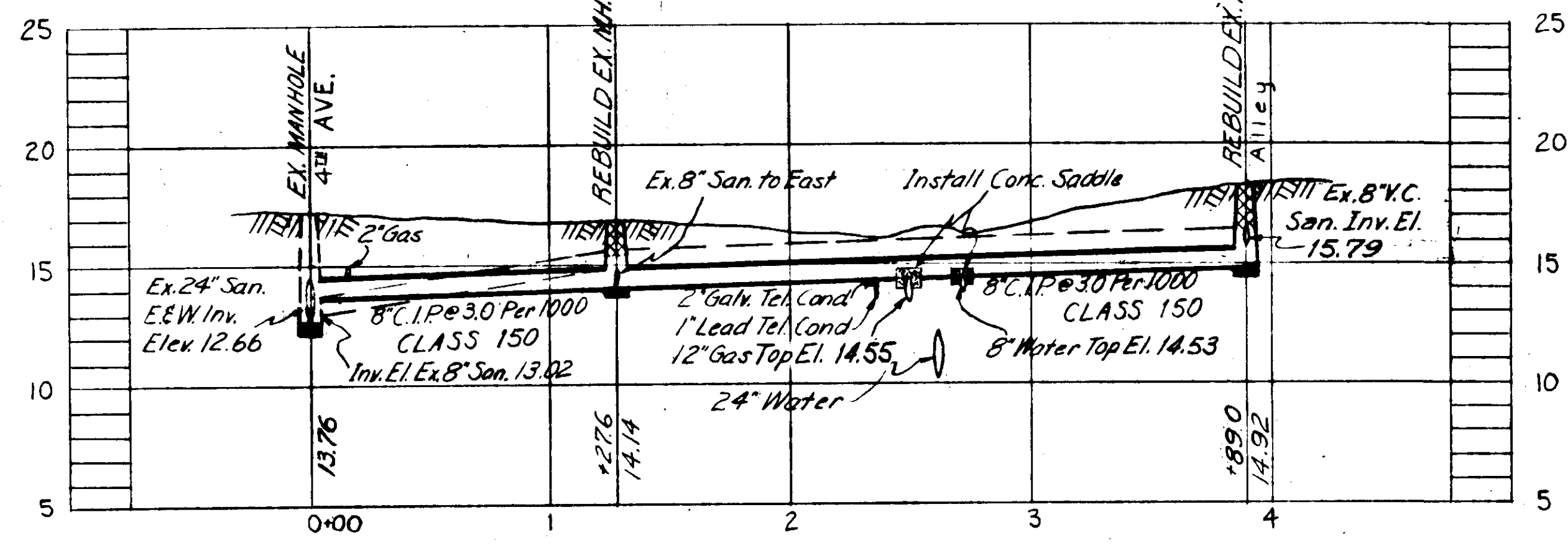
AS-BUILT PLAN (Mx-10)
 Work Started 3/1/57
 Work Completed 3/10/57



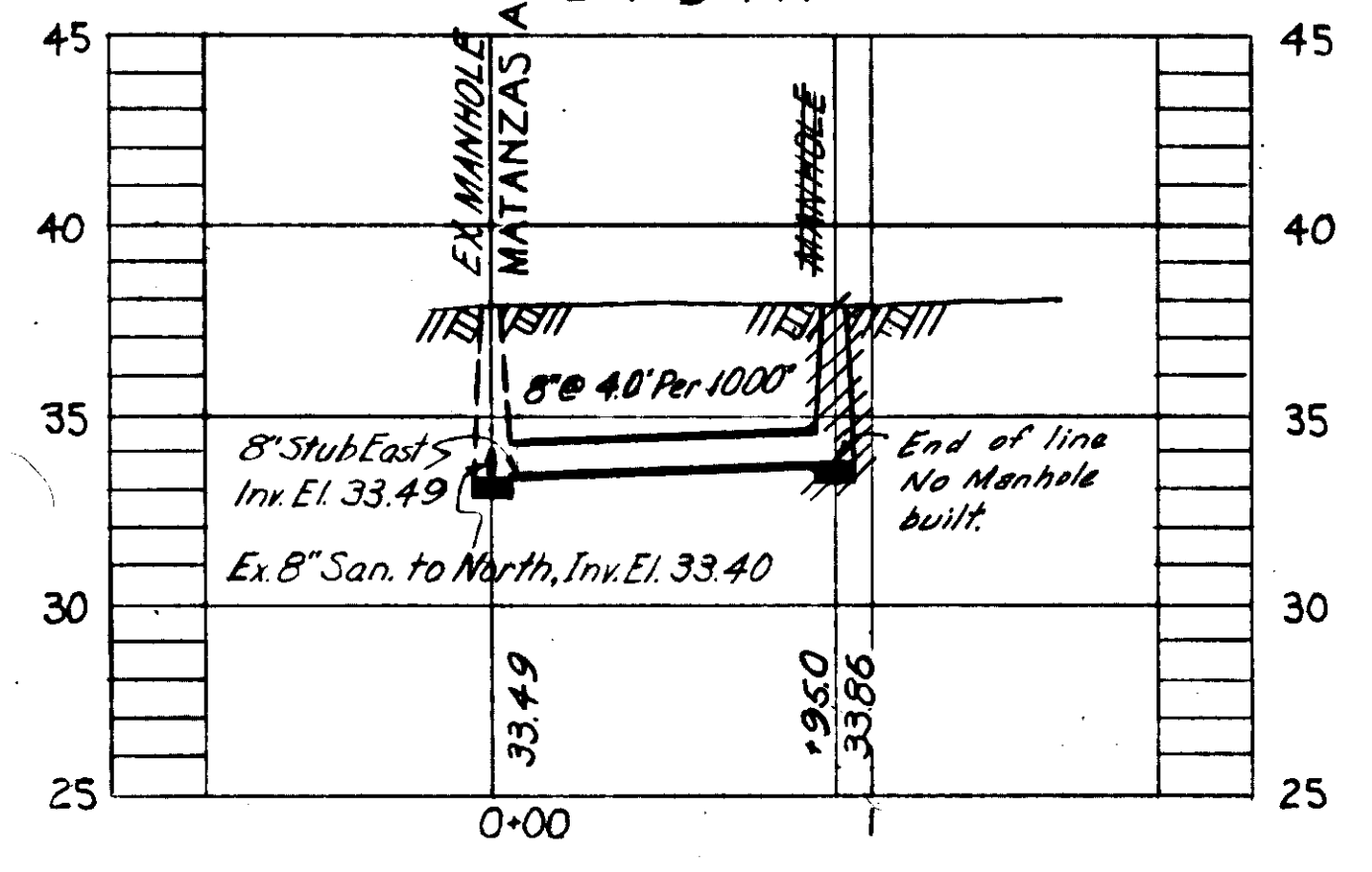
AS-BUILT PLAN (G-7-B-1-A)
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 Work Started: 6-1-54
 Work Completed: 6-2-54.
 (A.D.C. 4-27-55)



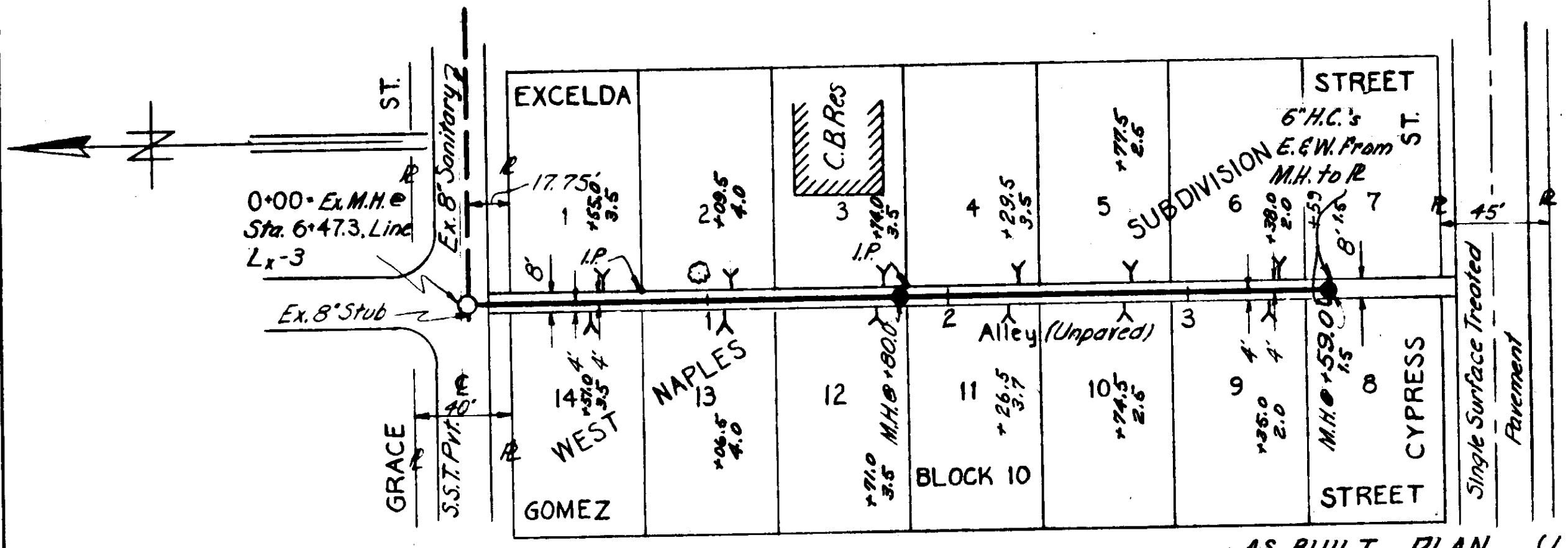
PROFILE Wx-25



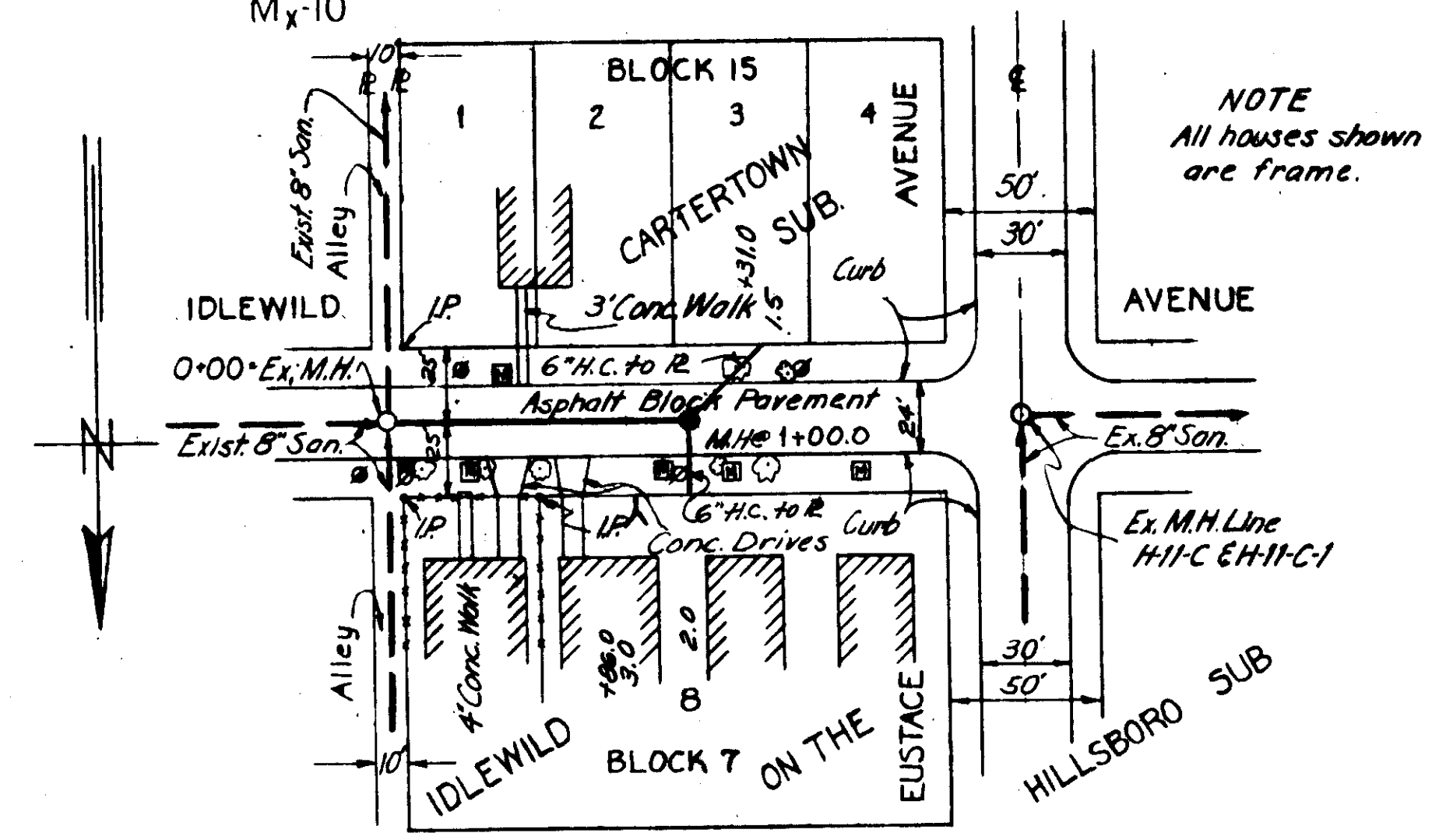
PROFILE Mx-10



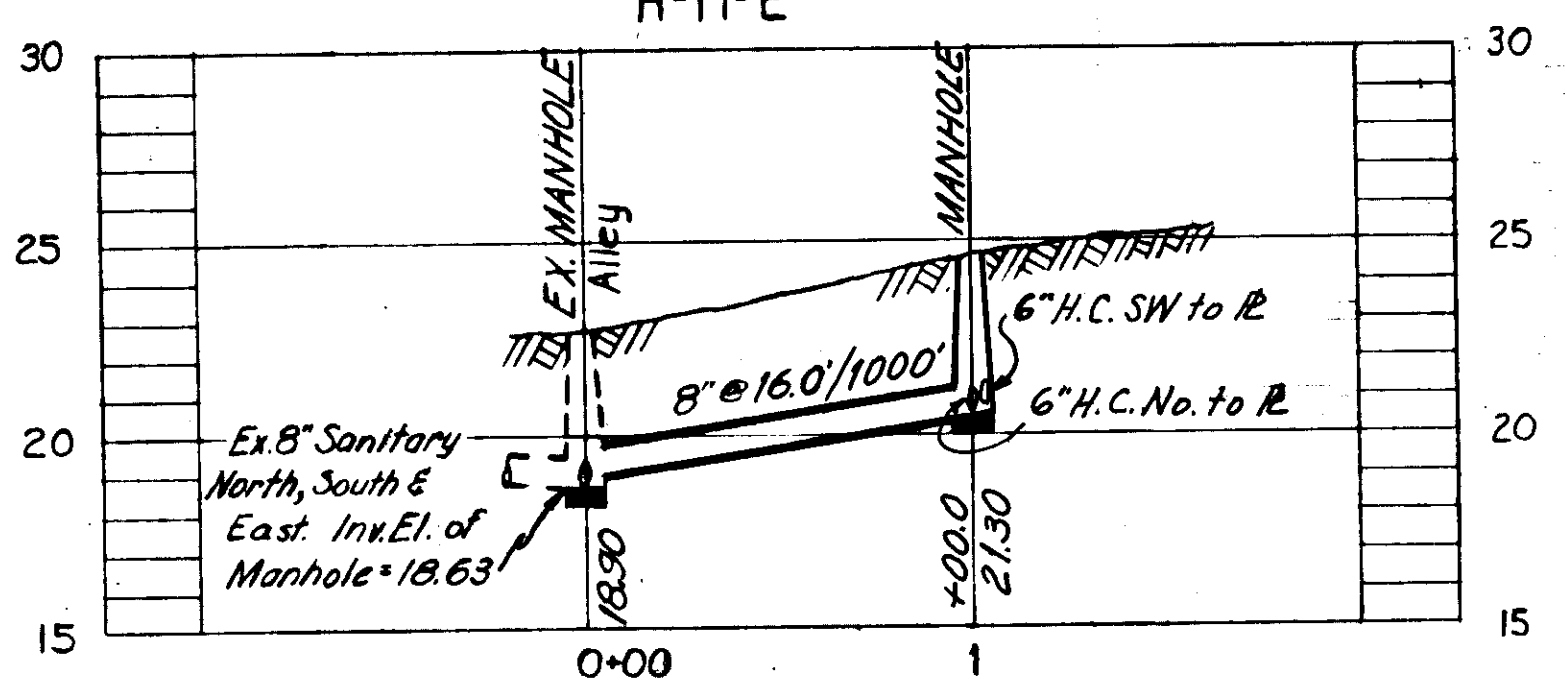
PROFILE G-7-B-1-A



AS-BUILT PLAN (Lx-3-A)
 Revised to show actual conditions according to construction records as of: 1-13-55.
 Work Started: 1-7-55
 Work Completed: 1-13-55.
 (A.D.C. 4-27-55)



PLAN H-11-E



PROFILE H-11-E

AS-BUILT PLAN (H-11-E)
 Revised to show actual conditions according to construction records as of: 8-20-54.
 Work Started: 8-18-54
 Work Completed: 8-20-54.
 (A.D.C. 4-27-55)

DEPT. OF PUBLIC WORKS
 BUREAU OF SANITARY SEWERS

PROFILE Lx-3-A

CITY OF TAMPA, FLORIDA
 RENEWAL AND REPLACEMENT FUND
 SEWER EXTENSIONS IN AREAS 2, 9, 11, CENTRAL & YBOR CITY

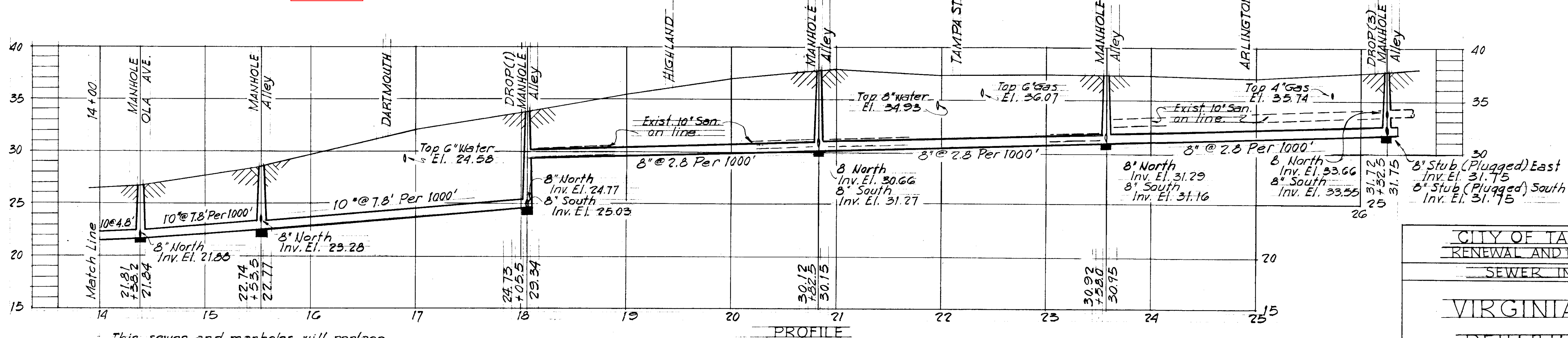
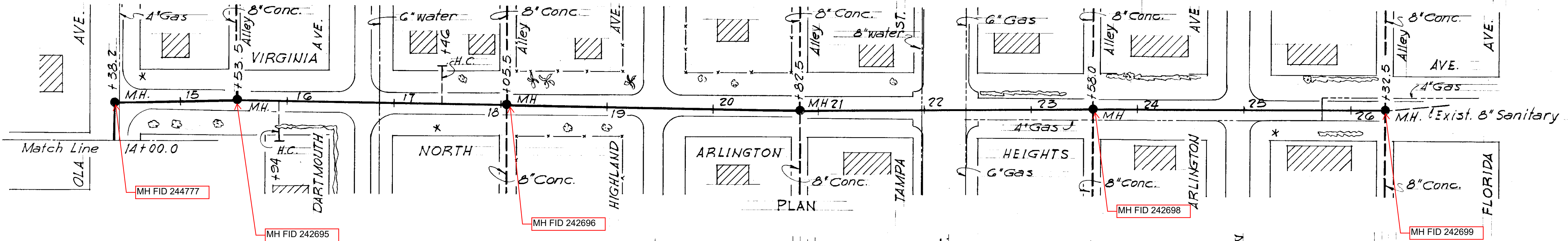
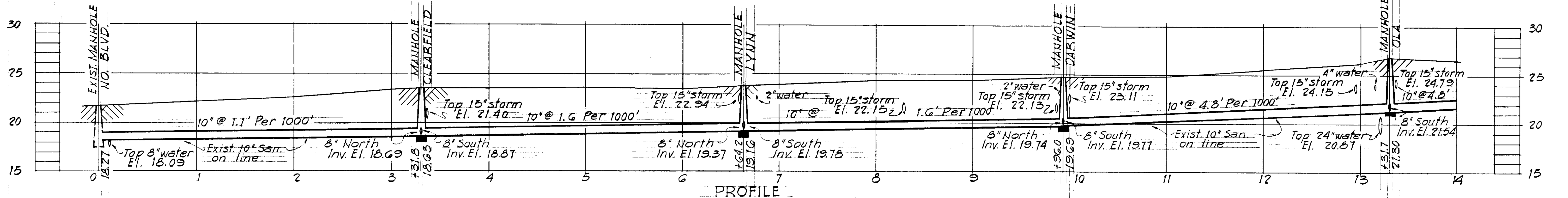
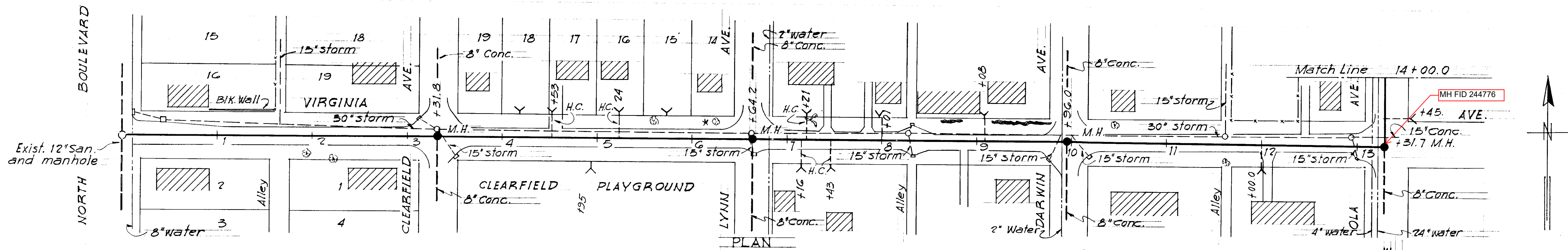
Wx-25, Mx-10, G-7-B-1-A,
 Lx-3-A & H-11-E

R&R FORCE ACCOUNT NO 3
 SUBMITTED: [Signature]
 APPROVED: Donald Newton 2-2-55
 GREELEY AND HANSEN, ENGINEERS

DES: A.D.C.
 DR: A.D.C.
 CKD: K.E.D.
 DATE: AUG. 1954

SCALE
 0 50 100
 1" = 50'

SHEET
 3
 OF 4



This sewer and manholes will replace the existing sewer and manholes in alignment and location, the grades will change as shown. House connections will be replaced and added as shown.

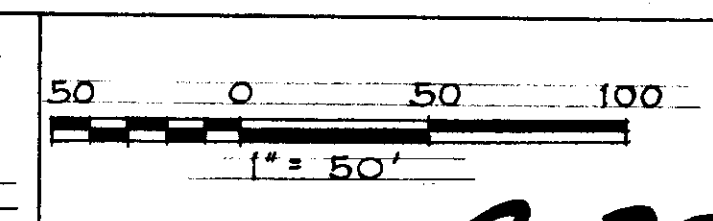
WO 1088

CITY OF TAMPA FLORIDA
RENEWAL AND REPLACEMENT FUND
SEWER IMPROVEMENTS

VIRGINIA AVENUE
REHABILITATION

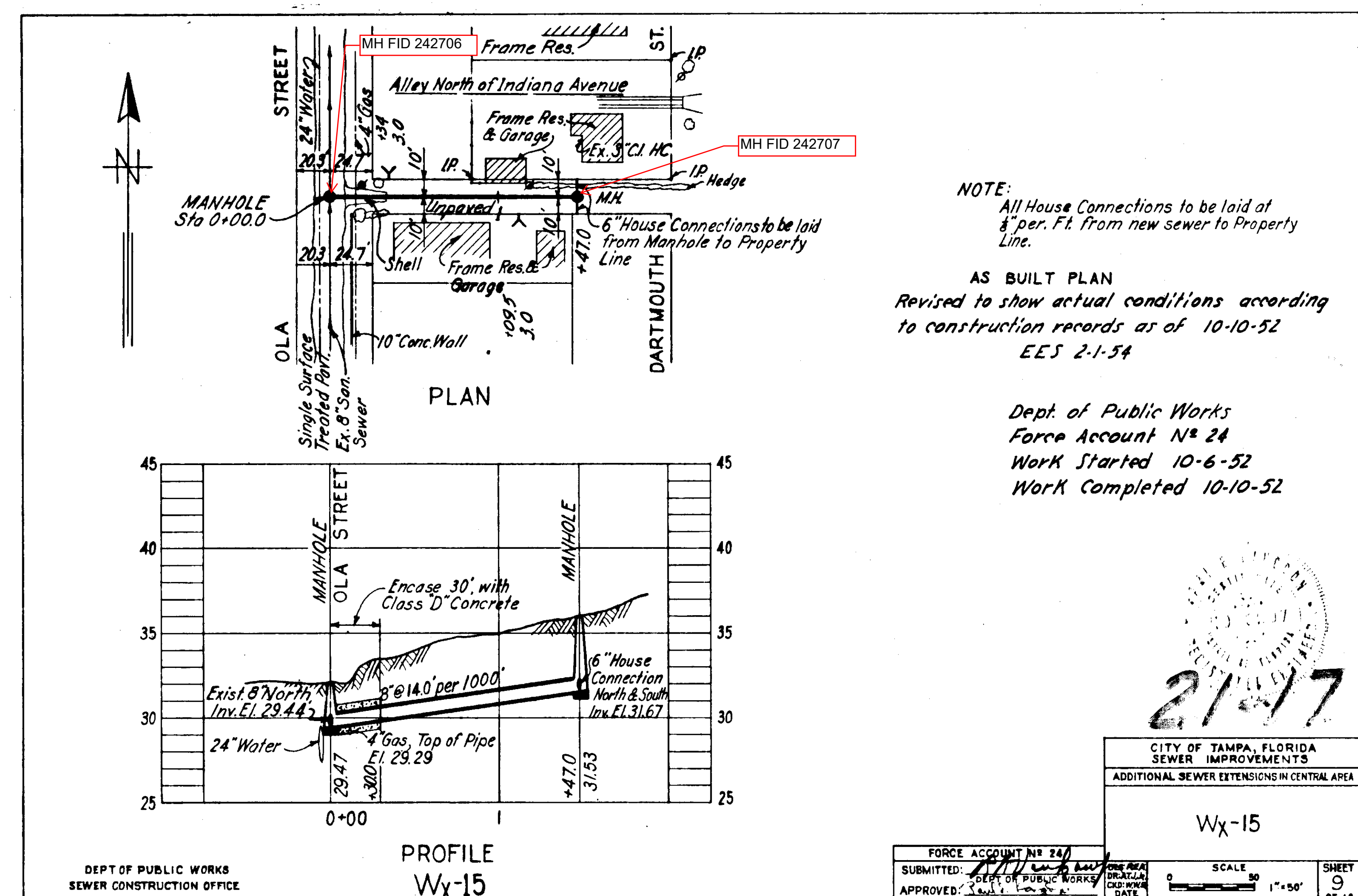
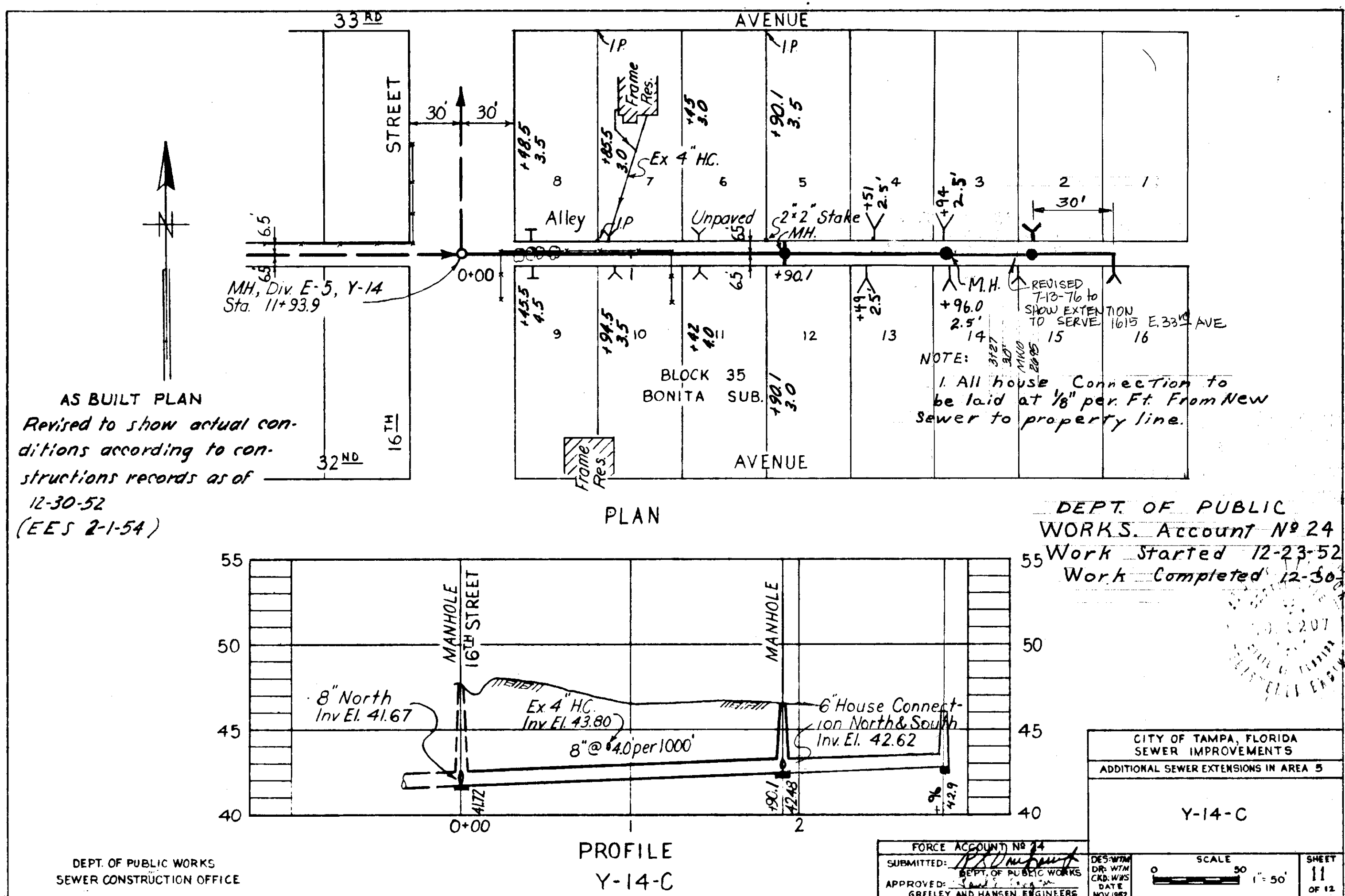
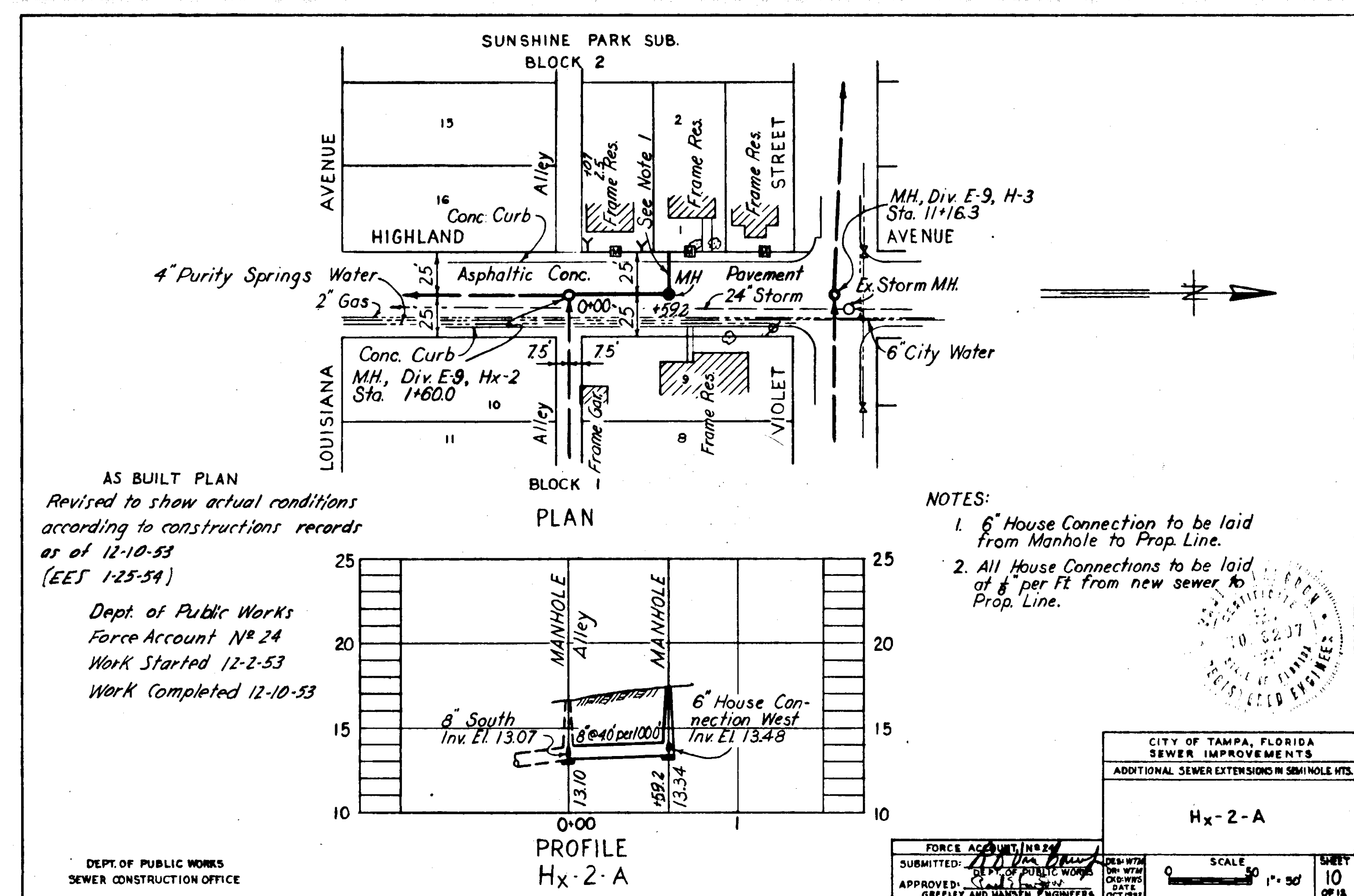
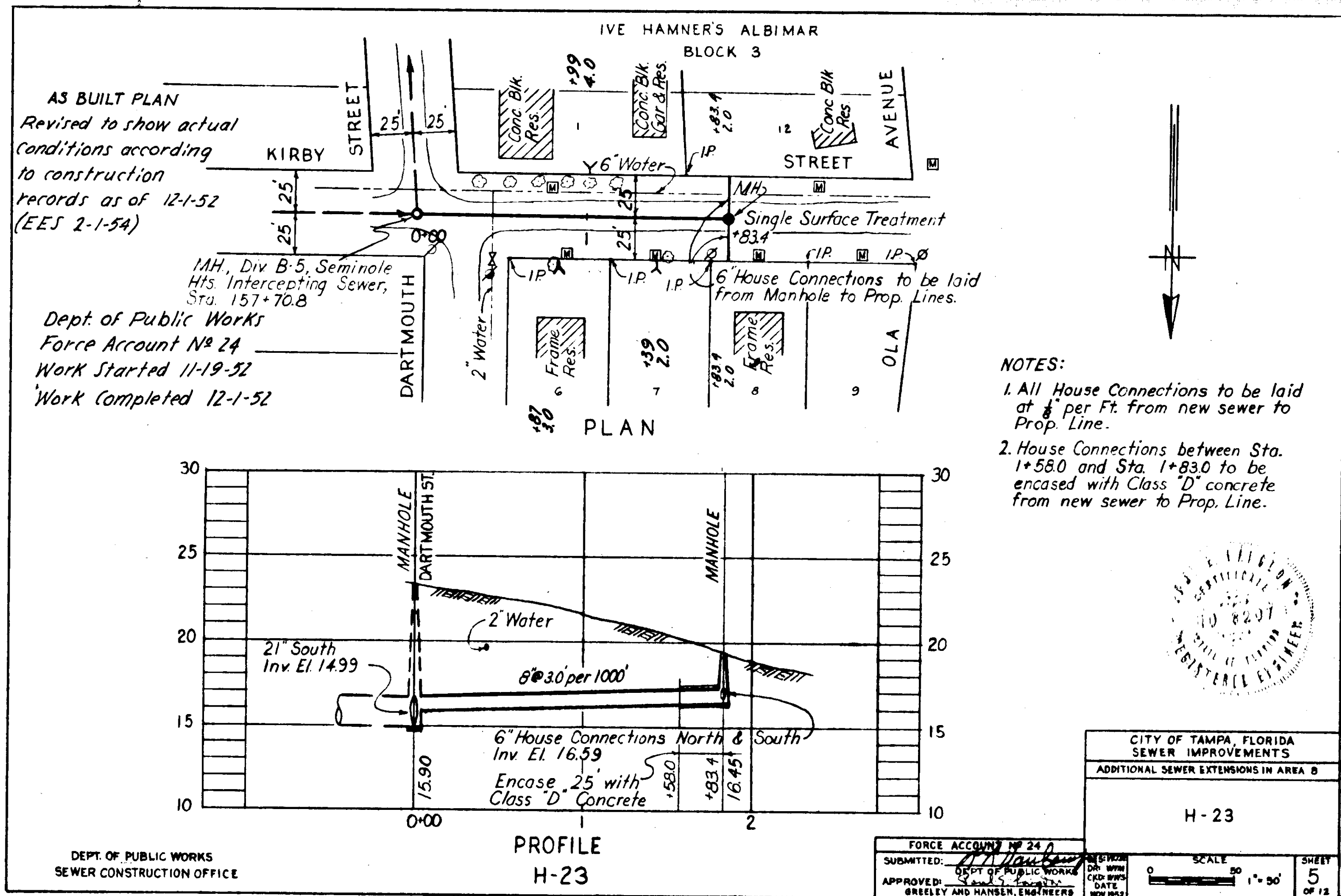
R&R FORCE ACCOUNT NO 22
SUBMITTED: *[Signature]*
BUREAU OF SANITARY SEWERS.
APPROVED: *[Signature]*
Greeley and Hansen Engineers

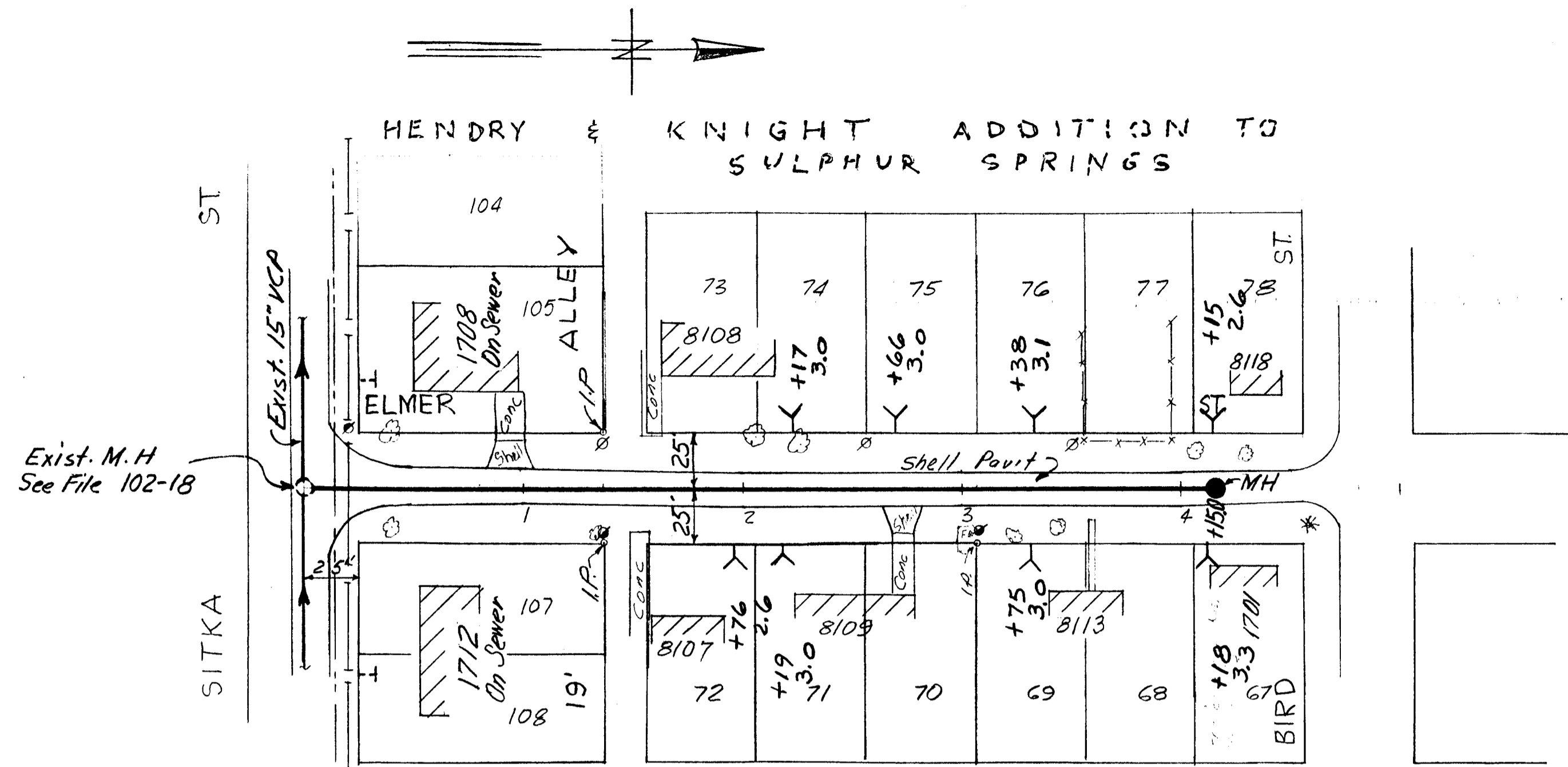
DES: ECA
DR: ECA
CKD: REF
DATE: MAR 1960



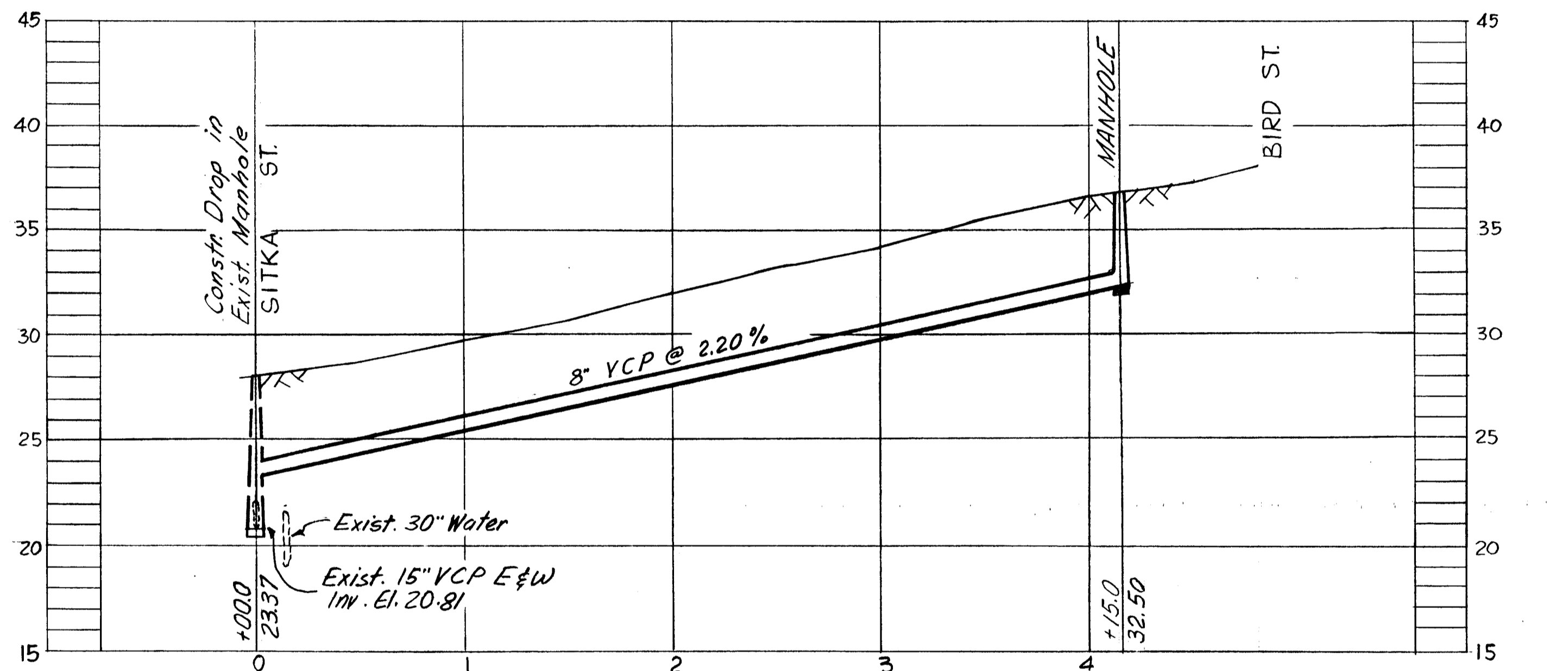
SHEET
2
OF 3

2-23



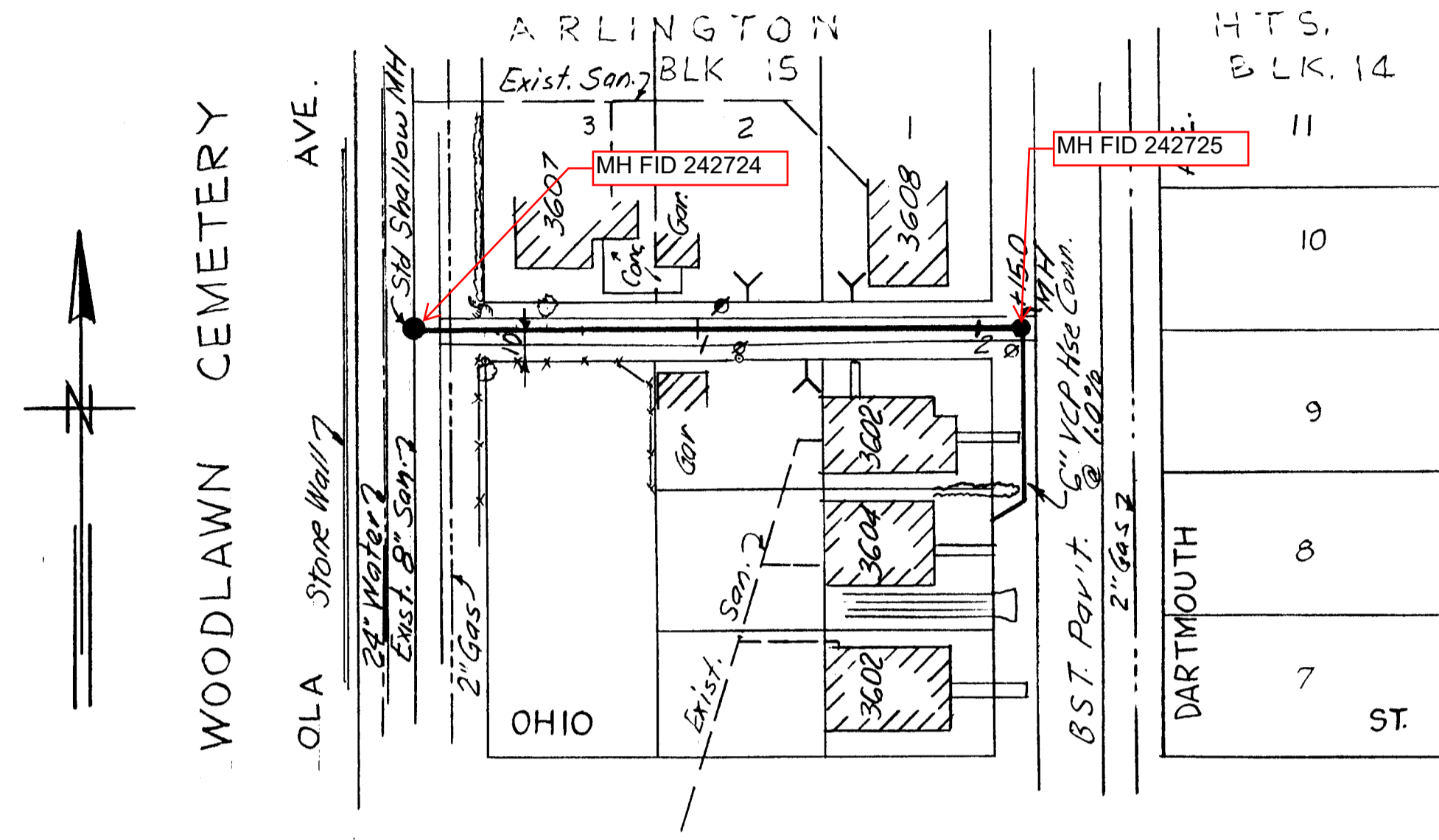


PLAN

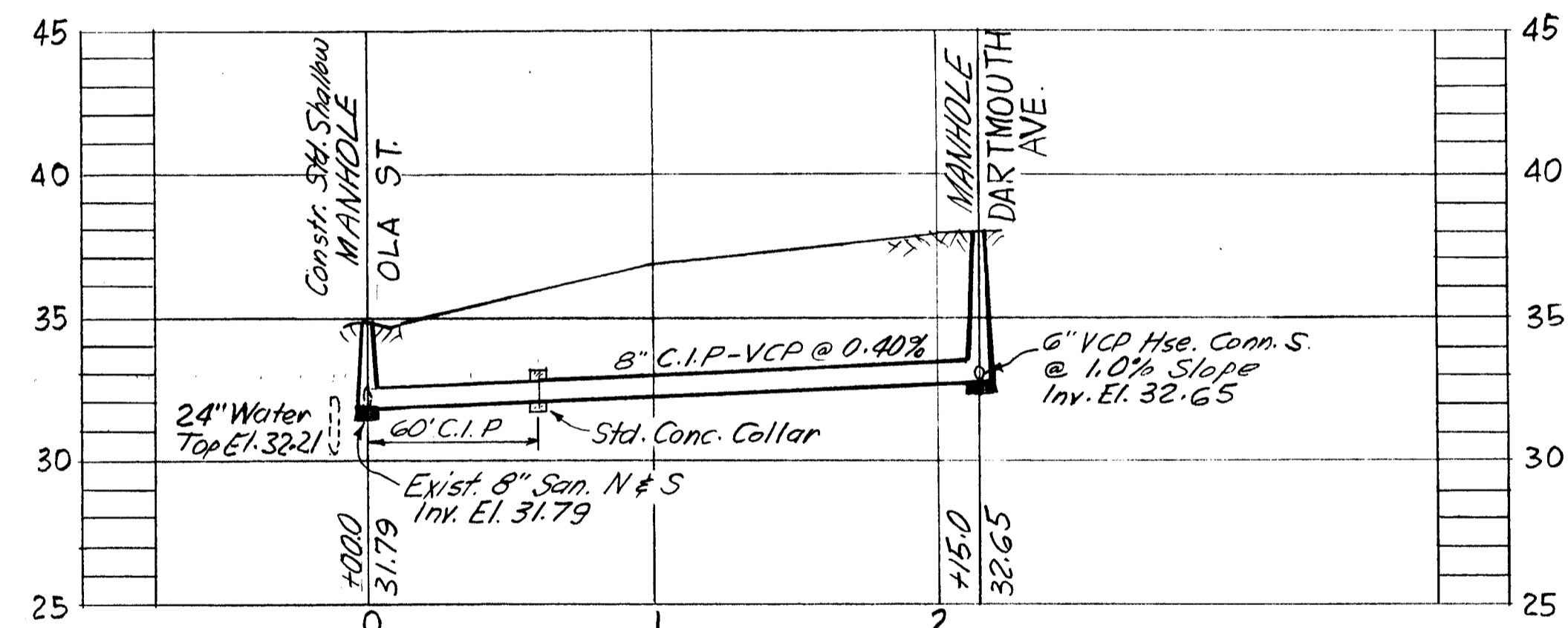


PROFILE
W.O. 2016
D-13-43

Datum: B.M. A3-G-2 R.R. Spike in
30" pine, So. Side Sitka St. ± 50' ±
W. of 18th St - Elev. 28.237



PLAN



PROFILE
W.O. 2020
G-12-2

Datum: T.P. Nail in Power Pole
on W. Side Ola St. @
Alley N. of Ohio St
Elev. 34.99

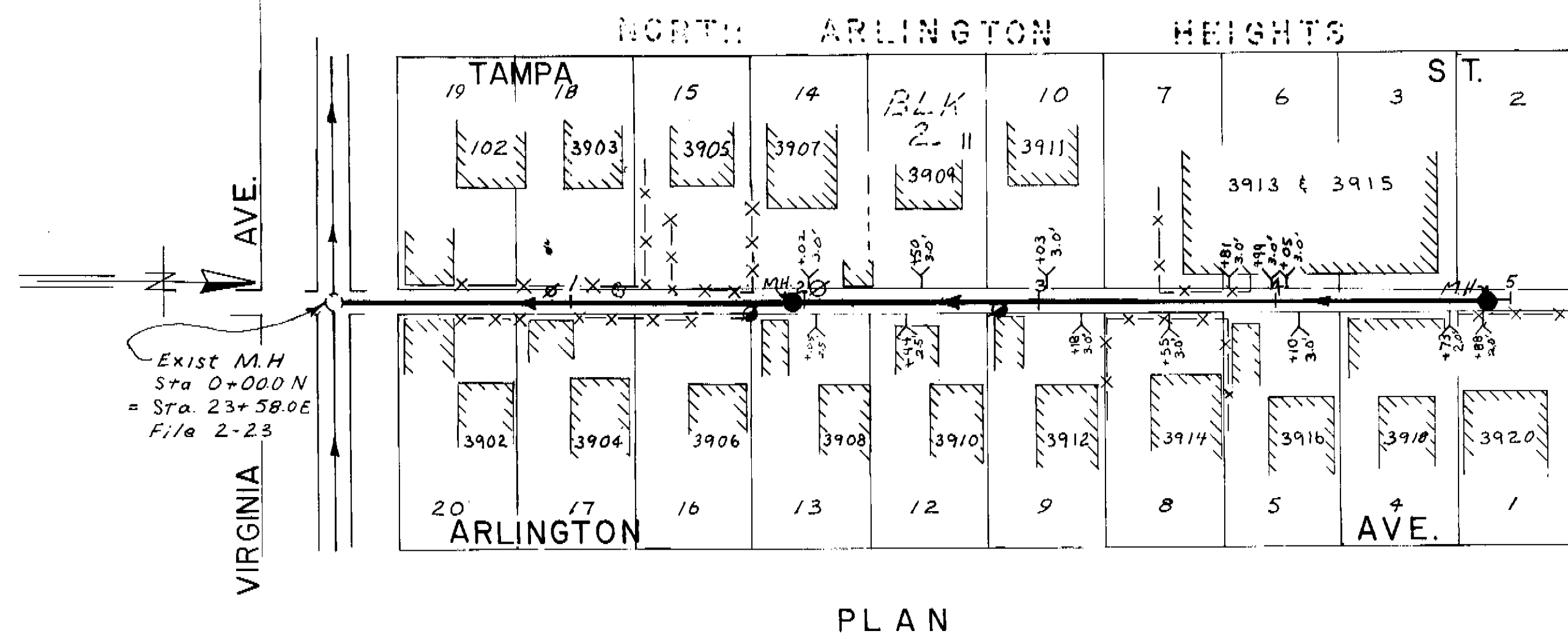
(Construction Complete)

REF 60

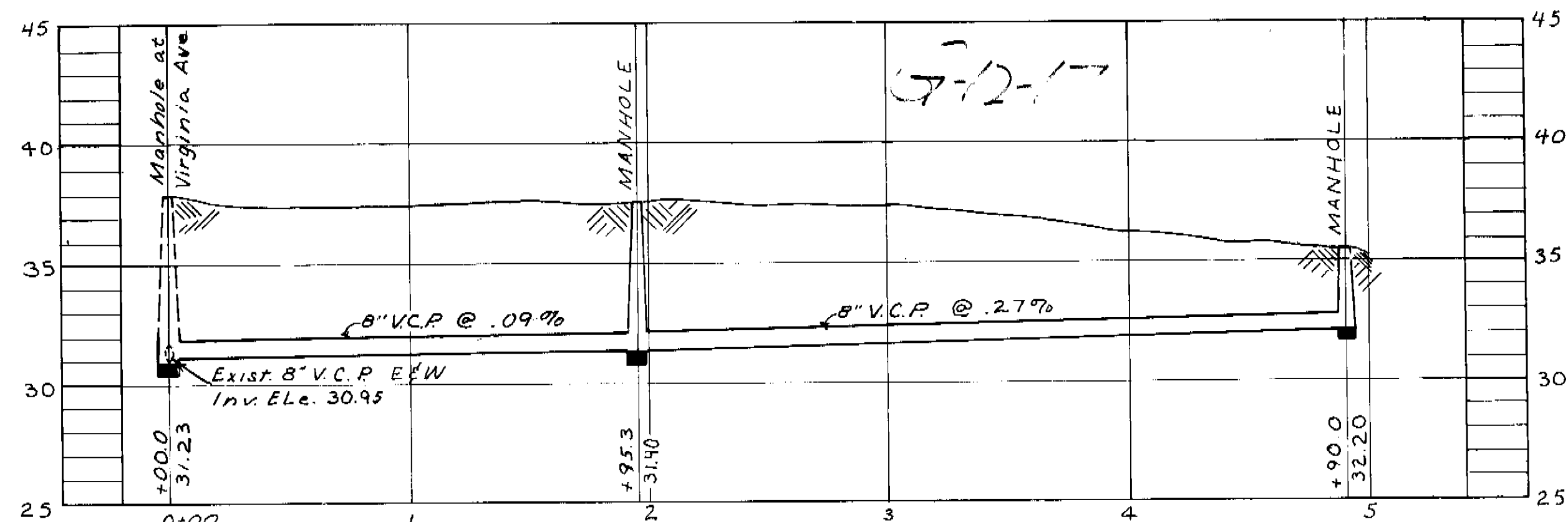
W.O. 2020
W.O. 2016

CITY OF TAMPA, FLORIDA RENEWAL & REPLACEMENT SEWER IMPROVEMENTS	
ELMER ST.: Sitka St. to Bird St. ALLEY N. OF OHIO ST.: Ola Ave. to Dartmouth Ave.	
DES: JMR DRN: JMR CKD: CMT DATE: JAN. 1968	<p>SCALE: 50 100 1" = 50'</p> <p>SHEET 14 OF 28</p>

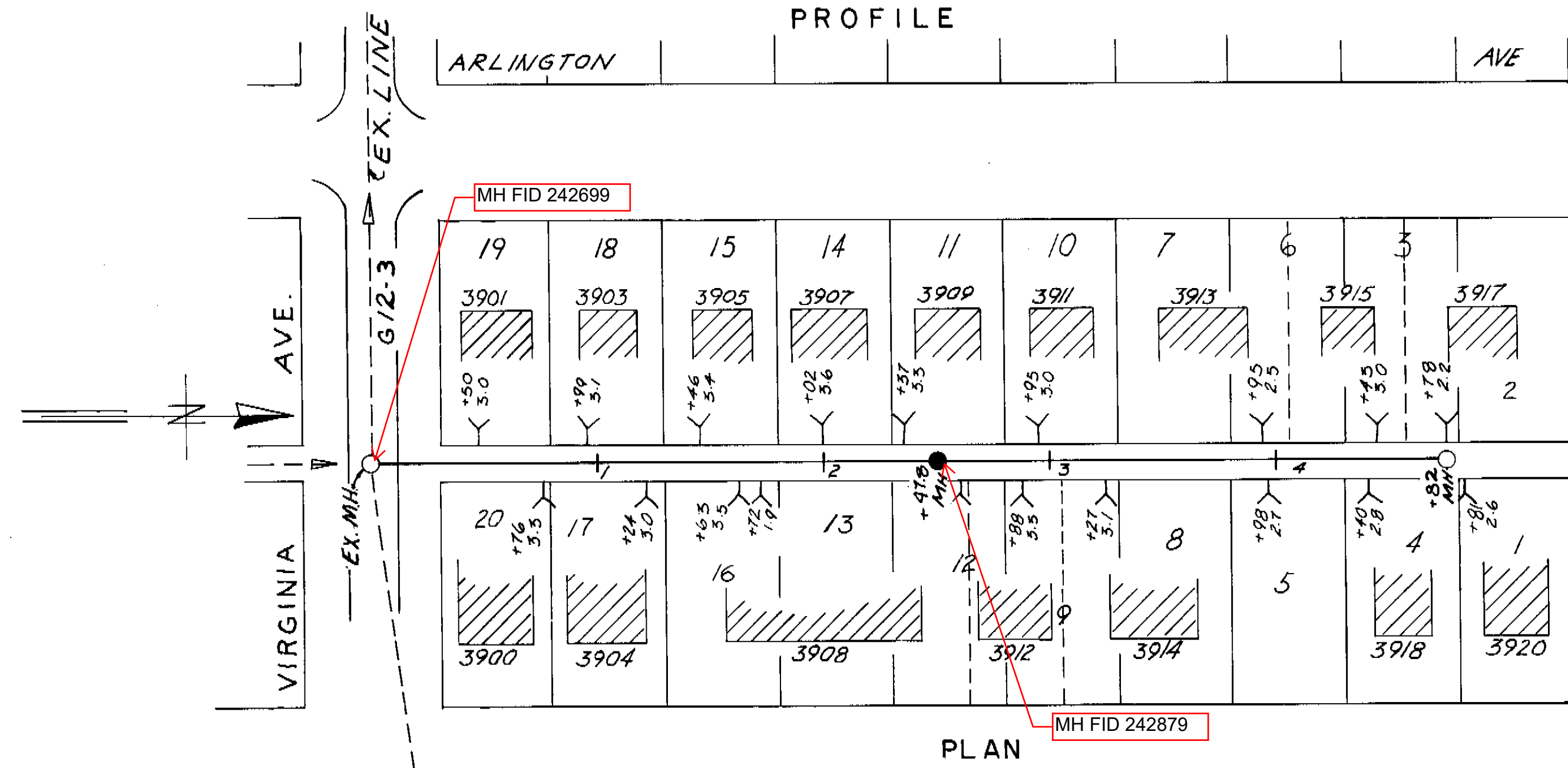
SEWER LINE LOCATION	
REQ. NO.	LINE No.
D-13	43
G-12	2



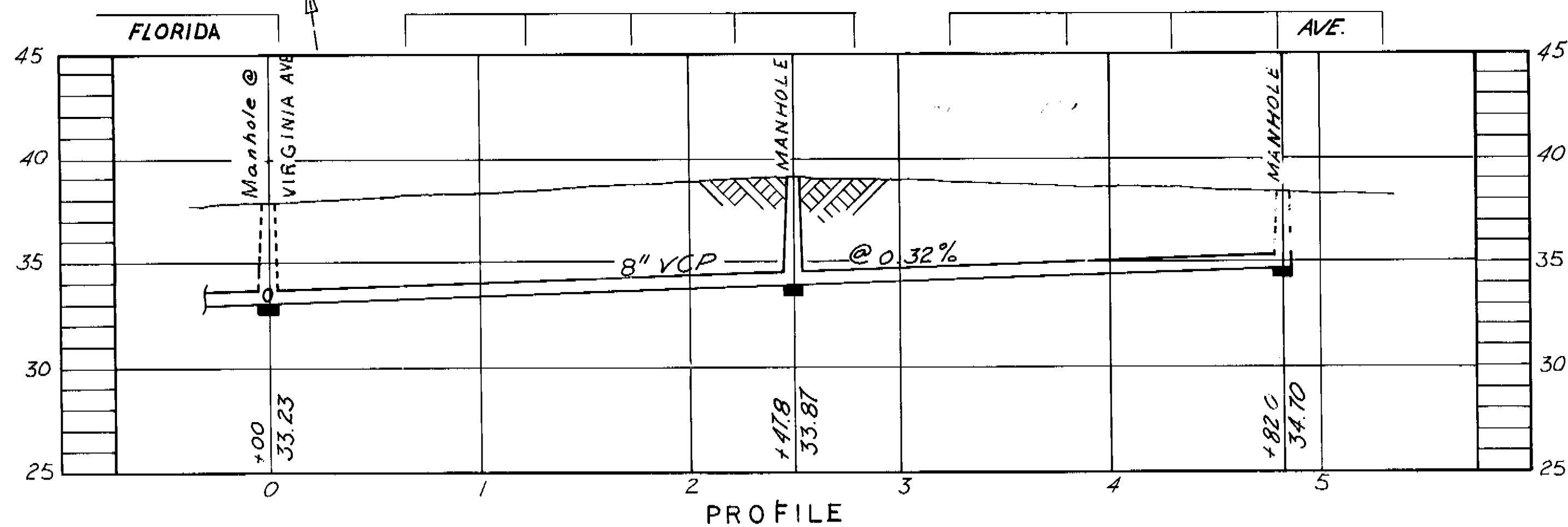
PLAN



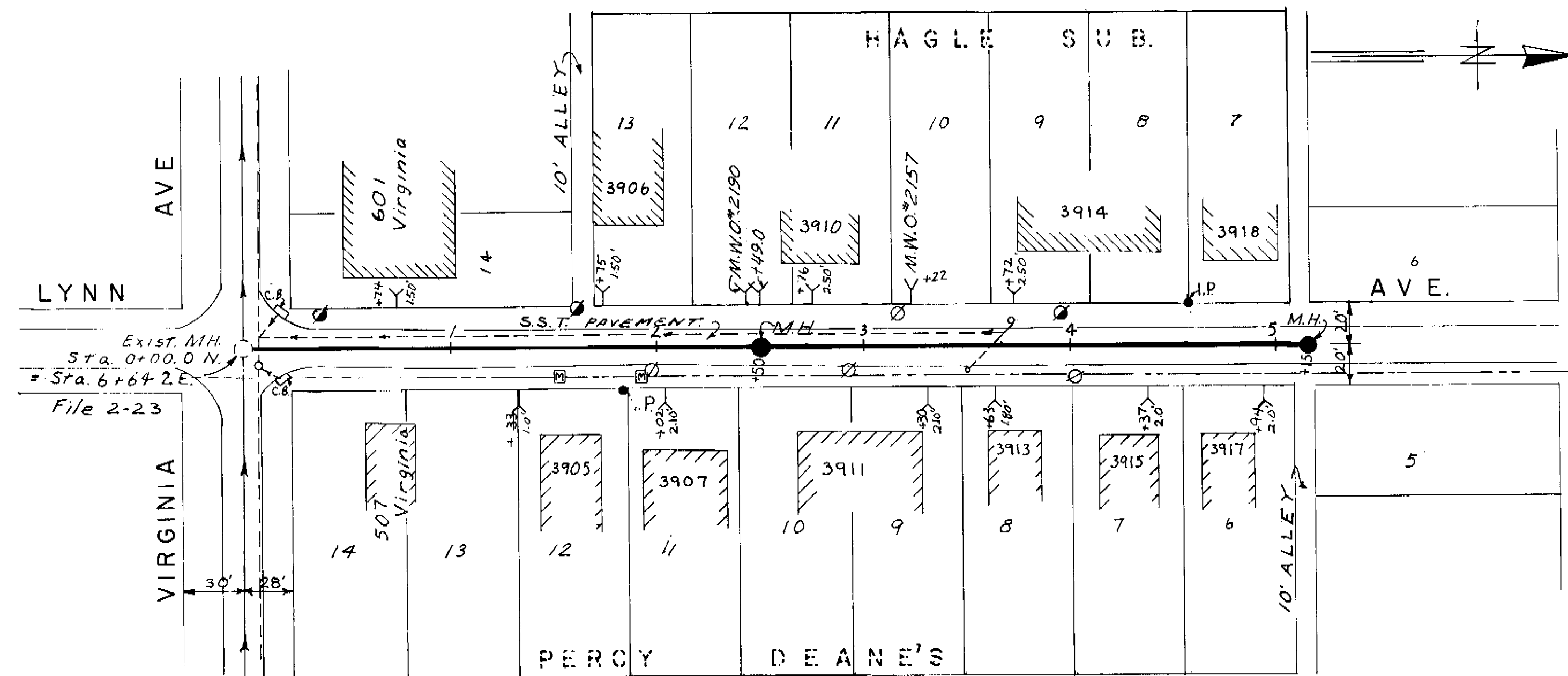
PROFILE



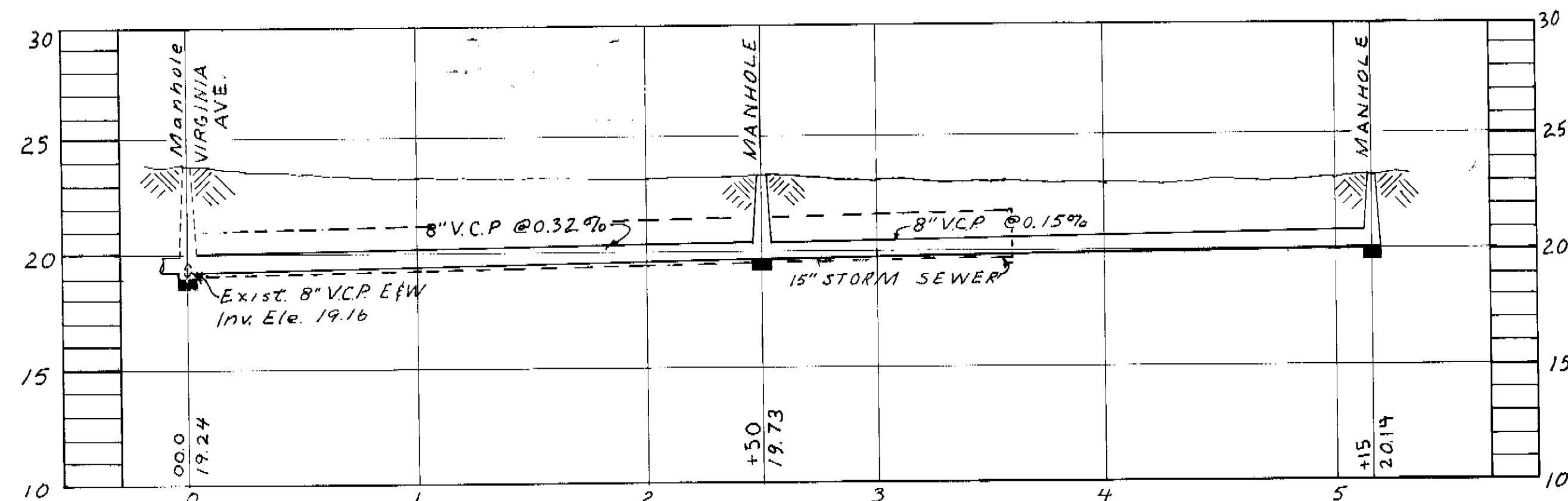
PLAN



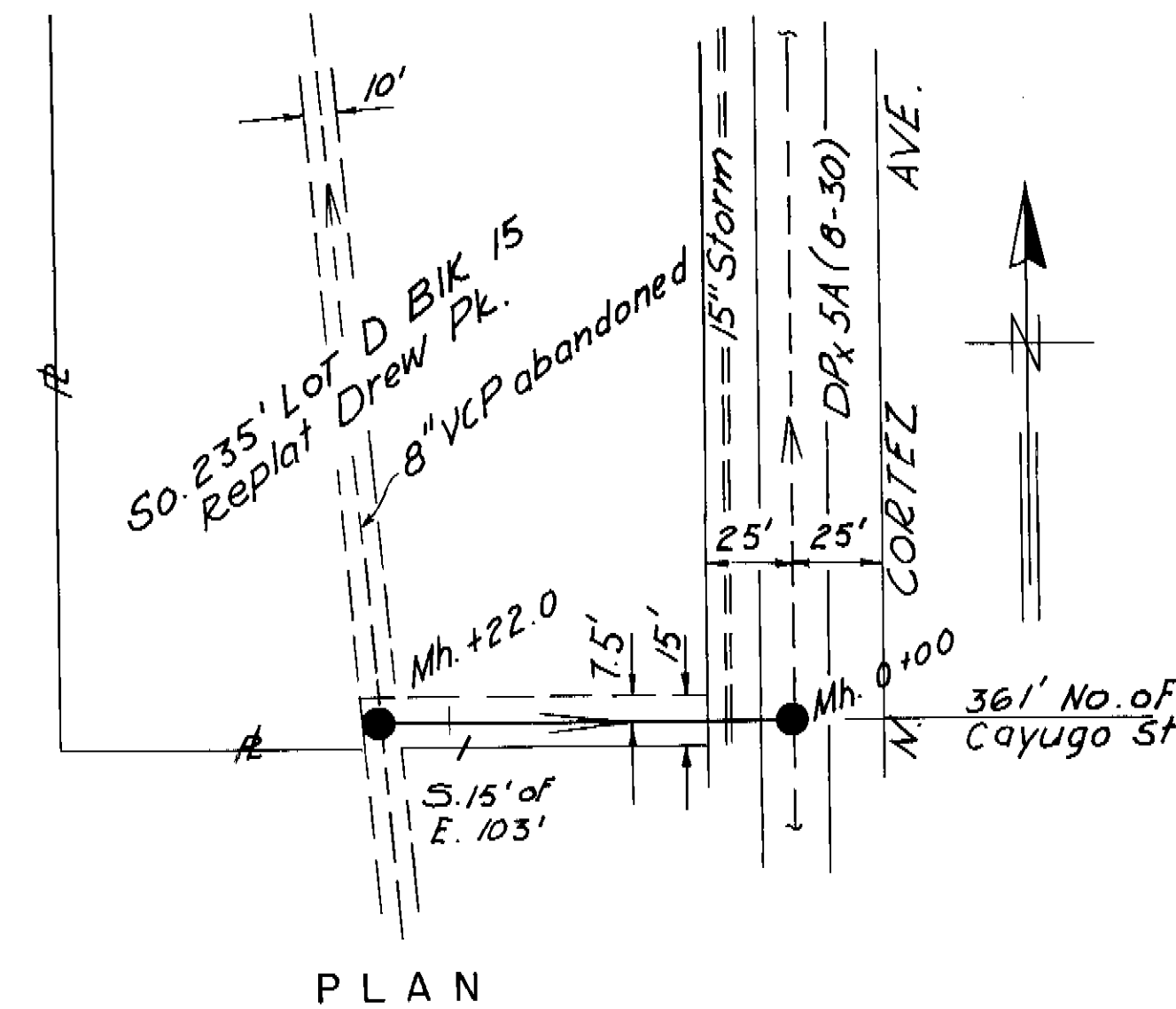
PROFILE



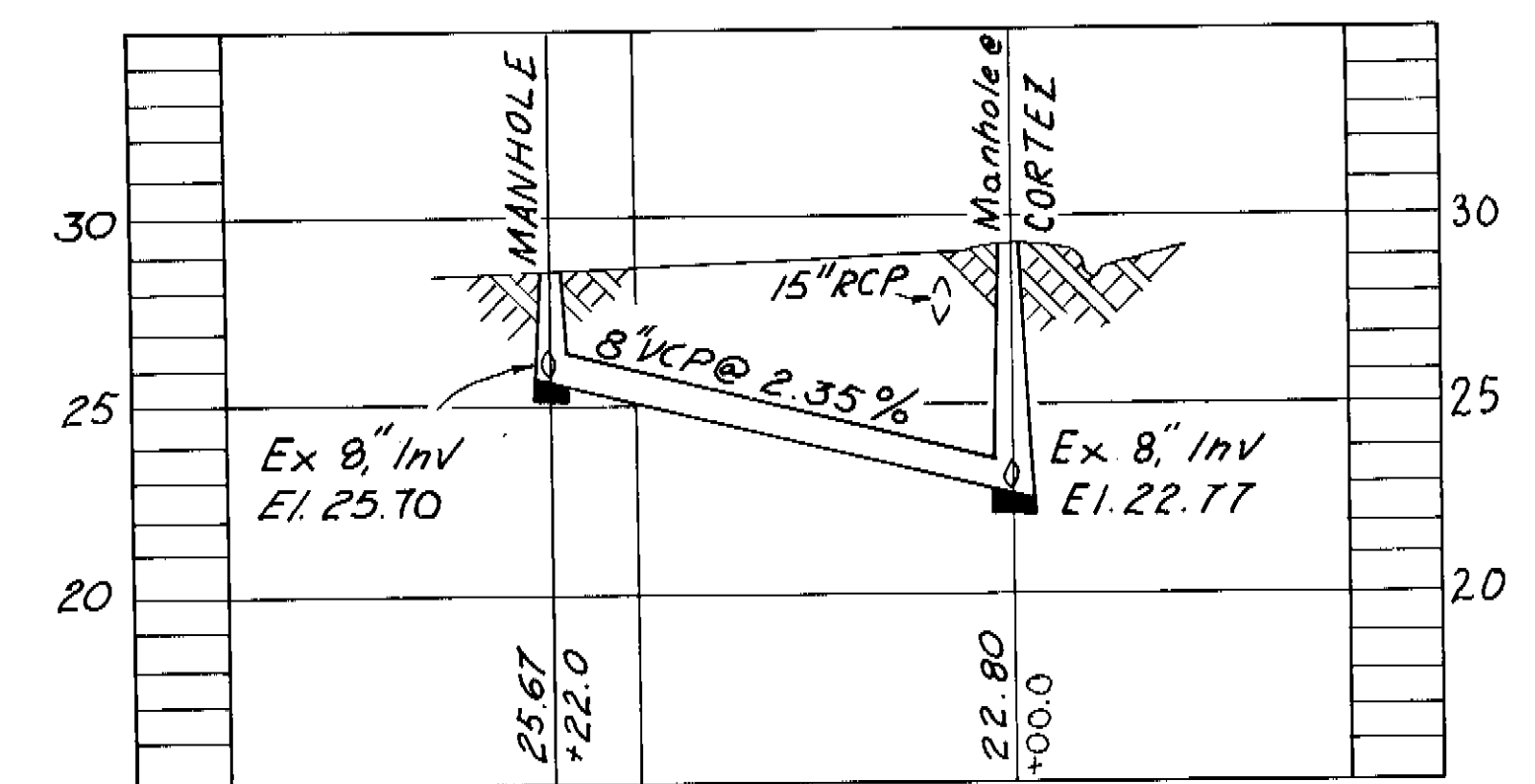
PLAN



PROFILE
W.O. 2169



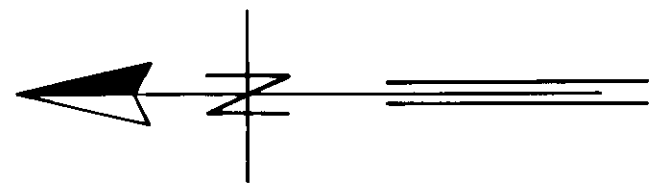
PLAN



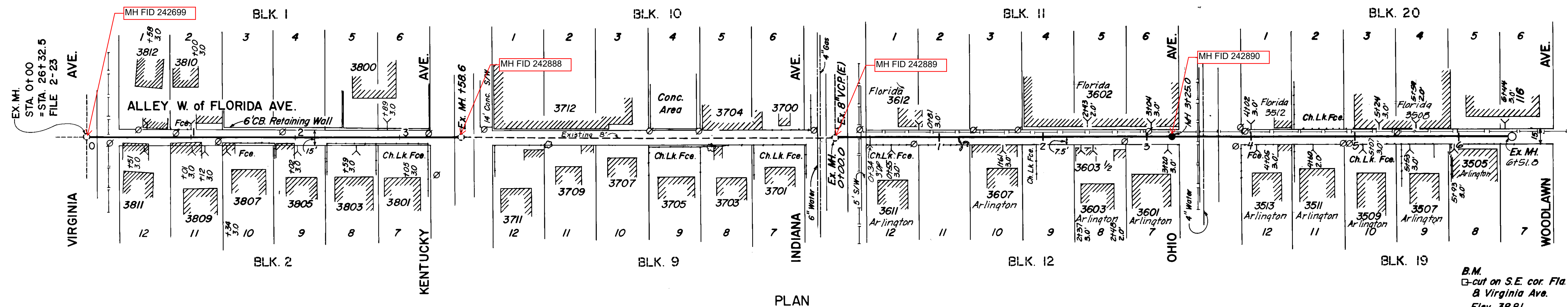
PROFILE
W.O.

REVISION LINE
LOCAL
MAP NO.
F-9-29

CITY OF TAMPA, FLORIDA RENEWAL & REPLACEMENT		
SEWER IMPROVEMENTS		
ALLEY East of Tampa St. from Virginia Av North to Buffalo Ave.		
LYNN Ave. from Virginia to Buffalo.		
ALLEY West of Florida Ave from Virginia Ave North to Buffalo Ave.		
Sewer Relocation: Cortz North of Cayuga		
DES: DRN.M.C.H.	SCALE: 1" = 50'	SHEET
CD: DATE	0 50 100	OF
APR. 1972		

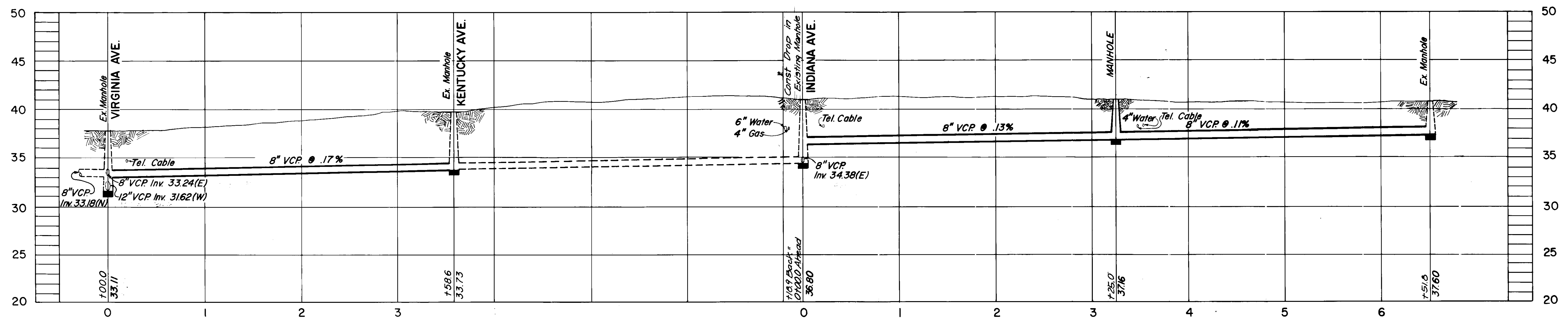


ARLINGTON HEIGHTS SUB.



B.M.
 □ cut on S.E. cor. Fla. Ave.
 & Virginia Ave.
 Elev. 38.81

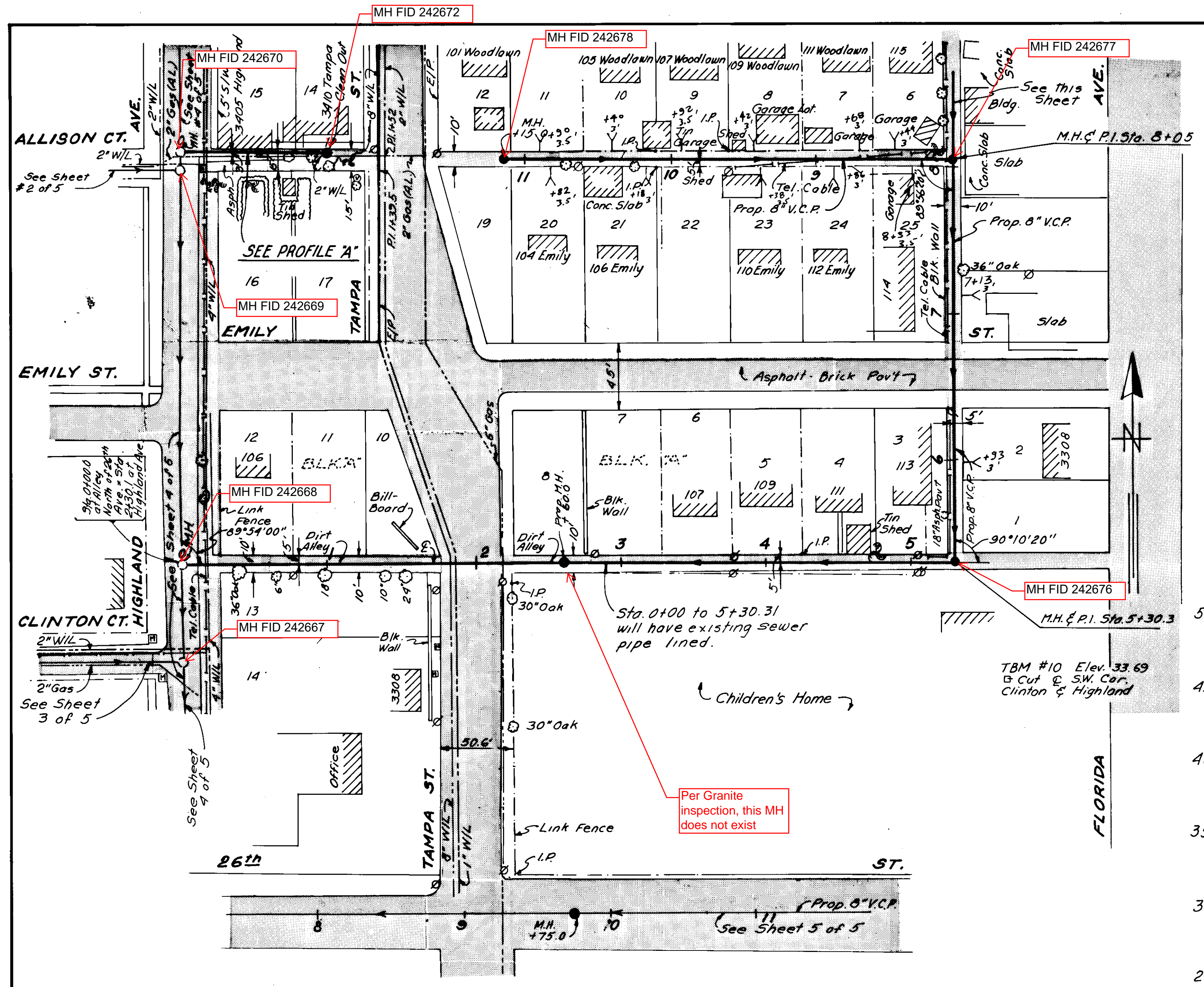
PLAN



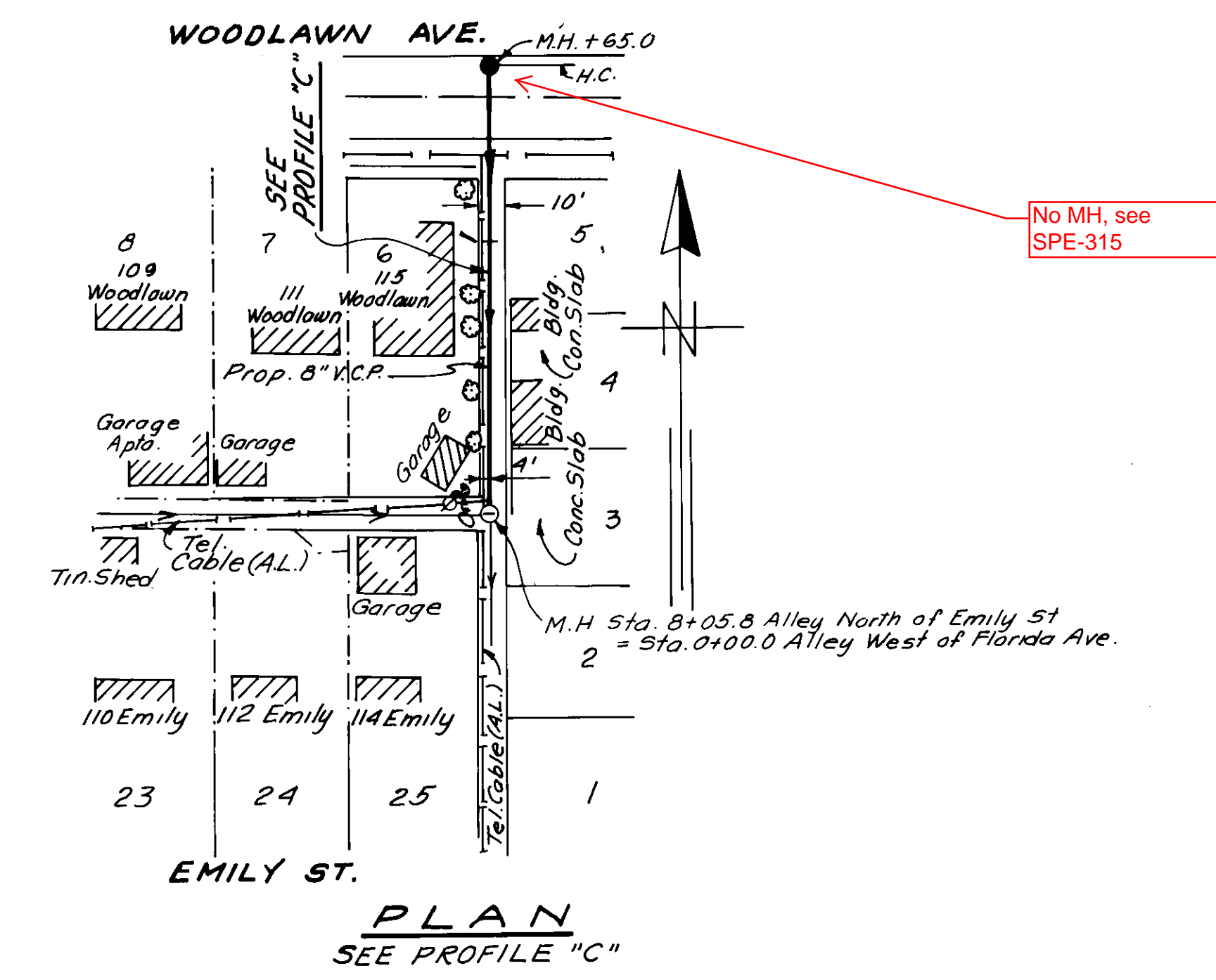
PROFILE
 W.O. 2470-T

DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA RENEWAL & REPLACEMENT SEWER IMPROVEMENTS		
ALLEY W. of FLORIDA AVE: Virginia Ave. to Woodlawn Ave.		
DES: DRN: KMS/LE CKD: JMR DATE AUG 1974	SCALE 1" = 50'	SHEET OF

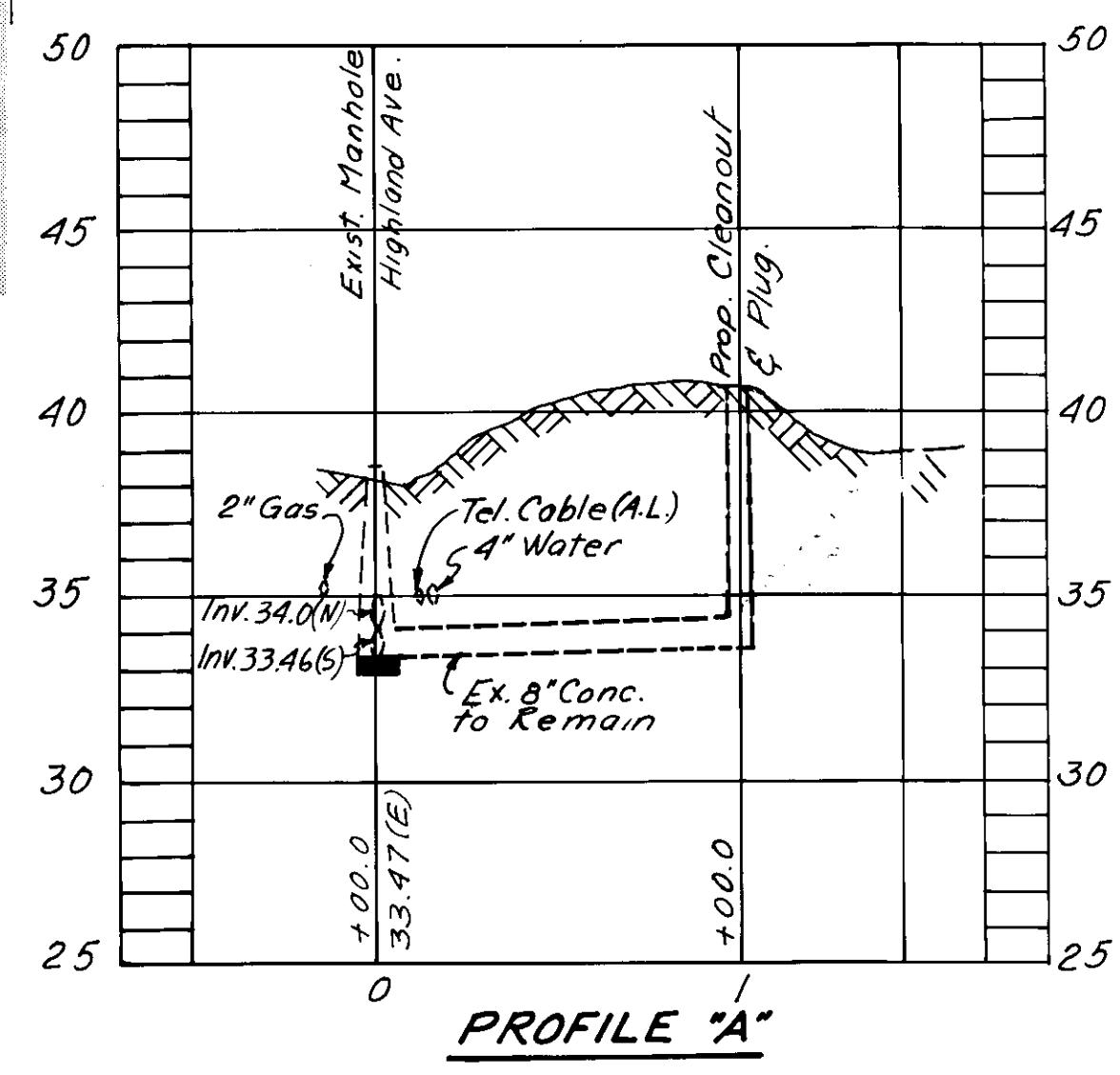
129-10



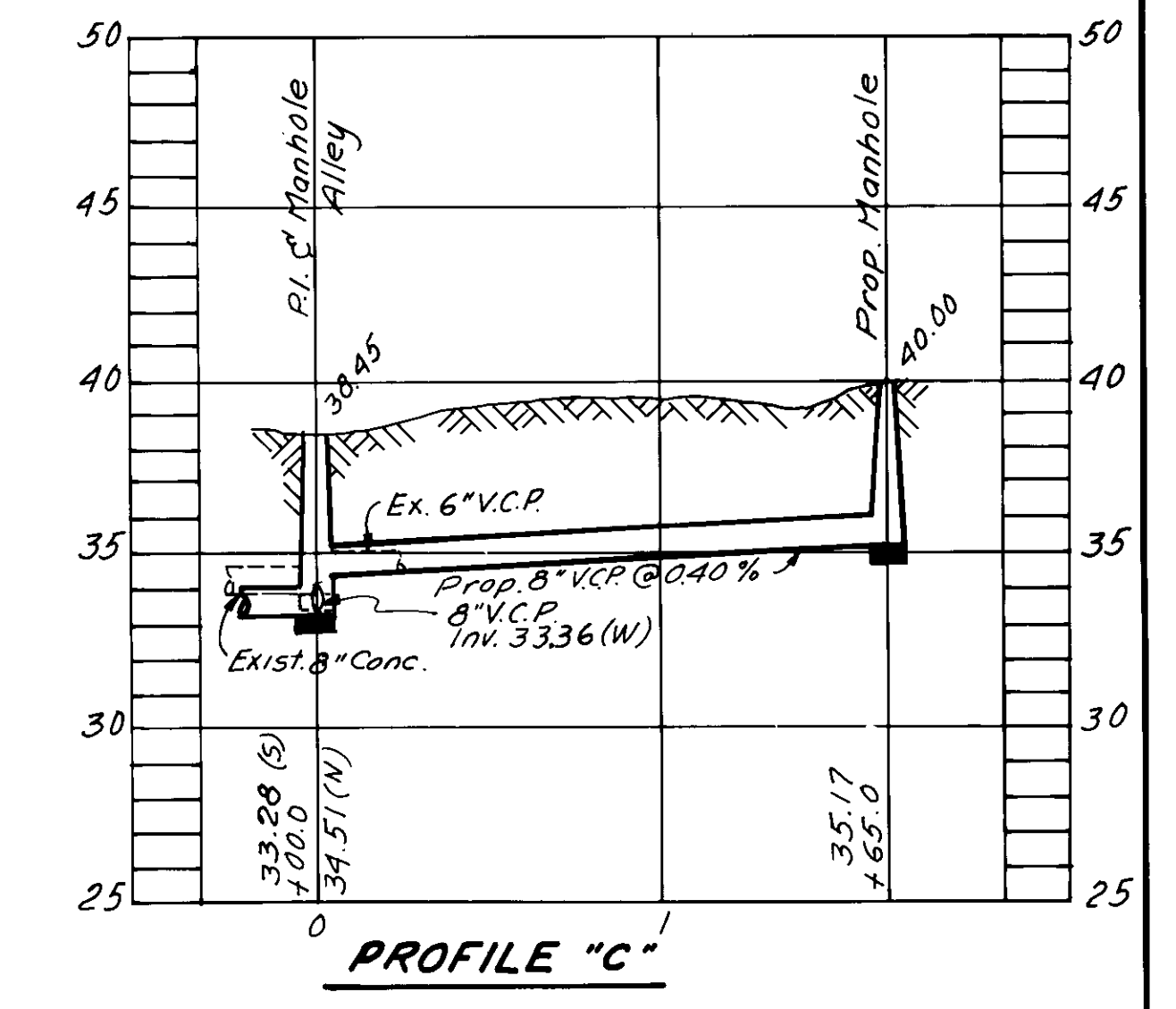
PLAN



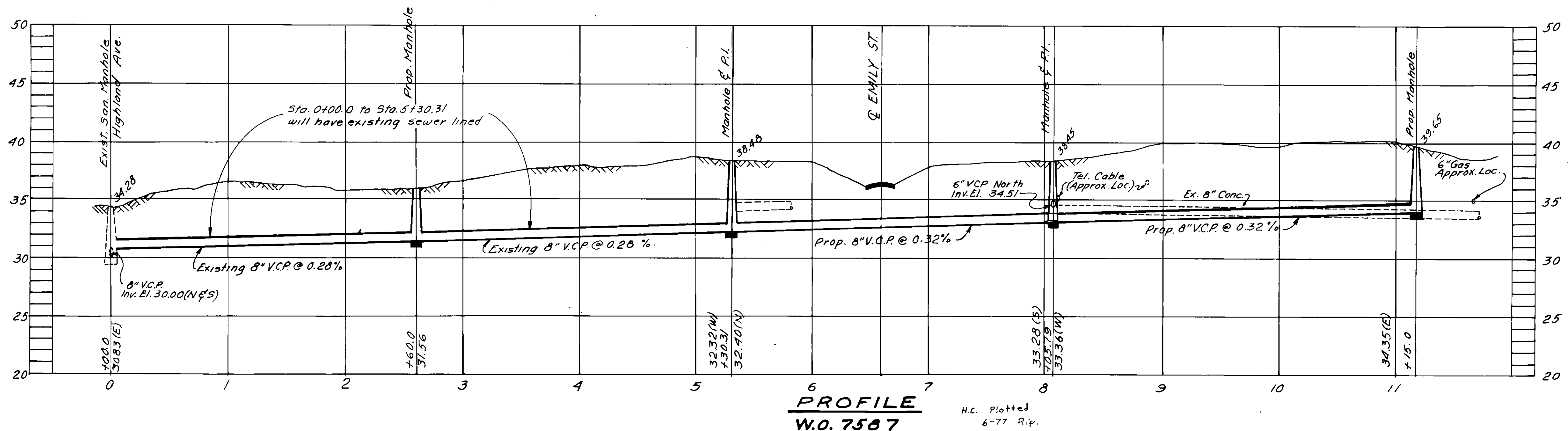
PLAN
SEE PROFILE "C"



PROFILE "A"



PROFILE "C"



PROFILE
W.O. 7587

H.C. Plotted
6-77 R.P.

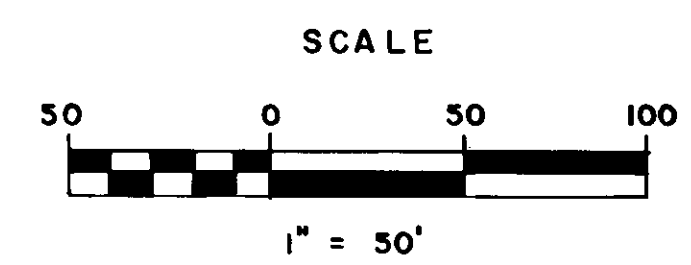
- NOTES:
1. Locate and replace existing house connections during construction.
 2. Replace and/or remove existing Sanitary Sewer manholes during construction of proposed line.

ELTON G. SMITH, P.E.
CHIEF ENGINEER
DEPARTMENT OF SANITARY SEWERS

DES: M.J.A.
DRN: M.D./E.R.
CKD: W.M.R.
DATE
JULY 1976

APPROVED BY
J.W. SILLIMAN, P.E., DIRECTOR
DEPARTMENT OF SANITARY SEWERS

N ^o	DATE	REVISIONS
1	10-76	Redesigning line at Tampa St. M.J.A.
2	10-76	Lining Pipe in Alley S of Emily St. AIC
3		
4		
5		

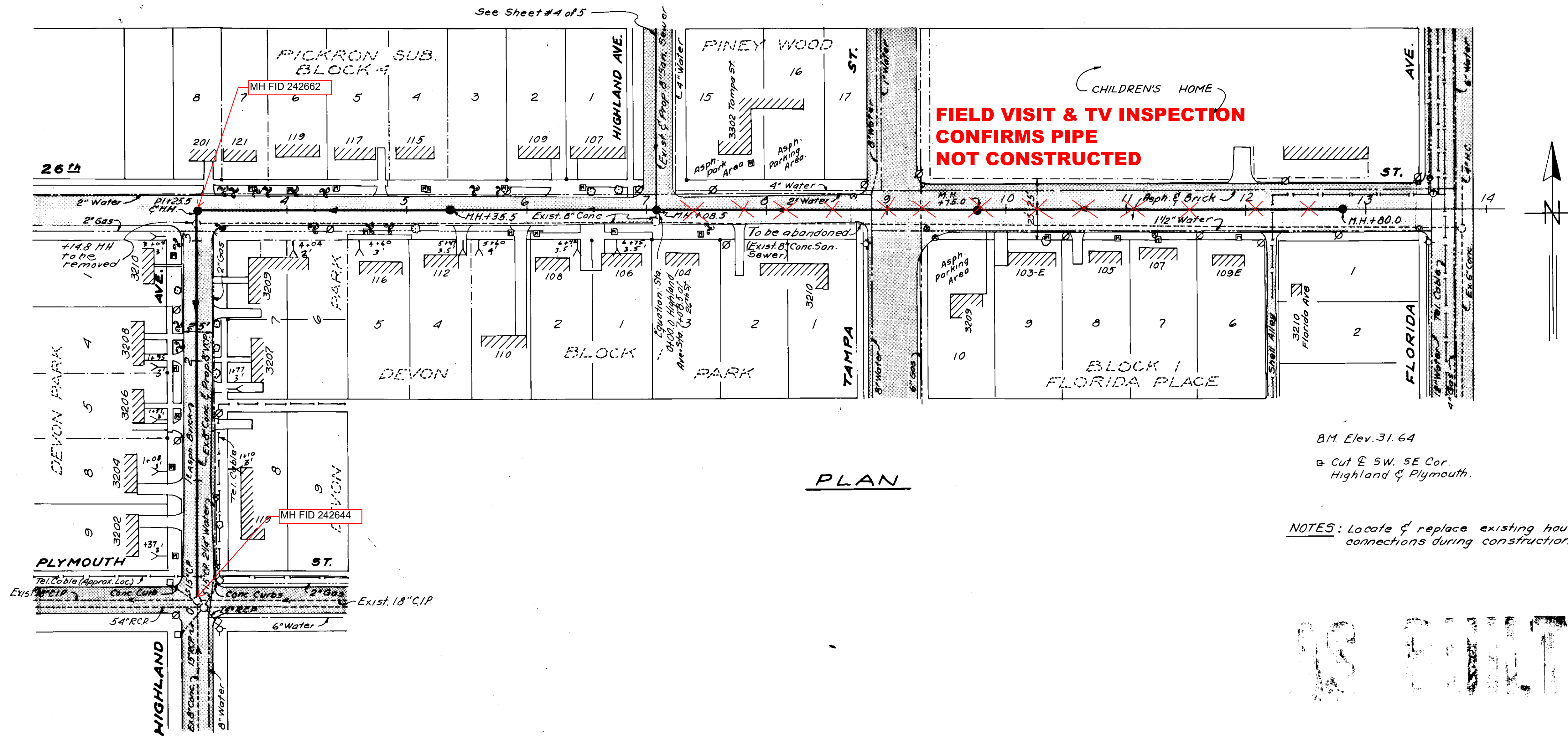


DEPARTMENT OF SANITARY SEWERS
CITY OF TAMPA, FLORIDA
RENEWAL & REPLACEMENT
SEWER IMPROVEMENTS

PLYMOUTH TRUNK: Area "H"

SHEET
1
OF 5

140-21

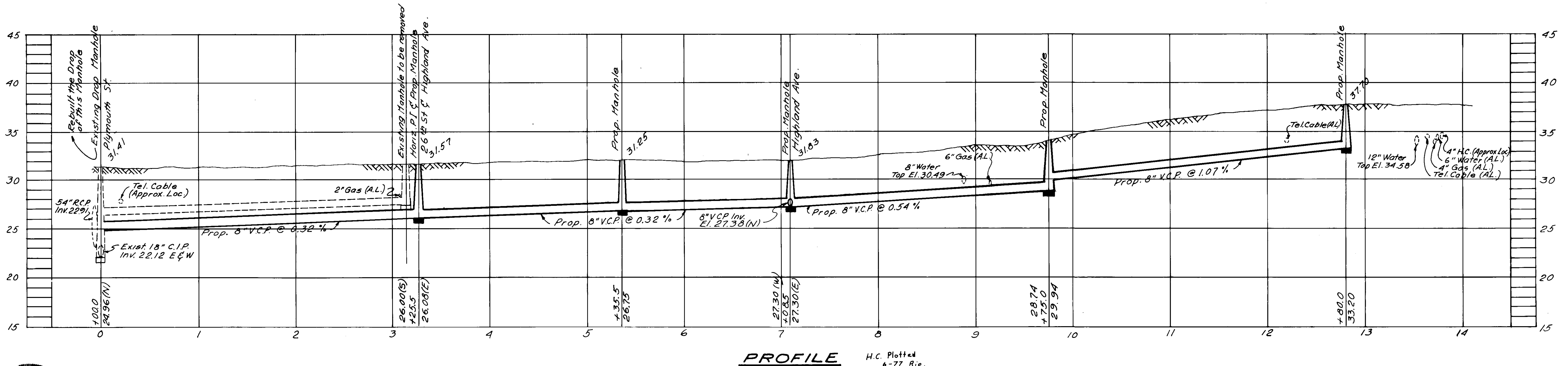


PLAN

B.M. Elev. 31.64
 ☐ Cut @ SW. SE Cor.
 Highland & Plymouth.

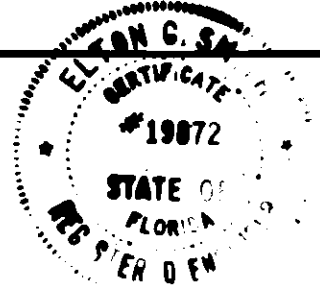
NOTES: Locate & replace existing house connections during construction.

18 FEET



PROFILE

H.C. Plotted
 6-77 Rip.

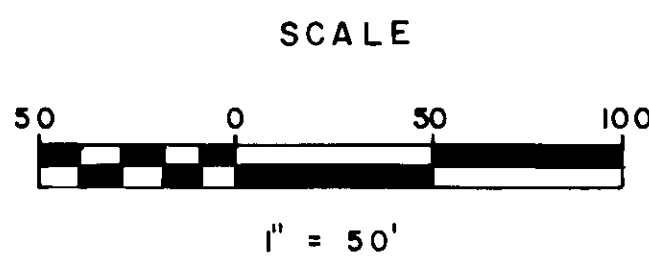


Elton G. Smith
 ELTON G. SMITH, P.E.
 CHIEF ENGINEER
 DEPARTMENT OF SANITARY SEWERS

DES. M. J. A.
 DRN. E. R.
 CKD. W. M. A.
 DATE
 JULY 1976

APPROVED BY
 J.W. Silliman, P.E., DIRECTOR
 DEPARTMENT OF SANITARY SEWERS

N ^o	DATE	REVISIONS
1		
2		
3		
4		
5		

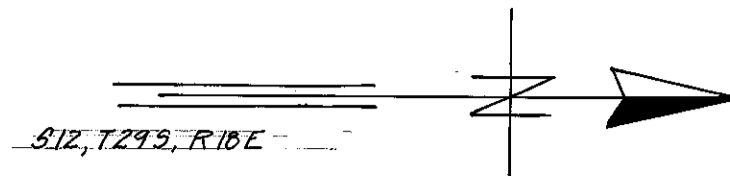


DEPARTMENT OF SANITARY SEWERS
 CITY OF TAMPA, FLORIDA
 RENEWAL & REPLACEMENT
 SEWER IMPROVEMENTS

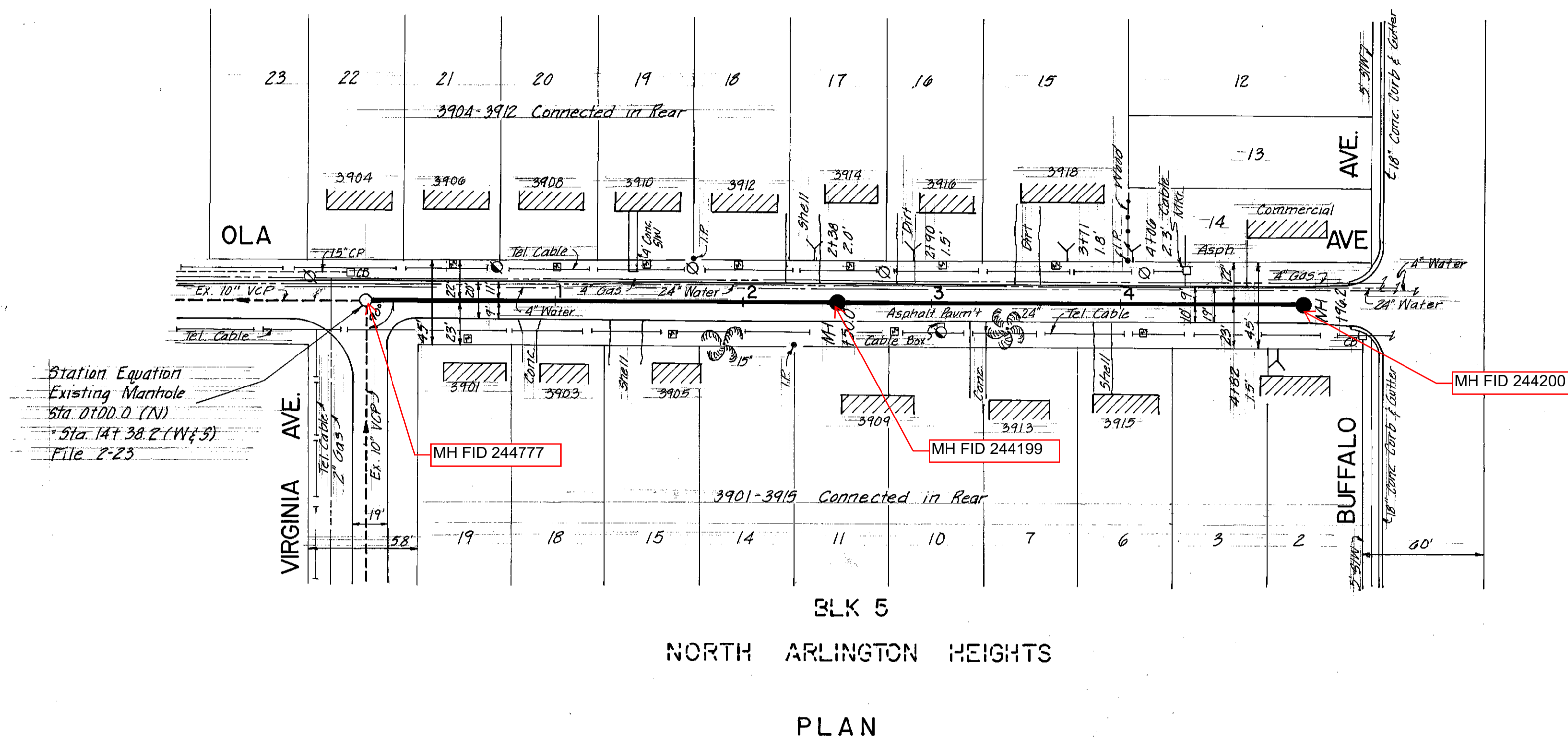
HIGHLAND AVE.: From Plymouth St to 26th
 then East to Florida Ave.
 PLYMOUTH TRUNK AREA "H"

SHEET
5
 OF 5

140-23

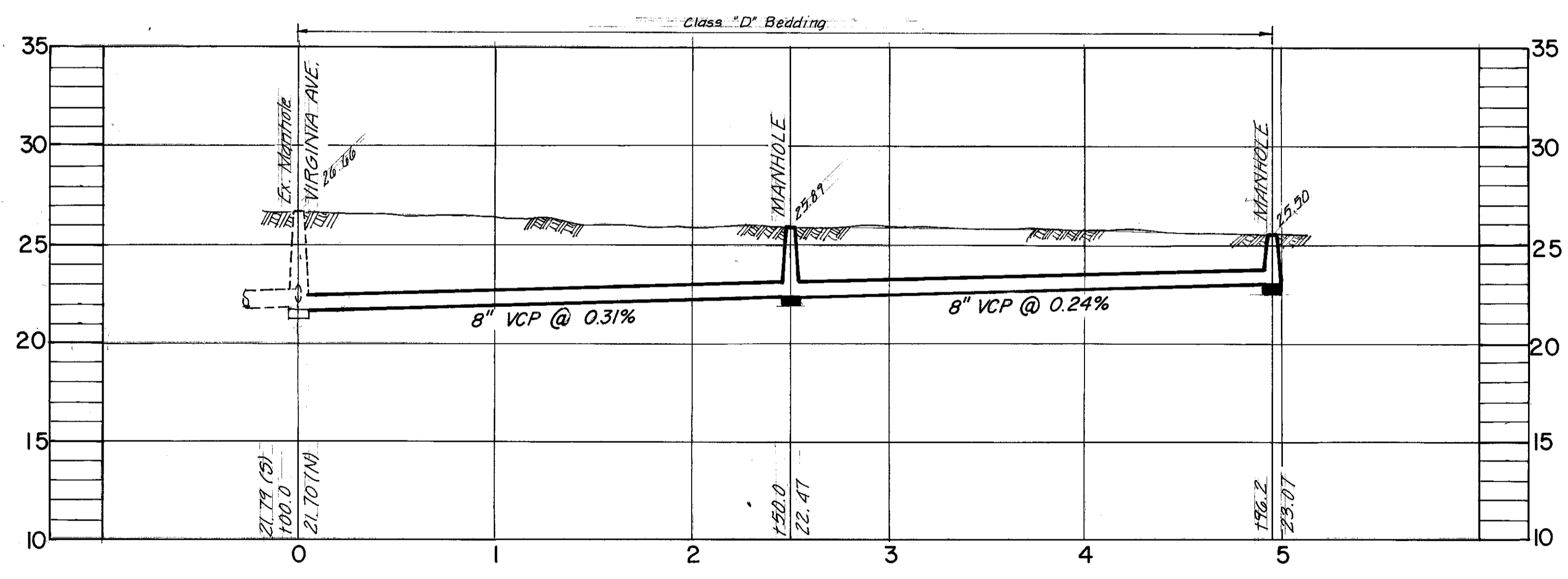


AZALEA GARDENS



- Notes:
- All elevations are based on NGS Datum unless otherwise noted.
 - Location of existing underground utilities have been prepared from the most reliable information available. Verify the location and depth of all pertinent utilities prior to construction. Notify utility companies in the area at least 48 hours prior to construction.
 - New house connections are representative only. Exact locations should be determined in the field at the time of construction.

TBM Elev 25.34
 □ Cut front S/W, SE cor OLA & Buffalo



PROFILE
 WO 5427

AS BUILT
 5-1-79 YHK Plan and Profile

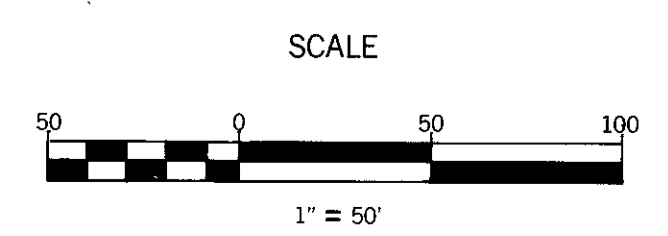
BRUNING 44-132-29917

Elton G. Smith
 ELTON G. SMITH, P.E. # 19872
 DEPUTY DIRECTOR
 DEPARTMENT OF SANITARY SEWERS

DES:
 DRN: YHK
 CKD:
 DATE:

APPROVED BY
J.W. Silliman
 J.W. SILLIMAN, P.E., DIRECTOR
 DEPARTMENT OF SANITARY SEWERS

No	DATE	REVISIONS
1		
2		
3		
4		
5		



DEPARTMENT OF SANITARY SEWERS
 CITY OF TAMPA, FLORIDA
 RENEWAL & REPLACEMENT
 SEWER IMPROVEMENT

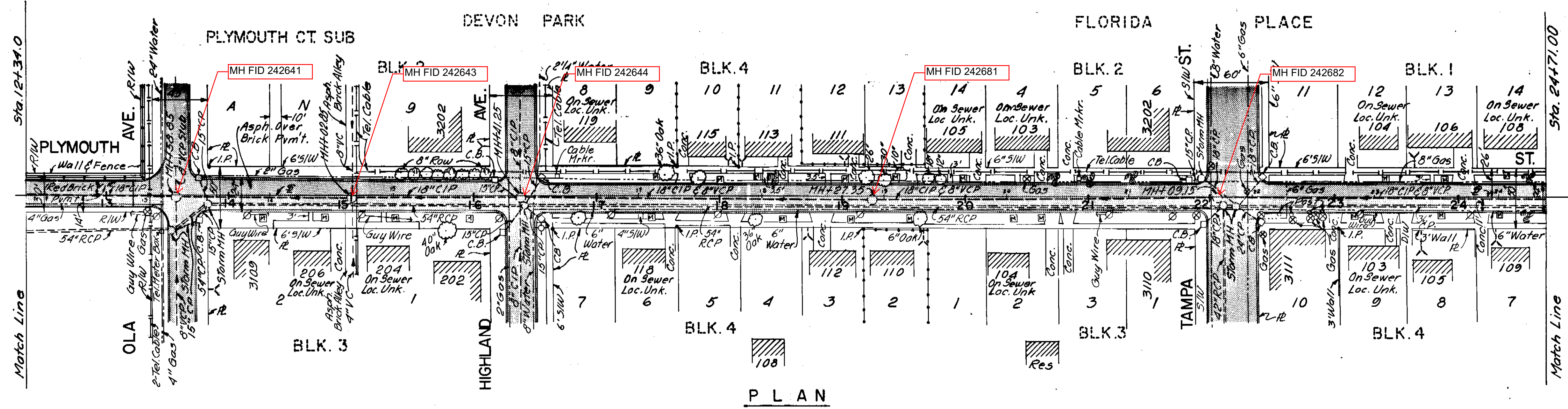
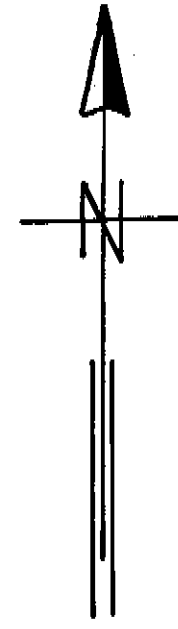
OLA AVE. Virginia to Buffalo

9-12

SHEET

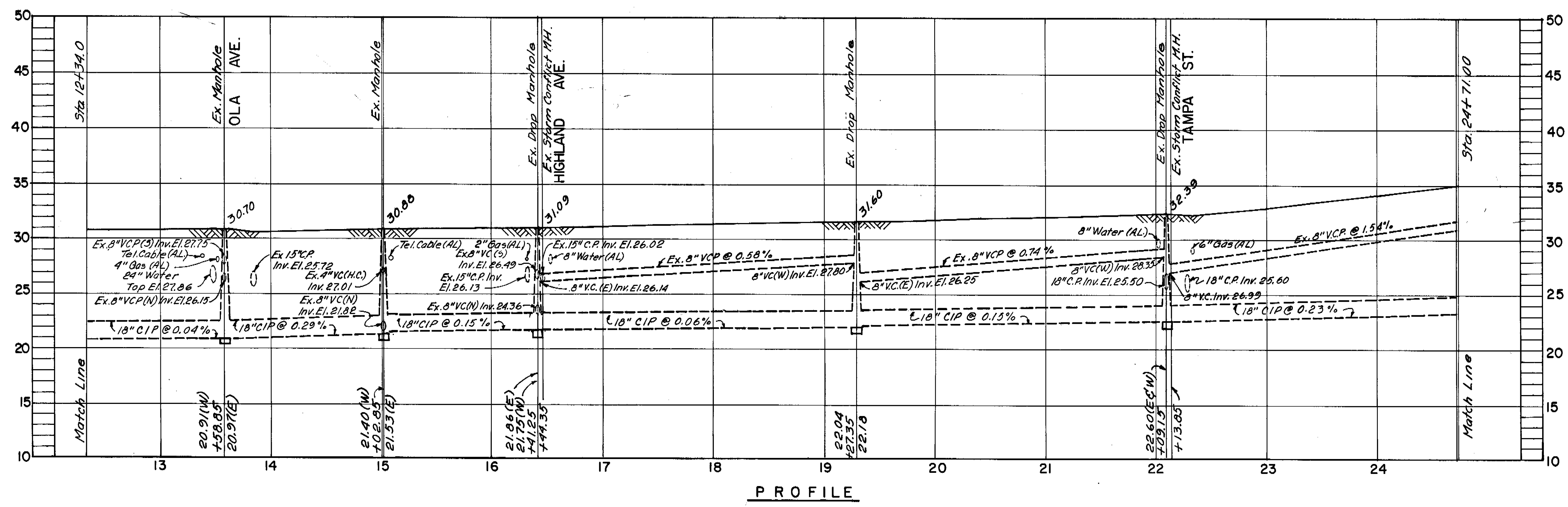
OF

147-24



BM Elev. 31.20
 Cut, Top C.B., S.E. Cor. Highland Ave. & Plymouth St.
 B.M. Elev. 24.18
 Cut E 9/16, NE Cor. Plymouth St. & N. Blvd.

PLAN



PROFILE

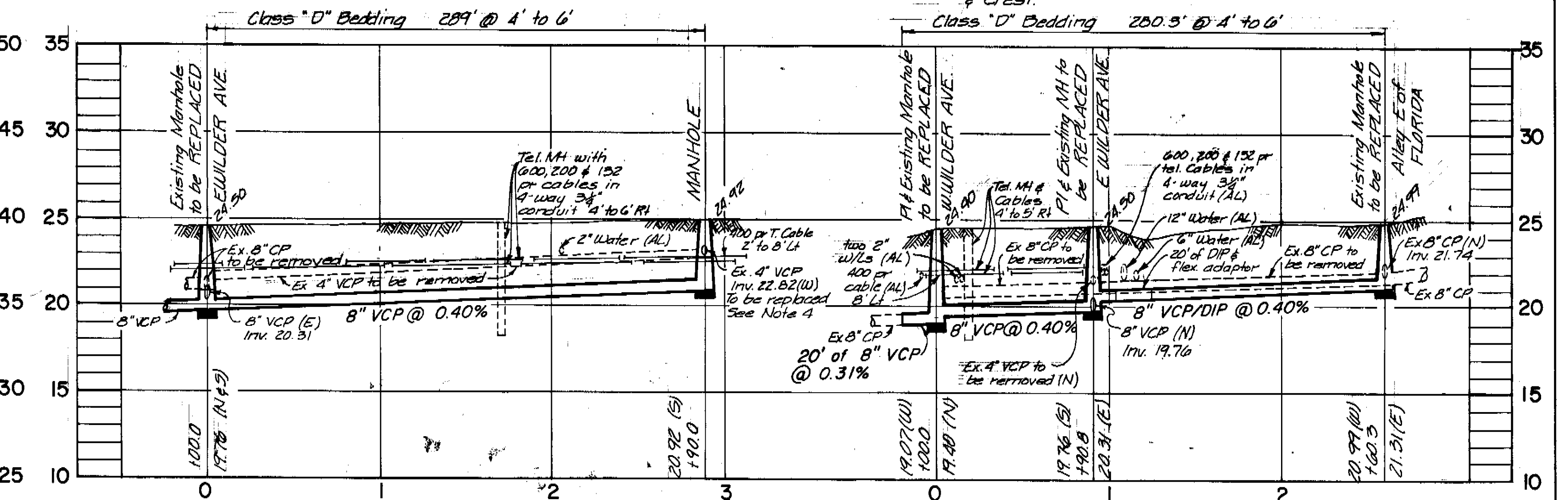
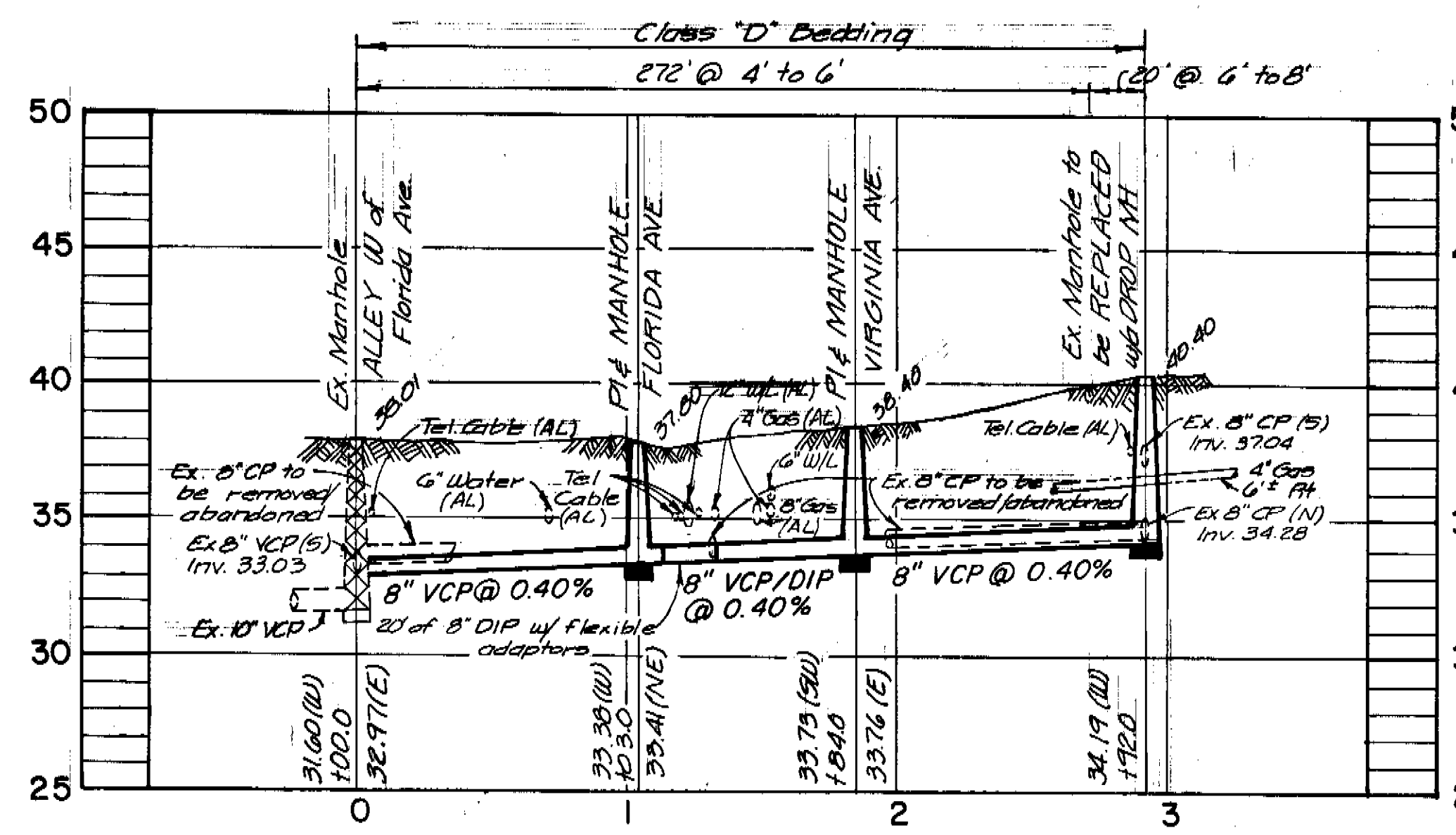
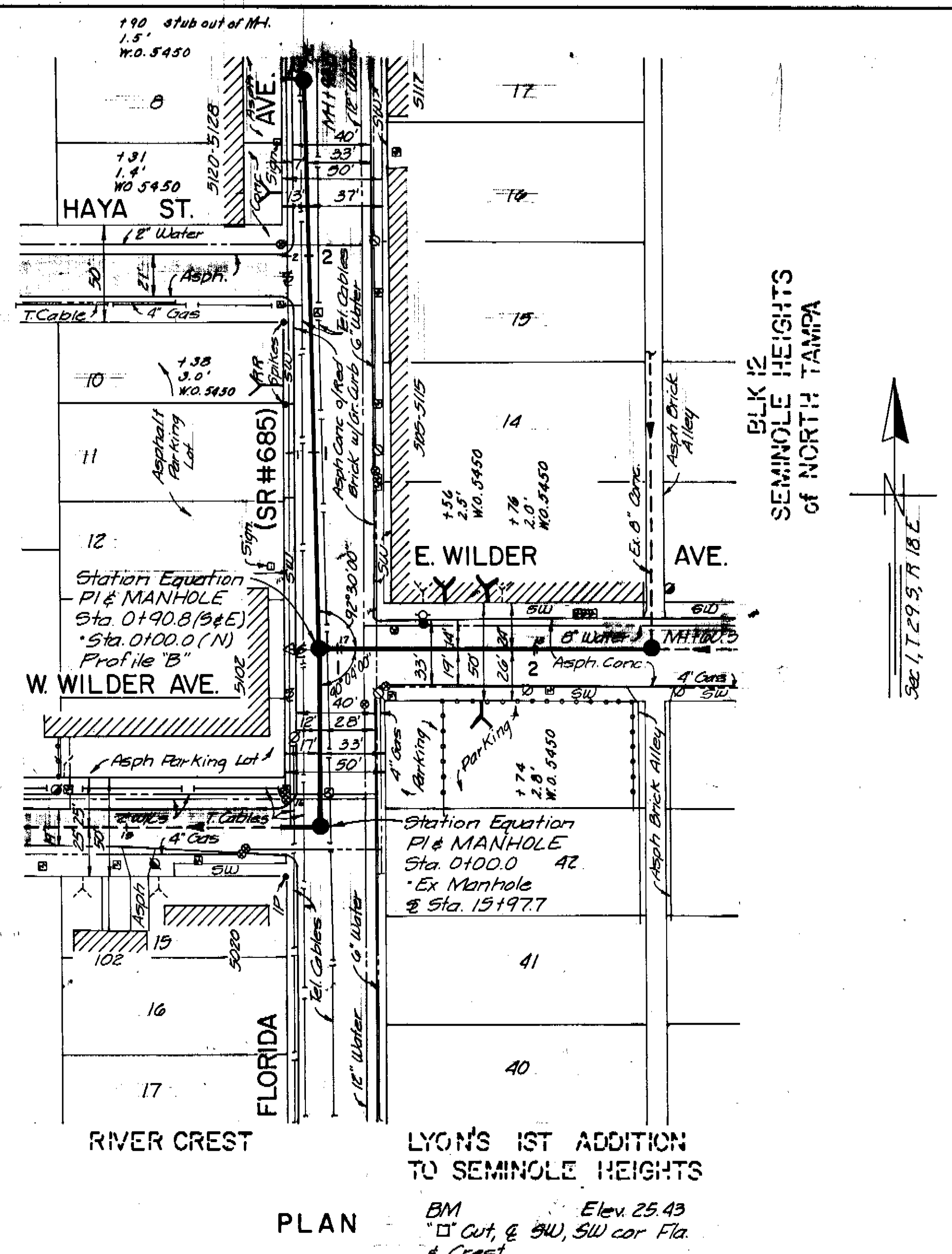
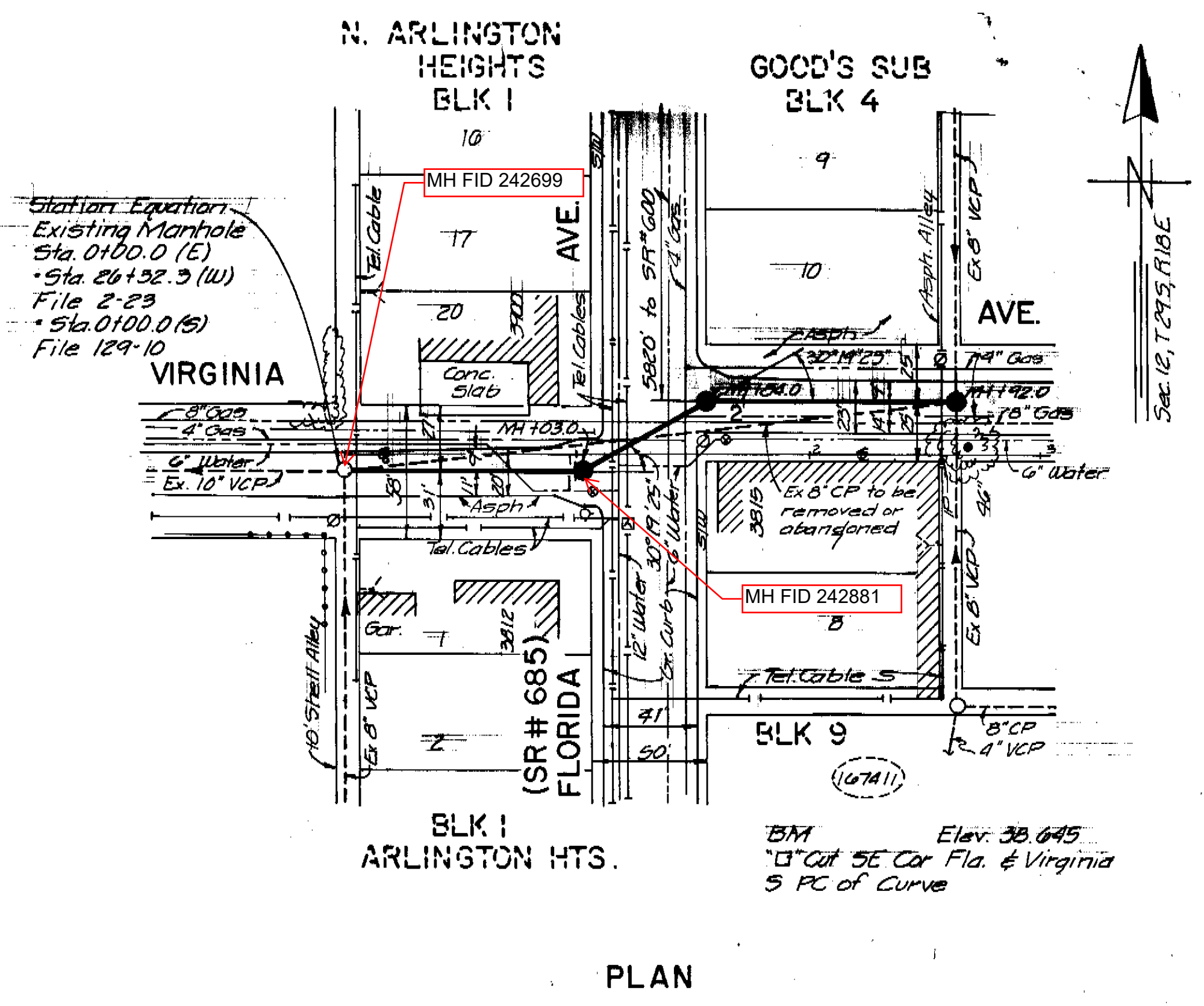
AS BUILT
 By Survey

BRUNING 44-132-25917

DES: DRN: E. R. CKD: DATE: 9-80. JACK MORRIS, P.E. #24578 CHIEF ENGINEER DEPARTMENT of SANITARY SEWERS	APPROVED BY ELTON G. SMITH, P.E. DIRECTOR DEPARTMENT of SANITARY SEWERS	NO. 1 DATE REVISIONS	SCALE 	DEPARTMENT of SANITARY SEWERS CITY of TAMPA, FLORIDA RENEWAL & REPLACEMENT SEWER IMPROVEMENTS	PLYMOUTH TRUNK: From Ola Ave. (Sta. 12+34.0) to Tampa St. (Sta. 24+71.00). SHEET 2 OF 8

156-32

- Notes:
- Utility locations were prepared from the most reliable information available. Verify the location and depth of all pertinent utilities before construction. Notify utility companies in the area at least 48 hours prior to beginning construction.
 - Where a Sanitary Sewer or a house lateral crosses a water main and a minimum vertical clearance of 18" cannot be obtained, use Class 50 DIP centered under water main with approved flexible coupling to adjacent clay pipe.
 - Patch paving in DOT ROW with Asphaltic Conc. Type 5-1, 3" Thick. Replace Non-DOT paving full width with Asphaltic Concrete Type 5-1, Standard 1" Thickness. Replace pavement base in Florida Ave. 12" thick. Replace Non-DOT pavement base the standard 6" thickness.
 - Existing wyes (exact locations unknown) to be replaced in place. Laterals to be replaced as deemed necessary in the field.



PROFILE
PN 485
WO 5449

PROFILE "B"
PN 485
WO 5450

PROFILE
PN 485
WO 5450

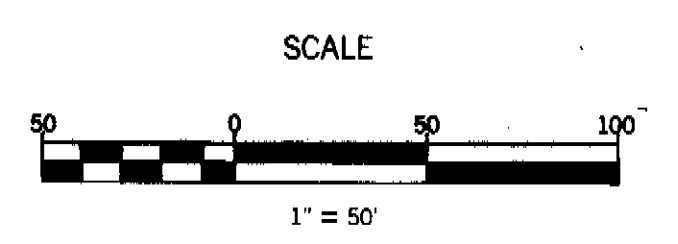
AS BUILT
House Connections & Manholes 1-13-81 C.K.

JACK P. MORRIS, P.E. # 24578
CHIEF ENGINEER
DEPARTMENT OF SANITARY SEWERS

DES:LYH
DRN:LYH
CKD:RLM
DATE:

APPROVED BY
ELTON G. SMITH, P.E.
DIRECTOR
DEPARTMENT OF SANITARY SEWERS

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		



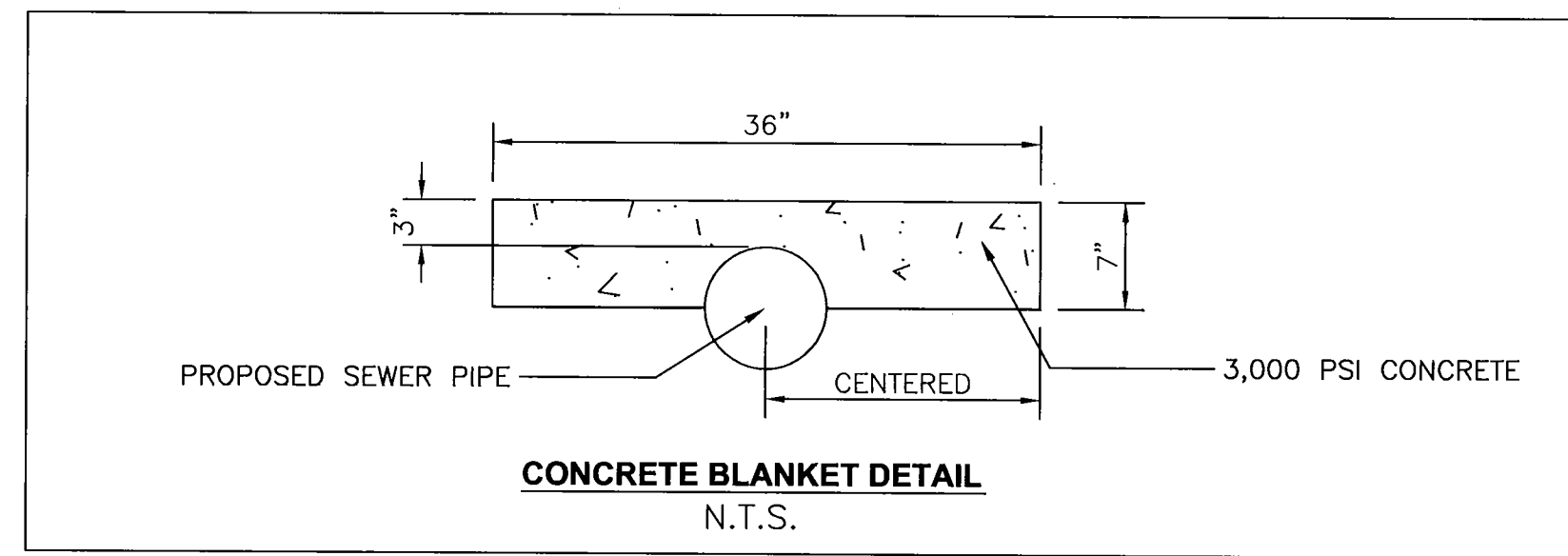
DEPARTMENT of SANITARY SEWERS
CITY of TAMPA, FLORIDA
RENEWAL & REPLACEMENT
SEWAGE DISPOSAL SYSTEM

VIRGINIA AVE: Alley West of Florida to Alley East of Florida. FLORIDA AVE: W.Wilder to E.Wilder to Alley East of Florida. FLORIDA AVE: E.Wilder to North

SHEET 1
OF 1

LEGEND:

- (D) = Description Data
- (P) = Measured Data
- (M) = Found Cross Cut
- F.C.C. = Found Cross Cut
- NO I.D. = No Identification
- BLDG. = Building
- C/O = Cleanout
- Conc. = Concrete
- DIA. = Diameter
- Elec. = Electrical
- F.H. = Fire Hydrant
- L.P. = Light Pole
- m.as. = masonry
- P.M. = Parking Meter
- R/W = Right-of-way
- s.s. = Street Sign
- T.C.B. = Inground Traffic Control Box
- T.E.C.O. = Tampa Electric Company
- (Typ.) = Typical
- o = EXISTING TREES
- = PROPOSED SHRUBS
- ▨ = PROPOSED CONC./ASPHALT GRADE
- ▩ = PROPOSED GROUND GRADE
- ▧ = Proposed Conc./Asphalt Grade Break Point
- = existing Top of Curb or Sidewalk
- = existing edge of Pavement or Flowline



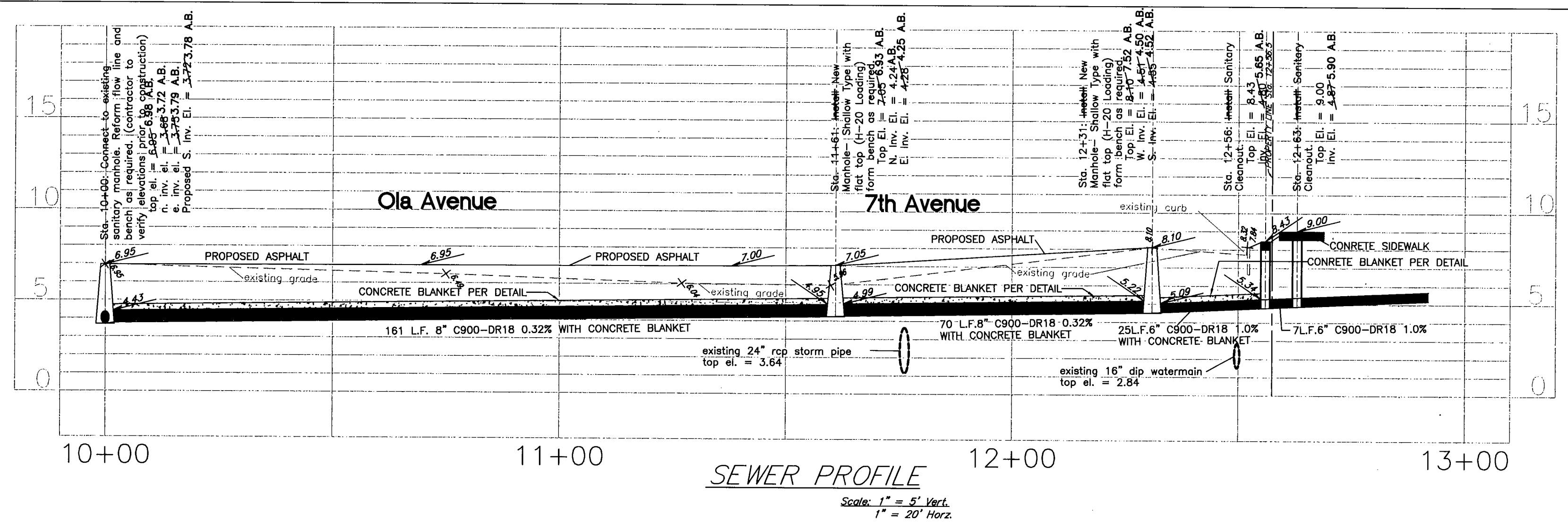
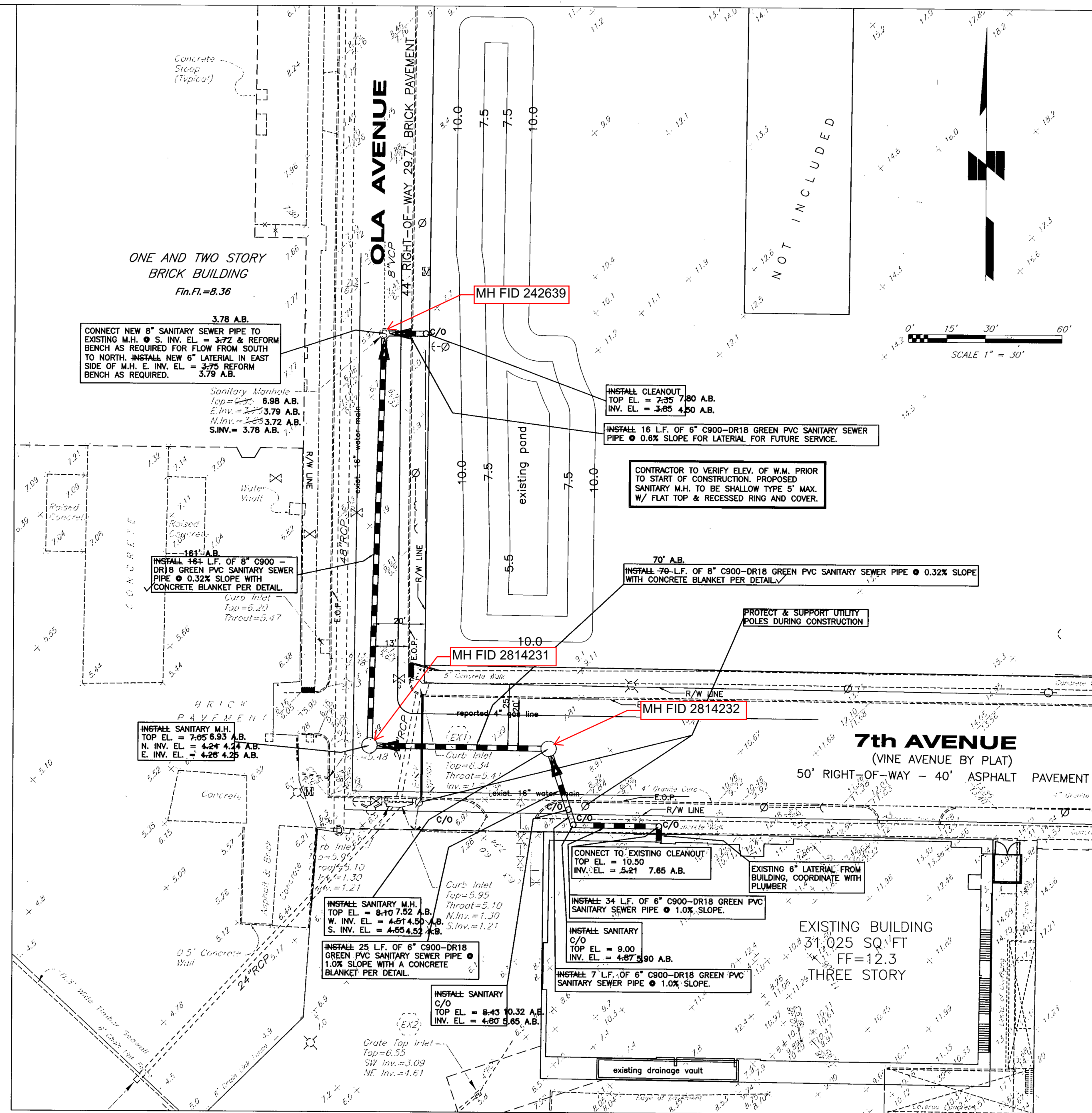
NOTE TO CONTRACTOR:
CONTRACTOR TO CALL SUNSHINE ONE-CALL OF FLORIDA AT 1-800-432-4770 A MINIMUM OF 2 DAYS BEFORE EXCAVATION.

SPECIAL NOTE

CONTRACTOR RESPONSIBLE FOR LOCATION & VERIFICATION OF ALL UTILITIES IN RIGHT-OF-WAY PRIOR TO ANY CONSTRUCTION & NOTIFY THE ENGINEER FOR CONSTRUCTION

NAVD88 EL. = 34.66 NVD29 EL. = 35.51
EL. = 0.00 EL. = 0.85

THIS DRAWING IS IN NVD29 TO CONVERT TO NAVD88 SUBTRACT 0.85 TO THE SHOWN ELEVATION



SANITARY SEWER AS-BUILTS: 12/1/09

REVISIONS				
BY	DATE	DESCRIPTION	BY	DATE

MILLS and ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS

3242 HENDERSON BOULEVARD • SUITE 300
TAMPA, FLORIDA 33609-3056
TELEPHONE: (813) 876-5869

FOR

BECK GROUP

DRWN BY: ATG DATE 7/6/09
DSGN BY: ATG DATE 10/5/09
CHKD BY: LEM DATE
SCALE: 1" = 30'

Lawrence E. Mills
LAWRENCE E. MILLS
P.E. NO. 22324 - E.B. NO. 3860
P.L.S. NO. 3141 - L.B. NO. 3868
STATE OF FLORIDA

PROJECT
BECK GROUP HEADQUARTERS

SEWER PLAN & PROFILE VIEW

SHEET
C 1.3

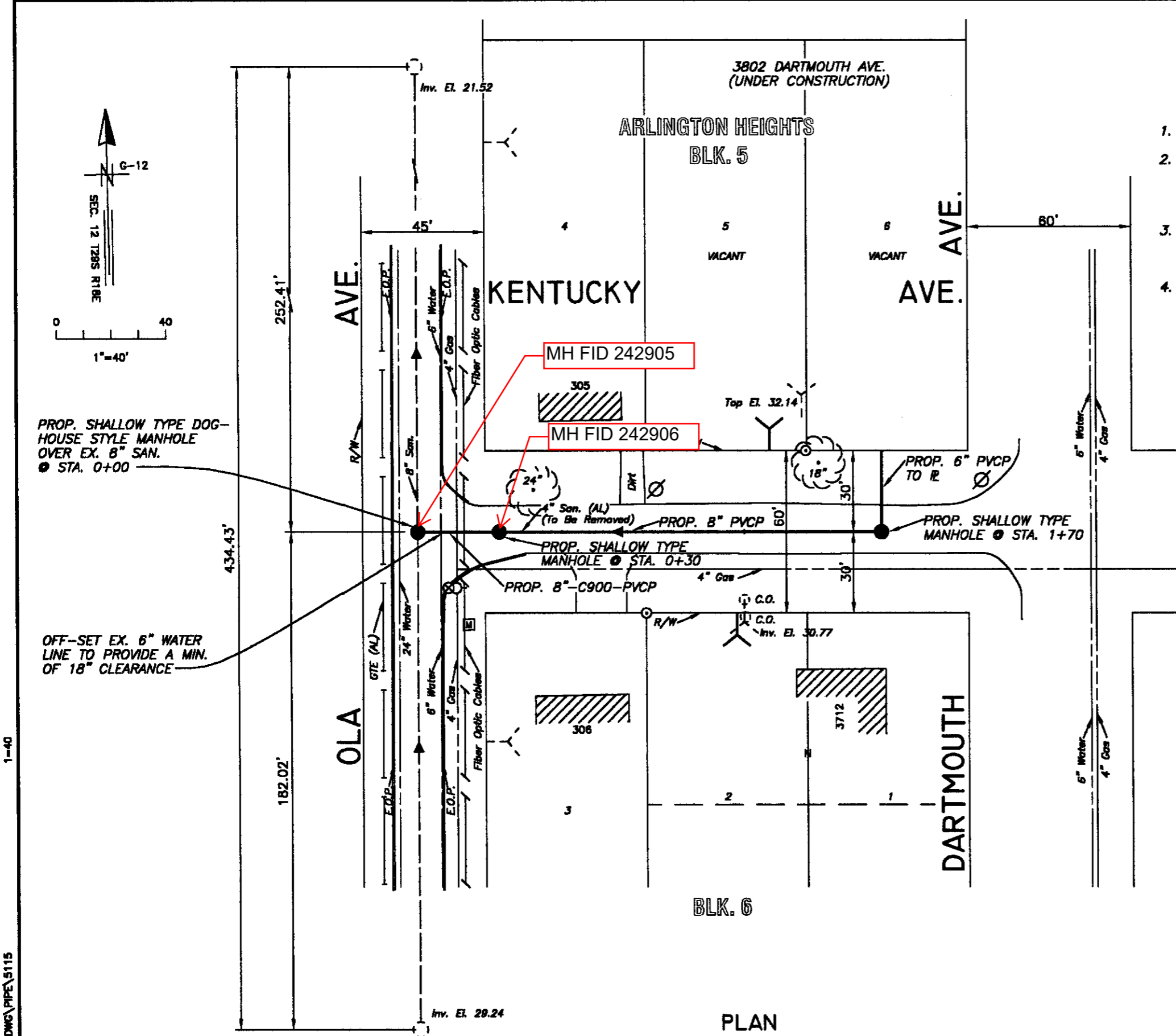
JOB NO.
09-008

2010-062

B8-38


NOTES


1. ALL ELEVATIONS ARE BASED ON NOS DATUM UNLESS OTHERWISE NOTED.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES WERE PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE. VERIFY THE LOCATION AND DEPTH OF ALL PERTINENT UTILITIES PRIOR TO CONSTRUCTION. NOTIFY UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.
3. NEW HOUSE CONNECTION LOCATIONS ARE APPROXIMATE ONLY. REQUIRED LOCATION AND DEPTH WILL BE COORDINATED WITH THE HOMEOWNER AT THE TIME OF CONSTRUCTION BY THE D.S.S. CONSTRUCTION CREWS.
4. EXERCISE CAUTION WHEN CONSTRUCTING THE PROPOSED SANITARY SEWER UNDER THE EXISTING GAS LINE, AND FIBER OPTIC CABLES.



PLAN

G:\V0402000\DWG\PIPE\5115


 HENRY DORZBACK, P.E. #39449
 CHIEF ENGINEER
 DEPARTMENT OF SANITARY SEWERS

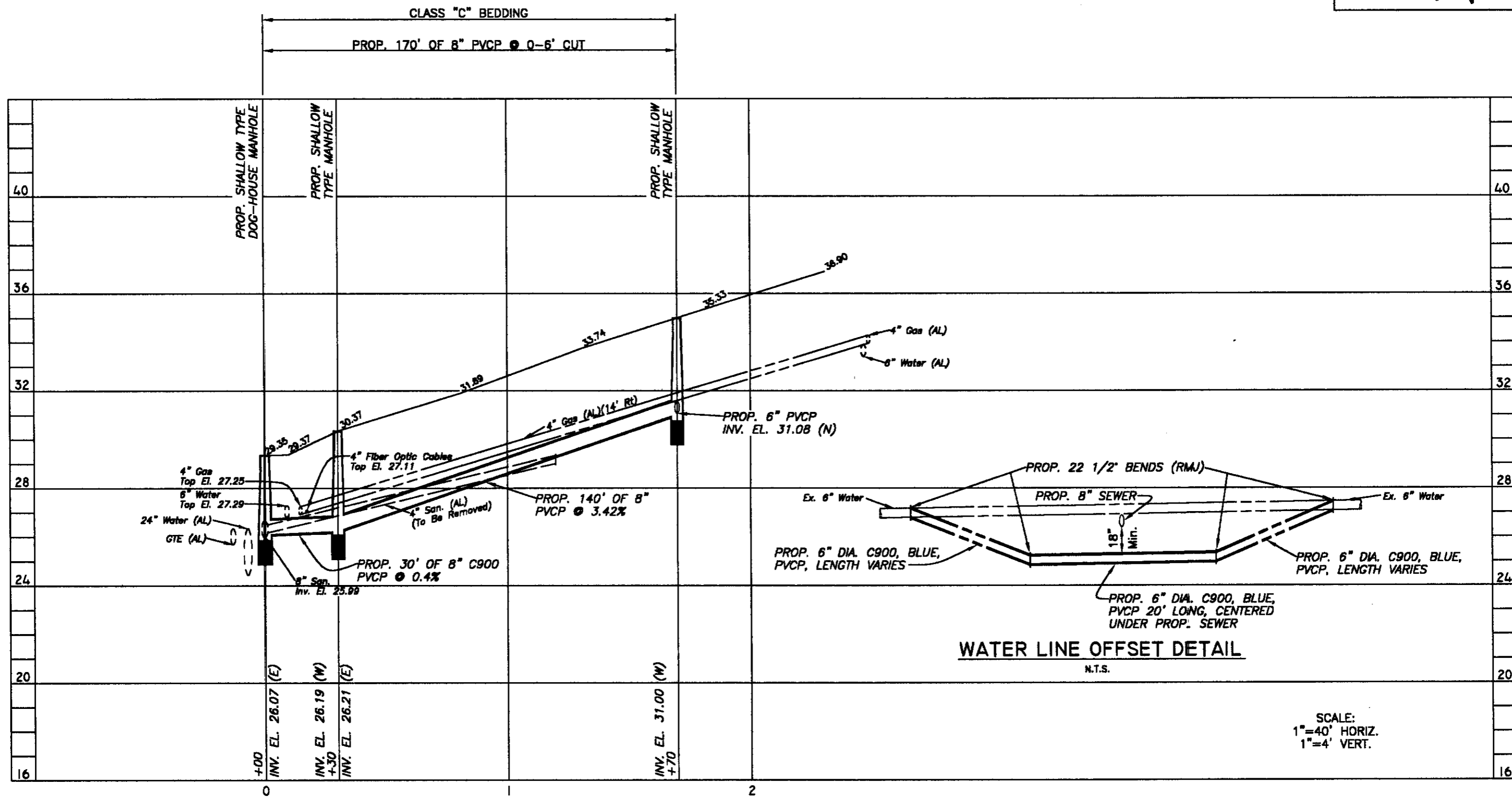

 RALPH L. METCALF II, P.E.
 DIRECTOR
 DEPARTMENT OF SANITARY SEWERS

DES:	No.	DATE	REVISIONS
J.P.W.	3		
R.A.R.	2		
CKD:	1		
DATE: 1-1-00			

CITY of TAMPA
 DEPARTMENT OF SANITARY SEWERS
 SANITARY SEWERS DIVISION

KENTUCKY AVE: FROM OLA AVE. TO
 DARTMOUTH AVE.

W.O. 5115
 SHEET
 1
 OF 2



PROFILE

WATER LINE OFFSET DETAIL
N.T.S.

SCALE:
1"=40' HORIZ.
1"=4' VERT.

1-40

C:\CAD2000\DWG\PIPE\5115

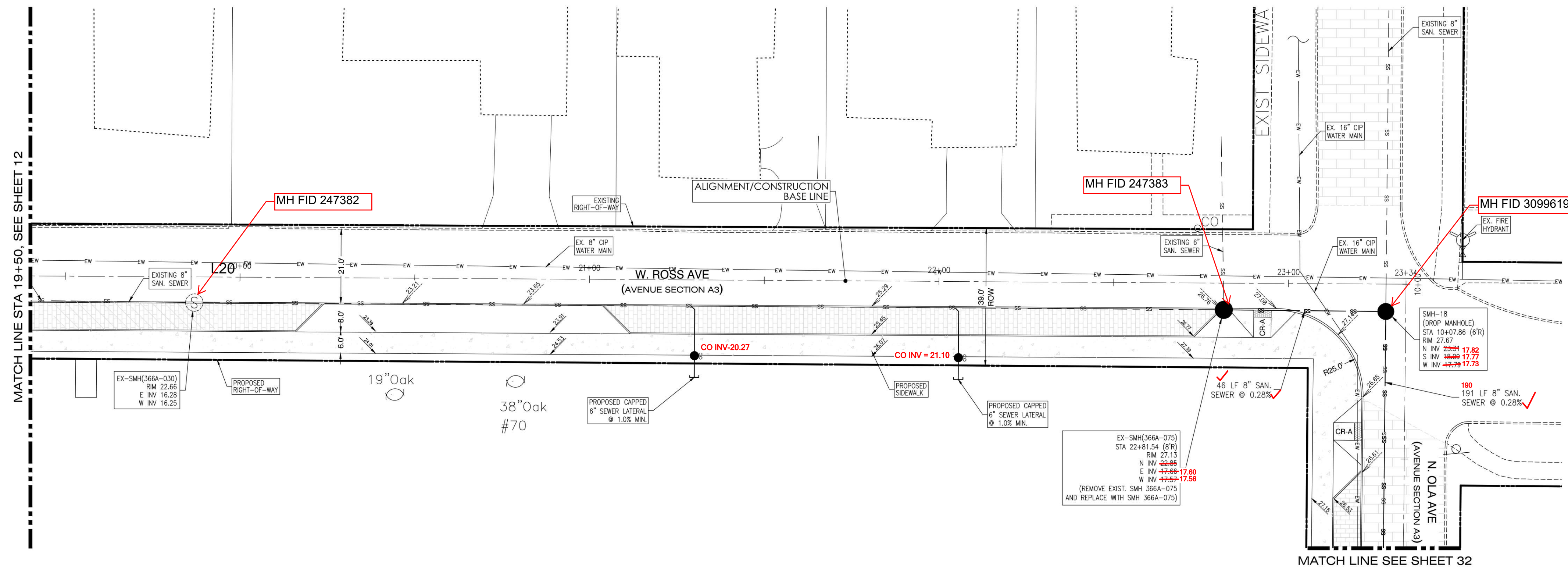
No.	DATE	REVISIONS	No.	DATE	REVISIONS
3			6		
2			5		
1			4		

DES: J.P.W.
DRN: R.A.R.
CKD: *[Signature]*
DATE: 2/8/00

CITY of TAMPA
DEPARTMENT OF SANITARY SEWERS
SANITARY SEWERS DIVISION

KENTUCKY AVE: FROM OLA AVE. TO
DARTMOUTH AVE.

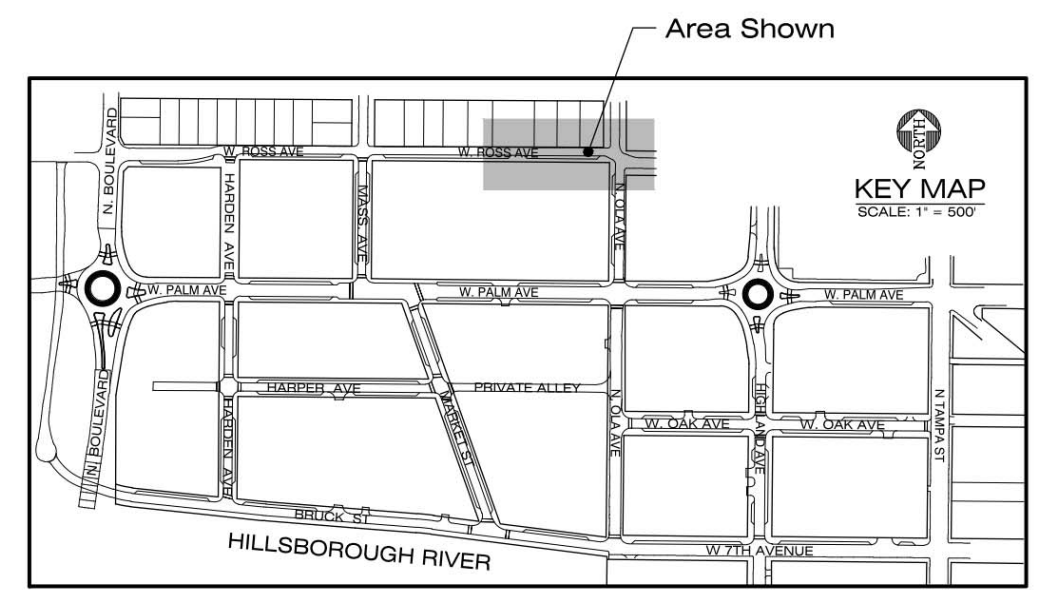
W.O. 5115
SHEET
2
OF 2



LEGEND

- BOUNDARY/PROPERTY LINE
- - - - - EXISTING SANITARY SEWER
- PROPOSED PVC SANITARY SEWER
- PROPOSED PVC SANITARY FORCE MAIN
- PROPOSED CLEAN OUT
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING WATER MAIN
- WATER MAIN
- TEE
- CROSS
- REDUCER/ENLARGER
- GATE VALVE & BOX
- PERMANENT BLOW-OFF
- FIRE HYDRANT ASSEMBLY
- PROPOSED 4'x6' TREE GRATE
- EXISTING STORM SEWER
- EXISTING STORM SEWER INLET
- EXISTING STORM SEWER MANHOLE
- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- PROPOSED STORM MANHOLE
- EXISTING ELEVATION
- PROPOSED ELEVATION
- CURB RAMP PER F.D.O.T. INDEX 304
- PROPOSED 1" MILLING & RESURFACING (SP-12.5 ASPHALT)
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE SIDEWALK
- PROPOSED BRICK PAVERS

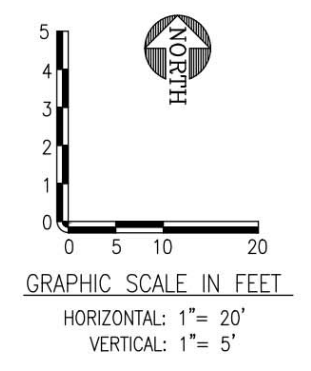
NOTE: PROPOSED PIPES & STRUCTURES ARE SHOWN SOLID. EXISTING PIPES & STRUCTURES ARE SHOWN OPEN & DASHED.



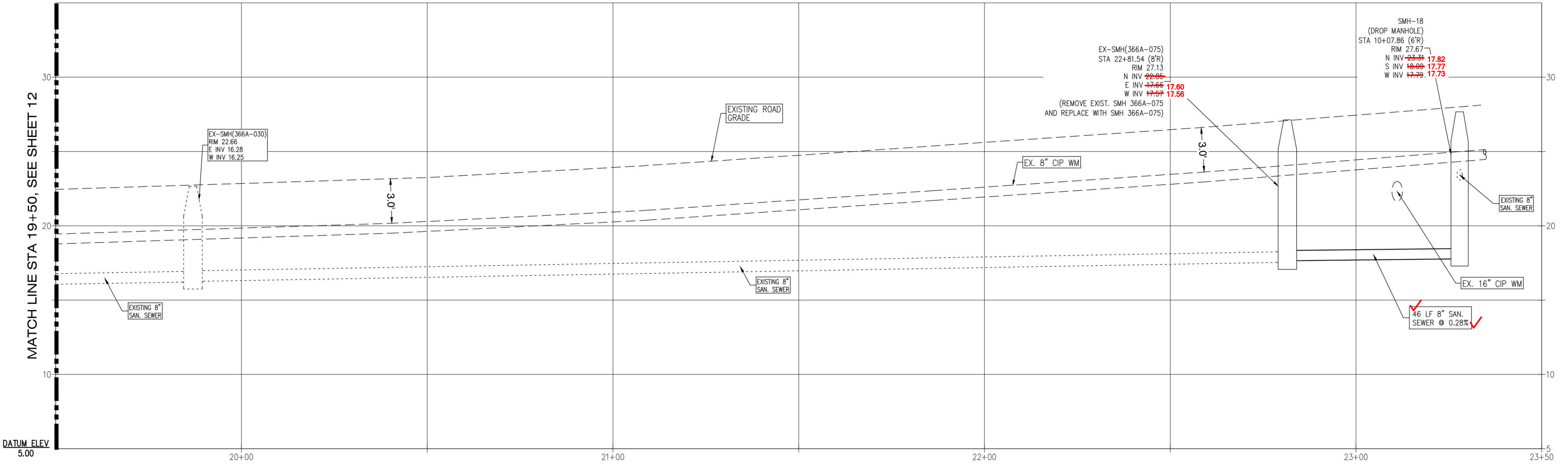
NOTE: ALL PROPOSED DRY CONNECTIONS TO BE CAPPED

ALIGNMENT/CENTER LINE GEOMETRY

W. ROSS AVE.			
Number	Radius	Length	Line/Chord Direction
L19	365.68		S89° 39' 09"E
L20	677.03		S89° 39' 18"E
L21	339.56		S89° 39' 09"E



NOTE
THE BENCH OF THE EXISTING MANHOLE SHALL BE CONSTRUCTED TO ACCOMMODATE THE NEW FLOW CONNECTION.



Todd C. Amaden, PE, State of Florida, Professional Engineer, License No. 53967.
This item has been electronically signed and sealed by Todd C. Amaden, PE., on 08/19/2016 using a Digital Signature.
Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electric copies.

REVISIONS: 7/16/16 REVISIONS PER CITY OF TAMPA COMMENTS
DATE: 1/25/16
DRAWN BY: RMS
CHECKED BY: TCA
JOB NO.: 2130089
Elevations based on NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)

THE HEIGHTS REDEVELOPMENT
CITY OF TAMPA, FLORIDA
PLAN & PROFILE -
W. ROSS AVE

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